

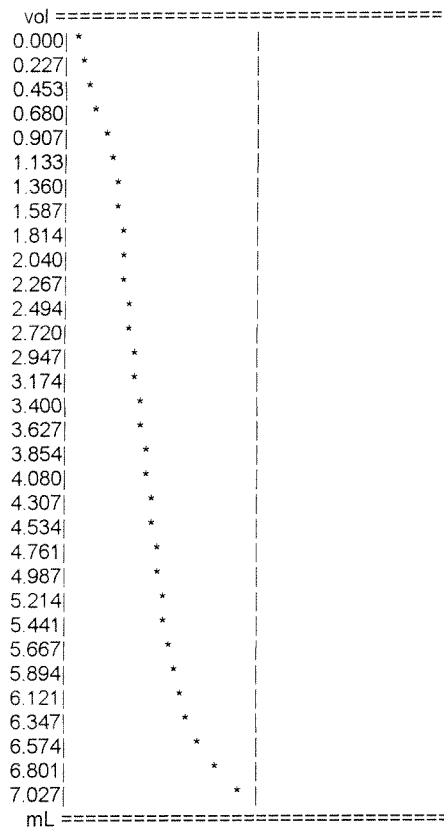
17 v= 6.872 mL E= 123.4 mV
 pH= 4.860
 18 v= 6.924 mL E= 132.9 mV
 pH= 4.697
 19 v= 6.976 mL E= 143.5 mV
 pH= 4.515
 20 v= 7.027 mL E= 153.6 mV
 pH= 4.341

7.1 min

PRESET END POINT ANALYSIS

SAMPLE = 232.88 ppm (v)
 END POINT VOL= 6.980 mL (144.4 mV)
 (pH 4.500)

Excess Titre= 0.047 mL
 Relative Scale



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 22.1 mV pH 6.600

NO. 2 WASH OF 3
 10 SECOND WASH
 40.3 mV pH 6.287

NO. 3 WASH OF 3
 10 SECOND WASH
 22.3 mV pH 6.597

BEAKER[10] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 5
 TEST: 41843-2
 SITE: _____
 ANALYST: _____

15:56 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500

0 v= 0.000 mL E= -34.9 mV
 pH= 7.579

1 v= 0.052 mL E= -44.5 mV
 pH= 7.744

*** deviating from endpoint

2 v= 0.103 mL E= -46.8 mV
 pH= 7.783

*** deviating from endpoint

3 v= 1.033 mL E= -22.5 mV
 pH= 7.366

4 v= 1.705 mL E= -5.7 mV
 pH= 7.077

5 v= 2.119 mL E= 1.8 mV
 pH= 6.949

6 v= 2.894 mL E= 11.7 mV
 pH= 6.779

7 v= 4.030 mL E= 26.5 mV
 pH= 6.524

8 v= 4.806 mL E= 37.9 mV
 pH= 6.329

9 v= 5.426 mL E= 48.0 mV
 pH= 6.155

10 v= 5.994 mL E= 59.8 mV
 pH= 5.952

11 v= 6.356 mL E= 70.8 mV
 pH= 5.763

12 v= 6.562 mL E= 78.2 mV
 pH= 5.636

13 v= 6.821 mL E= 90.0 mV
 pH= 5.434

14 v= 6.976 mL E= 100.0 mV
 pH= 5.262

15 v= 7.079 mL E= 108.7 mV
 pH= 5.113

16 v= 7.182 mL E= 121.0 mV
 pH= 4.901

17 v= 7.234 mL E= 128.7 mV
 pH= 4.769

18 v= 7.286 mL E= 137.8 mV
 pH= 4.613

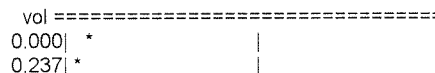
19 v= 7.337 mL E= 147.6 mV
 pH= 4.444

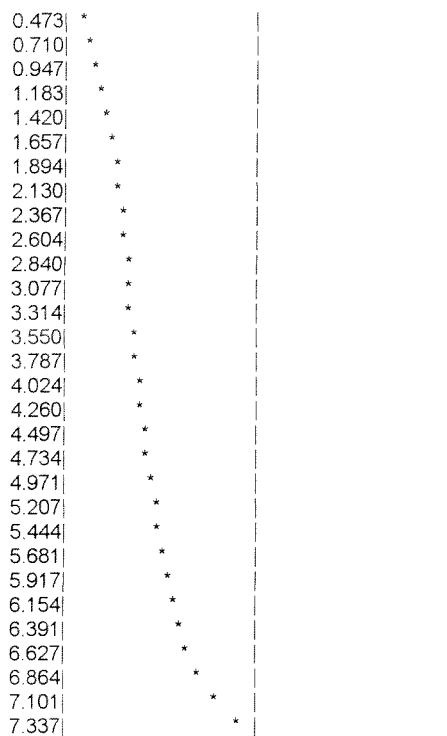
6.7 min

PRESET END POINT ANALYSIS

SAMPLE = 244.23 ppm (v)
 END POINT VOL= 7.320 mL (144.4 mV)
 (pH 4.500)

Excess Titre= 0.017 mL
 Relative Scale





Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 26.2 mV pH 6.530
 NO. 2 WASH OF 3
 10 SECOND WASH
 32.5 mV pH 6.421
 NO. 3 WASH OF 3
 10 SECOND WASH
 21.1 mV pH 6.617

BEAKER[11] ANALYSIS

METHOD 1 SUMMARY

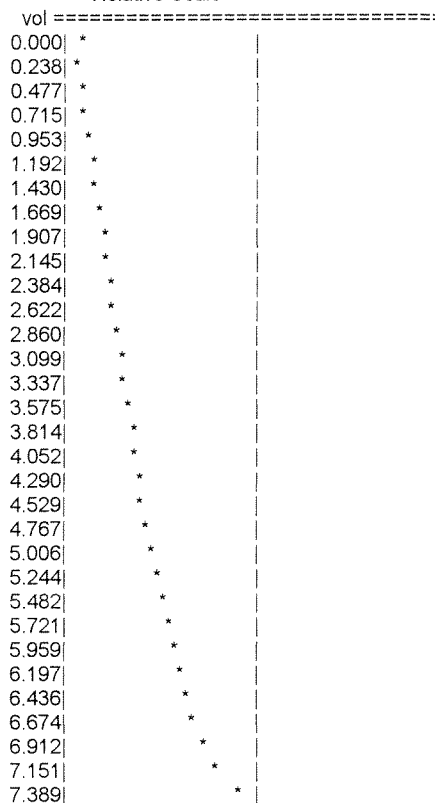
SAMPLE ID NUMBER: 6
 TEST: 4843-2d
 SITE: _____
 ANALYST: _____
 16:05 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT 0.0200 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -40.6 mV
 pH= 7.677
 1 v= 0.052 mL E= -49.5 mV
 pH= 7.830

*** deviating from endpoint
 2 v= 0.103 mL E= -50.3 mV
 pH= 7.843
 *** deviating from endpoint
 3 v= 5.116 mL E= 39.4 mV
 pH= 6.303
 4 v= 5.581 mL E= 55.1 mV
 pH= 6.033
 5 v= 5.736 mL E= 60.3 mV
 pH= 5.944
 6 v= 6.046 mL E= 67.7 mV
 pH= 5.817
 7 v= 6.614 mL E= 84.3 mV
 pH= 5.532
 8 v= 6.872 mL E= 96.2 mV
 pH= 5.327
 9 v= 7.027 mL E= 105.9 mV
 pH= 5.161
 10 v= 7.131 mL E= 114.3 mV
 pH= 5.016
 11 v= 7.234 mL E= 125.7 mV
 pH= 4.821
 12 v= 7.286 mL E= 132.6 mV
 pH= 4.702
 13 v= 7.337 mL E= 140.7 mV
 pH= 4.563
 14 v= 7.389 mL E= 149.2 mV
 pH= 4.417

5.1 min

PRESET END POINT ANALYSIS

SAMPLE = 245.55 ppm (v)
 END POINT VOL= 7.360 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.029 mL
 Relative Scale



mL =====
 Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 26.7 mV pH 6.521
 NO. 2 WASH OF 3
 10 SECOND WASH
 36.4 mV pH 6.354
 NO. 3 WASH OF 3
 10 SECOND WASH
 22.9 mV pH 6.586
 BEAKER[12] ANALYSIS

=====
 METHOD 1 SUMMARY
 =====

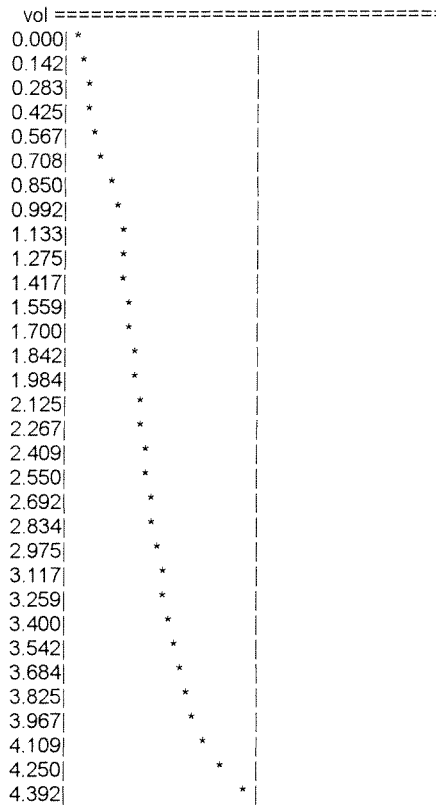
SAMPLE ID NUMBER: 7
 TEST: 4843-3
 SITE: _____
 ANALYST: _____
 16:13 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -65.8 mV
 pH= 8.110
 1 v= 0.672 mL E= -35.2 mV
 pH= 7.584
 2 v= 0.878 mL E= -18.6 mV
 pH= 7.299
 3 v= 0.930 mL E= -12.9 mV
 pH= 7.201
 4 v= 0.982 mL E= -11.0 mV
 pH= 7.168
 5 v= 1.809 mL E= 6.2 mV
 pH= 6.873
 6 v= 2.635 mL E= 28.3 mV
 pH= 6.493
 7 v= 2.945 mL E= 39.7 mV
 pH= 6.298
 8 v= 3.152 mL E= 46.7 mV
 pH= 6.177
 9 v= 3.462 mL E= 56.7 mV
 pH= 6.006
 10 v= 3.772 mL E= 70.2 mV
 pH= 5.774
 11 v= 3.927 mL E= 80.2 mV
 pH= 5.602
 12 v= 4.030 mL E= 88.5 mV
 pH= 5.459
 13 v= 4.134 mL E= 99.8 mV
 pH= 5.265
 14 v= 4.185 mL E= 107.2 mV
 pH= 5.138
 15 v= 4.237 mL E= 116.3 mV
 pH= 4.982
 16 v= 4.289 mL E= 127.8 mV
 pH= 4.784

17 v= 4.340 mL E= 140.9 mV
 pH= 4.559
 18 v= 4.392 mL E= 152.7 mV
 pH= 4.357

6.3 min

=====
 PRESET END POINT ANALYSIS
 =====

SAMPLE = 145.32 ppm (v)
 END POINT VOL= 4.356 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.037 mL
 Relative Scale



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 30.6 mV pH 6.454
 NO. 2 WASH OF 3
 10 SECOND WASH
 41.3 mV pH 6.270
 NO. 3 WASH OF 3
 10 SECOND WASH
 27.7 mV pH 6.504
 BEAKER[13] ANALYSIS

=====
 METHOD 1 SUMMARY
 =====

SAMPLE ID NUMBER: 8
 TEST: 4843-4
 SITE: _____
 ANALYST: _____
 16:21 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV

SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -4.2 mV
 pH= 7.052
 1 v= 2.480 mL E= -0.8 mV
 pH= 6.993
 2 v= 7.492 mL E= 13.7 mV
 pH= 6.744
 3 v= 9.146 mL E= 17.5 mV
 pH= 6.679
 4 v= 14.158 mL E= 29.9 mV
 pH= 6.466
 5 v= 17.930 mL E= 38.5 mV
 pH= 6.318
 6 v= 22.684 mL E= 49.8 mV
 pH= 6.124
 7 v= 25.009 mL E= 55.7 mV
 pH= 6.023

4.1 min

=====

PRESET END POINT ANALYSIS

=====

*** preset endpoint was not reached
 *** analysis failed

NO. 1 WASH OF 3
 10 SECOND WASH
 -33.8 mV pH 7.560
 NO. 2 WASH OF 3
 10 SECOND WASH
 -20.9 mV pH 7.339
 NO. 3 WASH OF 3
 10 SECOND WASH
 -23.5 mV pH 7.383
 BEAKER[14] ANALYSIS

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METHOD 1 SUMMARY

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SAMPLE ID NUMBER: 9
 TEST: 4843-5 3x
 SITE: _____
 ANALYST: _____
 16:27 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -40.3 mV
 pH= 7.672

1 v= 0.878 mL E= -20.5 mV
 pH= 7.332
 2 v= 1.343 mL E= -13.3 mV
 pH= 7.208
 3 v= 2.274 mL E= -1.5 mV
 pH= 7.005
 4 v= 3.255 mL E= 9.0 mV
 pH= 6.825
 5 v= 4.340 mL E= 18.8 mV
 pH= 6.657
 6 v= 5.632 mL E= 30.6 mV
 pH= 6.454
 7 v= 6.717 mL E= 41.6 mV
 pH= 6.265
 8 v= 7.596 mL E= 52.0 mV
 pH= 6.086
 9 v= 8.319 mL E= 62.4 mV
 pH= 5.908
 10 v= 8.888 mL E= 73.6 mV
 pH= 5.715
 11 v= 9.249 mL E= 82.9 mV
 pH= 5.556
 12 v= 9.559 mL E= 93.1 mV
 pH= 5.380
 13 v= 9.818 mL E= 105.0 mV
 pH= 5.176
 14 v= 9.973 mL E= 114.7 mV
 pH= 5.009
 15 v= 10.076 mL E= 122.8 mV
 pH= 4.870
 16 v= 10.179 mL E= 132.7 mV
 pH= 4.700
 17 v= 10.283 mL E= 144.3 mV
 pH= 4.501
 18 v= 10.334 mL E= 150.2 mV
 pH= 4.400

6.6 min

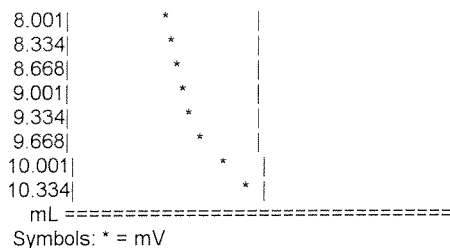
=====

PRESET END POINT ANALYSIS

=====

SAMPLE = 343.09 ppm (v)
~~END POINT VOL= 10.283 mL (144.4 mV)~~
 (pH 4.500)
 Excess Titre= 0.051 mL
 Relative Scale

vol	
0.000	*
0.333	*
0.667	*
1.000	*
1.333	*
1.667	*
2.000	*
2.334	*
2.667	*
3.000	*
3.334	*
3.667	*
4.000	*
4.334	*
4.667	*
5.001	*
5.334	*
5.667	*
6.001	*
6.334	*
6.667	*
7.001	*
7.334	*
7.668	*



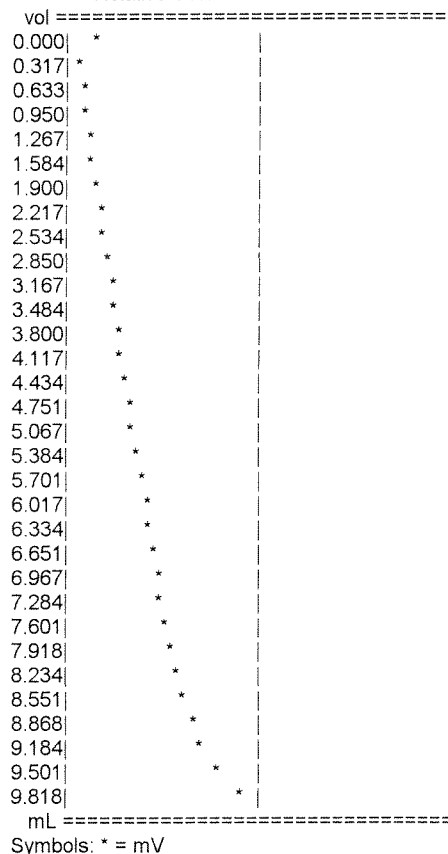
NO. 1 WASH OF 3
 10 SECOND WASH
 30.8 mV pH 6.451
 NO. 2 WASH OF 3
 10 SECOND WASH
 35.1 mV pH 6.377
 NO. 3 WASH OF 3
 10 SECOND WASH
 25.3 mV pH 6.545
 BEAKER[15] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 10
 TEST: US-13-6
 SITE: _____
 ANALYST: _____
 16:36 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT 0.02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -7.6 mV
 pH= 7.110
 1 v= 0.052 mL E= -17.6 mV
 pH= 7.282
 *** deviating from endpoint
 2 v= 0.103 mL E= -23.1 mV
 pH= 7.376
 *** deviating from endpoint
 3 v= 0.258 mL E= -23.9 mV
 pH= 7.390
 *** deviating from endpoint
 4 v= 5.271 mL E= 34.7 mV
 pH= 6.384
 5 v= 5.632 mL E= 41.4 mV
 pH= 6.268
 6 v= 5.994 mL E= 46.1 mV
 pH= 6.188
 7 v= 7.079 mL E= 57.6 mV
 pH= 5.990
 8 v= 8.216 mL E= 76.1 mV
 pH= 5.672
 9 v= 8.629 mL E= 85.1 mV
 pH= 5.518
 10 v= 8.991 mL E= 95.3 mV
 pH= 5.343
 11 v= 9.249 mL E= 105.0 mV

pH= 5.176
 12 v= 9.456 mL E= 115.8 mV
 pH= 4.991
 13 v= 9.611 mL E= 127.1 mV
 pH= 4.796
 14 v= 9.714 mL E= 137.0 mV
 pH= 4.626
 15 v= 9.766 mL E= 142.5 mV
 pH= 4.532
 16 v= 9.818 mL E= 148.4 mV
 pH= 4.431

5.8 min
 =====
 PRESET END POINT ANALYSIS
 =====
 SAMPLE = 326.37 ppm (v)
 END POINT VOL= 9.782 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.035 mL
 Relative Scale



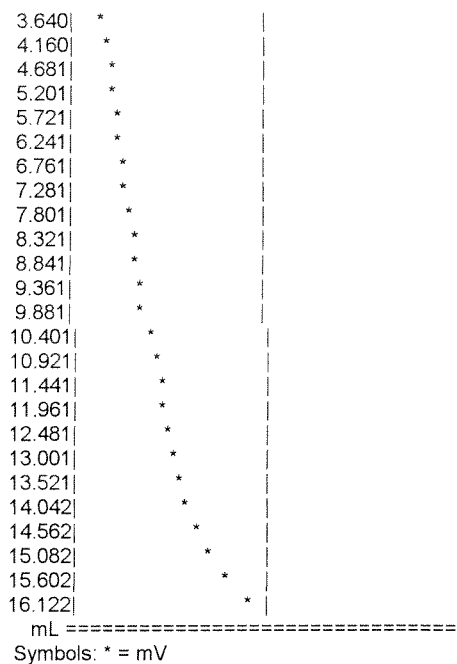
NO. 1 WASH OF 3
 10 SECOND WASH
 21.1 mV pH 6.617
 NO. 2 WASH OF 3
 10 SECOND WASH
 26.8 mV pH 6.519
 NO. 3 WASH OF 3
 10 SECOND WASH
 19.0 mV pH 6.653
 BEAKER[16] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 11

TEST: 41843-7
 SITE: _____
 ANALYST: _____
 16:45 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -11.0 mV
 pH= 7.168
 1 v= 2.015 mL E= -2.7 mV
 pH= 7.026
 2 v= 4.444 mL E= 13.1 mV
 pH= 6.755
 3 v= 5.426 mL E= 18.4 mV
 pH= 6.664
 4 v= 7.648 mL E= 31.3 mV
 pH= 6.442
 5 v= 9.249 mL E= 41.7 mV
 pH= 6.263
 6 v= 10.645 mL E= 51.0 mV
 pH= 6.104
 7 v= 12.091 mL E= 61.9 mV
 pH= 5.916
 8 v= 13.280 mL E= 72.8 mV
 pH= 5.729
 9 v= 14.158 mL E= 83.3 mV
 pH= 5.549
 10 v= 14.778 mL E= 93.4 mV
 pH= 5.375
 11 v= 15.243 mL E= 103.8 mV
 pH= 5.197
 12 v= 15.553 mL E= 113.4 mV
 pH= 5.032
 13 v= 15.812 mL E= 124.9 mV
 pH= 4.834
 14 v= 15.967 mL E= 134.3 mV
 pH= 4.673
 15 v= 16.070 mL E= 141.9 mV
 pH= 4.542
 16 v= 16.122 mL E= 146.0 mV
 pH= 4.472

6.5 min
 =====
 PRESET END POINT ANALYSIS
 =====
 SAMPLE = 537.19 ppm (v)
 END POINT VOL= 16.101 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.021 mL
 Relative Scale
 vol =====
 0.000|*
 0.520|*
 1.040|*
 1.560|*
 2.080|*
 2.600|*
 3.120|*



NO. 1 WASH OF 3
 10 SECOND WASH
 23.7 mV pH 6.572
 NO. 2 WASH OF 3
 10 SECOND WASH
 28.5 mV pH 6.490
 NO. 3 WASH OF 3
 10 SECOND WASH
 20.1 mV pH 6.634
 BEAKER[17] ANALYSIS
 =====

METHOD 1 SUMMARY
 =====
 SAMPLE ID NUMBER: 12
 TEST: 41843-8
 SITE: _____
 ANALYST: _____
 16:53 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -9.7 mV
 pH= 7.146
 1 v= 1.757 mL E= -2.5 mV
 pH= 7.022
 2 v= 4.185 mL E= 13.2 mV
 pH= 6.753
 3 v= 5.167 mL E= 19.2 mV
 pH= 6.650
 4 v= 6.872 mL E= 29.1 mV

pH= 6.480
 5 v= 8.681 mL E= 39.2 mV
 pH= 6.306
 6 v= 10.541 mL E= 50.1 mV
 pH= 6.119
 7 v= 12.143 mL E= 60.5 mV
 pH= 5.940
 8 v= 13.538 mL E= 71.7 mV
 pH= 5.748
 9 v= 14.520 mL E= 81.7 mV
 pH= 5.576
 10 v= 15.295 mL E= 92.2 mV
 pH= 5.396
 11 v= 15.863 mL E= 103.1 mV
 pH= 5.209
 12 v= 16.225 mL E= 112.8 mV
 pH= 5.042
 13 v= 16.483 mL E= 122.4 mV
 pH= 4.877
 14 v= 16.690 mL E= 133.0 mV
 pH= 4.695
 15 v= 16.845 mL E= 143.3 mV
 pH= 4.518
 16 v= 16.897 mL E= 147.1 mV
 pH= 4.453

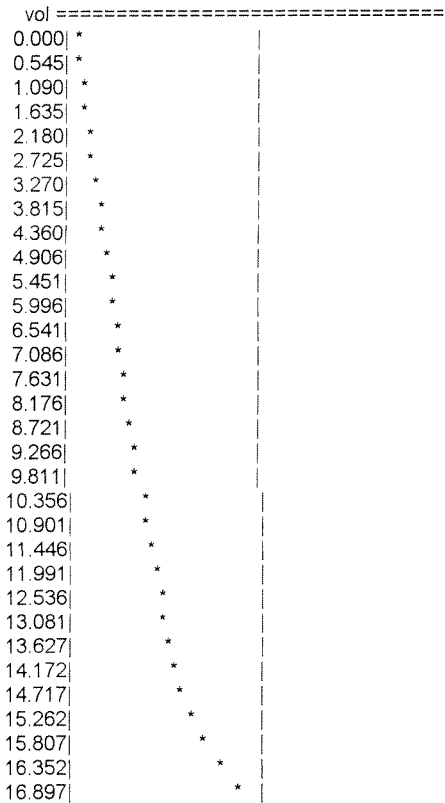
6.4 min

PRESET END POINT ANALYSIS

SAMPLE = 562.49 ppm (v)
 END POINT VOL= 16.860 mL (144.4 mV)
 (pH 4.500)

Excess Titre= 0.037 mL

Relative Scale



mL =====
 Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 26.3 mV pH 6.528
 NO. 2 WASH OF 3
 10 SECOND WASH
 34.1 mV pH 6.394
 NO. 3 WASH OF 3
 10 SECOND WASH
 25.6 mV pH 6.540
 BEAKER[18] ANALYSIS

METHOD 1 SUMMARY

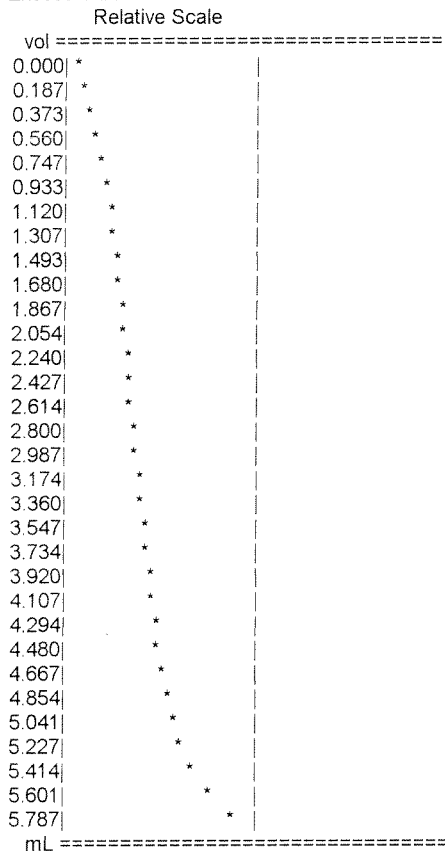
SAMPLE ID NUMBER: 13
 TEST: 45613-9
 SITE: _____
 ANALYST: _____
 17:02 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT 0.02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500

0 v= 0.000 mL E= -53.4 mV
 pH= 7.897
 1 v= 0.517 mL E= -33.5 mV
 pH= 7.555
 2 v= 0.775 mL E= -21.8 mV
 pH= 7.354
 3 v= 0.982 mL E= -16.1 mV
 pH= 7.256
 4 v= 1.602 mL E= -4.8 mV
 pH= 7.062
 5 v= 2.429 mL E= 10.7 mV
 pH= 6.796
 6 v= 2.945 mL E= 19.6 mV
 pH= 6.643
 7 v= 3.565 mL E= 29.6 mV
 pH= 6.471
 8 v= 4.237 mL E= 42.2 mV
 pH= 6.255
 9 v= 4.702 mL E= 53.5 mV
 pH= 6.061
 10 v= 5.012 mL E= 63.1 mV
 pH= 5.896
 11 v= 5.271 mL E= 74.6 mV
 pH= 5.698
 12 v= 5.426 mL E= 84.6 mV
 pH= 5.526
 13 v= 5.529 mL E= 94.0 mV
 pH= 5.365
 14 v= 5.632 mL E= 109.3 mV
 pH= 5.102
 15 v= 5.684 mL E= 121.0 mV
 pH= 4.901
 16 v= 5.736 mL E= 136.2 mV
 pH= 4.640
 17 v= 5.787 mL E= 150.5 mV
 pH= 4.395

6.1 min

PRESET END POINT ANALYSIS

SAMPLE = 192.34 ppm (v)
 END POINT VOL = 5.785 mL (144.4 mV)
 (pH 4.500)
 Excess Titre = 0.022 mL



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 37.8 mV pH 6.330
 NO. 2 WASH OF 3
 10 SECOND WASH
 34.7 mV pH 6.384
 NO. 3 WASH OF 3
 10 SECOND WASH
 27.7 mV pH 6.504
 BEAKER[19] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 14
 TEST: U1843-10
 SITE: _____
 ANALYST: _____
 17:11 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec

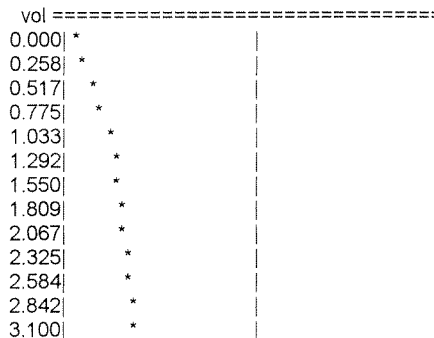
PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -68.8 mV
 pH= 8.161
 1 v= 0.775 mL E= -36.4 mV
 pH= 7.605
 2 v= 1.033 mL E= -24.6 mV
 pH= 7.402
 3 v= 1.240 mL E= -19.6 mV
 pH= 7.316
 4 v= 2.015 mL E= -6.7 mV
 pH= 7.095
 5 v= 2.894 mL E= 6.6 mV
 pH= 6.866
 6 v= 3.617 mL E= 16.1 mV
 pH= 6.703
 7 v= 4.495 mL E= 26.7 mV
 pH= 6.521
 8 v= 5.374 mL E= 38.8 mV
 pH= 6.313
 9 v= 5.994 mL E= 48.8 mV
 pH= 6.141
 10 v= 6.511 mL E= 58.7 mV
 pH= 5.971
 11 v= 6.976 mL E= 70.6 mV
 pH= 5.767
 12 v= 7.286 mL E= 81.8 mV
 pH= 5.575
 13 v= 7.492 mL E= 91.8 mV
 pH= 5.403
 14 v= 7.648 mL E= 102.1 mV
 pH= 5.226
 15 v= 7.751 mL E= 111.1 mV
 pH= 5.071
 16 v= 7.854 mL E= 123.1 mV
 pH= 4.865
 17 v= 7.906 mL E= 130.4 mV
 pH= 4.740
 18 v= 7.958 mL E= 138.6 mV
 pH= 4.599
 19 v= 8.009 mL E= 147.2 mV
 pH= 4.451

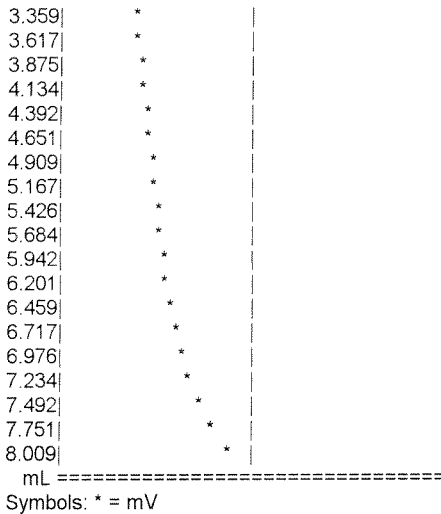
6.9 min

PRESET END POINT ANALYSIS

SAMPLE = 266.65 ppm (v)
 END POINT VOL = 7.992 mL (144.4 mV)
 (pH 4.500)
 Excess Titre = 0.017 mL

Relative Scale

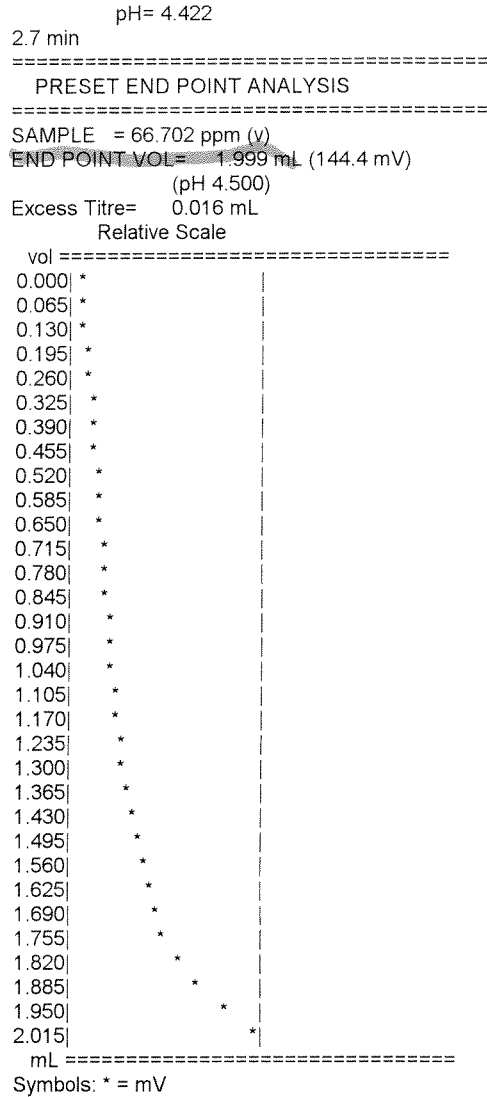




NO. 1 WASH OF 3
 10 SECOND WASH
 35.3 mV pH 6.373
 NO. 2 WASH OF 3
 10 SECOND WASH
 32.1 mV pH 6.428
 NO. 3 WASH OF 3
 10 SECOND WASH
 20.2 mV pH 6.633
 BEAKER[20] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 15
 TEST: 4880-1
 SITE: _____
 ANALYST: _____
 17:20 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 24.0 mV
 pH= 6.567
 1 v= 1.292 mL E= 53.9 mV
 pH= 6.054
 2 v= 1.705 mL E= 82.4 mV
 pH= 5.564
 3 v= 1.757 mL E= 86.4 mV
 pH= 5.496
 4 v= 1.860 mL E= 103.3 mV
 pH= 5.205
 5 v= 1.912 mL E= 116.6 mV
 pH= 4.977
 6 v= 1.964 mL E= 134.2 mV
 pH= 4.675
 7 v= 2.015 mL E= 148.9 mV



NO. 1 WASH OF 3
 10 SECOND WASH
 44.0 mV pH 6.224
 NO. 2 WASH OF 3
 10 SECOND WASH
 34.7 mV pH 6.384
 NO. 3 WASH OF 3
 10 SECOND WASH
 26.4 mV pH 6.526
 BEAKER[21] ANALYSIS

METHOD 1 SUMMARY

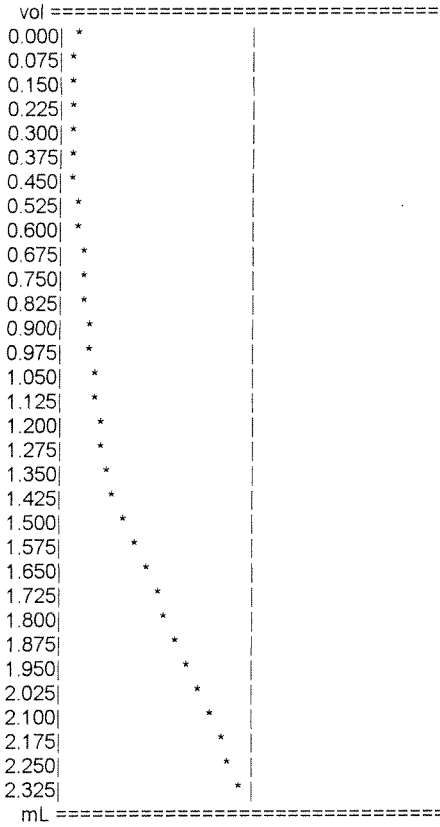
SAMPLE ID NUMBER: 16
 TEST: 4880-1
 SITE: _____
 ANALYST: _____
 17:25 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV

MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 27.5 mV
 pH= 6.507
 1 v= 0.155 mL E= 20.6 mV
 pH= 6.626
 *** deviating from endpoint
 2 v= 0.362 mL E= 20.6 mV
 pH= 6.626
 *** deviating from endpoint
 3 v= 1.343 mL E= 53.5 mV
 pH= 6.061
 4 v= 2.325 mL E= 193.2 mV
 pH= 3.661

1.7 min

PRESET END POINT ANALYSIS

SAMPLE = 66.127 ppm (v)
 END POINT VOL= 1.982 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.343 mL
 Relative Scale



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 54.6 mV pH 6.042
 NO. 2 WASH OF 3

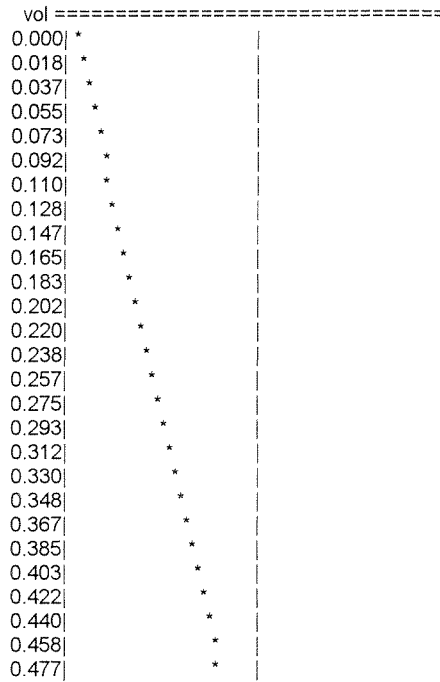
10 SECOND WASH
 43.2 mV pH 6.238
 NO. 3 WASH OF 3
 10 SECOND WASH
 32.1 mV pH 6.428
 BEAKER[22] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 17
 TEST: 4880-2
 SITE: _____
 ANALYST: _____
 17:29 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 70.9 mV
 pH= 5.762
 1 v= 0.568 mL E= 159.1 mV
 pH= 4.247
 0.7 min

PRESET END POINT ANALYSIS

SAMPLE = 15.795 ppm (v)
 END POINT VOL= 0.473 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.095 mL
 Relative Scale



0.495| * |
 0.513| * |
 0.532| * |
 0.550| * |
 0.568| * |

mL =====
 Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 46.4 mV pH 6.183
 NO. 2 WASH OF 3
 10 SECOND WASH
 38.7 mV pH 6.315
 NO. 3 WASH OF 3
 10 SECOND WASH
 28.4 mV pH 6.492
 BEAKER[23] ANALYSIS

=====
 METHOD 1 SUMMARY
 =====

SAMPLE ID NUMBER: 18
 TEST: 48803
 SITE: _____
 ANALYST: _____
 17:32 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT 02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 41.2 mV
 pH= 6.272
 1 v= 0.775 mL E= 65.5 mV
 pH= 5.855
 2 v= 1.085 mL E= 132.5 mV
 pH= 4.704
 3 v= 1.137 mL E= 151.5 mV
 pH= 4.377

1.3 min
 =====
 PRESET END POINT ANALYSIS
 =====

SAMPLE = 37.280 ppm (v)
 END POINT VOL= 1.117 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.019 mL
 Relative Scale

vol =====
 0.000| * |
 0.037| * |
 0.073| * |
 0.110| * |
 0.147| * |
 0.183| * |
 0.220| * |
 0.257| * |
 0.293| * |
 0.330| * |
 0.367| * |

0.403| * |
 0.440| * |
 0.477| * |
 0.513| * |
 0.550| * |
 0.587| * |
 0.623| * |
 0.660| * |
 0.697| * |
 0.733| * |
 0.770| * |
 0.807| * |
 0.843| * |
 0.880| * |
 0.917| * |
 0.953| * |
 0.990| * |
 1.027| * |
 1.063| * |
 1.100| * |
 1.137| * |

mL =====
 Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 46.0 mV pH 6.189
 NO. 2 WASH OF 3
 10 SECOND WASH
 48.8 mV pH 6.141
 NO. 3 WASH OF 3
 10 SECOND WASH
 33.8 mV pH 6.399
 BEAKER[24] ANALYSIS

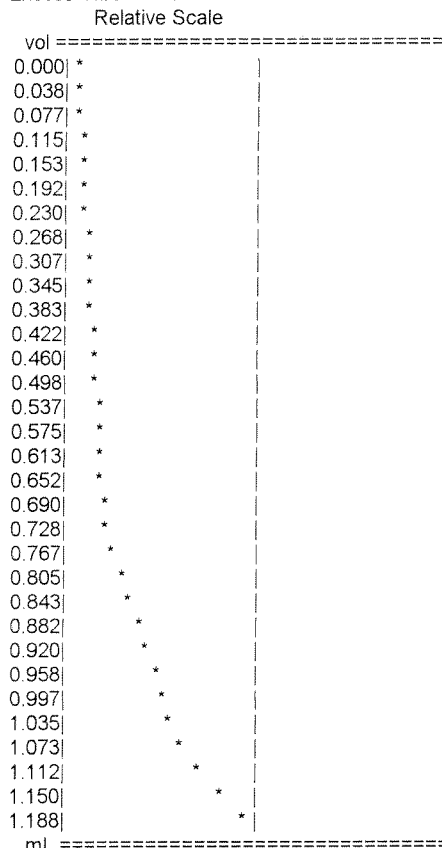
=====
 METHOD 1 SUMMARY
 =====

SAMPLE ID NUMBER: 19
 TEST: 4880-4
 SITE: _____
 ANALYST: _____
 17:36 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT 02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 38.9 mV
 pH= 6.311
 1 v= 0.723 mL E= 57.6 mV
 pH= 5.990
 2 v= 1.085 mL E= 106.1 mV
 pH= 5.157
 3 v= 1.137 mL E= 125.0 mV
 pH= 4.833
 4 v= 1.188 mL E= 146.6 mV
 pH= 4.462

1.7 min
 =====
 PRESET END POINT ANALYSIS
 =====

=====

SAMPLE = 39.473 ppm (v)
 END POINT VOL= 1.183 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.005 mL



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 45.4 mV pH 6.200
 NO. 2 WASH OF 3
 10 SECOND WASH
 30.3 mV pH 6.459
 NO. 3 WASH OF 3
 10 SECOND WASH
 25.3 mV pH 6.545

BEAKER[25] ANALYSIS

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 20
 TEST: 41880-5
 SITE: _____
 ANALYST: _____
 17:40 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING

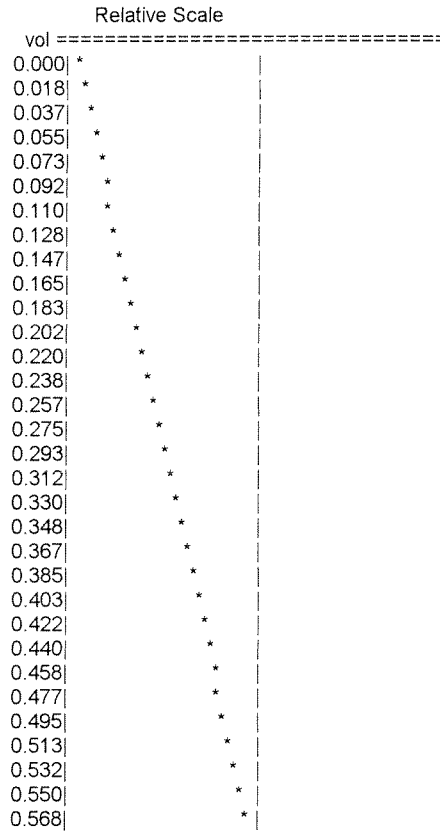
REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 66.8 mV
 pH= 5.832
 1 v= 0.568 mL E= 157.9 mV
 pH= 4.267

0.7 min

PRESET END POINT ANALYSIS

=====

SAMPLE = 16.146 ppm (v)
 END POINT VOL= 0.484 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.084 mL



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 46.4 mV pH 6.183
 NO. 2 WASH OF 3
 10 SECOND WASH
 38.4 mV pH 6.320
 NO. 3 WASH OF 3
 10 SECOND WASH
 28.9 mV pH 6.483

BEAKER[26] ANALYSIS

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 21
 TEST: 41880-6
 SITE: _____

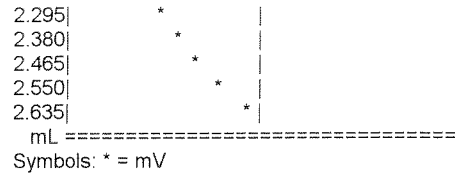
ANALYST: _____
 17:43 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 27.0 mV
 pH= 6.516
 1 v= 1.240 mL E= 41.5 mV
 pH= 6.267
 2 v= 2.119 mL E= 74.3 mV
 pH= 5.703
 3 v= 2.222 mL E= 80.0 mV
 pH= 5.605
 4 v= 2.325 mL E= 85.6 mV
 pH= 5.509
 5 v= 2.532 mL E= 120.0 mV
 pH= 4.918
 6 v= 2.584 mL E= 132.4 mV
 pH= 4.705
 7 v= 2.635 mL E= 145.0 mV
 pH= 4.489

2.8 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 87.835 ppm (v)
 END POINT VOL= 2.633 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.003 mL
 Relative Scale

vol	*
0.000	*
0.085	*
0.170	*
0.255	*
0.340	*
0.425	*
0.510	*
0.595	*
0.680	*
0.765	*
0.850	*
0.935	*
1.020	*
1.105	*
1.190	*
1.275	*
1.360	*
1.445	*
1.530	*
1.615	*
1.700	*
1.785	*
1.870	*
1.955	*
2.040	*
2.125	*
2.210	*



NO. 1 WASH OF 3
 10 SECOND WASH
 43.4 mV pH 6.234
 NO. 2 WASH OF 3
 10 SECOND WASH
 42.6 mV pH 6.248
 NO. 3 WASH OF 3
 10 SECOND WASH
 30.3 mV pH 6.459
 BEAKER[27] ANALYSIS

===== METHOD 1 SUMMARY =====

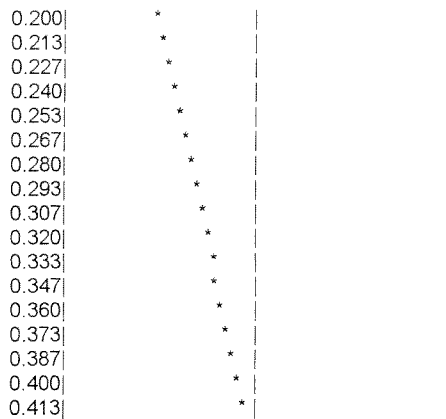
SAMPLE ID NUMBER: 22
 TEST: 61880-7
 SITE: _____
 ANALYST: _____
 17:48 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 60.5 mV
 pH= 5.940
 1 v= 0.413 mL E= 145.3 mV
 pH= 4.484

0.6 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 13.639 ppm (v)
 END POINT VOL= 0.409 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.005 mL
 Relative Scale

vol	*
0.000	*
0.013	*
0.027	*
0.040	*
0.053	*
0.067	*
0.080	*
0.093	*
0.107	*
0.120	*
0.133	*
0.147	*
0.160	*
0.173	*
0.187	*



mL =====
 Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 47.5 mV pH 6.164
 NO. 2 WASH OF 3
 10 SECOND WASH
 38.1 mV pH 6.325
 NO. 3 WASH OF 3
 10 SECOND WASH
 31.1 mV pH 6.445
 BEAKER[28] ANALYSIS

=====
 METHOD 1 SUMMARY
 =====

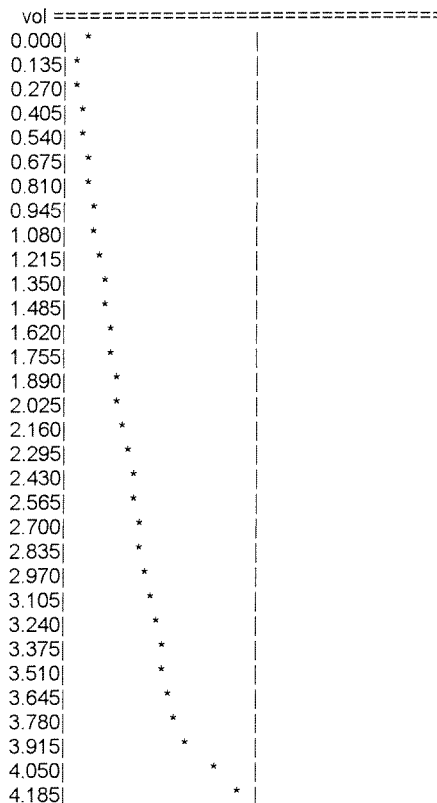
SAMPLE ID NUMBER: 23
 TEST: 41890-1
 SITE: _____
 ANALYST: _____
 17:51 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -23.3 mV
 pH= 7.380
 1 v= 0.052 mL E= -37.5 mV
 pH= 7.624
 *** deviating from endpoint
 2 v= 0.103 mL E= -40.4 mV
 pH= 7.673
 *** deviating from endpoint
 3 v= 0.982 mL E= -18.7 mV
 pH= 7.301
 4 v= 1.912 mL E= 6.5 mV
 pH= 6.868
 5 v= 2.274 mL E= 21.2 mV
 pH= 6.615
 6 v= 2.429 mL E= 26.9 mV
 pH= 6.518
 7 v= 2.739 mL E= 32.8 mV

pH= 6.416
 8 v= 3.772 mL E= 74.0 mV
 pH= 5.709
 9 v= 3.875 mL E= 86.8 mV
 pH= 5.489
 10 v= 3.927 mL E= 91.6 mV
 pH= 5.406
 11 v= 4.082 mL E= 126.5 mV
 pH= 4.807
 12 v= 4.134 mL E= 143.4 mV
 pH= 4.517
 13 v= 4.185 mL E= 156.3 mV
 pH= 4.295

4.6 min
 =====
 PRESET END POINT ANALYSIS
 =====

SAMPLE = 138.05 ppm (v)
 END POINT VOL= 4.136 mL (144.4 mV)
 (pH 4.500)

Excess Titre= 0.048 mL
 Relative Scale



mL =====
 Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 47.4 mV pH 6.165
 NO. 2 WASH OF 3
 10 SECOND WASH
 39.3 mV pH 6.305
 NO. 3 WASH OF 3
 10 SECOND WASH
 24.1 mV pH 6.566
 BEAKER[29] ANALYSIS

=====
 METHOD 1 SUMMARY
 =====

```

=====
SAMPLE ID NUMBER: 24
TEST: 4890-2
SITE: _____
ANALYST: _____
17:58 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV
SAMPLE VOLUME 30.000 mL
TITRANT .02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR 3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500
0 v= 0.000 mL E= 9.5 mV
pH= 6.816
1 v= 0.052 mL E= -0.3 mV
pH= 6.985
*** deviating from endpoint
2 v= 0.103 mL E= 22.0 mV
pH= 6.602
3 v= 0.155 mL E= 51.2 mV
pH= 6.100
4 v= 0.207 mL E= 93.8 mV
pH= 5.368
5 v= 0.258 mL E= 129.2 mV
pH= 4.760
6 v= 0.310 mL E= 149.3 mV
pH= 4.415
2.2 min
=====

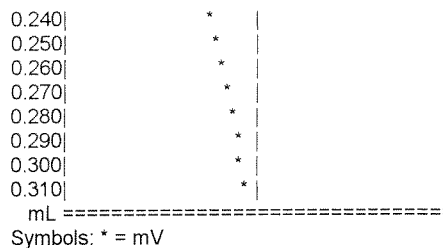
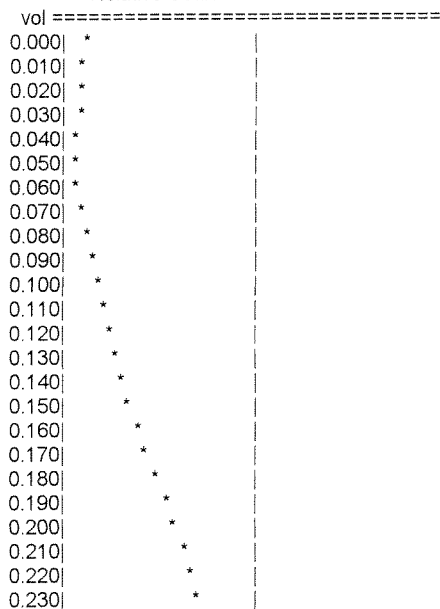
```

PRESET END POINT ANALYSIS

```

=====
SAMPLE = 9.9203 ppm (v)
END POINT VOL= 0.297 mL (144.4 mV)
(pH 4.500)
Excess Titre= 0.013 mL
Relative Scale
vol =====

```



```

=====
NO. 1 WASH OF 3
10 SECOND WASH
27.2 mV pH 6.512
NO. 2 WASH OF 3
10 SECOND WASH
24.7 mV pH 6.555
NO. 3 WASH OF 3
10 SECOND WASH
19.9 mV pH 6.638
BEAKER[30] ANALYSIS
=====

```

METHOD 1 SUMMARY

```

=====
SAMPLE ID NUMBER: 25
TEST: 4890-2
SITE: _____
ANALYST: _____
18:02 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV
SAMPLE VOLUME 30.000 mL
TITRANT .02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR 3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500
0 v= 0.000 mL E= 38.3 mV
pH= 6.322
1 v= 0.362 mL E= 182.0 mV
pH= 3.854
0.6 min
=====

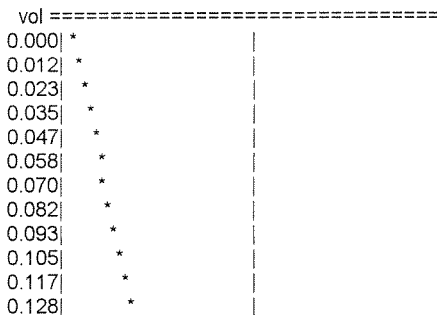
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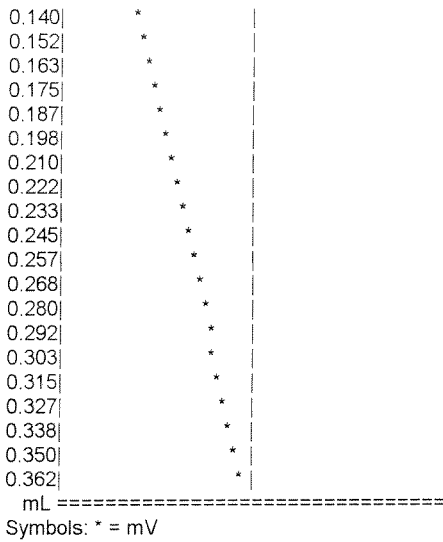
PRESET END POINT ANALYSIS

```

=====
SAMPLE = 8.9070 ppm (v)
END POINT VOL= 0.267 mL (144.4 mV)
(pH 4.500)
Excess Titre= 0.095 mL
Relative Scale
vol =====

```





NO. 1 WASH OF 3
 10 SECOND WASH
 16.3 mV pH 6.700
 NO. 2 WASH OF 3
 10 SECOND WASH
 3.8 mV pH 6.914
 NO. 3 WASH OF 3
 10 SECOND WASH
 4.3 mV pH 6.906

BEAKER[31] ANALYSIS

=====
 METHOD 1 SUMMARY
 =====

SAMPLE ID NUMBER: 26

TEST: 4890-41

SITE: _____

ANALYST: _____

18:05 05-21-10 ELECTRODE: 1:pH

TECHNIQUE 8 PRESET END POINT

SLOPE 58.22 mV/dec

Eo -1.2 mV

SAMPLE VOLUME 30.000 mL

TITRANT .02000 M of _____

CONST INCREMENT 10.0 mV

MAX TITRANT VOL 25.000 mL

TIMED READINGS 10.0 sec

PRESTIR 3.0 sec

CONTINUOUS STIRRING

REACTION RATIO 0.5000

MOLECULAR WEIGHT 100.09

CAL CONSTANT 1.03345

PRESET pH(1) 8.300

PRESET pH(2) 4.500

0 v= 0.000 mL E= -170.2 mV
 pH= 9.903

1 v= 0.258 mL E= -158.2 mV
 pH= 9.697

2 v= 0.465 mL E= -143.0 mV
 pH= 9.436

3 v= 0.568 mL E= -133.5 mV
 pH= 9.273

4 v= 0.672 mL E= -122.9 mV
 pH= 9.090

5 v= 0.775 mL E= -113.6 mV
 pH= 8.931

6 v= 0.878 mL E= -103.2 mV
 pH= 8.752

7 v= 0.982 mL E= -89.8 mV
 pH= 8.522
 8 v= 1.033 mL E= -76.9 mV
 pH= 8.300
 9 v= 1.085 mL E= -63.7 mV
 pH= 8.074
 10 v= 1.137 mL E= -49.7 mV
 pH= 7.833
 11 v= 1.188 mL E= -39.3 mV
 pH= 7.655
 12 v= 1.240 mL E= -30.0 mV
 pH= 7.495
 13 v= 1.292 mL E= -20.5 mV
 pH= 7.332
 14 v= 1.343 mL E= -10.0 mV
 pH= 7.151
 15 v= 1.395 mL E= 0.9 mV
 pH= 6.964
 16 v= 1.447 mL E= 9.9 mV
 pH= 6.810
 17 v= 1.498 mL E= 19.8 mV
 pH= 6.639
 18 v= 1.550 mL E= 32.7 mV
 pH= 6.418
 19 v= 1.602 mL E= 45.6 mV
 pH= 6.196
 20 v= 1.654 mL E= 64.0 mV
 pH= 5.880
 21 v= 1.705 mL E= 103.4 mV
 pH= 5.204
 22 v= 1.757 mL E= 140.2 mV
 pH= 4.571
 23 v= 1.809 mL E= 158.5 mV
 pH= 4.257

7.9 min

=====
 PRESET END POINT ANALYSIS
 =====

SAMPLE = 34.482 ppm (v)

~~END POINT VOL= 1.034 mL (-76.9 mV)~~

(pH 8.300)

Excess Titre= 0.775 mL

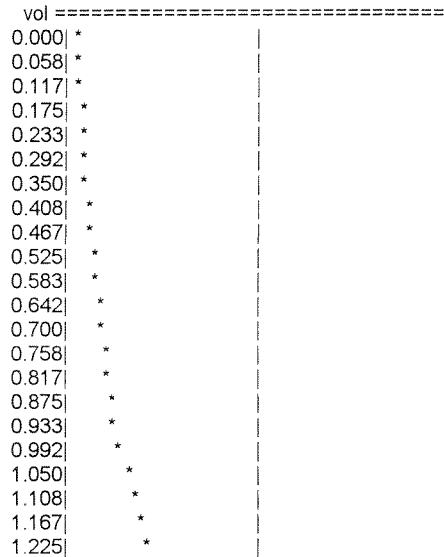
SAMPLE = 59.007 ppm (v)

~~END POINT VOL= 1.769 mL (144.4 mV)~~

(pH 4.500)

Excess Titre= 0.040 mL

Relative Scale



```

1.283| *
1.342| *
1.400| *
1.458| *
1.517| *
1.575| *
1.634| *
1.692| *
1.750| *
1.809| *
=====
mL

```

Symbols: * = mV

```

NO. 1 WASH OF 3
10 SECOND WASH
 27.0 mV pH 6.516
NO. 2 WASH OF 3
10 SECOND WASH
 13.3 mV pH 6.751
NO. 3 WASH OF 3
10 SECOND WASH
 23.6 mV pH 6.574
BEAKER[32] ANALYSIS
=====

```

METHOD 1 SUMMARY

```

=====
SAMPLE ID NUMBER: 27
TEST: 4890-5
SITE: _____
ANALYST: _____
18:16 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV
SAMPLE VOLUME 30.000 mL
TITRANT .02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR 3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500
0 v= 0.000 mL E= 54.1 mV
pH= 6.050
1 v= 0.052 mL E= 129.6 mV
pH= 4.754
2 v= 0.103 mL E= 151.0 mV
pH= 4.386
0.9 min
=====

```

PRESET END POINT ANALYSIS

```

=====
SAMPLE = 2.9132 ppm (v)
END POINT VOL= 0.087 mL (144.4 mV)
(pH 4.500)
Excess Titre= 0.016 mL
Relative Scale
=====

```

```

vol =====
0.000| *
0.003| *
0.007| *
0.010| *
0.013| *
0.017| *
0.020| *
0.023| *
=====

```

```

0.027| *
0.030| *
0.033| *
0.037| *
0.040| *
0.043| *
0.047| *
0.050| *
0.053| *
0.057| *
0.060| *
0.063| *
0.067| *
0.070| *
0.073| *
0.077| *
0.080| *
0.083| *
0.087| *
0.090| *
0.093| *
0.097| *
0.100| *
0.103| *
=====
mL

```

Symbols: * = mV

```

NO. 1 WASH OF 3
10 SECOND WASH
 65.0 mV pH 5.863
NO. 2 WASH OF 3
10 SECOND WASH
 49.0 mV pH 6.138
NO. 3 WASH OF 3
10 SECOND WASH
 35.2 mV pH 6.375
BEAKER[33] ANALYSIS
=====

```

METHOD 1 SUMMARY

```

=====
SAMPLE ID NUMBER: 28
TEST: 4930-1
SITE: _____
ANALYST: _____
18:19 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV
SAMPLE VOLUME 30.000 mL
TITRANT .02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR 3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500
0 v= 0.000 mL E= 20.7 mV
pH= 6.624
1 v= 0.207 mL E= 13.3 mV
pH= 6.751
*** deviating from endpoint
2 v= 0.465 mL E= 13.2 mV
pH= 6.753
*** deviating from endpoint
3 v= 5.477 mL E= 236.0 mV
pH= 2.926
=====

```

1.6 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 113.96 ppm (v)
 END POINT VOL = 3.416 mL (144.4 mV)
 (pH 4.500)

Excess Titre= 2.062 mL
 Relative Scale

vol	mV
0.000	*
0.177	*
0.353	*
0.530	*
0.707	*
0.883	*
1.060	*
1.237	*
1.413	*
1.590	*
1.767	*
1.944	*
2.120	*
2.297	*
2.474	*
2.650	*
2.827	*
3.004	*
3.180	*
3.357	*
3.534	*
3.710	*
3.887	*
4.064	*
4.240	*
4.417	*
4.594	*
4.771	*
4.947	*
5.124	*
5.301	*
5.477	*

mL
 Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 70.6 mV pH 5.767
 NO. 2 WASH OF 3
 10 SECOND WASH
 48.7 mV pH 6.143
 NO. 3 WASH OF 3
 10 SECOND WASH
 39.4 mV pH 6.303
 BEAKER[34] ANALYSIS

===== METHOD 1 SUMMARY =====

SAMPLE ID NUMBER: 29
 TEST: 4930-2
 SITE: _____
 ANALYST: _____
 18:23 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL

TIMED READINGS 10.0 sec

PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500

0 v= 0.000 mL E= -27.7 mV pH= 7.455
1 v= 0.052 mL E= -44.2 mV pH= 7.739
*** deviating from endpoint
2 v= 0.103 mL E= -47.3 mV pH= 7.792
*** deviating from endpoint
3 v= 0.982 mL E= -20.5 mV pH= 7.332
4 v= 1.602 mL E= 5.2 mV pH= 6.890
5 v= 1.757 mL E= 16.5 mV pH= 6.696
6 v= 1.860 mL E= 21.1 mV pH= 6.617
7 v= 2.222 mL E= 29.8 mV pH= 6.468
8 v= 2.997 mL E= 79.9 mV pH= 5.607
9 v= 3.049 mL E= 94.8 mV pH= 5.351
10 v= 3.100 mL E= 108.8 mV pH= 5.111
11 v= 3.152 mL E= 130.1 mV pH= 4.745
12 v= 3.204 mL E= 149.4 mV pH= 4.413

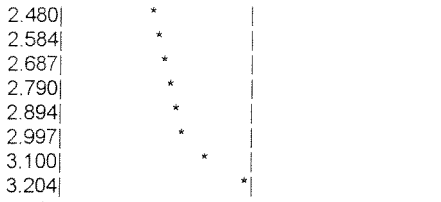
4.2 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 106.44 ppm (v)
 END POINT VOL = 3.190 mL (144.4 mV)
 (pH 4.500)

Excess Titre= 0.013 mL
 Relative Scale

vol	mV
0.000	*
0.103	*
0.207	*
0.310	*
0.413	*
0.517	*
0.620	*
0.723	*
0.827	*
0.930	*
1.033	*
1.137	*
1.240	*
1.343	*
1.447	*
1.550	*
1.654	*
1.757	*
1.860	*
1.964	*
2.067	*
2.170	*
2.274	*
2.377	*



Symbols: * = mV

NO. 1 WASH OF 3
10 SECOND WASH
53.3 mV pH 6.064

NO. 2 WASH OF 3
10 SECOND WASH
32.4 mV pH 6.423

NO. 3 WASH OF 3
10 SECOND WASH
24.8 mV pH 6.554

BEAKER[35] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 30

TEST: 4930-3

SITE: _____

ANALYST: _____

18:30 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV

SAMPLE VOLUME 30.000 mL
TITRANT 0.02000 M of _____

CONST INCREMENT 10.0 mV

MAX TITRANT VOL 25.000 mL

TIMED READINGS 10.0 sec

PRESTIR 3.0 sec

CONTINUOUS STIRRING

REACTION RATIO 0.5000

MOLECULAR WEIGHT 100.09

CAL CONSTANT 1.03345

PRESET pH(1) 8.300

PRESET pH(2) 4.500

0 v= 0.000 mL E= 13.8 mV
pH= 6.743

1 v= 0.052 mL E= 2.9 mV
pH= 6.930

*** deviating from endpoint

2 v= 0.103 mL E= -2.6 mV
pH= 7.024

*** deviating from endpoint

3 v= 0.310 mL E= -0.4 mV
pH= 6.986

4 v= 5.322 mL E= 237.2 mV
pH= 2.905

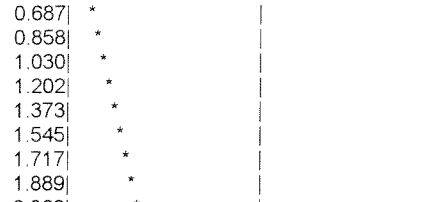
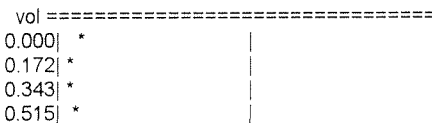
1.8 min

PRESET END POINT ANALYSIS

SAMPLE = 112.23 ppm (v)

END POINT VOL= ~~3.364 mL~~ (144.4 mV)
(pH 4.500)

Excess Titre= 1.958 mL
Relative Scale



Symbols: * = mV

NO. 1 WASH OF 3
10 SECOND WASH
67.7 mV pH 5.817

NO. 2 WASH OF 3
10 SECOND WASH
33.6 mV pH 6.402

NO. 3 WASH OF 3
10 SECOND WASH
32.2 mV pH 6.426

BEAKER[36] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 31

TEST: 4930-21

SITE: _____

ANALYST: _____

18:34 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV

SAMPLE VOLUME 30.000 mL
TITRANT 0.02000 M of _____

CONST INCREMENT 10.0 mV

MAX TITRANT VOL 25.000 mL

TIMED READINGS 10.0 sec

PRESTIR 3.0 sec

CONTINUOUS STIRRING

REACTION RATIO 0.5000

MOLECULAR WEIGHT 100.09

CAL CONSTANT 1.03345

PRESET pH(1) 8.300

PRESET pH(2) 4.500

0 v= 0.000 mL E= -49.8 mV
pH= 7.835

1 v= 0.982 mL E= -41.5 mV
pH= 7.692

2 v= 2.170 mL E= -33.1 mV
pH= 7.548

3 v= 3.875 mL E= -23.9 mV
 pH= 7.390
 4 v= 6.304 mL E= -11.5 mV
 pH= 7.177
 5 v= 8.371 mL E= -2.5 mV
 pH= 7.022
 6 v= 11.058 mL E= 7.0 mV
 pH= 6.859
 7 v= 14.520 mL E= 17.0 mV
 pH= 6.688
 8 v= 18.757 mL E= 27.5 mV
 pH= 6.507
 9 v= 23.459 mL E= 38.3 mV
 pH= 6.322
 10 v= 25.009 mL E= 41.9 mV
 pH= 6.260

4.9 min

=====

PRESET END POINT ANALYSIS

=====

*** preset endpoint was not reached

*** analysis failed

NO. 1 WASH OF 3
 10 SECOND WASH
 -23.3 mV pH 7.380
 NO. 2 WASH OF 3
 10 SECOND WASH
 -32.9 mV pH 7.545
 NO. 3 WASH OF 3
 10 SECOND WASH
 -29.6 mV pH 7.488
 BEAKER[37] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 32
 TEST: 4930-S
 SITE: _____
 ANALYST: _____
 18:41 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -48.8 mV
 pH= 7.818
 1 v= 0.568 mL E= -44.3 mV
 pH= 7.740
 2 v= 1.809 mL E= -33.9 mV
 pH= 7.562
 3 v= 2.945 mL E= -28.1 mV
 pH= 7.462
 4 v= 6.149 mL E= -11.5 mV
 pH= 7.177
 5 v= 8.061 mL E= -3.5 mV
 pH= 7.040
 6 v= 11.006 mL E= 7.0 mV
 pH= 6.859

7 v= 14.313 mL E= 16.6 mV
 pH= 6.694
 8 v= 18.550 mL E= 27.0 mV
 pH= 6.516
 9 v= 23.356 mL E= 38.0 mV
 pH= 6.327
 10 v= 25.009 mL E= 41.7 mV
 pH= 6.263

4.8 min

=====

PRESET END POINT ANALYSIS

=====

*** preset endpoint was not reached

*** analysis failed

NO. 1 WASH OF 3
 10 SECOND WASH
 -23.1 mV pH 7.376
 NO. 2 WASH OF 3
 10 SECOND WASH
 -32.7 mV pH 7.541
 NO. 3 WASH OF 3
 10 SECOND WASH
 -35.7 mV pH 7.593
 BEAKER[38] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 33
 TEST: 4930-S
 SITE: _____
 ANALYST: _____
 18:47 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -46.2 mV
 pH= 7.773
 1 v= 0.568 mL E= -42.2 mV
 pH= 7.704
 2 v= 2.015 mL E= -31.7 mV
 pH= 7.524
 3 v= 3.359 mL E= -24.6 mV
 pH= 7.402
 4 v= 5.942 mL E= -12.0 mV
 pH= 7.186
 5 v= 8.164 mL E= -3.0 mV
 pH= 7.031
 6 v= 11.161 mL E= 7.5 mV
 pH= 6.851
 7 v= 14.468 mL E= 16.8 mV
 pH= 6.691
 8 v= 18.912 mL E= 27.5 mV
 pH= 6.507
 9 v= 23.769 mL E= 38.4 mV
 pH= 6.320
 10 v= 25.009 mL E= 41.2 mV
 pH= 6.272

4.8 min

=====

PRESET END POINT ANALYSIS

=====

*** preset endpoint was not reached
 *** analysis failed

NO. 1 WASH OF 3
 10 SECOND WASH
 -24.7 mV pH 7.404
 NO. 2 WASH OF 3
 10 SECOND WASH
 -34.2 mV pH 7.567
 NO. 3 WASH OF 3
 10 SECOND WASH
 -15.0 mV pH 7.237

BEAKER[39] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 34
 TEST: 4934-1
 SITE: _____
 ANALYST: _____
 18:54 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -16.7 mV
 pH= 7.266
 1 v= 0.155 mL E= -23.5 mV
 pH= 7.383

*** deviating from endpoint
 2 v= 0.362 mL E= -22.8 mV
 pH= 7.371
 3 v= 5.374 mL E= 45.8 mV
 pH= 6.193
 4 v= 5.529 mL E= 55.5 mV
 pH= 6.026
 5 v= 5.581 mL E= 58.0 mV
 pH= 5.983
 6 v= 5.839 mL E= 62.3 mV
 pH= 5.909
 7 v= 7.596 mL E= 139.2 mV
 pH= 4.589
 8 v= 7.648 mL E= 147.4 mV
 pH= 4.448

3.2 min

=====

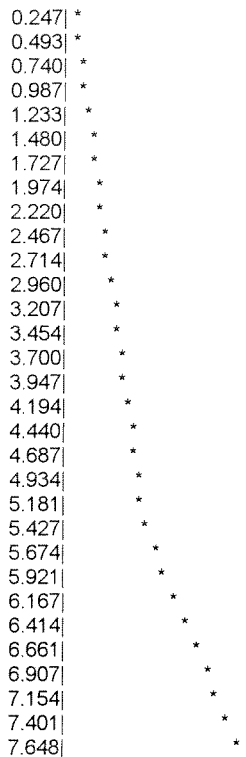
PRESET END POINT ANALYSIS

=====

SAMPLE = 254.51 ppm (v)
 END POINT VOL = 7.628 mL (144.4 mV)
 (pH 4.500)

Excess Titre= 0.019 mL
 Relative Scale

vol =====
 0.000] * |



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 46.6 mV pH 6.179
 NO. 2 WASH OF 3
 10 SECOND WASH
 24.4 mV pH 6.560
 NO. 3 WASH OF 3
 10 SECOND WASH
 19.5 mV pH 6.645
 BEAKER[40] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 35
 TEST: 4934-2
 SITE: _____
 ANALYST: _____
 19:00 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -30.2 mV
 pH= 7.498
 1 v= 0.052 mL E= -43.6 mV

pH= 7.728
 *** deviating from endpoint
 2 v= 0.103 mL E= -47.2 mV
 pH= 7.790
 *** deviating from endpoint
 3 v= 0.620 mL E= -29.9 mV
 pH= 7.493
 4 v= 1.240 mL E= -12.8 mV
 pH= 7.199
 5 v= 1.705 mL E= -1.4 mV
 pH= 7.004
 6 v= 2.170 mL E= 8.1 mV
 pH= 6.840
 7 v= 2.739 mL E= 17.7 mV
 pH= 6.676
 8 v= 3.462 mL E= 30.6 mV
 pH= 6.454
 9 v= 3.979 mL E= 42.9 mV
 pH= 6.243
 10 v= 4.289 mL E= 51.4 mV
 pH= 6.097
 11 v= 4.599 mL E= 62.3 mV
 pH= 5.909
 12 v= 4.806 mL E= 73.3 mV
 pH= 5.721
 13 v= 4.909 mL E= 80.9 mV
 pH= 5.590
 14 v= 5.012 mL E= 91.4 mV
 pH= 5.410
 15 v= 5.064 mL E= 97.8 mV
 pH= 5.300
 16 v= 5.116 mL E= 108.9 mV
 pH= 5.109
 17 v= 5.167 mL E= 127.3 mV
 pH= 4.793
 18 v= 5.219 mL E= 145.8 mV
 pH= 4.475

6.3 min

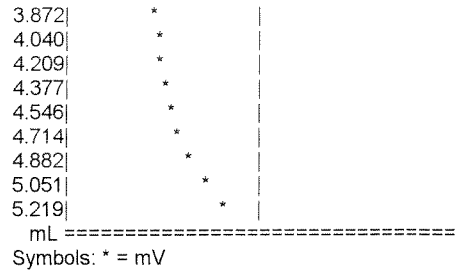
=====

PRESET END POINT ANALYSIS

=====

SAMPLE = 173.99 ppm (v)
 END POINT VOL= 5.215 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.004 mL
 Relative Scale

vol	Relative Scale
0.000	*
0.168	*
0.337	*
0.505	*
0.673	*
0.842	*
1.010	*
1.178	*
1.347	*
1.515	*
1.684	*
1.852	*
2.020	*
2.189	*
2.357	*
2.525	*
2.694	*
2.862	*
3.030	*
3.199	*
3.367	*
3.535	*
3.704	*



NO. 1 WASH OF 3
 10 SECOND WASH
 47.6 mV pH 6.162
 NO. 2 WASH OF 3
 10 SECOND WASH
 20.3 mV pH 6.631
 NO. 3 WASH OF 3
 10 SECOND WASH
 18.8 mV pH 6.657
 BEAKER[41] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 36
 TEST: 49311-3
 SITE: _____
 ANALYST: _____
 19:08 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT 02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -76.9 mV
 pH= 8.300
 1 v= 0.413 mL E= -66.0 mV
 pH= 8.113
 2 v= 0.775 mL E= -46.8 mV
 pH= 7.783
 3 v= 0.878 mL E= -36.3 mV
 pH= 7.603
 4 v= 0.930 mL E= -33.2 mV
 pH= 7.550
 5 v= 1.188 mL E= -27.1 mV
 pH= 7.445
 6 v= 2.274 mL E= -8.9 mV
 pH= 7.132
 7 v= 3.100 mL E= 7.6 mV
 pH= 6.849
 8 v= 3.514 mL E= 15.9 mV
 pH= 6.706
 9 v= 4.030 mL E= 23.5 mV
 pH= 6.576
 10 v= 4.961 mL E= 38.6 mV
 pH= 6.317
 11 v= 5.529 mL E= 50.8 mV
 pH= 6.107
 12 v= 5.891 mL E= 64.5 mV

pH= 5.872
 13 v= 6.046 mL E= 71.0 mV
 pH= 5.760
 14 v= 6.252 mL E= 81.7 mV
 pH= 5.576
 15 v= 6.407 mL E= 93.9 mV
 pH= 5.367
 16 v= 6.511 mL E= 106.2 mV
 pH= 5.155
 17 v= 6.562 mL E= 114.6 mV
 pH= 5.011
 18 v= 6.614 mL E= 125.4 mV
 pH= 4.826
 19 v= 6.666 mL E= 138.3 mV
 pH= 4.604
 20 v= 6.717 mL E= 150.7 mV
 pH= 4.391

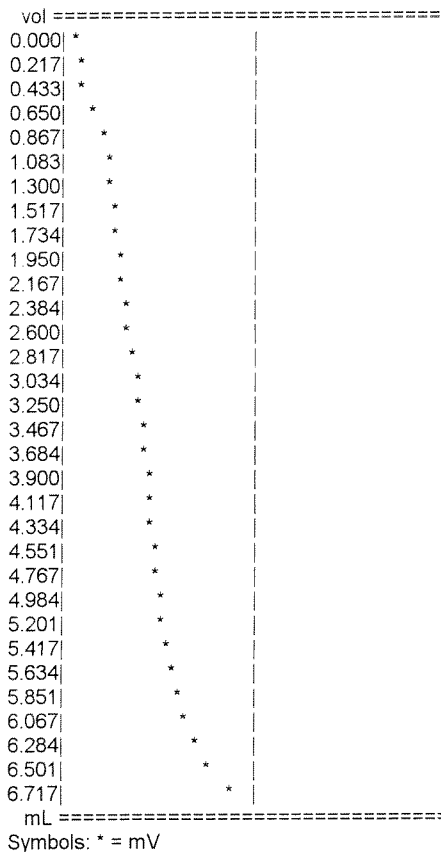
7.4 min

=====

PRESET END POINT ANALYSIS

=====

SAMPLE = .027581 ppm (v)
 END POINT VOL= 0.000 mL (-76.9 mV)
 (pH 8.300)
 Excess Titre= 6.717 mL
 SAMPLE = 223.23 ppm (v)
 END POINT VOL= 6.691 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.026 mL
 Relative Scale



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 45.0 mV pH 6.207
 NO. 2 WASH OF 3

10 SECOND WASH
 41.5 mV pH 6.267
 NO. 3 WASH OF 3
 10 SECOND WASH
 28.0 mV pH 6.499
 BEAKER[42] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 37
 TEST: 493114
 SITE: _____
 ANALYST: _____
 19:18 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 25.5 mV
 pH= 6.542
 1 v= 0.052 mL E= 17.4 mV
 pH= 6.681
 *** deviating from endpoint
 2 v= 0.103 mL E= 14.7 mV
 pH= 6.727
 *** deviating from endpoint
 3 v= 0.672 mL E= 140.2 mV
 pH= 4.571
 4 v= 0.723 mL E= 159.0 mV
 pH= 4.249

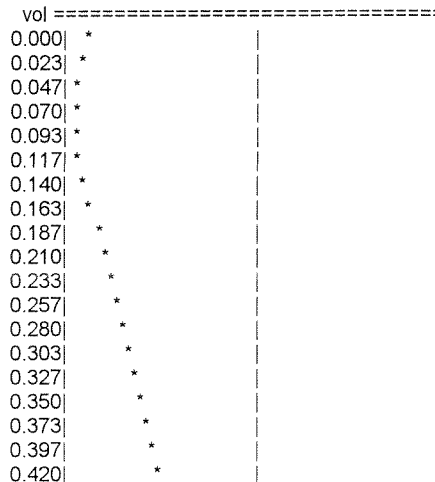
1.5 min

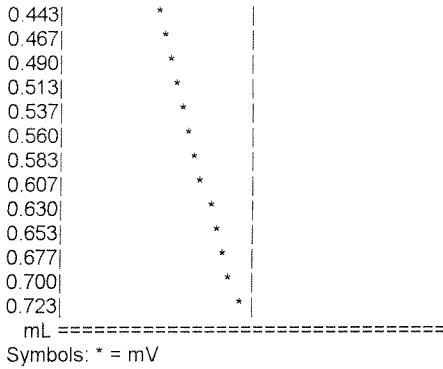
=====

PRESET END POINT ANALYSIS

=====

SAMPLE = 22.793 ppm (v)
 END POINT VOL= 0.683 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.040 mL
 Relative Scale





NO. 1 WASH OF 3
 10 SECOND WASH
 57.2 mV pH 5.997
 NO. 2 WASH OF 3
 10 SECOND WASH
 30.9 mV pH 6.449
 NO. 3 WASH OF 3
 10 SECOND WASH
 41.6 mV pH 6.265
 BEAKER[43] ANALYSIS

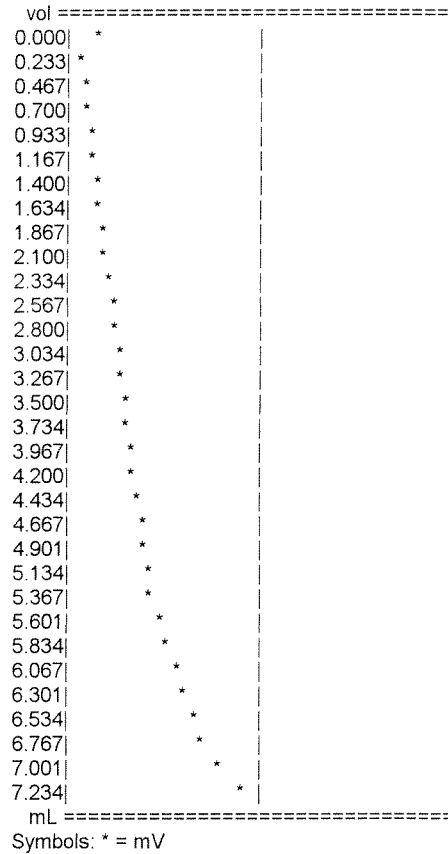
METHOD 1 SUMMARY

SAMPLE ID NUMBER: 38
 TEST: 4934-5
 SITE: _____
 ANALYST: _____
 19:22 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 E₀ -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT 0.0200 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -10.6 mV
 pH= 7.162
 1 v= 0.052 mL E= -25.7 mV
 pH= 7.421
 *** deviating from endpoint
 2 v= 0.103 mL E= -32.2 mV
 pH= 7.533
 *** deviating from endpoint
 3 v= 0.310 mL E= -29.8 mV
 pH= 7.491
 4 v= 5.322 mL E= 45.0 mV
 pH= 6.207
 5 v= 5.839 mL E= 64.6 mV
 pH= 5.870
 6 v= 5.942 mL E= 69.5 mV
 pH= 5.786
 7 v= 6.097 mL E= 73.3 mV
 pH= 5.721
 8 v= 6.872 mL E= 106.1 mV
 pH= 5.157
 9 v= 7.027 mL E= 121.3 mV

pH= 4.896
 10 v= 7.079 mL E= 127.7 mV
 pH= 4.786
 11 v= 7.131 mL E= 135.0 mV
 pH= 4.661
 12 v= 7.182 mL E= 143.1 mV
 pH= 4.522
 13 v= 7.234 mL E= 151.6 mV
 pH= 4.376
 4.8 min

PRESET END POINT ANALYSIS

SAMPLE = 239.89 ppm (v)
 END POINT VOL= 7.190 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.044 mL
 Relative Scale



NO. 1 WASH OF 3
 10 SECOND WASH
 47.6 mV pH 6.162
 NO. 2 WASH OF 3
 10 SECOND WASH
 25.2 mV pH 6.547
 NO. 3 WASH OF 3
 10 SECOND WASH
 15.0 mV pH 6.722
 BEAKER[44] ANALYSIS

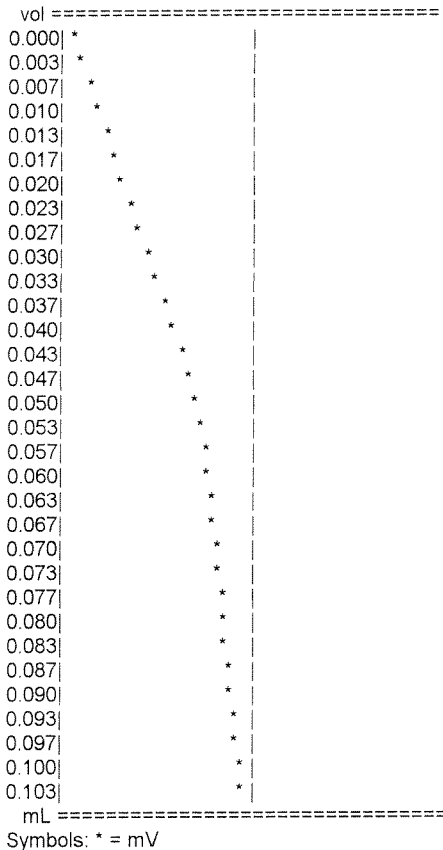
METHOD 1 SUMMARY

SAMPLE ID NUMBER: 39
 TEST: M.B.
 SITE: _____

ANALYST: _____
 19:30 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 58.5 mV
 pH= 5.975
 1 v= 0.052 mL E= 130.2 mV
 pH= 4.743
 2 v= 0.103 mL E= 153.0 mV
 pH= 4.352

0.9 min
 =====
 PRESET END POINT ANALYSIS
 =====

SAMPLE = 2.7948 ppm (v)
 END POINT VOL = 0.084 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.020 mL
 Relative Scale



NO. 1 WASH OF 3
 10 SECOND WASH

55.8 mV pH 6.021
 NO. 2 WASH OF 3
 10 SECOND WASH
 45.8 mV pH 6.193
 NO. 3 WASH OF 3
 10 SECOND WASH
 30.8 mV pH 6.451
 BEAKER[45] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 40
 TEST: LES
 SITE: _____
 ANALYST: _____
 19:33 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500

0 v= 0.000 mL E= -113.7 mV
 pH= 8.932
 1 v= 0.568 mL E= -99.5 mV
 pH= 8.689
 2 v= 0.982 mL E= -84.5 mV
 pH= 8.431
 3 v= 1.033 mL E= -81.4 mV
 pH= 8.378
 4 v= 1.085 mL E= -78.6 mV
 pH= 8.330
 5 v= 1.137 mL E= -75.7 mV
 pH= 8.280
 6 v= 1.292 mL E= -66.2 mV
 pH= 8.117
 7 v= 1.447 mL E= -52.3 mV
 pH= 7.878
 8 v= 1.498 mL E= -42.7 mV
 pH= 7.713
 9 v= 1.550 mL E= -32.2 mV
 pH= 7.533
 10 v= 1.602 mL E= -19.3 mV
 pH= 7.311
 11 v= 1.654 mL E= -6.2 mV
 pH= 7.086
 12 v= 1.705 mL E= 7.2 mV
 pH= 6.856
 13 v= 1.757 mL E= 16.8 mV
 pH= 6.691
 14 v= 1.809 mL E= 26.4 mV
 pH= 6.526
 15 v= 1.860 mL E= 36.8 mV
 pH= 6.347
 16 v= 1.912 mL E= 54.0 mV
 pH= 6.052
 17 v= 1.964 mL E= 80.9 mV
 pH= 5.590
 18 v= 2.015 mL E= 120.9 mV
 pH= 4.903
 19 v= 2.067 mL E= 120.9 mV

pH= 4.903
 *** deviating from endpoint
 20 v= 3.049 mL E= - 1.0 mV
 pH= 6.962
 *** deviating from endpoint
 21 v= 4.030 mL E= 243.1 mV
 pH= 2.804

7.5 min

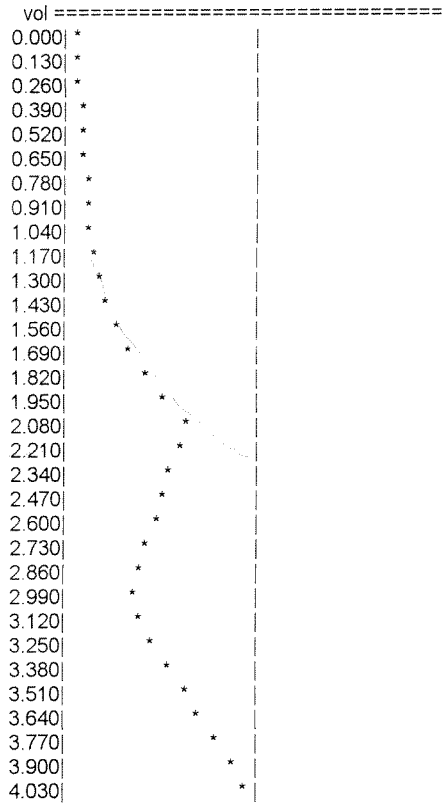
=====

PRESET END POINT ANALYSIS

=====

SAMPLE = 37.227 ppm (v)
 END POINT VOL= 1.116 mL (-76.9 mV)
 (pH 8.300)
 Excess Titre= 2.915 mL
 SAMPLE = 121.11 ppm (v)
 END POINT VOL= 3.630 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.400 mL

Relative Scale



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 78.1 mV pH 5.638
 NO. 2 WASH OF 3
 10 SECOND WASH
 55.3 mV pH 6.030
 NO. 3 WASH OF 3
 10 SECOND WASH
 67.1 mV pH 5.827



Work Request # ^{Original} (4426) 4791 4870 4880 4890
 Tier: 1 1 1 1 1
 Date Analyzed: 5/18/10
 Analyst: nb
 Analysis: TDS

201267

**DATA QUALITY REPORT
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

K4880, K4791, samples have conductivity < TDS.
 Samples are high in turbidity / TSS
 and require multiple filters.

Final Approved by: [Signature] Date: 5/21/10

DQREPORT

COLUMBIA ANALYTICAL SERVICES, INC.

201267

Work Order #:

Method: EPA SM 2540 C

Analysis:

Total Dissolved Solids

Sample #	Crucible #	Conductivity	Sample Volume (ml)	Wt, Cru. + Dry sample (1) (g)	Wt, Cru. + Dry sample (2) (g)	Wt, Cru. + Dry sample (3) (g)	Wt. Crucible (g)	Wt. Dry Sample (g)	TDS (mg/L)	TDS (mg/L) reported
MB	yo		200	121.6416	121.6413		121.6417	-0.0001	-1	<5
MB2	Elizabeth		200	119.1916	19.1916		119.1920	-0.0004	-2	<5
LCS	2 S		50	77.3563	77.3566		77.3198	0.0365	730	730
K1004926-004	syd	466	100	69.3185	69.3188		69.2928	0.0257	257	257
K1004926-005	47 S	455	100	73.0298	73.0299		73.0025	0.0273	273	273
K1004926-006	s17	512	100	82.3720	82.3716		82.3431	0.0289	289	289
k1004791-001	LL	32	200	80.9099	80.9098		80.9021	0.0078	39	39
k1004791-002	46 S	43	200	77.6206	77.6204		77.6088	0.0118	59	59
k1004791-003	7 S	259	100	70.1854	70.1854		70.1678	0.0176	176	176
k1004791-004	13th	38	200	76.9666	76.9661		76.9575	0.0091	46	46
k1004870-001	B17	332	100	86.4449	86.4449		86.4239	0.0210	210	210
k1004870-002	NC3	310	100	72.9041	72.9040		72.8811	0.0230	230	230
k1004870-003	13S	804	100	75.7239	75.7235		75.6774	0.0465	465	465
k1004870-004	21 S	236	100	75.4732	75.4728		75.4534	0.0198	198	198
k1004870-005	KI	1380	75	76.3796	76.3792		76.3227	0.0569	759	759
k1004880-001	3 C	145	100	71.1960	71.1963		71.1872	0.0088	88	88
k1004880-002	delta 7	95	100	69.0764	69.0766		69.0611	0.0153	153	153
k1004880-003	duck	96	100	68.5945	68.5940		68.5919	0.0026	26	26
k1004880-004	NC2	99	100	86.0108	86.0105		86.0058	0.0050	50	50
k1004880-005	22 S	65	200	72.3723	72.3720		72.3558	0.0165	83	83
k1004880-006	VII	191	100	65.0012	65.0015		64.9876	0.0136	136	136
k1004880-007	ABC	57	200	75.8027	75.8026		75.7926	0.0101	51	51
k1004890-001	G4	333	100	88.3522	88.3518		88.3315	0.0207	207	207
4926-4d	Mini	466	100	76.2643	76.2640		76.2372	0.0271	271	271
4870-1d	C6	332	100	83.7569	83.7571		83.7350	0.0219	219	219

Calculation: Dissolved Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml)

Balance#31

APG #:4033

Lot# 04119

ID#TDS/1-25-H

T.V. =750

% Rec =97

Wt (1) Start	1630		Wt (2) Start	1730		Wt (3) Start	1000	4926-4/4d	X=264	RPD=5
Stop	1730	5.19	Stop	0820	5.20	Stop	1130	4870-1/1d	X=215	RPD=4
Wt (1) Start	105		Wt (2) Start	180		Wt (3) Start	180			
Temp Stop	150		Temp Stop	180		Temp Stop	180		date	time

Analyzed By: *fr*

Date Analyzed: 5/18/2010 14:00

Reviewed By:

Date Reviewed:

4791-1,2,3,4; 4880 samples are especially high in turbidity/TSS and take multiple filters and long time to filter.

Metals

Columbia Analytical Services

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

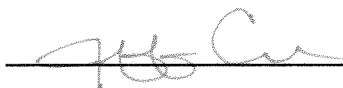
Client: Exponent
Project Name: Heglar - Kronquist
Project No.: 0907194.000.0601

Service Request: K1004870

<u>Sample Name:</u>	<u>Lab Code:</u>
BH-6	K1004870-001 DISS
BH-7	K1004870-002 DISS
BH-15	K1004870-003 DISS
BH-15D	K1004870-003D DISS
BH-15S	K1004870-003S DISS
4aad	K1004870-004
4aadD	K1004870-004D
4aadS	K1004870-004S
SW-8	K1004870-005
Method Blank	K1004870-MB
Batch QC1D	K1004934-005D
Batch QC1S	K1004934-005S
Batch QC2D	K1004936-006D
Batch QC2S	K1004936-006S
Batch QC3D	K1005015-001D
Batch QC3S	K1005015-001S
Batch QC4D	K1005117-001D
Batch QC4S	K1005117-001S

Comments:

Approved By: _____



Date: _____



Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Date Collected: 05/12/10
 Project Name: Heglar - Kronquist Date Received: 05/14/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: BH-6 Lab Code: K1004870-001 DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/27/10	06/04/10	30	U	
Antimony	200.8	0.05	0.02	1.0	05/27/10	06/04/10	0.26		
Arsenic	200.8	0.50	0.07	1.0	05/27/10	06/04/10	1.07		
Barium	200.7	5.0	0.6	1.0	05/27/10	06/04/10	151		
Beryllium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.013	J	
Cadmium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.064		
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	29300		
Chromium	200.8	0.20	0.04	1.0	05/27/10	06/04/10	0.04	U	
Cobalt	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.430		
Copper	200.8	0.10	0.02	1.0	05/27/10	06/04/10	0.33		
Iron	200.7	20.0	0.8	1.0	05/27/10	06/04/10	6570		
Lead	200.8	0.020	0.005	1.0	05/27/10	06/04/10	0.055		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	12700		
Manganese	200.7	5.0	0.2	1.0	05/27/10	06/04/10	740		
Mercury	245.1	0.20	0.02	1.0	05/28/10	06/02/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/27/10	06/04/10	2.57		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	6410		
Selenium	200.8	1.0	0.3	1.0	05/27/10	06/04/10	0.3	U	
Silver	200.8	0.020	0.004	1.0	05/27/10	06/04/10	0.019	J	
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	17100		
Thallium	200.8	0.020	0.002	1.0	05/27/10	06/04/10	0.053		
Vanadium	200.8	0.20	0.03	1.0	05/27/10	06/04/10	0.07	J	
Zinc	200.8	0.50	0.20	1.0	05/27/10	06/04/10	5.05		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Date Collected: 05/13/10
 Project Name: Heglar - Kronquist Date Received: 05/14/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: BH-7 Lab Code: K1004870-002 DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/27/10	06/04/10	529		
Antimony	200.8	0.05	0.02	1.0	05/27/10	06/04/10	0.11		
Arsenic	200.8	0.50	0.07	1.0	05/27/10	06/04/10	0.51		
Barium	200.7	5.0	0.6	1.0	05/27/10	06/04/10	55.3		
Beryllium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.105		
Cadmium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.092		
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	29600		
Chromium	200.8	0.20	0.04	1.0	05/27/10	06/04/10	1.28		
Cobalt	200.8	0.020	0.003	1.0	05/27/10	06/04/10	3.350		
Copper	200.8	0.10	0.02	1.0	05/27/10	06/04/10	0.98		
Iron	200.7	20.0	0.8	1.0	05/27/10	06/04/10	1730		
Lead	200.8	0.020	0.005	1.0	05/27/10	06/04/10	1.110		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	9440		
Manganese	200.7	5.0	0.2	1.0	05/27/10	06/04/10	150		
Mercury	245.1	0.20	0.02	1.0	05/28/10	06/02/10	0.02	J	
Nickel	200.8	0.20	0.03	1.0	05/27/10	06/04/10	9.66		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	3880		
Selenium	200.8	1.0	0.3	1.0	05/27/10	06/04/10	1.6		
Silver	200.8	0.020	0.004	1.0	05/27/10	06/04/10	0.004	U	
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	17000		
Thallium	200.8	0.020	0.002	1.0	05/27/10	06/04/10	0.063		
Vanadium	200.8	0.20	0.03	1.0	05/27/10	06/04/10	1.43		
Zinc	200.8	0.50	0.20	1.0	05/27/10	06/04/10	10.7		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Date Collected: 05/13/10
 Project Name: Heglar - Kronquist Date Received: 05/14/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: BH-15 Lab Code: K1004870-003 DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/27/10	06/04/10	30	U	
Antimony	200.8	0.05	0.02	1.0	05/27/10	06/04/10	6.80		
Arsenic	200.8	0.50	0.07	1.0	05/27/10	06/04/10	35.4		
Barium	200.7	5.0	0.6	1.0	05/27/10	06/04/10	179		
Beryllium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.010	J	
Cadmium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.109		
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	73800		
Chromium	200.8	0.20	0.04	1.0	05/27/10	06/04/10	0.07	J	
Cobalt	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.351		
Copper	200.8	0.10	0.02	1.0	05/27/10	06/04/10	0.44		
Iron	200.7	20.0	0.8	1.0	05/27/10	06/04/10	29.9		
Lead	200.8	0.020	0.005	1.0	05/27/10	06/04/10	0.060		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	29100		
Manganese	200.7	5.0	0.2	1.0	05/27/10	06/04/10	28.7		
Mercury	245.1	0.20	0.02	1.0	05/28/10	06/02/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/27/10	06/04/10	1.66		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	6040		
Selenium	200.8	1.0	0.3	1.0	05/27/10	06/04/10	0.6	J	
Silver	200.8	0.020	0.004	1.0	05/27/10	06/04/10	0.009	J	
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	49600		
Thallium	200.8	0.020	0.002	1.0	05/27/10	06/04/10	0.043		
Vanadium	200.8	0.20	0.03	1.0	05/27/10	06/04/10	1.46		
Zinc	200.8	0.50	0.20	1.0	05/27/10	06/04/10	1.12		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Date Collected: 05/13/10
 Project Name: Heglar - Kronquist Date Received: 05/14/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: 4aad Lab Code: K1004870-004

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/27/10	06/04/10	30	U	
Antimony	200.8	0.05	0.02	1.0	05/27/10	06/04/10	0.05	J	
Arsenic	200.8	0.50	0.07	1.0	05/27/10	06/04/10	0.79		
Barium	200.7	5.0	0.6	1.0	05/27/10	06/04/10	55.9		
Beryllium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.005	J	
Cadmium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.033		
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	22100		
Chromium	200.8	0.20	0.04	1.0	05/27/10	06/04/10	0.08	J	
Cobalt	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.365		
Copper	200.8	0.10	0.02	1.0	05/27/10	06/04/10	0.24		
Iron	200.7	20.0	0.8	1.0	05/27/10	06/04/10	102		
Lead	200.8	0.020	0.005	1.0	05/27/10	06/04/10	0.095		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	9210		
Manganese	200.7	5.0	0.2	1.0	05/27/10	06/04/10	21.4		
Mercury	245.1	0.20	0.02	1.0	05/28/10	06/02/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/27/10	06/04/10	0.52		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	3320		
Selenium	200.8	1.0	0.3	1.0	05/27/10	06/04/10	0.4	J	
Silver	200.8	0.020	0.004	1.0	05/27/10	06/04/10	0.032		
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	11300		
Thallium	200.8	0.020	0.002	1.0	05/27/10	06/04/10	0.044		
Vanadium	200.8	0.20	0.03	1.0	05/27/10	06/04/10	1.84		
Zinc	200.8	0.50	0.20	1.0	05/27/10	06/04/10	2.38		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Date Collected: 05/13/10
 Project Name: Heglar - Kronquist Date Received: 05/14/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: SW-8 Lab Code: K1004870-005

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	108000		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	36600		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	9060		
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	84900		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Date Collected:
 Project Name: Heglar - Kronquist Date Received:
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: Method Blank Lab Code: K1004870-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/27/10	06/04/10	30	U	
Antimony	200.8	0.05	0.02	1.0	05/27/10	06/04/10	0.02	U	
Arsenic	200.8	0.50	0.07	1.0	05/27/10	06/04/10	0.07	U	
Barium	200.7	5.0	0.6	1.0	05/27/10	06/04/10	0.6	U	
Beryllium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.003	U	
Cadmium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.003	U	
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	6.0	U	
Chromium	200.8	0.20	0.04	1.0	05/27/10	06/04/10	0.10	J	
Cobalt	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.003	U	
Copper	200.8	0.10	0.02	1.0	05/27/10	06/04/10	0.02	U	
Iron	200.7	20.0	0.8	1.0	05/27/10	06/04/10	1.5	J	
Lead	200.8	0.020	0.005	1.0	05/27/10	06/04/10	0.005	U	
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	0.5	J	
Manganese	200.7	5.0	0.2	1.0	05/27/10	06/04/10	0.2	U	
Mercury	245.1	0.20	0.02	1.0	05/28/10	06/02/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/27/10	06/04/10	0.03	U	
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	40	U	
Selenium	200.8	1.0	0.3	1.0	05/27/10	06/04/10	0.3	U	
Silver	200.8	0.020	0.004	1.0	05/27/10	06/04/10	0.004	U	
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	20	U	
Thallium	200.8	0.020	0.002	1.0	05/27/10	06/04/10	0.002	U	
Vanadium	200.8	0.20	0.03	1.0	05/27/10	06/04/10	0.03	J	
Zinc	200.8	0.50	0.20	1.0	05/27/10	06/04/10	0.20	U	

% Solids: 0.0

Comments:

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	5000	5048	101	5000	5017	100	5108	102	200.7
Antimony	25.0	23.7	95	25.0	24.5	98	24.7	99	200.8
Arsenic	25.0	25.0	100	25.0	25.0	100	24.9	100	200.8
Barium	5000	5183	104	2500	2509	100	2509	100	200.7
Beryllium	2.5	2.6	104	25.0	25.5	102	24.0	96	200.8
Cadmium	12.5	12.3	98	25.0	25.1	100	24.8	99	200.8
Calcium	5000	5075	102	2500	2477	99	2476	99	200.7
Calcium	12500	12693	102	25000	25425	102	25578	102	200.7
Chromium	10.0	9.9	99	25.0	24.7	99	24.5	98	200.8
Cobalt	25.0	24.9	100	25.0	25.8	103	24.3	97	200.8
Copper	12.5	12.5	100	25.0	25.5	102	24.2	97	200.8
Iron	2500	2468	99	500	485	97	505	101	200.7
Iron	10000	10123	101	25000	25207	101	25270	101	200.7
Lead	25.0	25.1	100	25.0	24.2	97	25.1	100	200.8
Magnesium	5000	4987	100	2000	1967	98	1982	99	200.7
Magnesium	12500	12461	100	25000	25093	100	25135	101	200.7
Manganese	1250	1208	97	1000	969	97	964	96	200.7
Manganese	10000	9996	100	5000	4988	100	4980	100	200.7
Mercury	5.00	4.89	98	5.00	4.92	98	4.94	99	245.1
Nickel	25.0	24.9	100	25.0	25.1	100	24.2	97	200.8
Potassium	12500	12384	99	10000	9960	100	9900	99	200.7
Selenium	25.0	24.7	99	25.0	24.9	100	24.7	99	200.8
Silver	12.5	12.3	98	25.0	24.9	100	24.1	96	200.8
Sodium	12500	12021	96	10000	9748	97	9693	97	200.7
Thallium	25.0	24.8	99	25.0	24.2	97	24.8	99	200.8
Vanadium	25.0	25.7	103	25.0	25.1	100	24.7	99	200.8
Zinc	25.0	26.4	106	25.0	24.7	99	24.8	99	200.8

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				5000	5064	101			200.7
Antimony				25.0	24.4	98			200.8
Arsenic				25.0	25.0	100			200.8
Barium				2500	2496	100			200.7
Beryllium				25.0	25.4	102			200.8
Cadmium				25.0	24.8	99			200.8
Calcium				2500	2489	100			200.7
Calcium				25000	25882	104			200.7
Chromium				25.0	24.9	100			200.8
Cobalt				25.0	24.5	98			200.8
Copper				25.0	24.4	98			200.8
Iron				500	505	101			200.7
Iron				25000	25306	101			200.7
Lead				25.0	24.8	99			200.8
Magnesium				2000	1986	99			200.7
Magnesium				25000	25351	101			200.7
Manganese				1000	964	96			200.7
Manganese				5000	4958	99			200.7
Mercury				5.00	4.95	99	5.00	100	245.1
Nickel				25.0	24.0	96			200.8
Potassium				10000	9949	99			200.7
Selenium				25.0	24.8	99			200.8
Silver				25.0	24.3	97			200.8
Sodium				10000	9755	98			200.7
Thallium				25.0	24.8	99			200.8
Vanadium				25.0	25.0	100			200.8
Zinc				25.0	24.5	98			200.8

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury				5.00	5.00	100	5.05	101	245.1

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	5000	4935	99	10000	9909	99	10300	103	200.7
Antimony	25.0	25.1	100	25.0	25.1	100	24.9	100	200.8
Arsenic	25.0	24.7	99	25.0	24.6	98	25.1	100	200.8
Barium	5000	5050	101	10000	10190	102	10480	105	200.7
Beryllium	2.5	2.7	108	25.0	25.1	100	26.1	104	200.8
Cadmium	12.5	12.9	103	25.0	24.8	99	24.5	98	200.8
Calcium	12500	12390	99	10000	10040	100	10370	104	200.7
Chromium	10.0	10.2	102	25.0	25.2	101	26.6	106	200.8
Cobalt	25.0	24.7	99	25.0	24.8	99	26.1	104	200.8
Copper	12.5	12.6	101	25.0	24.7	99	25.8	103	200.8
Iron	2500	2480	99	10000	10010	100	10280	103	200.7
Lead	25.0	25.9	104	25.0	25.2	101	25.0	100	200.8
Magnesium	12500	12470	100	10000	10050	100	10310	103	200.7
Magnesium	12500	12520	100	10000	9905	99	9972	100	200.7
Manganese	1250	1229	98	250	246	98	251	100	200.7
Manganese	1250	1255	100	250	247	99	247	99	200.7
Nickel	25.0	25.3	101	25.0	24.9	100	26.0	104	200.8
Potassium	12500	12620	101	10000	10010	100	10230	102	200.7
Selenium	25.0	25.5	102	25.0	24.5	98	24.8	99	200.8
Silver	12.5	13.3	106	25.0	24.8	99	25.1	100	200.8
Sodium	12500	12510	100	10000	9888	99	10060	101	200.7
Thallium	25.0	26.4	106	25.0	25.4	102	25.4	102	200.8
Vanadium	25.0	25.3	101	25.0	24.5	98	26.1	104	200.8
Zinc	25.0	26.2	105	25.0	24.9	100	25.0	100	200.8

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				10000	10030	100			200.7
Antimony				25.0	25.4	102			200.8
Arsenic				25.0	24.9	100			200.8
Barium				10000	10210	102			200.7
Beryllium				25.0	26.1	104			200.8
Cadmium				25.0	24.7	99			200.8
Calcium				10000	9991	100			200.7
Chromium				25.0	26.6	106			200.8
Cobalt				25.0	25.2	101			200.8
Copper				25.0	25.1	100			200.8
Iron				10000	9926	99			200.7
Lead				25.0	25.4	102			200.8
Magnesium				10000	10060	101			200.7
Magnesium				10000	9735	97			200.7
Manganese				250	254	102			200.7
Manganese				250	243	97			200.7
Nickel				25.0	25.3	101			200.8
Potassium				10000	9873	99			200.7
Selenium				25.0	24.4	98			200.8
Silver				25.0	25.4	102			200.8
Sodium				10000	9802	98			200.7
Thallium				25.0	25.5	102			200.8
Vanadium				25.0	25.6	102			200.8
Zinc				25.0	24.9	100			200.8

Metals

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial			Final	
				True	Found	%R	Found	%R
Aluminum				50.00	49.75	100		
Antimony				0.05	0.06	120		
Arsenic				0.50	0.53	106		
Barium				5.00	5.06	101		
Beryllium				0.020	0.016	80		
Cadmium				0.020	0.020	100		
Calcium				50.00	46.24	92		
Chromium				0.20	0.21	105		
Cobalt				0.020	0.020	100		
Copper				0.10	0.11	110		
Iron				20.00	21.99	110		
Lead				0.020	0.022	110		
Magnesium				20.00	17.81	89		
Manganese				5.00	4.90	98		
Nickel				0.20	0.19	95		
Potassium				400.00	376.77	94		
Selenium				1.0	1.1	110		
Silver				0.020	0.021	105		
Sodium				200.00	205.85	103		
Thallium				0.020	0.011	55		
Vanadium				0.20	0.20	100		
Zinc				0.50	0.47	94		

Metals

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				50.0	42.9	86		
Antimony				0.05	0.05	100		
Arsenic				0.50	0.59	118		
Barium				5.0	5.7	114		
Beryllium				0.020	0.018	90		
Cadmium				0.020	0.018	90		
Calcium				50.0	53.0	106		
Chromium				0.20	0.20	100		
Cobalt				0.020	0.020	100		
Copper				0.10	0.13	130		
Iron				20.0	13.4	67		
Lead				0.020	0.023	115		
Magnesium				20.0	13.1	66		
Manganese				5.0	5.0	100		
Nickel				0.20	0.24	120		
Potassium				400.0	394.6	99		
Selenium				1.0	1.1	110		
Silver				0.020	0.016	80		
Sodium				200.0	169.0	84		
Thallium				0.020	0.022	110		
Vanadium				0.20	0.21	105		
Zinc				0.50	0.56	112		

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank						Method
	C		1	C	2	C	3	C	
Aluminum	30	U	30	U	30	U	30	U	200.7
Antimony	0.020	U	0.020	U	0.020	U	0.020	U	200.8
Arsenic	0.07	U	0.07	U	0.07	U	0.07	U	200.8
Barium	0.6	U	0.6	U	0.9	J	0.6	U	200.7
Beryllium	0.003	U	0.003	U	0.003	J	0.005	J	200.8
Cadmium	0.003	U	0.003	U	0.003	J	0.004	J	200.8
Calcium	6.0	U	7.6	J	-7.3	J	6.0	U	200.7
Chromium	0.04	U	0.04	U	0.04	U	0.04	U	200.8
Cobalt	0.003	U	0.003	U	0.003	J	0.004	J	200.8
Copper	0.02	U	0.02	U	0.02	U	0.02	U	200.8
Iron	5.4	J	1.1	J	3.3	J	3.8	J	200.7
Lead	0.005	U	0.005	U	0.005	U	0.005	U	200.8
Magnesium	0.3	U	0.3	U	0.3	J	2.7	J	200.7
Manganese	1.2	J	0.7	J	0.8	J	0.8	J	200.7
Mercury	0.02	U	-0.02	J	-0.02	J	0.02	U	245.1
Nickel	0.03	U	0.03	U	-0.05	J	-0.04	J	200.8
Potassium	40	U	40	U	40	U	40	U	200.7
Selenium	0.3	U	0.3	U	0.3	U	0.3	U	200.8
Silver	0.004	U	0.004	U	0.006	J	0.006	J	200.8
Sodium	20	U	20	U	20	U	20	U	200.7
Thallium	-0.005	J	-0.007	J	0.002	U	0.003	J	200.8
Vanadium	0.03	U	0.03	U	0.03	U	0.03	U	200.8
Zinc	0.2	U	0.2	U	0.2	U	0.2	U	200.8

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank	Continuing Calibration Blank						Method	
		C	1	C	2	C	3		C
Mercury			0.02	U	0.02	U	0.02	U	245.1

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglal - Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank						Method
		C	1	C	2	C	3	C	
Aluminum	-5.1	J	-5.1	J	-5.8	J	-4.5	J	200.7
Antimony	0.020	U	0.020	U	0.020	U	0.020	U	200.8
Arsenic	0.07	U	0.07	U	0.07	U	0.07	U	200.8
Barium	0.4	U	0.4	U	0.4	U	0.4	J	200.7
Beryllium	0.003	U	0.003	U	0.003	U	0.003	U	200.8
Cadmium	0.003	U	0.003	U	0.003	U	0.003	U	200.8
Calcium	6.0	U	6.0	U	6.0	U	6.0	U	200.7
Chromium	0.04	U	-0.05	J	0.05	J	0.04	U	200.8
Cobalt	0.003	U	0.003	U	0.003	U	-0.005	J	200.8
Copper	0.02	U	0.02	U	0.03	J	0.02	U	200.8
Iron	-6.1	J	-4.3	J	3.0	U	-3.0	J	200.7
Lead	0.005	U	0.005	U	0.005	U	0.005	U	200.8
Magnesium	-4.5	J	-6.6	J	-2.5	J	-5.0	J	200.7
Manganese	0.6	J	0.2	U	0.2	U	0.2	J	200.7
Nickel	0.03	U	0.03	U	0.03	U	0.03	U	200.8
Potassium	50	U	50	U	-73	J	50	U	200.7
Selenium	0.3	U	0.3	U	0.3	U	0.3	U	200.8
Silver	0.006	J	0.004	U	0.004	U	0.004	U	200.8
Sodium	20.0	U	20.0	U	-28.9	J	-26.0	J	200.7
Thallium	0.002	U	0.002	U	0.003	J	-0.002	J	200.8
Vanadium	0.03	U	0.03	U	0.03	U	0.03	U	200.8
Zinc	0.2	U	0.2	U	0.2	U	0.2	U	200.8

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-02

ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	509194	506867.7	101.4			
Barium		500	0	475.1	95.0			
Calcium	500000	500000	494577	488159.1	97.6			
Iron	200000	200000	202253	199299.5	99.6			
Magnesium	500000	500000	526613	518210.0	103.6			
Manganese		500	14	475.0	95.0			
Potassium			-36	-61.2				
Sodium			107	47.0				

80-120% control criteria is not applicable to interfering elements (Al,Ca,Fe,Mg).

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	437200	444500	89			
Barium		500	1	520	104			
Calcium	500000	500000	468300	473400	95			
Iron	200000	200000	180800	180800	90			
Magnesium	500000	500000	514000	521700	104			
Manganese		500	3	513	103			
Potassium			-21	-117				
Sodium			21	-2				

80-120% control criteria is not applicable to interfering elements (Al,Ca,Fe,Mg).

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: BH-15S

Lab Code: K1004870-003S DISS

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Mercury	70 - 130	1.14	0.02 U	1.00	114.0		245.1

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: 4aadS

Lab Code: K1004870-004S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Aluminum	70 - 130	1980	30 U	2000.00	99.0		200.7
Barium	70 - 130	2130	55.9	2000.00	103.7		200.7
Iron	70 - 130	1090	102	1000.00	98.8		200.7
Manganese	70 - 130	490	21.4	500.00	93.7		200.7

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QC1S

Lab Code: K1004934-005S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Antimony	70 - 130	20.2	0.10	20.00	100.5		200.8
Arsenic	70 - 130	23.3	2.53	20.00	103.8		200.8
Beryllium	70 - 130	18.8	0.003 J	20.00	94.0		200.8
Cadmium	70 - 130	20.1	0.024	20.00	100.4		200.8
Chromium	70 - 130	18.3	0.76	20.00	87.7		200.8
Cobalt	70 - 130	18.4	0.077	20.00	91.6		200.8
Copper	70 - 130	18.4	0.53	20.00	89.4		200.8
Lead	70 - 130	18.1	0.046	20.00	90.3		200.8
Nickel	70 - 130	18.4	1.17	20.00	86.2		200.8
Selenium	70 - 130	21.3	0.7 J	20.00	103.0		200.8
Silver	70 - 130	19.6	0.004 U	20.00	98.0		200.8
Thallium	70 - 130	18.8	0.050	20.00	93.8		200.8
Vanadium	70 - 130	24.5	6.46	20.00	90.2		200.8
Zinc	70 - 130	21.3	2.37	20.00	94.6		200.8

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QC2S

Lab Code: K1004936-006S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Mercury	70 - 130	1.15	0.02 U	1.00	115.0		245.1

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar - Kronquist

Basis: N/A

Matrix: WATER

% Solids: 0.0

Sample Name: Batch QC3S

Lab Code: K1005015-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum	70 - 130	2060		25.0	J	2000.00	101.8		200.7
Barium	70 - 130	2100		0.9	J	2000.00	105.0		200.7
Iron	70 - 130	1040		26.9		1000.00	101.3		200.7
Manganese	70 - 130	503		2.6	J	500.00	100.1		200.7

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar - Kronquist

Basis: N/A

Matrix: WATER

% Solids: 0.0

Sample Name: Batch QC4S

Lab Code: K1005117-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	70 - 130	20.0		0.38		20.00	98.1		200.8
Arsenic	70 - 130	23.7		3.84		20.00	99.3		200.8
Beryllium	70 - 130	19.8		0.008	J	20.00	99.0		200.8
Cadmium	70 - 130	20.0		0.144		20.00	99.3		200.8
Chromium	70 - 130	21.1		0.70		20.00	102.0		200.8
Cobalt	70 - 130	21.0		1.470		20.00	97.6		200.8
Copper	70 - 130	25.3		6.08		20.00	96.1		200.8
Lead	70 - 130	21.7		2.530		20.00	95.8		200.8
Nickel	70 - 130	23.3		3.26		20.00	100.2		200.8
Selenium	70 - 130	20.1		0.3	U	20.00	100.5		200.8
Silver	70 - 130	20.0		0.005	J	20.00	100.0		200.8
Thallium	70 - 130	19.8		0.057		20.00	98.7		200.8
Vanadium	70 - 130	21.6		2.10		20.00	97.5		200.8
Zinc		178		161		20.00	85.0		200.8

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5B -

POST SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar - Kronquist

Basis: N/A

Matrix: WATER

Sample Name: Batch QC1A

Lab Code: K1004936-006A

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Mercury	85 - 115	1.13	0.02 U	1.00	113		245.1

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004870
Project No.: 0907194.000.0601 Units: UG/L
Project Name: Heglar - Kronquist Basis: N/A
Matrix: WATER % Solids: 0.0

Sample Name: BH-15D

Lab Code: K1004870-003D DISS

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury		0.02	U	0.02	U			245.1

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: 4aadD

Lab Code: K1004870-004D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		30	U	30	U			200.7
Barium	20	55.9		55.4		0.9		200.7
Calcium	20	22100		22000		0.5		200.7
Iron		102		100		2.0		200.7
Magnesium	20	9210		9170		0.4		200.7
Manganese		21.4		21.2		0.9		200.7
Potassium	20	3320		3310		0.3		200.7
Sodium	20	11300		11300		0.0		200.7

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QC1D

Lab Code: K1004934-005D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		0.10		0.09		10.5		200.8
Arsenic		2.53		2.48		2.0		200.8
Beryllium		0.003	J	0.004	J	28.6		200.8
Cadmium		0.024		0.028		15.4		200.8
Chromium		0.76		0.74		2.7		200.8
Cobalt		0.077		0.079		2.6		200.8
Copper		0.53		0.50		5.8		200.8
Lead		0.046		0.047		2.2		200.8
Nickel	20	1.17		1.26		7.4		200.8
Selenium		0.7	J	0.6	J	15.4		200.8
Silver		0.004	U	0.004	U			200.8
Thallium		0.050		0.042		17.4		200.8
Vanadium	20	6.46		6.43		0.5		200.8
Zinc		2.37		2.40		1.3		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QC2D

Lab Code: K1004936-006D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury		0.02	U	0.02	U			245.1

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QC3D

Lab Code: K1005015-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		25.0	J	29.4	J	16.2		200.7
Barium		0.9	J	0.8	J	11.8		200.7
Calcium	20	1490		1470		1.4		200.7
Iron		26.9		25.6		5.0		200.7
Magnesium	20	568		566		0.4		200.7
Manganese		2.6	J	2.5	J	3.9		200.7
Potassium		117	J	115	J	1.7		200.7
Sodium	20	1150		1140		0.9		200.7

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004870
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QC4D

Lab Code: K1005117-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony	20	0.38		0.46		19.0		200.8
Arsenic	20	3.84		3.98		3.6		200.8
Beryllium		0.008	J	0.006	J	28.6		200.8
Cadmium	20	0.144		0.142		1.4		200.8
Chromium		0.70		0.72		2.8		200.8
Cobalt	20	1.470		1.480		0.7		200.8
Copper	20	6.08		6.12		0.7		200.8
Lead	20	2.530		2.550		0.8		200.8
Nickel	20	3.26		3.34		2.4		200.8
Selenium		0.3	U	0.3	U			200.8
Silver		0.005	J	0.004	U	200.0		200.8
Thallium		0.057		0.057		0.0		200.8
Vanadium	20	2.10		2.13		1.4		200.8
Zinc	20	161		165		2.5		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

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LABORATORY CONTROL SAMPLE

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Aqueous LCS Source: CAS MIXED

Solid LCS Source:

Analyte	Aqueous: ug/L			Solid: mg/kg				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	5000	5020	100.4					
Antimony	20	20.0	100.0					
Arsenic	20	20.2	101.0					
Barium	5000	5080	101.6					
Beryllium	20	20.6	103.0					
Cadmium	20	20.4	102.0					
Calcium	12500	12300	98.4					
Chromium	20	20.6	103.0					
Cobalt	20	20.3	101.5					
Copper	20	20.4	102.0					
Iron	2500	2470	98.8					
Lead	20	20.4	102.0					
Magnesium	12500	11500	92.0					
Manganese	1250	1230	98.4					
Mercury	5	5.36	107.2					
Nickel	20	19.7	98.5					
Potassium	12500	12500	100.0					
Selenium	20	20.0	100.0					
Silver	20	20.9	104.5					
Sodium	12500	12400	99.2					
Thallium	20	20.6	103.0					
Vanadium	20	20.4	102.0					
Zinc	20	20.3	101.5					

Metals

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ICP SERIAL DILUTIONS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglär - Kronquist

Sample Name: 4aadL

Lab Code: K1004870-004L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	M
Aluminum	30.00 U	150.00 U			P
Barium	55.90	58.10	3.9		P
Calcium	22067.70	21311.40	3.4		P
Iron	101.56	115.75	14.0	E	P
Magnesium	9208.33	9068.70	1.5		P
Manganese	21.37	21.45 J	0.4		P
Potassium	3322	3072	8		P
Sodium	11307.08	10658.95	5.7		P

Metals

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DETECTION LIMITS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP/ICP-MS ID #: K-ICP-AES-02

GFAA ID #:

AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Aluminum	237.3		50	30.0	P
Barium	233.5		5	0.6	P
Calcium	211.2		50	6.0	P
Iron	259.90		20	0.8	P
Magnesium	202.5		20	0.3	P
Manganese	257.61		5	0.2	P
Potassium	766.49		400	40.0	P
Sodium	330.23		100	20.0	P

Comments:

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP/ICP-MS ID #: K-ICP-MS-02

GFAA ID #:

AA ID #:

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Antimony	123		0.05	0.02	MS
Arsenic	75		0.5	0.07	MS
Beryllium	9		0.02	0.003	MS
Cadmium	111		0.02	0.003	MS
Chromium	52		0.2	0.04	MS
Cobalt	59		0.02	0.003	MS
Copper	65		0.1	0.02	MS
Lead	208		0.02	0.005	MS
Nickel	60		0.2	0.03	MS
Selenium	82		1.0	0.3	MS
Silver	107		0.02	0.004	MS
Thallium	205		0.02	0.002	MS
Vanadium	51		0.2	0.03	MS
Zinc	66		0.5	0.20	MS

Comments:

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #: K-CVAA-01

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Mercury	253.70		0.2	0.02	CV

Comments:

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	As
Aluminum	308.215	0.0000000	0.0000000	-0.0004100	0.0000000	0.0000000
Aluminum	308.215	0.0000000	0.0000000	-0.0004100	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	-0.0001100	-0.0000900	0.0000000
Arsenic	189.042	0.0000000	0.0000000	-0.0001100	-0.0000900	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0005800	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0005800	0.0000000	0.0000000
Cadmium	228.802	0.0000000	0.0000000	0.0000900	0.0000000	0.0000000
Cadmium	228.802	0.0000000	0.0000000	0.0000900	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	-0.0000200	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	-0.0000200	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0001200	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0001200	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	-0.0000100	0.0000000	-0.0000100	-0.0000100	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	Mn	Mo
Aluminum	308.215	-0.0052000	-0.0034300	0.0000000	0.0000000	0.0000000
Aluminum	308.215	-0.0052000	-0.0034300	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0002400	0.0080100	0.0000000	-0.0001500	-0.0184200
Antimony	206.838	0.0002400	0.0080100	0.0000000	-0.0001500	-0.0184200
Arsenic	189.042	0.0000000	0.0004000	0.0000000	0.0000000	0.0005700
Arsenic	189.042	0.0000000	0.0004000	0.0000000	0.0000000	0.0005700
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000800
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000800
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	-0.0001000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	-0.0001000	0.0000000	0.0000000	0.0000000
Cadmium	228.802	-0.0000500	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.802	-0.0000500	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0006000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0006000
Copper	324.754	0.0000000	-0.0000500	0.0000000	0.0000000	0.0002700
Copper	324.754	0.0000000	-0.0000500	0.0000000	0.0000000	0.0002700
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0003800	-0.0002100	0.0000000	0.0000000	-0.0016500
Lead	220.353	0.0003800	-0.0002100	0.0000000	0.0000000	-0.0016500
Magnesium	202.5	0.3183600	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.3183600	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	-0.0001200	0.0000000	0.0000000	-0.0000900	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:			
		Ni	P	Ti	V
Aluminum	308.215	0.0000000	0.0000000	0.0000000	0.0000000
Aluminum	308.215	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	-0.0014400
Barium	493.409	0.0000000	0.0000000	0.0000000	-0.0014400
Beryllium	313.042	0.0000000	0.0000000	-0.0000200	0.0016600
Beryllium	313.042	0.0000000	0.0000000	-0.0000200	0.0016600
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.802	-0.0000900	0.0000000	0.0000500	0.0000000
Cadmium	228.802	-0.0000900	0.0000000	0.0000500	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000200	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000200	0.0000000	0.0000000
Cobalt	228.616	0.0001300	0.0000000	0.0012500	0.0000000
Cobalt	228.616	0.0001300	0.0000000	0.0012500	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	-0.0008400
Copper	324.754	0.0000000	0.0000000	0.0000000	-0.0008400
Iron	271.4	0.0000000	0.0000000	0.0000000	-0.0315100
Iron	271.4	0.0000000	0.0000000	0.0000000	-0.0315100
Lead	220.353	0.0003800	0.0000000	-0.0006200	0.0000000
Lead	220.353	0.0003800	0.0000000	-0.0006200	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	-0.0000500	0.0000000	0.0000000	0.0000000

Comments:

Metals

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglur - Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Co
Aluminum	394.401	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Aluminum	394.401	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	-0.0000650	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	-0.0000650	0.0000000	0.0000000
Arsenic	189.042	0.0000430	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000430	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0001930	0.0000000	0.0019780
Boron	249.678	0.0000000	0.0000000	-0.0001930	0.0000000	0.0019780
Cadmium	226.502	0.0000000	0.0000000	0.0000910	0.0000000	-0.0001330
Cadmium	226.502	0.0000000	0.0000000	0.0000910	0.0000000	-0.0001330
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000070	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000070	0.0000000
Cobalt	230.786	0.0000000	0.0000000	0.0000140	0.0000000	0.0000000
Cobalt	230.786	0.0000000	0.0000000	0.0000140	0.0000000	0.0000000
Copper	327.396	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	327.396	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000370	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000370	0.0000000	0.0000000	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Mn	Mo	Ni	Si
Aluminum	394.401	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Aluminum	394.401	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0126720	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0126720	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0005400	0.0000000	0.0004600	0.0000000	0.0000000
Arsenic	189.042	0.0005400	0.0000000	0.0004600	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	-0.0000220	-0.0001550	-0.0000290	0.0000000
Beryllium	234.861	0.0000000	-0.0000220	-0.0001550	-0.0000290	0.0000000
Boron	249.678	0.0002310	0.0000000	-0.0008330	0.0000000	0.0000000
Boron	249.678	0.0002310	0.0000000	-0.0008330	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000360	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000360	0.0000000	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000920	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000920	0.0000000	0.0000000	0.0000000
Cobalt	230.786	-0.0000550	0.0000310	-0.0082200	0.0004230	0.0000000
Cobalt	230.786	-0.0000550	0.0000310	-0.0082200	0.0004230	0.0000000
Copper	327.396	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	327.396	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	-0.0002380	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	-0.0002380	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	-0.0064070	0.0000000	0.0001690
Lead	220.353	0.0000000	0.0000000	-0.0064070	0.0000000	0.0001690
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:			
		Ti	V		
Aluminum	394.401	0.0000000	0.0006800		
Aluminum	394.401	0.0000000	0.0006800		
Antimony	206.833	0.0002810	0.0000000		
Antimony	206.833	0.0002810	0.0000000		
Arsenic	189.042	0.0000000	0.0000000		
Arsenic	189.042	0.0000000	0.0000000		
Barium	455.403	0.0000000	0.0000000		
Barium	455.403	0.0000000	0.0000000		
Beryllium	234.861	0.0000000	0.0000000		
Beryllium	234.861	0.0000000	0.0000000		
Boron	249.678	0.0000000	0.0000000		
Boron	249.678	0.0000000	0.0000000		
Cadmium	226.502	0.0000300	0.0000000		
Cadmium	226.502	0.0000300	0.0000000		
Calcium	393.366	0.0000000	0.0000000		
Calcium	393.366	0.0000000	0.0000000		
Chromium	267.716	0.0000000	-0.0000780		
Chromium	267.716	0.0000000	-0.0000780		
Cobalt	230.786	0.0000000	0.0000000		
Cobalt	230.786	0.0000000	0.0000000		
Copper	327.396	0.0000840	-0.0000420		
Copper	327.396	0.0000840	-0.0000420		
Iron	259.94	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000		
Lead	220.353	-0.0005950	0.0000000		
Lead	220.353	-0.0005950	0.0000000		
Lithium	670.784	0.0000000	0.0000000		
Lithium	670.784	0.0000000	0.0000000		
Magnesium	285.213	0.0000000	0.0000000		
Magnesium	285.213	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000		

Comments:

Metals

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

Molybdenum	202.03	-0.0000100	0.0000000	-0.0000100	-0.0000100	0.0000000
Nickel	231.604	0.0000000	0.0000000	-0.0000700	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	-0.0000700	0.0000000	0.0000000
Phosphorus	214.9	-0.0002000	0.0000000	0.0004400	0.0000000	0.0000000
Phosphorus	214.9	-0.0002000	0.0000000	0.0004400	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0000600	0.0000000	-0.0000600	0.0000000	0.0000000
Selenium	196.026	-0.0000600	0.0000000	-0.0000600	0.0000000	0.0000000
Silicon	228.158	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	228.158	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0001100	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0001100	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	-0.0001900	-0.0000900	0.0000000
Thallium	190.864	0.0000000	0.0000000	-0.0001900	-0.0000900	0.0000000
Tin	189.989	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.856	-0.0000100	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.856	-0.0000100	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

Molybdenum	202.03	-0.0001200	0.0000000	0.0000000	-0.0000900	0.0000000
Nickel	231.604	0.0000700	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000700	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.9	0.0000000	0.0010100	-0.0810500	0.0000000	0.0038000
Phosphorus	214.9	0.0000000	0.0010100	-0.0810500	0.0000000	0.0038000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0003600	-0.0003700	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0003600	-0.0003700	0.0000000	0.0000000	0.0000000
Silicon	228.158	0.0000000	0.0000000	0.0000000	-0.0026300	0.0090100
Silicon	228.158	0.0000000	0.0000000	0.0000000	-0.0026300	0.0090100
Silver	328.068	0.0000000	0.0000800	0.0000000	0.0000000	-0.0005600
Silver	328.068	0.0000000	0.0000800	0.0000000	0.0000000	-0.0005600
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0073700	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0073700	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	-0.0002500	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	-0.0002500	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	-0.0000900	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	-0.0000900	0.0000000	0.0000000	0.0000000
Zinc	213.856	0.0000000	-0.0012600	0.0000000	0.0000000	-0.0001000
Zinc	213.856	0.0000000	-0.0012600	0.0000000	0.0000000	-0.0001000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

Molybdenum	202.03	-0.0000500	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.9	0.0000000	0.0000000	0.0000000	-0.0020400
Phosphorus	214.9	0.0000000	0.0000000	0.0000000	-0.0020400
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0007900	0.0000000	0.0000000	0.0004900
Selenium	196.026	-0.0007900	0.0000000	0.0000000	0.0004900
Silicon	228.158	0.0000000	0.0000000	0.0753200	0.0000000
Silicon	228.158	0.0000000	0.0000000	0.0753200	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0007300	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0007300	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	-0.0015400	0.0000000
Thallium	190.864	0.0000000	0.0000000	-0.0015400	0.0000000
Tin	189.989	0.0000000	0.0000000	-0.0015800	0.0000000
Tin	189.989	0.0000000	0.0000000	-0.0015800	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.856	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.856	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

Metals

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	221.647	0.0000060	0.0000000	0.0000130	0.0000000	0.0000000
Nickel	221.647	0.0000060	0.0000000	0.0000130	0.0000000	0.0000000
Phosphorus	214.914	-0.0008250	0.0000000	0.0009490	0.0000000	0.0000000
Phosphorus	214.914	-0.0008250	0.0000000	0.0009490	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0016260
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0016260
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000000	0.0000000	0.0000000	0.0000280
Titanium	336.121	0.0000000	0.0000000	0.0000000	0.0000000	0.0000280
Vanadium	292.402	0.0000000	0.0000000	0.0000220	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000220	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	-0.0000570	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	-0.0000570	0.0000000	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000490	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000490	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	221.647	-0.0002770	0.0000000	0.0000000	0.0000000	0.0002490
Nickel	221.647	-0.0002770	0.0000000	0.0000000	0.0000000	0.0002490
Phosphorus	214.914	0.0000000	-0.0011200	0.0084760	0.0000000	0.0000000
Phosphorus	214.914	0.0000000	-0.0011200	0.0084760	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0010370	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0010370	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0078910	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0078910	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0002230	0.0007110	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0002230	0.0007110	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000000	0.0000380	0.0001210	0.0000000
Titanium	336.121	0.0000000	0.0000000	0.0000380	0.0001210	0.0000000
Vanadium	292.402	0.0000000	0.0000000	-0.0078980	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	-0.0078980	0.0000000	0.0000000
Zinc	206.2	-0.0001370	0.0000000	0.0005030	0.0000000	0.0000000
Zinc	206.2	-0.0001370	0.0000000	0.0005030	0.0000000	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

Manganese	257.61	0.0000000	0.0000000		
Molybdenum	202.03	0.0000000	0.0000000		
Molybdenum	202.03	0.0000000	0.0000000		
Nickel	221.647	-0.0006910	0.0000000		
Nickel	221.647	-0.0006910	0.0000000		
Phosphorus	214.914	0.0000000	-0.0043120		
Phosphorus	214.914	0.0000000	-0.0043120		
Potassium	766.491	0.0000000	0.0000000		
Potassium	766.491	0.0000000	0.0000000		
Selenium	196.0	0.0000000	0.0000000		
Selenium	196.0	0.0000000	0.0000000		
Silicon	251.611	0.0000000	0.0000000		
Silicon	251.611	0.0000000	0.0000000		
Silver	328.068	-0.0001050	0.0000730		
Silver	328.068	-0.0001050	0.0000730		
Sodium	589.592	0.0000000	0.0000000		
Sodium	589.592	0.0000000	0.0000000		
Strontium	407.771	0.0000000	0.0000000		
Strontium	407.771	0.0000000	0.0000000		
Thallium	190.856	-0.0008150	-0.0087710		
Thallium	190.856	-0.0008150	-0.0087710		
Tin	189.989	-0.0012350	0.0000000		
Tin	189.989	-0.0012350	0.0000000		
Titanium	336.121	0.0000000	0.0000000		
Titanium	336.121	0.0000000	0.0000000		
Vanadium	292.402	0.0003520	0.0000000		
Vanadium	292.402	0.0003520	0.0000000		
Zinc	206.2	0.0000000	0.0000000		
Zinc	206.2	0.0000000	0.0000000		

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum	5.000	900000	200.7
Barium	5.000	45000	200.7
Calcium	5.000	1800000	200.7
Iron	5.000	900000	200.7
Magnesium	5.000	900000	200.7
Manganese	5.000	180000	200.7
Potassium	5.000	450000	200.7
Sodium	5.000	180000	200.7

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum	15.000	900000	200.7
Barium	15.000	45000	200.7
Calcium	15.000	900000	200.7
Iron	15.000	360000	200.7
Magnesium	15.000	540000	200.7
Manganese	15.000	180000	200.7
Potassium	15.000	900000	200.7
Sodium	15.000	900000	200.7

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-MS-02

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony	15.000	900	200.8
Arsenic	15.000	900	200.8
Beryllium	15.000	450	200.8
Cadmium	15.000	900	200.8
Chromium	15.000	900	200.8
Cobalt	15.000	900	200.8
Copper	15.000	900	200.8
Lead	15.000	900	200.8
Nickel	15.000	900	200.8
Selenium	15.000	900	200.8
Silver	15.000	270	200.8
Thallium	15.000	450	200.8
Vanadium	15.000	900	200.8
Zinc	15.000	900	200.8

Comments:

Metals
-13-
PREPARATION LOG

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004870-001 DISS	05/27/10	50.0	50.0
K1004870-002 DISS	05/27/10	50.0	50.0
K1004870-003 DISS	05/27/10	50.0	50.0
K1004870-004	05/27/10	50.0	50.0
K1004870-004D	05/27/10	50.0	50.0
K1004870-004S	05/27/10	50.0	50.0
K1004870-005	05/27/10	50.0	50.0
K1004870-MB	05/27/10	50.0	50.0
K1005015-001D	05/27/10	50.0	50.0
K1005015-001S	05/27/10	50.0	50.0
LCSW	05/27/10	50.0	50.0

Metals
-13-
PREPARATION LOG

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004870-001 DISS	05/27/10	50.0	50.0
K1004870-002 DISS	05/27/10	50.0	50.0
K1004870-003 DISS	05/27/10	50.0	50.0
K1004870-004	05/27/10	50.0	50.0
K1004870-MB	05/27/10	50.0	50.0
K1004934-005D	05/27/10	50.0	50.0
K1004934-005S	05/27/10	50.0	50.0
K1005117-001D	05/27/10	50.0	50.0
K1005117-001S	05/27/10	50.0	50.0
LCSW	05/27/10	50.0	50.0

Metals
-13-
PREPARATION LOG

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Method: CV

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004870-001 DISS	05/28/10	100.0	100.0
K1004870-002 DISS	05/28/10	100.0	100.0
K1004870-003 DISS	05/28/10	100.0	100.0
K1004870-003D DISS	05/28/10	100.0	100.0
K1004870-003S DISS	05/28/10	100.0	100.0
K1004870-004	05/28/10	100.0	100.0
K1004870-MB	05/28/10	100.0	100.0
K1004936-006D	05/28/10	100.0	100.0
K1004936-006S	05/28/10	100.0	100.0
LCSW	05/28/10	100.0	100.0

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 06/04/10

End Date: 06/04/10

Sample No.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A G	N A	T L	V N	Z N
Blank	1	08:26		X			X			X				X	X	X			X			X				
STDB	1	08:29		X			X			X				X	X	X			X			X				
STDA	1	08:32							X					X	X	X										
ICV1	1	08:35		X			X			X				X	X	X			X			X				
ICV1	1	08:38							X					X	X	X										
ICB1	1	08:41		X			X			X				X	X	X			X			X				
CCV1	1	08:50		X			X			X				X	X	X			X			X				
CCV1	1	08:58							X					X	X	X										
CCB1	1	09:04		X			X			X				X	X	X			X			X				
CRA1	1	09:07		X			X			X				X	X	X			X			X				
ICS-A1	1	09:10		X			X			X				X	X	X			X			X				
ICS-AB1	1	09:13		X			X			X				X	X	X			X			X				
ZZZZZZ	1	09:16																								
CCV2	1	09:19		X			X			X				X	X	X			X			X				
CCV2	1	09:22							X					X	X	X										
CCB2	1	09:25		X			X			X				X	X	X			X			X				
K1004870-MB	1	09:31		X			X			X				X	X	X			X			X				
LCSW	1	09:34		X			X			X				X	X	X			X			X				
K1004870-004	1	09:37		X			X			X				X	X	X			X			X				
K1004870-004D	1	09:40		X			X			X				X	X	X			X			X				
K1004870-004L	5	09:43		X			X			X				X	X	X			X			X				
K1004870-004S	1	09:46		X			X							X		X										
K1004870-001 DISS	1	09:49		X			X			X				X	X	X			X			X				
K1004870-002 DISS	1	09:52		X			X			X				X	X	X			X			X				
K1004870-003 DISS	1	09:55		X			X			X				X	X	X			X			X				
K1004870-005	1	09:58							X						X				X			X				
CCV3	1	10:01		X			X			X				X	X	X			X			X				
CCV3	1	10:04							X					X	X	X										
CCB3	1	10:07		X			X			X				X	X	X			X			X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Instrument ID Number: K-ICP-MS-02

Method: MS

Start Date: 06/04/10

End Date: 06/04/10

Sample No.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
Cal. Blk	1	17:43		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
Cal Std	1	17:47		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
ICV1	1	17:56		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
CCV1	1	17:59		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
ICB1	1	18:13		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
CCB1	1	18:17		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
CRA1	1	18:21		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
K1004870-MB	1	18:25		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
LCSW	1	18:29		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
ZZZZZZ	1	18:38																								
K1004934-005D	1	18:42		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
K1004934-005S	1	18:47		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
ZZZZZZ	1	19:01																								
ZZZZZZ	1	19:07																								
ZZZZZZ	1	19:13																								
CCV2	1	19:17		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
CCB2	1	19:26		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
K1004870-001 DISS	1	19:30		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
K1004870-002 DISS	1	19:35		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
K1004870-003 DISS	1	19:40		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
K1004870-004	1	19:45		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
ZZZZZZ	1	19:50																								
ZZZZZZ	1	19:55																								
ZZZZZZ	1	20:00																								
CCV3	1	20:04		X	X		X	X		X	X	X		X				X	X	X	X	X	X			
CCB3	1	20:13		X	X		X	X		X	X	X		X				X	X	X	X	X	X			

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglär - Kronquist

Instrument ID Number: K-ICP-MS-02

Method: MS

Start Date: 06/07/10

End Date: 06/07/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
Cal. Blk	1	11:41		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
Cal. Stn	1	11:46		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
ICV2	1	11:51		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
CCV1	1	11:56		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
ICB2	1	12:06		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
CCB1	1	12:17		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
CRA2	1	12:21		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
ZZZZZZ	1	12:38																													
ZZZZZZ	1	12:42																													
ZZZZZZ	1	12:47																													
ZZZZZZ	1	12:51																													
ZZZZZZ	1	12:56																													
ZZZZZZ	1	13:01																													
ZZZZZZ	1	13:10																													
ZZZZZZ	1	13:19																													
ZZZZZZ	1	13:25																													
ZZZZZZ	1	13:31																													
CCV2	1	13:38		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
CCB2	1	13:46		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
ZZZZZZ	1	13:51																													
K1005117-001D	1	13:57		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
K1005117-001S	1	14:03		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
CCV3	1	14:12		X	X		X	X		X	X	X		X				X	X	X		X	X	X							
CCB3	1	14:20		X	X		X	X		X	X	X		X				X	X	X		X	X	X							

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 06/07/10

End Date: 06/07/10

Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V L	Z N	C N		
BLK	1	18:24		X		X		X				X	X	X				X		X									
STD A	1	18:27													X														
STD B	1	18:30		X		X		X				X	X					X		X									
ICV2	1	18:34		X		X		X				X	X	X				X		X									
ICV2	1	18:38																											
ZZZZZZ	1	18:41																											
ICB2	1	18:44		X		X		X				X	X	X				X		X									
CCV1	1	18:47												X															
CCV1	1	18:56		X		X		X				X	X					X		X									
CCB1	1	19:24		X		X		X				X	X	X				X		X									
CRA2	1	19:26		X		X		X				X	X	X				X		X									
ZZZZZZ	1	19:29																											
ICS-A2	1	19:32		X		X		X				X	X	X				X		X									
ICS-AB2	1	19:36		X		X		X				X	X	X				X		X									
ZZZZZZ	1	19:43																											
ZZZZZZ	1	19:46																											
ZZZZZZ	1	19:49																											
ZZZZZZ	1	19:53																											
ZZZZZZ	1	19:57																											
K1005015-001D	1	20:00		X		X		X				X	X	X				X		X									
CCV2	1	20:03												X															
CCV2	1	20:06		X		X		X				X	X					X		X									
CCB2	1	20:10		X		X		X				X	X	X				X		X									
ZZZZZZ	5	20:12																											
ZZZZZZ	1	20:15																											
K1005015-001S	1	20:19		X		X						X		X															
ZZZZZZ	1	20:23																											
ZZZZZZ	1	20:26																											
ZZZZZZ	1	20:30																											
ZZZZZZ	1	20:33																											
ZZZZZZ	1	20:37																											
ZZZZZZ	1	20:41																											

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 06/07/10

End Date: 06/07/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
zzzzzz	1	20:45																													
CCV3	1	20:49																													
CCV3	1	20:52		X			X			X			X	X					X			X									
CCB3	1	20:56		X			X			X			X	X	X				X			X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglars - Kronquist

Instrument ID Number: K-CVAA-01

Method: CV

Start Date: 06/02/10

End Date: 06/02/10

Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	A L	N T	V L	Z N	C N
Standard #1	1	11:14															X										
Standard #2	1	11:15															X										
Standard #3	1	11:17															X										
Standard #4	1	11:19															X										
Standard #5	1	11:21															X										
ICV1	1	11:22															X										
ICB1	1	11:24															X										
CCV1	1	11:26															X										
CCB1	1	11:28															X										
ZZZZZZ	1	11:29																									
ZZZZZZ	1	11:31																									
ZZZZZZ	1	11:33																									
ZZZZZZ	1	11:35																									
ZZZZZZ	1	11:37																									
ZZZZZZ	1	11:38																									
ZZZZZZ	1	11:40																									
ZZZZZZ	1	11:42																									
ZZZZZZ	1	11:44																									
ZZZZZZ	1	11:45																									
CCV2	1	11:47																X									
CCB2	1	11:49																X									
ZZZZZZ	1	11:51																									
ZZZZZZ	1	11:53																									
ZZZZZZ	1	11:54																									
ZZZZZZ	1	11:56																									
ZZZZZZ	1	11:58																									
ZZZZZZ	1	12:00																									
ZZZZZZ	1	12:01																									
ZZZZZZ	1	12:03																									
ZZZZZZ	1	12:05																									
ZZZZZZ	1	12:07																									
CCV3	1	12:09																	X								

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Instrument ID Number: K-CVAA-01

Method: CV

Start Date: 06/02/10

End Date: 06/02/10

Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A G	N A	T L	V L	Z N	C N
CCB3	1	12:10																X									
ZZZZZZ	1	12:12																									
K1004870-MB	1	12:15																X									
LCSW	1	12:17																X									
ZZZZZZ	1	12:19																									
ZZZZZZ	1	12:21																									
ZZZZZZ	1	12:22																									
ZZZZZZ	1	12:24																									
K1004936-006A	1	12:26																X									
K1004936-006D	1	12:28																X									
K1004936-006S	1	12:30																X									
CCV4	1	12:31																X									
CCB4	1	12:33																X									
ZZZZZZ	1	12:35																									
ZZZZZZ	1	12:37																									
ZZZZZZ	1	12:38																									
ZZZZZZ	1	12:40																									
ZZZZZZ	1	12:42																									
ZZZZZZ	1	12:44																									
ZZZZZZ	1	12:46																									
K1004870-001 DISS	1	12:47																X									
K1004870-002 DISS	1	12:49																X									
K1004870-003 DISS	1	12:51																X									
CCV5	1	12:53																X									
CCB5	1	12:55																X									
K1004870-003D DISS	1	12:56																X									
K1004870-003S DISS	1	12:58																X									
K1004870-004	1	13:00																X									
ZZZZZZ	1	13:02																									
ZZZZZZ	1	13:04																									
ZZZZZZ	1	13:06																									
CCV6	1	13:08																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

- 14 -

ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004870

Project No.: 0907194.000.0601

Project Name: Hegljar - Kronquist

Instrument ID Number: K-CVAA-01


Method: CV

Start Date: 06/02/10

End Date: 06/02/10

Sample No.	D/F	Time	% R	Analytes																											
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K	S	A	N	T	V	Z	C					
CCB6	1	13:10																				X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14


Columbia Analytical Services Preparation Information Benchsheet

Prep Run: 112433
Team: Metals
Analyst: WSchumann
Prep Workflow: MetDigAqMS
Prep Method: EPA CLP-METALS
Rush/NPDES: N/A
Status: Prepped
Current Step: Digestion
Prep Date: 05/27/2010 04:15
Due Date: 05/30/2010

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1004909-01	Method Blank		50 mL	50 mL			Metals D, Metals T	1% HNO3
KQ1004909-02	Lab Control Sample		50 mL	50 mL	1 mL 1 mL	11605 17425	Metals D, Metals T	1% HNO3
K1004870-001	BH-6	.05	50 mL	50 mL			Metals D	1% HNO3
K1004870-002	BH-7	.05	50 mL	50 mL			Metals D	1% HNO3
K1004870-003	BH-15	.05	50 mL	50 mL			Metals D	1% HNO3
K1004870-004	4aad	.05	50 mL	50 mL			Metals T	1% HNO3
K1004934-005	SW-2	.12	50 mL	50 mL			Metals T	1% HNO3
K1004934-005: KQ1004909-05	Duplicate	.12	50 mL	50 mL			Metals T	1% HNO3
K1004934-005: KQ1004909-06	Matrix Spike	.12	50 mL	50 mL	1 mL 1 mL	11605 17425	Metals T	1% HNO3
K1004934-006	SW-3	.12	50 mL	50 mL			Metals T	1% HNO3
K1004934-007	SW-9	.12	50 mL	50 mL			Metals T	1% HNO3
K1004934-008	FB-051410	.12	50 mL	50 mL			Metals T	1% HNO3
K1005015-001	BRUVpilot1:BA92933	.03	50 mL	50 mL			Metals T	1% HNO3
K1005067-002	3bcd-2	.20	50 mL	50 mL			Metals D	1% HNO3
K1005067-003	3ddd	.20	50 mL	50 mL			Metals D	1% HNO3
K1005067-004	EB-051710	.20	50 mL	50 mL			Metals D	1% HNO3
K1005117-001	MS	.04	50 mL	50 mL			Metals T	1% HNO3
K1005117-001: KQ1004909-03	Duplicate	.04	50 mL	50 mL			Metals T	1% HNO3
K1005117-001: KQ1004909-04	Matrix Spike	.04	50 mL	50 mL	1 mL 1 mL	11605 17425	Metals T	1% HNO3
K1005117-002	MS-Roof	.04	50 mL	50 mL			Metals T	1% HNO3
K1005117-003	Pipe Under Tracks	.04	50 mL	50 mL			Metals T	1% HNO3

21 Total Samples consisting of 15 Client Samples, 4 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET 200.8 1000ug/L Stock	Spike	17425	10/24/2010	K-MET Ag 1000 ppb Stock	Spike	11605	8/17/2010

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET HN03 ULTREX	16811	Digestion	K-MET 50ml Centrifuge Tube	16850

Preparation Hardware / Equipment

Step	Name	Property	Value
Digestion	K-BlockDigester-06	Temperature	95 deg C

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	27-MAY-10 04:15	27-MAY-10 07:15	WSchumann		N	

Comments**Review**

Reviewed by: BJS Date: 5/27/10


Columbia Analytical Services Preparation Information Benchsheet

Prep Workflow: MetDigAqICP **Status:** Prepped **Prep Date:** 05/27/2010
Prep Run: 112427 EPA **Current Step:** Digestion **Prep Date:** 04:15
Team: Metals **Prep Method:** 3010A,EPA CLP-METALS **Due Date:** 06/04/2010
Analyst: WSchumann ILM04.0
Rush/NPDES: N/A

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1004904-01	Method Blank		50 mL	50 mL			Metals D, Metals T, Metals T	1% HNO3 5% HCL
KQ1004904-02	Lab Control Sample		50 mL	50 mL	0.25 mL 0.25 mL 0.25 mL	12778 14972 18109	Metals D, Metals T, Metals T	1% HNO3 5% HCL
KQ1004904-03	Lab Control Sample		50 mL	50 mL	0.5 mL	15209	Metals D, Metals T, Metals T	1% HNO3 5% HCL
K1004870-001	BH-6	.05	50 mL	50 mL			Metals D	1% HNO3 5% HCL
K1004870-002	BH-7	.05	50 mL	50 mL			Metals D	1% HNO3 5% HCL
K1004870-003	BH-15	.05	50 mL	50 mL			Metals D	1% HNO3 5% HCL
K1004870-004	4aad	.05	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004870-004; KQ1004904-06	Duplicate	.05	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004870-004; KQ1004904-07	Matrix Spike	.05	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL 0.5 mL	15209 17064 17544 17867 18003	Metals T	1% HNO3 5% HCL
K1004870-005	SW-8	.05	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-001	SW-1	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-002	SW-4	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-003	SW-5	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-004	SW-6	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-005	SW-2	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-006	SW-3	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-007	SW-9	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-008	FB-051410	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1005015-001	BRUVPilot1:BA92933	.03	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1005015-001; KQ1004904-04	Duplicate	.03	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1005015-001; KQ1004904-05	Matrix Spike	.03	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL 0.5 mL	15209 17064 17544 17867	Metals T	1% HNO3 5% HCL

					0.5 mL	18003		
K1005067-001	SW-7	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1005067-002	3bcd-2	.20	50 mL	50 mL			Metals D	1% HNO3 5% HCL
K1005067-003	3ddd	.20	50 mL	50 mL			Metals D	1% HNO3 5% HCL
K1005067-004	EB-051710	.20	50 mL	50 mL			Metals D	1% HNO3 5% HCL

25 Total Samples consisting of 18 Client Samples, 4 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET QCP-CICV-1	Spike	18109	6/1/2011	K-MET SS3	Spike	17064	12/1/2010
K-MET QCP-CICV-2	Spike	12778	7/1/2010	K-MET SS4	Spike	17867	12/1/2010
K-MET QCP-CICV-3	Spike	14972	1/28/2011	K-MET SS5	Spike	18003	11/20/2010
K-MET SS1	Spike	17544	9/11/2010	Silicon 1000 ug/mL Si	Spike	15209	10/26/2010

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET HNO3	15193	Digestion	K-MET 50ml Centrifuge Tube	16850
Digestion	K-MET HCL	16810			

Preparation Hardware / Equipment

Step	Name	Property	Value
Digestion	K-BlockDigester-08	Temperature	95 deg C

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	27-MAY-10 04:15	27-MAY-10 07:15	WSchumann		N	

Comments

Review

Reviewed by: BJS Date: 5/27/10

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

4870

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter ml's Added
K-MET SS1	HNO3	50.0	1000ml	-	0.50
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	200	
	Be	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
	Mn	100*	1000ml	50	
	Ni	100*	1000ml	50	
	Sb	50	1000ml	50	
V	100*	1000ml	50		
Zn	100*	1000ml	50		
K-MET SS2	HNO3	25.0	500ml	-	
	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
	Cu	2.0	500ml	4	
K-MET SS3	HNO3	25.0	500ml	-	0.50
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	50.0	500ml	100	
K-MET SS4	HNO3	25	500ml	-	0.50
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	0.5
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	
K-MET GFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Ca, Mg, Na, K	no dilution	-	2500	0.25
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Be	no dilution	-	25	
K-MET QCP-CICV-2	Sb	no dilution	-	500	0.25
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	0.25
	Cd	no dilution	-	250	

* Denotes volume of mixed stock standard.
 ** Denotes 10,000 ppm individual stock standards.

Standard	mLs of standard	ppm	logbook #	Exp. Date
S1	0.5	1000	MET-73-0	6/10/10

CVAA Mercury Data Review Form

Element: Hg

Analysis Lot #: 203136

Cal. STD/CCV Source: HG1-92-J

Service Request Numbers:

K1004814, K1005137, K1004936, K1004870, K1005067

	Yes	No	NA
1) Appropriate standardization completed	<u>X</u>	<u> </u>	<u> </u>
2) ICV within 10% of true value	<u>X</u>	<u> </u>	<u> </u>
3) CCVs in control	<u>X</u>	<u> </u>	<u> </u>
4) CCBs and or ICBs below MRL	<u>X</u>	<u> </u>	<u> </u>
5) All reported samples within calibration range	<u>X</u>	<u> </u>	<u> </u>
6) Calculations correct	<u>X</u>	<u> </u>	<u> </u>

Comments:

Data reviewed against service request(s) to ensure no samples were omitted: MS (initials)

Primary Reviewed By: MAS

Date: 6/2/10

Secondary Reviewed By: JDB

Date: 6/2/10

Method: (Circle One) 7470A 7471A 245.1	Service Request # : K1004814, K1005137, K1004936, K1004870, K1005067
Analysis For: Hg	

DATA

Pos.	SAMPLE NUMBER	Initial Sample (g) or (mL)	Initial Dilution (mL)	Dilution Factor	Measured (µg/L)	Sample Actual (mg/kg)	Sample Actual (µg/L)
1	ICV1	~	~	~	4.89		98%
2	ICB1	~	~	~	-0.01		< 0.2
3	CCV1	~	~	~	4.92		98%
4	CCB1	~	~	~	-0.02		< 0.2
5	CRA1	~	~	~	0.19		95%
6	K1004814-MB	100	100	~	0.00		0.00
7	LCSW K1004814	100	100	~	5.19		104%
8	K1004814-001	100	100	~	0.00		0.00
9	K1004814-002	100	100	~	0.01		0.01
10	K1004814-003	100	100	~	0.00		0.00
11	K1004814-004	100	100	~	0.00		0.00
12	K1004814-004A	100	100	~	1.08		108%
13	K1004814-004D	100	100	~	0.01		0.01
14	K1004814-004S	100	100	~	1.08		108%
15	CCV2	~	~	~	4.94		99%
16	CCB2	~	~	~	-0.02		< 0.2
17	K1004814-005	100	100	~	0.00		0.00
18	K1004814-006	100	100	~	0.00		0.00
19	K1005137-003	100	100	~	0.00		0.00
20	K1005137-003D	100	100	~	0.00		0.00
21	K1005137-003S	100	100	~	1.13		113%
22	K1005137-001 DISS	100	100	~	0.00		0.00
23	K1005137-002 DISS	100	100	~	0.00		0.00
24	K1005137-003 DISS	100	100	~	0.00		0.00
25	K1005137-004 DISS	100	100	~	0.00		0.00

Comments: Reporting Levels:					
Soil/Tissue Spike Level:					
Post Spike Level:	1.0 ppb				
Method	Spike Level	MRL	LCS Limit	MS Limit	RPD
7470A Water	1.0 µg/L	0.2 µg/L	83-117%	76-126%	20%
245.1 Water	1.0 µg/L	0.2 µg/L	85-115%	70-130%	20%
7470A TCLP	5.0 µg/L	1.0 µg/L	85-115%	75-125%	20%
7471A Soil LCSS	6.80 mg/kg	0.02 mg/kg	72-128%	60-130%	30%
7471A Tissue Tort	0.27 mg/kg	0.02 mg/kg	63-130%	60-130%	30%

Analyst: <i>Melissa C. H.</i>	Date: <i>6/2/10</i>	Page Number: 1
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Method: (Circle One) 7470A 7471A 245.1	Service Request # :
Analysis For: Hg	

DATA

Pos.	SAMPLE NUMBER	Initial Sample (g) or (mL)	Initial Dilution (mL)	Dilution Factor	Measured (µg/L)	Sample Actual (mg/kg)	Sample Actual (µg/L)
26	K1005137-005 DISS	100	100	~	0.00		0.00
27	CCV3	~	~	~	4.95		99%
28	CCB3	~	~	~	0.00		< 0.2
29	K1005137-006 DISS	100	100	~	0.00		0.00
30	K1004936-MB	100	100	~	0.00		0.00
31	LCSW K1004936	100	100	~	5.36		107%
32	K1004936-003	100	100	~	0.08		0.08
33	K1004936-004	100	100	~	0.01		0.01
34	K1004936-005	100	100	~	0.16		0.16
35	K1004936-006	100	100	~	0.01		0.01
36	K1004936-006A	100	100	~	1.13		112%
37	K1004936-006D	100	100	~	0.01		0.01
38	K1004936-006S	100	100	~	1.15		115%
39	CCV4	~	~	~	5.00		100%
40	CCB4	~	~	~	0.00		< 0.2
41	K1004936-007	100	100	~	0.05		0.05
42	K1004936-001 DISS	100	100	~	0.01		0.01
43	K1004936-003 DISS	100	100	~	0.00		0.00
44	K1004936-004 DISS	100	100	~	0.00		0.00
45	K1004936-005 DISS	100	100	~	0.00		0.00
46	K1004936-006 DISS	100	100	~	0.00		0.00
47	K1004936-007 DISS	100	100	~	0.00		0.00
48	K1004870-001	100	100	~	0.00		0.00
49	K1004870-002	100	100	~	0.02		0.02
50	K1004870-003	100	100	~	0.00		0.00

Comments: Reporting Levels:

Soil/Tissue Spike Level:

Post Spike Level:

Method	Spike Level	MRL	LCS Limit	MS Limit	RPD
7470A Water	1.0 µg/L	0.2 µg/L	83-117%	76-126%	20%
245.1 Water	1.0 µg/L	0.2 µg/L	85-115%	70-130%	20%
7470A TCLP	5.0 µg/L	1.0 µg/L	85-115%	75-125%	20%
7471A Soil LCSS	6.80 mg/kg	0.02 mg/kg	72-128%	60-130%	30%
7471A Tissue Tort	0.27 mg/kg	0.02 mg/kg	63-130%	60-130%	30%

Analyst: <i>Nelma A. C. K.</i>	Date: <i>6/2/10</i>	Page Number: <div style="text-align: center;">2</div>
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Method: (Circle One) 7470A 7471A <u>245.1</u>	Service Request # :
Analysis For: Hg	

DATA

Pos.	SAMPLE NUMBER	Initial Sample (g) or (mL)	Initial Dilution (mL)	Dilution Factor	Measured (µg/L)	Sample Actual (mg/kg)	Sample Actual (µg/L)
51	CCV5	~	~	~	5.00		100%
52	CCB5	~	~	~	-0.01		< 0.2
53	K1004870-003D	100	100	~	0.00		0.00
54	K1004870-003S	100	100	~	1.14		114%
55	K1004870-004	100	100	~	0.00		0.00
56	K1005067-002	100	100	~	0.00		0.00
57	K1005067-003	100	100	~	0.00		0.00
58	K1005067-004	100	100	~	0.03		0.03
59	CCV6	~	~	~	5.05		101%
60	CCB6	~	~	~	0.00		< 0.2
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							

MS 6/2/10

Comments: Reporting Levels:

Soil/Tissue Spike Level:

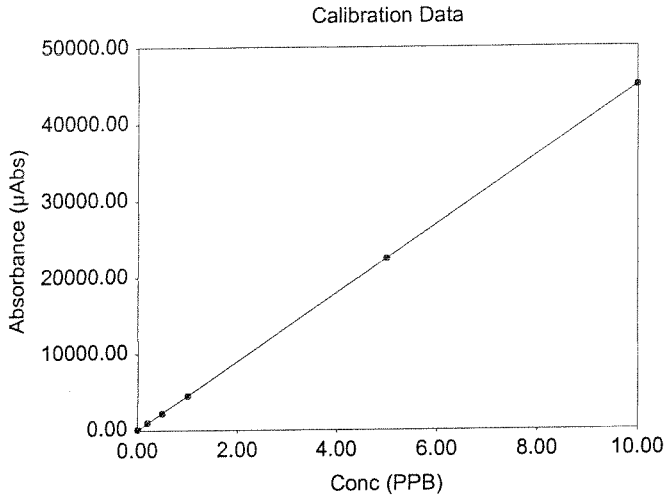
Post Spike Level:

Method	Spike Level	MRL	LCS Limit	MS Limit	RPD
7470A Water	1.0 µg/L	0.2 µg/L	83-117%	76-126%	20%
245.1 Water	1.0 µg/L	0.2 µg/L	85-115%	70-130%	20%
7470A TCLP	5.0 µg/L	1.0 µg/L	85-115%	75-125%	20%
7471A Soil LCSS	6.80 mg/kg	0.02 mg/kg	72-128%	60-130%	30%
7471A Tissue Tort	0.27 mg/kg	0.02 mg/kg	63-130%	60-130%	30%

Analyst: <i>M. Wallace</i>	Date: <i>6/2/10</i>	Page Number: 3
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Analyst M SMITH
 Date Started Wednesday, June 02, 2010, 11:12:19
 Worksheet Hg 060210B
 Comment K-CVAA-01

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings	Flags
Calibration Zero	02-Jun-2010, 11:12	0.00	0.77	110.00	111 111 109 110	
Standard #1	02-Jun-2010, 11:14	0.20	0.69	969.00	968 961 970 977	
Standard #2	02-Jun-2010, 11:15	0.50	0.90	2210.00	2190 2190 2212 2231	
Standard #3	02-Jun-2010, 11:17	1.00	0.66	4440.00	4411 4418 4458 4470	
Standard #4	02-Jun-2010, 11:19	5.00	0.62	22500.00	22321 22396 22533 22634	
Standard #5	02-Jun-2010, 11:21	10.00	1.32	44900.00	44222 44649 45203 45560	



Int. Slope 0.000
 4491.024
 Correlation 0.99999

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings	Flags
ICV1	02-Jun-2010, 11:22	4.89	1.27	22000.00	22032 22192 22070 21559	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings	Flags
ICB1	02-Jun-2010, 11:24	-0.01	13.00	-53.00	-47 -49 -62 -54	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings	Flags
CCV1	02-Jun-2010, 11:26	4.92	0.69	22100.00	21956 22001 22189 22280	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings	Flags
CCB1	02-Jun-2010, 11:28	-0.02	6.26	-87.80	-92 -91 -80 -87	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings	Flags
CRA1	02-Jun-2010, 11:29	0.19	1.33	831.00	817 830 844 833	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings	Flags
K1004814-MB	02-Jun-2010, 11:31	0.00	19.30	4.72	4 4 6 5	
LCSW K1004814	02-Jun-2010, 11:33	5.19	0.29	23300.00	23290 23277 23305 23423	
K1004814-001	02-Jun-2010, 11:35	-0.00	88.00	-7.45	-9 -8 1 -15	
K1004814-002	02-Jun-2010, 11:37	0.01	16.50	24.70	19 28 28 24	
K1004814-003	02-Jun-2010, 11:38	0.00	15.00	18.40	16 20 22 17	
K1004814-004	02-Jun-2010, 11:40	0.00	38.00	16.90	8 22 21 17	
K1004814-004A	02-Jun-2010, 11:42	1.08	0.93	4850.00	4795 4836 4894 4881	
K1004814-004D	02-Jun-2010, 11:44	0.01	32.20	24.10	18 33 17 28	
K1004814-004S	02-Jun-2010, 11:45	1.08	1.22	4850.00	4811 4794 4882 4920	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings	Flags
CCV2	02-Jun-2010, 11:47	4.94	0.78	22200.00	22078 22005 22217 22400	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings	Flags
CCB2	02-Jun-2010, 11:49	-0.02	4.62	-93.40	-89 -95 -91 -98	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings	Flags
K1004814-005	02-Jun-2010, 11:51	0.00	217.00	1.49	5 -1 3 -2	
K1004814-006	02-Jun-2010, 11:53	-0.00	168.00	-4.89	-9 -5 -12 7	
K1005137-003	02-Jun-2010, 11:54	0.00	191.00	7.80	-15 16 16 14	
K1005137-003D	02-Jun-2010, 11:56	0.00	44.20	12.30	12 15 18 5	
K1005137-003S	02-Jun-2010, 11:58	1.13	30.07	5070.00	5065 5062 5081 5073	

Analyst M SMITH
 Date Started Wednesday, June 02, 2010, 12:00:09
 Worksheet Hg 060210B
 Comment K-CVAA-01

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
K1005137-001 DISS	02-Jun-2010, 12:00	-0.00	829.00	-1.08	-14	4	1	5	
K1005137-002 DISS	02-Jun-2010, 12:01	0.00	204.00	4.80	-10	12	7	10	
K1005137-003 DISS	02-Jun-2010, 12:03	-0.00	186.00	-7.36	-25	6	1	-12	
K1005137-004 DISS	02-Jun-2010, 12:05	0.00	28.90	13.40	16	12	17	9	
K1005137-005 DISS	02-Jun-2010, 12:07	0.00	20300.00	0.04	-5	-3	-3	11	
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV3	02-Jun-2010, 12:09	4.95	0.91	22200.00	22006	22132	22361	22443	
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB3	02-Jun-2010, 12:10	-0.00	106.00	-9.32	-9	-17	5	-16	
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
K1005137-006 DISS	02-Jun-2010, 12:12	0.00	44.50	12.60	4	14	15	17	
K1004936-MB	02-Jun-2010, 12:15	-0.00	160.00	-0.57	-1	-2	-1	1	
LCSW K1004936	02-Jun-2010, 12:17	5.36	0.71	24100.00	23923	23968	24183	24280	
K1004936-003	02-Jun-2010, 12:19	0.08	0.40	350.00	348	350	351	349	
K1004936-004	02-Jun-2010, 12:21	0.01	17.00	39.60	35	34	41	49	
K1004936-005	02-Jun-2010, 12:22	0.16	1.04	717.00	707	721	724	715	
K1004936-006	02-Jun-2010, 12:24	0.01	31.00	24.50	14	25	29	31	
K1004936-006A	02-Jun-2010, 12:26	1.13	1.05	5060.00	4988	5084	5111	5057	
K1004936-006D	02-Jun-2010, 12:28	0.01	15.80	43.80	50	49	39	36	
K1004936-006S	02-Jun-2010, 12:30	1.15	0.22	5160.00	5157	5160	5180	5156	
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV4	02-Jun-2010, 12:31	5.00	0.65	22500.00	22253	22436	22574	22543	
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB4	02-Jun-2010, 12:33	-0.00	6.12	-16.70	-17	-18	-17	-15	
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
K1004936-007	02-Jun-2010, 12:35	0.05	2.61	216.00	208	216	221	217	
K1004936-001 DISS	02-Jun-2010, 12:37	0.01	26.30	32.40	28	25	33	44	
K1004936-003 DISS	02-Jun-2010, 12:38	0.00	193.00	2.05	-2	-1	5	6	
K1004936-004 DISS	02-Jun-2010, 12:40	0.00	82.70	15.00	-3	23	23	17	
K1004936-005 DISS	02-Jun-2010, 12:42	0.00	85.90	11.90	-2	22	12	16	
K1004936-006 DISS	02-Jun-2010, 12:44	0.00	49.70	15.10	7	24	18	11	
K1004936-007 DISS	02-Jun-2010, 12:46	0.00	613.00	2.78	-22	11	16	6	
K1004870-001	02-Jun-2010, 12:47	-0.00	1970.00	-0.60	-18	5	5	5	
K1004870-002	02-Jun-2010, 12:49	0.02	10.10	72.80	69	73	66	83	
K1004870-003	02-Jun-2010, 12:51	0.00	104.00	6.13	12	11	-1	3	
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV5	02-Jun-2010, 12:53	5.00	0.75	22500.00	22293	22377	22580	22651	
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB5	02-Jun-2010, 12:55	-0.01	11.20	-28.10	-29	-32	-28	-24	
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
K1004870-003D	02-Jun-2010, 12:56	-0.00	23.60	-14.40	-19	-13	-11	-14	
K1004870-003S	02-Jun-2010, 12:58	1.14	0.12	5110.00	5103	5106	5117	5111	
K1004870-004	02-Jun-2010, 13:00	0.00	56.90	8.35	2	8	14	9	
K1005067-002	02-Jun-2010, 13:02	-0.00	950.00	-1.23	-16	-4	7	9	
K1005067-003	02-Jun-2010, 13:04	0.00	59.60	16.00	2	17	24	21	
K1005067-004	02-Jun-2010, 13:06	0.03	8.23	114.00	122	119	113	101	
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV6	02-Jun-2010, 13:08	5.05	0.92	22700.00	22482	22563	22817	22926	
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB6	02-Jun-2010, 13:10	-0.00	38.30	-21.00	-25	-12	-17	-30	

Columbia Analytical Services
EPA METHOD 245.1

Service Request Number(s):
PREP RUN: 112 650

Sample	Initial Volume	Final Volume	Sample	Initial Volume	Final Volume
MB	100	100			
LCSW	100	100			
K1004814-001	100	100			
K1004814-002	100	100			
K1004814-003	100	100			
K1004814-004	100	100			
K1004814-004D	100	100			
K1004814-004S	100	100			
K1004814-005	100	100			
K1004814-006	100	100			
K1005137-003	100	100			
K1005137-003D	100	100			
K1005137-003S	100	100			
K1005137-001 DISS	100	100			
K1005137-002 DISS	100	100			
K1005137-003 DISS	100	100			
K1005137-004 DISS	100	100			
K1005137-005 DISS	100	100			
K1005137-006 DISS	100	100			
Std. 0.2	0.1 *				50
Std. 0.5	0.25 *				50
Std. 1.0	0.5 *				50
Std. 5.0	2.5 *				50
Std. 10.0	5.0 *				50
ICV	0.25 **				50

Start Time: 9:00 Finish Time: 3:00 Waterbath Temp.: 95° C
Balance#: 1

Lot # of Reagents Used: HNO ₃ : H14024 H ₂ SO ₄ : 49160 HCL: 201009101	Lot # of Reagents Used: K ₂ S ₂ O ₈ : H02H06 KMnO ₄ : H24584 SnCl ₂ : J14618	Lot # of Reagents Used: NaCl: G28620 NH ₂ OH-HCL: H51598 ERA CLP Soil: D065540
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* Source Standard: H61-92-J 100 ppb Spike = 1.0 ml * Source Standard
**Source Standard: ICV H61-91-P 1000 ppb LCSW = 0.5 ml ICV **Source Standard

Comments:

Analyst: John D Baird julia@stl Date: 5/28/10

Columbia Analytical Services
EPA METHOD 245.1

Service Request Number(s): 112652
PREP RUN:

Sample	Initial Volume	Final Volume	Sample	Initial Volume	Final Volume
MB	100	100			
LCSW	100	100			
K1004936-003	100	100			
K1004936-004	100	100			
K1004936-005	100	100			
K1004936-006	100	100			
K1004936-006D	100	100			
K1004936-006S	100	100			
K1004936-007	100	100			
K1004936-001 DISS	100	100			
K1004936-003 DISS	100	100			
K1004936-004 DISS	100	100			
K1004936-005 DISS	100	100			
K1004936-006 DISS	100	100			
K1004936-007 DISS	100	100			
K1004870-001	100	100			
K1004870-002	100	100			
K1004870-003	100	100			
K1004870-003D	100	100			
K1004870-003S	100	100			
K1004870-004	100	100			
K1005067-001 ²	100	100			
K1005067-002 ³	100	100			
K1005067-003 ⁴ _{ms}	100	100			
Std. 0.2	0.1 *				50
Std. 0.5	0.25 *				50
Std. 1.0	0.5 *				50
Std. 5.0	2.5 *				50
Std. 10.0	5.0 *				50
ICV	0.25 **				50

Start Time: 9:00 Finish Time: 3:00 Waterbath Temp.: 95° C
Balance#: 1

Lot # of Reagents Used:		
HNO ₃ : H14024	K ₂ S ₂ O ₈ : H02H06	NaCl: G28620
H ₂ SO ₄ : 49160	KMnO ₄ : H24584	NH ₂ OH-HCL: H51598
HCL: 201009101	SnCl ₂ : J14618	ERA CLP Soil: D065540

* Source Standard: H61-92-J 100 ppb Spike = 1.0 ml * Source Standard
**Source Standard: ICV H61-91-P 1000 ppb LCSW = 0.5 ml ICV **Source Standard

Comments:

Analyst: John P. Binl Michael Date: 5/28/10

Service Request # K1004870
Instrument ID# K-ICP-AES-02

ICP-OES Data Review Form

	Yes	No
1. Standardization completed	<u>✓</u>	<u> </u>
2. ICV within 10 % of true value	<u>✓</u>	<u> </u>
3. ICB below MRL	<u>✓</u>	<u> </u>
4. CRI standard analyzed.	<u>✓</u>	<u> </u>
5. ICS standards within 20% of true value	<u>✓</u>	<u> </u>
6. All preceding CCVs within 10 % of true value	<u>✓</u>	<u> </u>
7. Following CCV within 10 % of true value	<u>✓</u>	<u> </u>
8. Bracketing CCBs below MRL	<u>✓</u>	<u> </u>
9. Method Blank below MRL	<u>✓</u>	<u> </u>
10. MS-MSD or Dup-MS and LCS within CAS control limits	<u>✓</u>	<u> </u>
11. All analytes within instrument linear range	<u>✓</u>	<u> </u>
12. Adequate rinse out time allowed between samples to eliminate memory effect	<u>✓</u>	<u> </u>

Comments:

File Name: 060410AICP02

Star Lims: 203476

Primary Review by 3C Date 6/4/10

Secondary Review by mmk Date 6/4/10

Method: 2010A		Sample Name: Blank		Operator:	
Comment:					
Run Time: 06/04/10 08:26		Type: Std	Mode: IR	Corr.Fact: 1.000000	
Elem	Al2373	Sb2068	As1890	Ba2335	
Line	237.312 {141}	206.833 {162}	189.042 {177}	233.527 {144}	
Avg	.1733	.0485	.0430	-.00015	
Stddev	.0176	.0098	.0235	.00018	
%RSD	10.18	20.21	54.74	118.93	
#1	.1608	.0554	.0263	-.00002	
#2	.1857	.0416	.0596	-.00027	
Elem	Be3130	B_2497	Cd2265	Ca2112	
Line	313.042 {107}	249.773 {134}	226.502 {148}	211.276 {159}	
Avg	-.00315	.3791	.0001	.3673	
Stddev	.00031	.0441	.0001	.0059	
%RSD	9.8926	11.64	120.6	1.596	
#1	-.00293	.4103	.0002	.3632	
#2	-.00337	.3479	.0000	.3715	
Elem	Ca3179	Cr2677	Co2286	Cu3247	
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}	
Avg	-.0912	-.0002	.0003	.0442	
Stddev	.0078	.0001	.0000	.0625	
%RSD	8.594	36.46	8.184	141.4	
#1	-.0968	-.0003	.0003	.0000	
#2	-.0857	-.0002	.0003	.0884	
Elem	Fe2599	Fe2714	Pb2203	Mg2025	
Line	259.940 {129}	271.441 {124}	220.353 {152}	202.582 {166}	
Avg	.0013	.0004	.0002	.1053	
Stddev	.0002	.0002	.0000	.0235	
%RSD	16.07	55.46	6.903	22.33	
#1	.0015	.0006	.0002	.1220	
#2	.0012	.0003	.0002	.0887	
Elem	Mg2795	Mn2576	Mn2939	Mo2020	
Line	279.553 {120}	257.610 {131}	293.930 {114}	202.030 {166}	
Avg	.00967	.00101	-.0002	.0002	
Stddev	.02150	.00010	.0000	.0000	
%RSD	222.27	10.405	14.08	24.43	
#1	-.00553	.00108	-.0002	.0002	
#2	.02487	.00093	-.0002	.0002	
Elem	Ni2316	K_7664	Se1960	Ag3280	
Line	231.604 {145}	766.490 {44}	196.090 {171}	328.068 {102}	
Avg	.0000	.8957	-.0125	-.0553	
Stddev	.0002	.1918	.0020	.0625	
%RSD	964.6	21.41	15.71	113.1	
#1	.0001	1.031	-.0111	-.0111	
#2	-.0001	.7601	-.0139	-.0995	

Sample Name: Blank Run Time: 06/04/10 08:26

Elem	Na5895	Sn1899	V_3102	Zn2062
Line	589.592 { 57}	189.989 {176}	310.230 {108}	206.200 {163}
Avg	.0052	.0006	.0080	.0010
Stddev	.0004	.0001	.0002	.0002
%RSD	7.463	17.60	3.022	16.74

#1	.0049	.0005	.0082	.0011
#2	.0055	.0007	.0079	.0009

Elem	P_2149	Si2516	Ti3234	Tl1908
Line	214.914 {156}	251.612 {134}	323.452 {104}	190.864 {176}
Avg	.0256	.2065	.00371	.0000
Stddev	.0206	.0020	.00009	.000
%RSD	80.27	.9446	2.3987	27.76

#1	.0402	.2052	.00365	.0000
#2	.0111	.2079	.00378	.0000

Elem	Li6707	Sr4077
Line	670.784 { 50}	407.771 { 82}
Avg	-.01242	.00283
Stddev	.11140	.00040
%RSD	896.59	14.209

#1	.06635	.00254
#2	-.09119	.00311

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	177.94
Stddev	.96
%RSD	.53714

#1	177.27
#2	178.62

Handwritten signature and date:
 JAC
 6/4/10
 LMMR
 6/4/10

Method: 2010A Sample Name: STDB

Operator:

Comment:

Run Time: 06/04/10 08:29 Type: Std

Mode: IR

Corr.Fact: 1.000000

Elem	Al2373	Ba2335	Be3130	Ca2112
Line	237.312 {141}	233.527 {144}	313.042 {107}	211.276 {159}
Avg	18.02	2.9166	.45395	37.30
Stddev	.09	.0113	.00031	.46
%RSD	.5014	.38882	.06865	1.220

#1	17.96	2.9246	.45417	36.98
#2	18.09	2.9086	.45373	37.62

Elem	Fe2714	Mg2025	Mn2939	K_7664
Line	271.441 {124}	202.582 {166}	293.930 {114}	766.490 { 44}
Avg	.7684	53.65	.6576	173.8
Stddev	.0020	.12	.0010	1.0
%RSD	.2632	.2168	.1490	.5656

#1	.7670	53.57	.6583	174.5
#2	.7699	53.73	.6569	173.1

Elem	Na5895	P_2149	Si2516	Li6707
Line	589.592 { 57}	214.914 {156}	251.612 {134}	670.784 { 50}
Avg	3.984	42.24	87.10	325.16
Stddev	.032	.22	.37	1.73
%RSD	.7899	.5278	.4220	.53283

#1	4.007	42.08	86.84	326.38
#2	3.962	42.40	87.36	323.93

Elem	Sr4077
Line	407.771 { 82}
Avg	7.5980
Stddev	.0096
%RSD	.12641

#1	7.6048
#2	7.5912

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	176.46
Stddev	.82
%RSD	.46644

#1	175.88
#2	177.04

Method: 2010A Sample Name: STDA *ICP1-36-A* Operator:
 Comment:
 Run Time: 06/04/10 08:32 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Sb2068	As1890	B_2497	Cd2265
Line	206.833 {162}	189.042 {177}	249.773 {134}	226.502 {148}
Avg	14.72	10.58	41.99	.2946
Stddev	.15	.07	.22	.0018
%RSD	1.048	.6351	.5302	.6077

#1	14.61	10.53	41.83	.2933
#2	14.83	10.63	42.15	.2959

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	28.30	.1167	.1896	16.68
Stddev	.26	.0008	.0012	.03
%RSD	.9263	.6828	.6072	.2047

#1	28.12	.1162	.1887	16.66
#2	28.49	.1173	.1904	16.71

Elem	Fe2599	Pb2203	Mg2795	Mn2576
Line	259.940 {129}	220.353 {152}	279.553 {120}	257.610 {131}
Avg	.4072	.0897	1288.5	3.1254
Stddev	.0100	.0005	4.1	.0034
%RSD	2.450	.5621	.32068	.10904

#1	.4142	.0894	1285.6	3.1278
#2	.4001	.0901	1291.5	3.1230

Elem	Mo2020	Ni2316	Se1960	Ag3280
Line	202.030 {166}	231.604 {145}	196.090 {171}	328.068 {102}
Avg	.1548	.1734	9.288	16.38
Stddev	.0015	.0007	.014	.18
%RSD	.9580	.3822	.1522	1.092

#1	.1537	.1729	9.298	16.26
#2	.1558	.1739	9.278	16.51

Elem	Sn1899	V_3102	Zn2062	Ti3234
Line	189.989 {176}	310.230 {108}	206.200 {163}	323.452 {104}
Avg	.0846	.1448	.1577	.16661
Stddev	.0001	.0008	.0008	.00027
%RSD	.1740	.5684	.4904	.16400

#1	.0845	.1442	.1571	.16680
#2	.0847	.1454	.1582	.16642

Elem	Tl1908
Line	190.864 {176}
Avg	.0802
Stddev	.0004
%RSD	.5394

#1	.0798
#2	.0805

Sample Name: STDA Run Time: 06/04/10 08:32

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	180.02
Stddev	.07
%RSD	.04047

#1 179.97

#2 180.08

Method: 2010A Sample Name: ICV1

ICP7-37-C Operator:

Comment:

Run Time: 06/04/10 08:35 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.048	2.538	2.561	5.1829	.12319	.0001
Stddev	.014	.020	.009	.1369	.00018	.0003
%RSD	.2835	.7972	.3444	2.6417	.14875	570.5

#1	5.038	2.552	2.555	5.0861	.12332	.0003
#2	5.058	2.523	2.568	5.2797	.12306	-.0002

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	5.000	2.500	2.500	5.0000	.12500	
Range	5.000%	5.000%	5.000%	5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.265	12.69	.5127	1.255	.6152	2.468
Stddev	.007	.02	.0058	.006	.0011	.015
%RSD	.5192	.1459	1.136	.4774	.1711	.5959

#1	1.261	12.68	.5086	1.251	.6144	2.458
#2	1.270	12.71	.5168	1.259	.6159	2.479

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	12.50	.5000	1.250	.6250	2.500
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.551	12.46	1.2076	2.058	1.250	12.38
Stddev	.006	.07	.0065	.022	.009	.05
%RSD	.2401	.5570	.54138	1.078	.6902	.4343

#1	2.556	12.41	1.2030	2.043	1.244	12.42
#2	2.547	12.51	1.2122	2.074	1.256	12.35

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	12.50	1.2500	2.000	1.250	12.50
Range	5.000%	5.000%	5.0000%	5.000%	5.000%	5.000%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.541	.6250	12.02	.0138	1.251	1.271
Stddev	.020	.0045	.07	.0013	.013	.009
%RSD	.7874	.7233	.5798	9.536	1.038	.6956

#1	2.527	.6281	12.07	.0128	1.242	1.264
#2	2.555	.6218	11.97	.0147	1.260	1.277

Check ?	QC Pass	QC Pass	QC Pass	None	QC Pass	QC Pass
Value	2.500	.6250	12.50		1.250	1.250
Range	5.000%	5.000%	5.000%		5.000%	5.000%

Sample Name: ICV1 Run Time: 06/04/10 08:35

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0049	-.1457	2.0083	2.533	.00073	.00737
Stddev	.0009	.0017	.0060	.027	.00066	.00008
%RSD	18.52	1.188	.30019	1.066	89.626	1.0344

#1	-.0043	-.1470	2.0040	2.552	.00119	.00742
#2	-.0056	-.1445	2.0126	2.514	.00027	.00731

Check ?	None	None	QC Pass	QC Pass	None	None
Value			2.0000	2.500		
Range			5.0000%	5.000%		

Int. Std.	Sc3572
Units	Cts/S
Avg	179.80
Stddev	.02
%RSD	.00924

#1	179.81
#2	179.79

Method: 2010A Sample Name: ICVB1

JCP743-D

Operator:

Comment:

Run Time: 06/04/10 08:38 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9878	.0246	.0068	.00134	.00001	2.020
Stddev	.0175	.0120	.0000	.00057	.00003	.003
%RSD	1.777	49.00	.0988	42.503	311.15	.1289
#1	1.000	.0331	.0068	.00174	.00003	2.022
#2	.9754	.0161	.0068	.00093	-.00001	2.018
Check ?	None	None	None	None	None	QC Pass
Value						2.000
Range						5.000%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	5.075	.0050	.0012	-.0001	10.12
Stddev	.0000	.020	.0003	.0007	.0002	.04
%RSD	.0229	.3868	5.354	56.00	177.0	.4054
#1	.0016	5.061	.0052	.0016	.0000	10.09
#2	.0016	5.089	.0048	.0007	-.0003	10.15
Check ?	None	QC Pass	None	None	None	QC Pass
Value		5.000				10.00
Range		5.000%				5.000%
Elem	Pb2203	Mg2795	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066	4.9873	9.996	.0067	-.0010	.0048
Stddev	.0067	.0112	.013	.0051	.0010	.0036
%RSD	100.8	.22433	.1291	76.55	96.91	75.19
#1	.0113	4.9952	10.01	.0103	-.0003	.0074
#2	.0019	4.9793	9.987	.0031	-.0017	.0022
Check ?	None	QC Pass	QC Pass	None	None	None
Value		5.0000	10.00			
Range		5.0000%	5.000%			
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156	.0029	.0017	5.058	-.0020	.0007
Stddev	.0095	.0045	.0036	.000	.0009	.0018
%RSD	60.90	157.9	212.8	.0058	42.74	247.9
#1	.0089	-.0003	.0042	5.058	-.0014	.0019
#2	.0223	.0061	-.0009	5.058	-.0026	-.0005
Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 06/04/10 08:38

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.955	5.145	.00054	.0053	2.0214	1.9663
Stddev	.028	.000	.00057	.0135	.0002	.0024
%RSD	.5623	.0087	104.33	255.9	.01106	.11987
#1	4.935	5.145	.00014	.0149	2.0212	1.9680
#2	4.975	5.145	.00095	-.0043	2.0215	1.9647
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	5.000	5.000			2.0000	2.0000
Range	5.000%	5.000%			5.0000%	5.0000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	180.41					
Stddev	.26					
%RSD	.14591					
#1	180.59					
#2	180.22					

Method: 2010A Sample Name: ICB Operator:
 Comment:
 Run Time: 06/04/10 08:41 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	-.0014	.0092	.00015	.00001	.0006
Stddev	.0033	.0066	.0028	.00002	.00004	.0004
%RSD	70.28	472.7	30.28	12.361	348.03	67.63

#1	.0024	.0033	.0072	.00014	.00004	.0009
#2	.0070	-.0061	.0112	.00017	-.00002	.0003

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0002	.0008	.0003	.0002	.0054
Stddev	.0001	.0072	.0001	.0002	.0014	.0073
%RSD	18.58	2975.	11.44	59.57	858.1	135.1

#1	.0005	-.0049	.0009	.0004	-.0008	.0105
#2	.0007	.0053	.0008	.0002	.0012	.0002

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-.00007	.00124	.0005	-.0013	-.0083
Stddev	.0015	.00009	.00149	.0006	.0010	.0077
%RSD	183.0	132.65	120.59	105.3	81.57	93.42

#1	.0019	-.00013	.00229	.0001	-.0020	-.0138
#2	-.0002	.00000	.00018	.0010	-.0005	-.0028

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0022	.0017	-.0038	.0022	-.0036	-.0011
Stddev	.0021	.0010	.0018	.0052	.0003	.0006
%RSD	94.32	56.56	47.55	235.6	8.315	56.88

#1	-.0037	.0024	-.0051	.0058	-.0038	-.0015
#2	-.0007	.0010	-.0025	-.0015	-.0034	-.0006

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: ICB Run Time: 06/04/10 08:41

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066	-.0016	-.00037	.0039	.00113	-.00004
Stddev	.0052	.0008	.00182	.0041	.00044	.00012
%RSD	79.52	48.89	493.98	106.0	39.144	322.60
#1	.0029	-.0022	.00092	.0068	.00145	.00005
#2	.0103	-.0011	-.00166	.0010	.00082	-.00012
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	178.63					
Stddev	.35					
%RSD	.19352					
#1	178.88					
#2	178.39					

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 06/04/10 08:50 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.017	.0146	.0029	2.5088	.04979	-.0150
Stddev	.052	.0036	.0091	.0155	.00022	.0007
%RSD	1.046	24.94	316.9	.61641	.43639	4.669
#1	4.947	.0143	.0011	2.4971	.04948	-.0156
#2	5.023	.0096	-.0042	2.4939	.04996	-.0150
#3	5.025	.0181	-.0015	2.5207	.04991	-.0155
#4	5.074	.0162	.0162	2.5234	.04980	-.0140
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	5.000%			5.0000%	5.0000%	
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	25.43	.0032	-.0012	-.0008	25.21
Stddev	.0003	.24	.0014	.0010	.0019	.12
%RSD	10.78	.9614	42.55	83.58	235.0	.4612
#1	.0028	25.06	.0038	-.0017	-.0017	25.06
#2	.0029	25.54	.0046	-.0004	.0010	25.26
#3	.0029	25.60	.0031	-.0003	-.0031	25.17
#4	.0023	25.50	.0014	-.0024	.0005	25.33
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		5.000%				5.000%
Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0041	25.09	4.988	-.0001	-.0026	9.960
Stddev	.0076	.09	.018	.0008	.0008	.047
%RSD	185.9	.3465	.3590	717.9	32.87	.4763
#1	-.0092	24.99	4.961	-.0012	-.0032	9.995
#2	.0056	25.06	4.993	.0006	-.0021	9.920
#3	-.0109	25.20	4.994	.0003	-.0016	9.918
#4	-.0018	25.12	5.001	-.0002	-.0033	10.01
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		5.000%	5.000%			5.000%

Sample Name: CCVB Run Time: 06/04/10 08:50

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0038	.0023	9.748	.0018	.0002	.0005
Stddev	.0153	.0027	.051	.0022	.0012	.0011
%RSD	407.0	120.1	.5283	119.5	575.2	231.6

#1	.0011	.0054	9.807	-.0012	-.0007	.0000
#2	.0100	-.0003	9.740	.0029	.0015	-.0008
#3	-.0004	.0037	9.683	.0037	.0009	.0009
#4	-.0257	.0003	9.762	.0018	-.0009	.0018

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			5.000%			

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.05	2.504	.00157	-.0192	.49280	.50129
Stddev	.06	.014	.00086	.0070	.00176	.00046
%RSD	.5962	.5684	54.925	36.43	.35787	.09078

#1	9.968	2.485	.00206	-.0290	.49508	.50080
#2	10.05	2.503	.00069	-.0134	.49274	.50136
#3	10.10	2.509	.00100	-.0152	.49078	.50189
#4	10.09	2.519	.00252	-.0191	.49260	.50113

Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	178.02
Stddev	.43
%RSD	.24237

#1	177.51
#2	177.82
#3	178.33
#4	178.42

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 06/04/10 08:58 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4561	2.450	2.434	.46133	.52499	.5002
Stddev	.0181	.026	.012	.00280	.00092	.0009
%RSD	3.977	1.059	.4990	.60717	.17595	.1844

#1	.4620	2.422	2.438	.45859	.52566	.5003
#2	.4448	2.441	2.443	.46008	.52362	.5000
#3	.4386	2.484	2.440	.46512	.52530	.5014
#4	.4789	2.453	2.416	.46153	.52536	.4991

Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		5.000%	5.000%			5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4957	2.477	.4958	.4947	.4986	.4851
Stddev	.0028	.023	.0027	.0015	.0014	.0017
%RSD	.5653	.9249	.5434	.3033	.2798	.3581

#1	.4929	2.446	.4938	.4936	.4978	.4849
#2	.4940	2.484	.4974	.4933	.4998	.4830
#3	.4990	2.476	.4988	.4963	.4998	.4872
#4	.4971	2.501	.4934	.4956	.4971	.4855

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.460	1.9665	.96876	.9881	.4942	4.888
Stddev	.025	.0086	.00912	.0052	.0026	.026
%RSD	.9951	.43719	.94092	.5241	.5325	.5337

#1	2.428	1.9578	.95552	.9832	.4903	4.903
#2	2.455	1.9764	.97064	.9850	.4958	4.870
#3	2.479	1.9612	.97615	.9948	.4957	4.916
#4	2.480	1.9708	.97272	.9893	.4949	4.862

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	5.000%	5.0000%	5.0000%	5.000%	5.000%	

Sample Name: CCVA Run Time: 06/04/10 08:58

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.439	.4974	.4682	2.426	.4950	.4947
Stddev	.024	.0051	.0017	.021	.0026	.0043
%RSD	.9941	1.029	.3677	.8880	.5242	.8741
#1	2.456	.4999	.4685	2.412	.4924	.4892
#2	2.457	.5029	.4657	2.403	.4936	.4955
#3	2.405	.4959	.4696	2.440	.4955	.4997
#4	2.440	.4911	.4689	2.448	.4984	.4945
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	5.000%	5.000%		5.000%	5.000%	5.000%
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0165	.2570	.48793	4.883	.00090	.00175
Stddev	.0118	.0012	.00214	.027	.00064	.00001
%RSD	71.85	.4553	.43912	.5471	70.989	.77211
#1	-.0008	.2586	.48927	4.876	.00140	.00175
#2	-.0203	.2561	.48521	4.915	.00113	.00176
#3	-.0158	.2570	.48998	4.892	-.00004	.00175
#4	-.0291	.2561	.48728	4.851	.00112	.00173
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			5.0000%	5.000%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.70					
Stddev	.43					
%RSD	.23409					
#1	181.45					
#2	182.29					
#3	181.34					
#4	181.73					

Method: 2010A	Sample Name: CCB	Operator:			
Comment:					
Run Time: 06/04/10 09:04	Type: QC	Mode: CONC	Corr.Fact: 1.000000		
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0109	.0179	.0079	.00047	.00007
Stddev	.0209	.0073	.0046	.00029	.00001
%RSD	191.9	40.91	58.88	61.064	15.793
#1	-.0256	.0230	.0112	.00067	.00007
#2	.0039	.0127	.0046	.00027	.00006
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0005	.0075	-.0005	-.0001
Stddev	.0003	.0004	.0003	.0001	.0004
%RSD	28.33	72.49	4.543	10.44	531.2
#1	.0011	.0008	.0078	-.0005	.0002
#2	.0007	.0002	.0073	-.0006	-.0003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0011	.0045	.00010	.00070
Stddev	.0012	.0020	.0012	.00005	.00044
%RSD	352.9	178.4	26.16	49.087	63.098
#1	-.0012	.0026	.0053	.00006	.00102
#2	.0005	-.0003	.0036	.00013	.00039
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0013	-.0001	-.0022	.0045	.0003
Stddev	.0006	.0010	.0027	.0137	.0033
%RSD	48.53	1433.	121.6	306.3	990.0
#1	.0017	-.0008	-.0003	-.0052	-.0020
#2	.0008	.0006	-.0042	.0142	.0027
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 06/04/10 09:04

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0029	-.0027	-.0011	-.0001	.0036
Stddev	.0051	.0087	.0024	.0015	.0029
%RSD	175.5	319.2	216.4	1717.	81.03
#1	-.0065	.0034	-.0028	-.0011	.0015
#2	.0007	-.0089	.0006	.0009	.0056
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0043	.00026	-.0106	.00022	.00002
Stddev	.0018	.00007	.0028	.00038	.00007
%RSD	42.12	27.641	26.18	177.51	388.50
#1	-.0030	.00031	-.0086	-.00006	.00007
#2	-.0055	.00021	-.0126	.00049	-.00003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572				
Units	Cts/S				
Avg	178.89				
Stddev	.51				
%RSD	.28785				
#1	179.25				
#2	178.53				

Method: 2010A Sample Name: CRI *ICP741-A* Operator:
 Comment:
 Run Time: 06/04/10 09:07 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0498	.0485	.0766	.00506	.00450	.0487
Stddev	.0363	.0040	.0051	.00025	.00004	.0011
%RSD	73.04	8.325	6.594	4.8957	.85186	2.257
#1	.0241	.0456	.0802	.00523	.00447	.0479
#2	.0754	.0513	.0731	.00488	.00453	.0494
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	100.0%	100.0%	100.00%	100.00%	100.0%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.0462	.0050	.0097	.0100	.0220
Stddev	.0006	.0048	.0015	.0006	.0014	.0008
%RSD	11.10	10.41	29.46	5.972	14.12	3.737
#1	.0051	.0428	.0040	.0093	.0090	.0214
#2	.0060	.0496	.0061	.0102	.0110	.0226
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0504	.01781	.00490	.0082	.0191	.3768
Stddev	.0045	.00028	.00009	.0011	.0001	.0128
%RSD	8.905	1.5584	1.9321	12.94	.5748	3.408
#1	.0536	.01761	.00484	.0075	.0192	.3677
#2	.0472	.01800	.00497	.0090	.0190	.3859
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	100.0%	100.00%	100.00%	100.0%	100.0%	100.0%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0797	.0108	.2059	.0347	.0045	.0091
Stddev	.0042	.0000	.0024	.0045	.0002	.0002
%RSD	5.221	.0087	1.158	12.87	3.434	1.748
#1	.0827	.0108	.2075	.0378	.0046	.0092
#2	.0768	.0108	.2042	.0315	.0044	.0089
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sample Name: CRI Run Time: 06/04/10 09:07

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1807	.3858	.00898	.1552	.01035	.00876
Stddev	.0081	.0067	.00106	.0012	.00014	.00008
%RSD	4.503	1.741	11.857	.7973	1.3267	.94698
#1	.1749	.3810	.00823	.1560	.01026	.00871
#2	.1864	.3905	.00973	.1543	.01045	.00882
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.2000	.01000	.01000
Range	100.0%	100.0%	100.00%	100.0%	100.00%	100.00%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	180.53					
Stddev	.02					
%RSD	.01306					
#1	180.55					
#2	180.52					

Method: 2010A

Sample Name: ICSA

ICP7-43-B Operator:

Comment:

Run Time: 06/04/10 09:10 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	509.2	.0602	-.0057	-.00021	.00009	-.1592
Stddev	1.1	.0179	.0207	.00005	.00016	.0093
%RSD	.2207	29.72	364.3	26.079	172.91	5.855

#1	508.4	.0475	-.0203	-.00017	-.00002	-.1526
#2	510.0	.0728	.0090	-.00025	.00021	-.1658

Check ?	QC Pass	None	None	None	None	None
Value	500.0					
Range	20.00%					

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093	494.6	-.0006	.0005	.0012	202.3
Stddev	.0005	3.1	.0007	.0001	.0022	5.8
%RSD	5.401	.6242	122.1	23.00	182.8	2.869

#1	.0097	492.4	-.0001	.0004	-.0004	198.1
#2	.0090	496.8	-.0011	.0006	.0028	206.4

Check ?	None	QC Pass	None	None	None	QC Pass
Value		500.0				200.0
Range		20.00%				20.00%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	526.6	.00403	.0053	-.0043	-.0360
Stddev	.0003	.8	.00060	.0024	.0007	.0077
%RSD	29.44	.1526	14.985	45.54	16.07	21.36

#1	.0011	526.0	.00360	.0070	-.0038	-.0415
#2	.0007	527.2	.00446	.0036	-.0048	-.0306

Check ?	None	QC Pass	None	None	None	None
Value		500.0				
Range		20.00%				

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0419	-.0030	.1073	-.0166	.0002	.0059
Stddev	.0004	.0014	.0016	.0150	.0020	.0015
%RSD	.9915	47.03	1.501	90.02	842.0	25.99

#1	.0416	-.0020	.1062	-.0272	.0016	.0048
#2	.0422	-.0041	.1085	-.0060	-.0012	.0070

Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ICSA Run Time: 06/04/10 09:10

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215	-.0124	.01224	-.0515	.01268	.02751
Stddev	.0379	.0011	.00224	.0217	.00054	.00150
%RSD	176.6	8.799	18.289	42.12	4.2665	5.4371

#1	.0482	-.0132	.01066	-.0668	.01230	.02645
#2	-.0053	-.0117	.01382	-.0362	.01307	.02856

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	165.11
Stddev	3.70
%RSD	2.2401

#1	167.72
#2	162.49

Method: 2010A Sample Name: ICSAB *ICP7-38-C* Operator:
 Comment:
 Run Time: 06/04/10 09:13 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	506.9	1.078	-.0014	.47506	.53428	-.1546
Stddev	.1	.014	.0027	.00075	.00153	.0007
%RSD	.0117	1.292	196.1	.15724	.28549	.4333

#1	506.8	1.068	.0005	.47454	.53536	-.1551
#2	506.9	1.087	-.0033	.47559	.53320	-.1542

Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9792	488.2	.4970	.4864	.4701	199.3
Stddev	.0017	2.6	.0017	.0010	.0020	1.4
%RSD	.1748	.5279	.3412	.2135	.4195	.6923

#1	.9804	486.3	.4958	.4857	.4687	200.3
#2	.9780	490.0	.4982	.4871	.4715	198.3

Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.006	518.2	.45969	.0044	.9552	-.0612
Stddev	.021	2.7	.00043	.0000	.0014	.0129
%RSD	2.079	.5277	.09369	.8862	.1492	21.05

#1	1.021	516.3	.45938	.0043	.9542	-.0521
#2	.9913	520.1	.45999	.0044	.9562	-.0703

Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.9856	.0470	-.0117	.5057	.9641
Stddev	.0473	.0043	.0026	.0104	.0003	.0043
%RSD	3092.	.4350	5.537	88.92	.0512	.4499

#1	-.0319	.9825	.0451	-.0043	.5056	.9610
#2	.0350	.9886	.0488	-.0191	.5059	.9672

Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

Sample Name: ICSAB Run Time: 06/04/10 09:13

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0130	-.0028	.01354	-.0624	.01245	.02924
Stddev	.0203	.0020	.00279	.0098	.00001	.00064
%RSD	155.6	72.90	20.598	15.66	.09607	2.2052

#1	-.0274	-.0014	.01551	-.0555	.01246	.02969
#2	.0013	-.0042	.01157	-.0693	.01244	.02878

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	164.49
Stddev	.74
%RSD	.44743

#1	163.96
#2	165.01

Method: 2010A Sample Name: ICSAB

Operator:

Comment:

Run Time: 06/04/10 09:16 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	508.0	1.073	.0004	.47300	.53387	-.1571
Stddev	1.3	.016	.0117	.00297	.00156	.0035
%RSD	.2539	1.477	3160.	.62875	.29189	2.238

#1	507.1	1.062	-.0079	.47090	.53277	-.1547
#2	508.9	1.084	.0087	.47510	.53440	-.1596

Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9779	487.7	.5005	.4879	.4733	198.8
Stddev	.0058	2.5	.0097	.0036	.0029	2.7
%RSD	.5957	.5105	1.931	.7466	.6222	1.345

#1	.9737	486.0	.4936	.4853	.4754	196.9
#2	.9820	489.5	.5073	.4905	.4712	200.7

Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9971	519.9	.45936	.0029	.9472	-.0692
Stddev	.0163	2.1	.00157	.0030	.0077	.0142
%RSD	1.630	.3999	.34106	101.7	.8087	20.58

#1	.9857	521.4	.45825	.0008	.9418	-.0793
#2	1.009	518.4	.46047	.0051	.9526	-.0591

Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105	.9919	.0476	-.0190	.5038	.9562
Stddev	.0261	.0077	.0059	.0001	.0090	.0071
%RSD	248.3	.7771	12.40	.7008	1.786	.7455

#1	.0289	.9865	.0434	-.0191	.4974	.9512
#2	-.0079	.9974	.0517	-.0190	.5102	.9613

Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

3L
6/14/10

Sample Name: ICSAB Run Time: 06/04/10 09:16

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067	-.0057	.01487	-.0870	.01304	.02898
Stddev	.0123	.0020	.00329	.0251	.00012	.00003
%RSD	183.7	34.53	22.145	28.84	.91207	.08966
#1	.0154	-.0043	.01254	-.1048	.01312	.02896
#2	-.0020	-.0071	.01720	-.0693	.01295	.02900
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	164.98					
Stddev	.39					
%RSD	.23391					
#1	165.25					
#2	164.71					

*3C
6/4/10*

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 06/04/10 09:19 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.108	.0082	.0044	2.5092	.04974	-.0153
Stddev	.004	.0007	.0009	.0027	.00030	.0003
%RSD	.0854	8.442	20.72	.10547	.60010	1.706

#1	5.105	.0087	.0050	2.5111	.04953	-.0155
#2	5.112	.0077	.0037	2.5073	.04995	-.0151

Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	25.58	.0040	-.0018	.0000	25.27
Stddev	.0000	.13	.0004	.0008	.0031	.08
%RSD	1.190	.5225	9.308	44.39	33320.	.3245

#1	.0021	25.48	.0043	-.0024	-.0022	25.21
#2	.0021	25.67	.0038	-.0013	.0022	25.33

Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0096	25.14	4.980	-.0015	-.0042	9.900
Stddev	.0123	.15	.007	.0017	.0010	.068
%RSD	127.7	.6020	.1360	116.3	23.81	.6820

#1	-.0183	25.03	4.976	-.0003	-.0035	9.947
#2	-.0009	25.24	4.985	-.0027	-.0050	9.852

Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0019	9.693	.0016	.0005	.0011
Stddev	.0147	.0012	.134	.0075	.0029	.0004
%RSD	3577.	64.16	1.382	461.3	638.6	34.14

#1	-.0108	-.0010	9.788	-.0037	-.0016	.0014
#2	.0100	-.0027	9.598	.0070	.0025	.0009

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 06/04/10 09:19

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.04	2.508	.00158	-.0075	.49140	.48661
Stddev	.01	.017	.00000	.0028	.00482	.00077
%RSD	.1397	.6925	.03423	37.06	.98159	.15819
#1	10.03	2.496	.00158	-.0094	.49481	.48606
#2	10.05	2.520	.00158	-.0055	.48798	.48715
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	178.34					
Stddev	.03					
%RSD	.01719					
#1	178.36					
#2	178.32					

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 06/04/10 09:22 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4743	2.451	2.431	.46105	.52559	.5009
Stddev	.0086	.054	.004	.00026	.00115	.0039
%RSD	1.812	2.200	.1777	.05665	.21894	.7797
#1	.4682	2.413	2.428	.46086	.52640	.4981
#2	.4804	2.489	2.434	.46123	.52478	.5036
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4942	2.476	.4933	.4947	.4975	.5049
Stddev	.0008	.029	.0006	.0005	.0037	.0206
%RSD	.1558	1.155	.1267	.1023	.7340	4.081
#1	.4948	2.496	.4929	.4951	.5001	.5195
#2	.4937	2.456	.4938	.4944	.4950	.4903
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.454	1.9815	.96444	.9818	.4930	4.898
Stddev	.010	.0027	.00518	.0138	.0017	.045
%RSD	.3980	.13428	.53667	1.401	.3497	.9266
#1	2.447	1.9797	.96078	.9720	.4918	4.866
#2	2.461	1.9834	.96810	.9915	.4942	4.930
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.455	.4977	.4664	2.407	.4932	.4933
Stddev	.020	.0012	.0001	.018	.0017	.0027
%RSD	.8262	.2406	.0174	.7503	.3540	.5532
#1	2.441	.4968	.4663	2.394	.4944	.4913
#2	2.470	.4985	.4664	2.419	.4920	.4952
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 06/04/10 09:22

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0228	.2530	.49053	4.854	.00082	.00178
Stddev	.0001	.0003	.00842	.015	.00082	.00000
%RSD	.6058	.0994	1.7175	.3113	99.659	.15291
#1	-.0229	.2532	.49649	4.843	.00140	.00177
#2	-.0227	.2529	.48458	4.865	.00024	.00178
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	182.29
Stddev	.89
%RSD	.48578

#1	181.66
#2	182.92

Method: 2010A	Sample Name: CCB	Operator:			
Comment:					
Run Time: 06/04/10 09:25	Type: QC	Mode: CONC	Corr.Fact: 1.000000		
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0148	.0029	.0046	.00086	.00010
Stddev	.0022	.0180	.0046	.00018	.00009
%RSD	14.73	629.3	101.0	21.172	93.430
#1	-.0132	.0156	.0079	.00098	.00003
#2	-.0163	-.0098	.0013	.00073	.00017
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0006	-.0073	.0012	-.0007
Stddev	.0004	.0001	.0076	.0002	.0008
%RSD	151.8	20.55	103.7	14.86	108.1
#1	.0006	.0006	-.0019	.0014	-.0013
#2	.0000	.0005	-.0127	.0011	-.0002
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0033	-.0014	.00034	.00075
Stddev	.0016	.0011	.0040	.00015	.00022
%RSD	330.6	31.75	296.6	42.992	29.772
#1	-.0017	.0041	.0015	.00024	.00091
#2	.0007	.0026	-.0042	.00044	.00059
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0028	-.0008	-.0355	-.0134	.0015
Stddev	.0019	.0008	.0245	.0011	.0021
%RSD	69.24	99.33	68.99	7.893	141.6
#1	.0042	-.0002	-.0527	-.0127	.0030
#2	.0014	-.0013	-.0182	-.0142	.0000
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 06/04/10 09:25

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	.0030	-.0012	-.0005	.0058
Stddev	.0013	.0015	.0001	.0006	.0031
%RSD	42.01	48.50	5.816	128.5	53.11

#1	-.0040	.0041	-.0012	.0000	.0080
#2	-.0021	.0020	-.0013	-.0009	.0037

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.00107	.0058	.00086	.00000
Stddev	.0004	.00085	.0068	.00037	.0000
%RSD	51.62	79.721	117.1	43.155	938.31

#1	-.0005	-.00167	.0107	.00113	.00001
#2	-.0010	-.00047	.0010	.00060	-.00001

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	178.97
Stddev	.80
%RSD	.44837

#1	178.41
#2	179.54

Method:	2010A	Sample Name:	K1004870-MB	Operator:	JC
Comment:		(203476)	(060410A)		
Run Time:	06/04/10 09:31	Type:	Unk	Mode:	CONC
				Corr.Fact:	1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	-.0066	-.0010	.00033	.00000
#1	-.0179	-.0080	.0000	.00018	-.00004
#2	.0131	-.0052	-.0020	.00048	.00004
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0004	.0024	.0008	-.0003
#1	-.0008	.0009	-.0019	.0008	-.0001
#2	.0000	-.0001	.0068	.0008	-.0006
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0015	.0029	.00045	.00001
#1	-.0003	.0020	.0079	.00027	.00001
#2	.0013	.0011	-.0020	.00063	.00001
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	-.0012	-.0224	.0030	-.0007
#1	-.0020	-.0006	-.0201	.0022	.0007
#2	-.0013	-.0017	-.0246	.0037	-.0020
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0098	-.0033	-.0037	-.0016	.2567
#1	-.0100	-.0003	-.0036	-.0013	.2662
#2	-.0097	-.0062	-.0039	-.0020	.2471
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0028	.00015	.0076	.00074	-.00008
#1	-.0018	.00217	.0068	.00118	-.00011
#2	-.0038	-.00186	.0084	.00029	-.00005
Int. Std.	Sc3572				
Units	Cts/S				
Avg	186.21				
#1	179.49				
#2	192.94				

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1004870 (203476) (060410A)
 Run Time: 06/04/10 09:34 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.024	2.640	2.550	5.0842	.12305	1.028
#1	5.019	2.647	2.545	5.0974	.12307	1.027
#2	5.030	2.633	2.555	5.0709	.12303	1.028
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.256	12.61	.5144	1.254	.6230	2.465
#1	1.254	12.59	.5148	1.253	.6265	2.465
#2	1.257	12.63	.5140	1.255	.6194	2.466
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.495	12.51	1.2289	1.003	1.247	12.45
#1	2.485	12.55	1.2239	.9998	1.247	12.46
#2	2.504	12.48	1.2340	1.007	1.246	12.45
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.531	.6264	12.35	-.0024	1.242	1.262
#1	2.509	.6220	12.35	-.0030	1.240	1.258
#2	2.552	.6308	12.35	-.0017	1.244	1.265
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2048	.0111	.00089	2.468	.00077	.00747
#1	.2022	.0105	.00014	2.443	.00064	.00748
#2	.2075	.0117	.00163	2.494	.00091	.00747
Int. Std.	Sc3572					
Units	Cts/S					
Avg	179.24					
#1	179.13					
#2	179.36					

Method: 2010A Sample Name: K1004870-004 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:37 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094	-.0004	-.0058	.05590	.00001	.0040
#1	.0163	-.0004	-.0038	.05597	.00002	.0039
#2	.0024	-.0004	-.0077	.05583	.00000	.0040
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	22.07	.0001	.0004	.0004	.1016
#1	.0007	21.99	.0003	.0003	.0015	.1023
#2	.0004	22.15	-.0001	.0004	-.0007	.1008
Elem	Pb2203	Mg2025	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	9.208	8.8631	.02137	.0053	-.0007
#1	.0055	9.223	8.8543	.02127	.0058	-.0001
#2	.0000	9.194	8.8718	.02148	.0049	-.0014
Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.322	.0030	.0024	11.31	-.0057	-.0012
#1	3.331	.0112	.0040	11.31	-.0062	-.0016
#2	3.313	-.0052	.0007	11.31	-.0051	-.0008
Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.2751	38.14	.00174	.0076	.01038
#1	.0025	.2715	38.05	.00186	.0095	.01024
#2	.0018	.2787	38.22	.00161	.0057	.01051
Elem	Sr4077					
Units	ppm					
Avg	.09767					
#1	.09747					
#2	.09788					
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.33					
#1	181.78					
#2	180.89					

DON'T
 REPORT
 6/4/10

Method: 2010A Sample Name: K1004870-004D Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:40 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0054	-.0079	-.0054	.05543	-.00002

#1	-.0038	-.0145	-.0051	.05482	-.00003
#2	-.0069	-.0013	-.0058	.05605	-.00002

Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0026	.0008	22.02	-.0016	.0011

#1	.0027	.0006	21.93	-.0013	.0013
#2	.0026	.0010	22.11	-.0018	.0008

Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mg2795
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	.1002	.0101	9.174	8.7707

#1	-.0027	.1011	.0112	9.145	8.7440
#2	-.0012	.0993	.0090	9.202	8.7975

*Don't report
SC
6/4/10*

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02123	.0035	-.0019	3.314	.0007

#1	.02118	.0028	-.0017	3.341	.0037
#2	.02129	.0043	-.0021	3.287	-.0022

Elem	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0020	11.34	-.0110	-.0020	.0006

#1	.0007	11.42	-.0124	-.0013	.0005
#2	.0034	11.26	-.0097	-.0026	.0007

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm
Avg	.2730	37.89	.00183	-.0001	.01115

#1	.2785	37.74	.00073	.0038	.01176
#2	.2675	38.04	.00292	-.0039	.01054

Elem	Sr4077
Units	ppm
Avg	.09708

#1	.09713
#2	.09704

Int. Std.	Sc3572
Units	Cts/S
Avg	180.65

#1	180.40
#2	180.90

Method: 2010A Sample Name: K1004870-004L Operator: JC
 Comment: 1/5 (203476) (060410A)
 Run Time: 06/04/10 09:43 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0210	.0042	-.0035	.01162	.00002
#1	-.0101	.0004	.0028	.01174	.00000
#2	-.0318	.0080	-.0097	.01150	.00004
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0003	4.262	.0018	.0003
#1	-.0009	.0003	4.264	.0018	.0001
#2	.0008	.0003	4.260	.0018	.0005
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0231	-.0021	1.8137	.00429
#1	.0002	.0238	.0005	1.8163	.00439
#2	.0002	.0225	-.0047	1.8111	.00419
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	-.0015	.6143	.0052	-.0027
#1	-.0009	-.0013	.6222	.0022	.0003
#2	-.0004	-.0016	.6065	.0082	-.0057
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.132	-.0047	-.0031	.0005	.0670
#1	2.136	-.0073	-.0019	.0005	.0516
#2	2.127	-.0021	-.0043	.0004	.0824
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	6.990	.00069	.0156	.00221	.01969
#1	6.980	.00190	.0299	.00211	.01971
#2	7.000	-.00052	.0012	.00231	.01967
Int. Std.	Sc3572				
Units	Cts/S				
Avg	181.16				
#1	180.53				
#2	181.78				

Method: 2010A Sample Name: K1004870-004S Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:46 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.977	.4789	.9998	2.1327	.04885	1.027
#1	1.961	.4746	.9892	2.1419	.04896	1.026
#2	1.994	.4832	1.010	2.1236	.04873	1.028
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0517	32.06	.2058	.5022	.2394	1.090
#1	.0518	32.03	.2054	.5019	.2384	1.091
#2	.0517	32.08	.2062	.5024	.2405	1.089
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5026	19.17	.48996	1.016	.4967	13.08
#1	.4997	19.11	.48981	1.010	.4946	13.07
#2	.5056	19.22	.49012	1.022	.4989	13.10
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9710	.0488	37.77	.0060	.5014	.5151
#1	.9576	.0496	37.77	.0016	.4962	.5151
#2	.9845	.0480	37.76	.0103	.5067	.5151
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2936	48.95	.00202	.9616	.01096	.10060
#1	.2909	48.80	.00015	.9630	.01050	.10073
#2	.2963	49.11	.00389	.9601	.01143	.10048
Int. Std.	Sc3572					
Units	Cts/S					
Avg	177.86					
#1	177.59					
#2	178.13					

Method:	2010A	Sample Name:	K1004870-001	Operator:	JC
Comment:		(203476)	(060410A)		
Run Time:	06/04/10 09:49	Type:	Unk	Mode:	CONC
				Corr.Fact:	1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0020	-.0020	.0068	.15086	.00007
#1	-.0012	-.0019	.0025	.15089	.00011
#2	-.0027	-.0020	.0111	.15084	.00003
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.0014	29.28	.0002	.0000
#1	.0023	.0009	29.22	-.0003	-.0003
#2	.0013	.0018	29.33	.0008	.0002
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	6.570	-.0048	12.72	.73986
#1	.0008	6.530	-.0124	12.74	.74131
#2	-.0015	6.609	.0027	12.69	.73840
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0151	.0001	6.408	.0071	-.0055
#1	.0174	.0013	6.369	.0190	-.0060
#2	.0127	-.0010	6.447	-.0048	-.0050
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	17.07	.0028	-.0010	.0055	.2369
#1	17.03	.0017	-.0012	.0050	.2351
#2	17.11	.0040	-.0008	.0060	.2388
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	27.61	.00003	-.0216	.01656	.14705
#1	27.56	.00002	-.0043	.01656	.14688
#2	27.66	.00003	-.0389	.01657	.14722
Int. Std.	Sc3572				
Units	Cts/S				
Avg	180.03				
#1	180.06				
#2	180.01				

Method: 2010A Sample Name: K1004870-002 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:52 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5290	-.0035	-.0158	.05526	.00012	.0053
#1	.5111	-.0086	-.0194	.05506	.00007	.0050
#2	.5469	.0017	-.0121	.05546	.00017	.0057
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	29.63	.0027	.0034	.0007	1.727
#1	.0008	29.57	.0018	.0036	.0007	1.725
#2	.0007	29.69	.0037	.0033	.0007	1.729
Elem	Pb2203	Mg2025	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	9.437	8.9636	.15014	.0162	.0093
#1	.0092	9.390	8.9494	.15000	.0158	.0082
#2	-.0059	9.484	8.9778	.15029	.0165	.0105
Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.878	.0061	.0003	16.99	.0005	.0025
#1	3.853	.0113	.0003	16.94	.0024	.0005
#2	3.903	.0009	.0003	17.03	-.0013	.0044
Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100	.2703	34.89	.01118	-.0084	.01453
#1	.0093	.2690	34.81	.01189	-.0074	.01429
#2	.0108	.2716	34.97	.01048	-.0093	.01477
Elem	Sr4077					
Units	ppm					
Avg	.13667					
#1	.13729					
#2	.13606					
Int. Std.	Sc3572					
Units	Cts/S					
Avg	180.36					
#1	180.14					
#2	180.58					

Method:	2010A	Sample Name:	K1004870-003	Operator:	JC
Comment:		(203476)	(060410A)		
Run Time:	06/04/10 09:55	Type:	Unk	Mode:	CONC
				Corr.Fact:	1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0139	.0062	.0312	.17851	-.00003
#1	.0008	.0034	.0355	.17724	-.00002
#2	-.0287	.0090	.0270	.17977	-.00004
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0028	.0015	73.77	.0013	-.0005
#1	.0028	.0009	73.53	.0016	-.0012
#2	.0028	.0020	74.00	.0010	.0001
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0299	-.0003	29.11	.02865
#1	-.0008	.0307	-.0058	28.96	.02850
#2	-.0022	.0292	.0051	29.25	.02880
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0562	-.0013	6.037	.0097	-.0025
#1	.0554	-.0009	6.039	.0186	-.0003
#2	.0571	-.0017	6.035	.0007	-.0047
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	49.56	-.0048	-.0005	.0001	.2342
#1	49.80	-.0083	-.0011	.0002	.2392
#2	49.32	-.0014	.0002	.0000	.2292
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	23.77	-.00038	-.0032	.01207	.38975
#1	23.68	.00015	-.0062	.01208	.39030
#2	23.85	-.00090	-.0003	.01206	.38920
Int. Std.	Sc3572				
Units	Cts/S				
Avg	177.98				
#1	177.63				
#2	178.34				

Method: 2010A Sample Name: K1004870-005 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:58 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2004	-.0047	-.0010	.16874	.00002	.0149
#1	.2074	-.0051	-.0013	.16917	.00007	.0147
#2	.1935	-.0042	-.0006	.16832	-.00002	.0152
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	108.1	.0007	-.0003	-.0010	.2592
#1	.0017	107.8	.0007	-.0012	-.0017	.2603
#2	.0011	108.4	.0007	.0006	-.0003	.2581
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	36.60	.02848	.0017	-.0012	9.059
#1	-.0062	36.55	.02857	.0013	-.0019	9.109
#2	.0003	36.65	.02838	.0020	-.0006	9.009
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038	.0005	84.92	.0025	.0014	.0015
#1	-.0037	.0007	85.71	.0000	.0031	.0008
#2	.0112	.0003	84.12	.0051	-.0002	.0021
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2733	19.82	.01071	-.0025	.01226	.51550
#1	.2771	19.86	.01077	.0063	.01228	.51731
#2	.2694	19.79	.01065	-.0112	.01224	.51369
Int. Std.	Sc3572					
Units	Cts/S					
Avg	177.00					
#1	176.02					
#2	177.97					

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 06/04/10 10:01 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.064	.0054	.0103	2.4965	.04958	-.0155
Stddev	.005	.0113	.0009	.0231	.00020	.0009
%RSD	.1092	207.8	8.813	.92681	.39925	5.785
#1	5.060	.0134	.0110	2.4801	.04972	-.0148
#2	5.068	-.0026	.0097	2.5128	.04944	-.0161
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	25.88	.0021	-.0022	-.0028	25.31
Stddev	.0005	.26	.0027	.0009	.0023	.17
%RSD	21.37	1.009	124.5	39.21	83.30	.6519
#1	.0020	25.70	.0003	-.0028	-.0012	25.19
#2	.0027	26.07	.0040	-.0016	-.0045	25.42
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%
Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0034	25.35	4.958	.0011	-.0042	9.949
Stddev	.0101	.05	.013	.0005	.0003	.117
%RSD	298.2	.1858	.2732	45.87	6.355	1.171
#1	-.0105	25.32	4.948	.0007	-.0044	9.867
#2	.0037	25.38	4.967	.0014	-.0040	10.03
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0020	9.755	.0088	-.0018	.0012
Stddev	.0042	.0038	.046	.0010	.0002	.0002
%RSD	1025.	188.8	.4701	10.93	10.74	14.70
#1	-.0034	-.0007	9.723	.0081	-.0017	.0011
#2	.0026	.0047	9.788	.0094	-.0020	.0013
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 06/04/10 10:01

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.09	2.516	.00304	-.0121	.49501	.49956
Stddev	.02	.001	.00145	.0205	.00465	.00131
%RSD	.1897	.0544	47.919	168.9	.93880	.26219
#1	10.08	2.515	.00201	-.0266	.49172	.49863
#2	10.11	2.517	.00407	.0024	.49829	.50048
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	179.43					
Stddev	.10					
%RSD	.05814					
#1	179.35					
#2	179.50					

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 06/04/10 10:04 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4448	2.458	2.453	.46133	.52543	.5002
Stddev	.0043	.019	.033	.00217	.00015	.0021
%RSD	.9663	.7730	1.342	.47082	.02811	.4221
#1	.4479	2.445	2.430	.45980	.52533	.4987
#2	.4418	2.472	2.477	.46287	.52554	.5017
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4958	2.489	.4960	.4945	.4955	.5053
Stddev	.0032	.039	.0032	.0027	.0053	.0188
%RSD	.6441	1.576	.6439	.5378	1.065	3.725
#1	.4936	2.461	.4938	.4926	.4918	.5186
#2	.4981	2.517	.4983	.4964	.4993	.4920
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.442	1.9863	.96368	.9806	.4945	4.898
Stddev	.045	.0075	.00517	.0043	.0018	.006
%RSD	1.840	.37606	.53623	.4429	.3623	.1210
#1	2.410	1.9810	.96734	.9775	.4933	4.902
#2	2.474	1.9916	.96003	.9836	.4958	4.893
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.463	.4928	.4671	2.416	.4909	.4912
Stddev	.007	.0067	.0059	.009	.0001	.0012
%RSD	.2712	1.351	1.263	.3601	.0114	.2420
#1	2.458	.4881	.4713	2.410	.4908	.4921
#2	2.468	.4975	.4630	2.422	.4909	.4904
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 06/04/10 10:04

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0253	.2629	.49103	4.872	.00062	.00191
Stddev	.0032	.0045	.00080	.022	.00001	.00001
%RSD	12.65	1.696	.16239	.4614	1.9514	.30360
#1	-.0275	.2661	.49159	4.856	.00062	.00191
#2	-.0230	.2598	.49046	4.888	.00061	.00191
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.41					
Stddev	.19					
%RSD	.10302					
#1	182.28					
#2	182.54					

Method: 2010A	Sample Name: CCB		Operator:		
Comment:					
Run Time: 06/04/10 10:07	Type: QC	Mode: CONC	Corr.Fact: 1.000000		
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.0038	-.0010	.00059	.00011
Stddev	.0121	.0047	.0042	.00007	.00004
%RSD	384.3	124.0	420.9	12.034	33.577
#1	.0054	.0071	-.0040	.00064	.00014
#2	-.0117	.0005	.0020	.00054	.00008
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0006	-.0044	.0008	-.0003
Stddev	.001	.0001	.0007	.0007	.0009
%RSD	1683.	18.72	15.53	78.38	321.0
#1	.0005	.0007	-.0049	.0004	-.0009
#2	-.0006	.0005	-.0039	.0013	.0004
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0037	-.0068	.00268	.00082
Stddev	.0018	.0019	.0073	.00032	.00006
%RSD	712.6	50.26	107.6	12.052	7.4675
#1	-.0010	.0051	-.0120	.00245	.00087
#2	.0015	.0024	-.0016	.00290	.00078
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0023	-.0003	-.0325	-.0067	.0017
Stddev	.0023	.0003	.0133	.0063	.0038
%RSD	97.54	84.08	40.99	94.33	225.9
#1	.0040	-.0001	-.0231	-.0022	-.0010
#2	.0007	-.0005	-.0419	-.0112	.0044
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 06/04/10 10:07

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0025	.0099	-.0022	-.0004	.0069
Stddev	.0010	.0008	.0026	.0002	.0036
%RSD	38.38	8.273	117.8	45.36	51.78

#1	-.0018	.0105	-.0004	-.0005	.0094
#2	-.0032	.0093	-.0040	-.0003	.0044

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0025	.00023	.0116	.00154	.00009
Stddev	.0027	.00086	.0150	.00014	.00005
%RSD	109.5	376.19	129.2	8.9466	56.574

#1	-.0006	-.00038	.0223	.00164	.00012
#2	-.0045	.00084	.0010	.00144	.00005

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	179.10
Stddev	.67
%RSD	.37426

#1	178.63
#2	179.57

K1004870

Service Request # K1005067 BGL
Instrument ID# K-ICP-AES-03
6/8/10

ICP-OES Data Review Form

	Yes	No
1. Standardization completed	<u> / </u>	<u> </u>
2. ICV within 10 % of true value	<u> / </u>	<u> </u>
3. ICB below MRL	<u> / </u>	<u> </u>
4. CRI standard analyzed.	<u> / </u>	<u> </u>
5. ICS standards within 20% of true value	<u> / </u>	<u> </u>
6. All preceding CCVs within 10 % of true value	<u> / </u>	<u> </u>
7. Following CCV within 10 % of true value	<u> / </u>	<u> </u>
8. Bracketing CCBs below MRL	<u> / </u>	<u> </u>
9. Method Blank below MRL	<u> / </u>	<u> </u>
10. MS-MSD or Dup-MS and LCS within CAS control limits	<u> / </u>	<u> </u>
11. All analytes within instrument linear range	<u> / </u>	<u> </u>
12. Adequate rinse out time allowed between samples to eliminate memory effect	<u> / </u>	<u> </u>

Comments:
StarLIMS Run # 203750 Saved under 060710DICP03
NR LL Al, Ca, Fe, Mg. NR Cu2247.
Report Al3944, Ca3158, Cu3273, Mg2852, Zn2062.

Primary Review by mmr Date 6/8/10
Secondary Review by gl Date 6/8/10

Sample Name: BLK Acquired: 6/7/2010 18:24:28 Type: Cal

Method: 2010b2007(v6) Mode: IR Corr. Factor: 1.000000

User: admin : : :

Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0021	-42.14	2.778	3.417	.0077	1.7999	R 29.85
Stddev	.0004	18.15	1.002	.207	.0009	2.3336	2.83
%RSD	16.93	43.08	36.07	6.055	11.10	129.65	9.487

#1	.0019	-29.30	2.069	3.563	.0083	3.4500	27.85
#2	.0024	-54.97	3.486	3.271	.0071	.14979	31.86

Elem	Cd2144	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0009	-.0001	2.428	.0019	.0826	.0001	.0005
Stddev	.0004	.0001	1.088	.0002	.0019	.0000	.0001
%RSD	49.04	155.3	44.82	11.30	2.315	24.14	17.45

#1	-.0006	-.0002	1.658	.0018	.0839	.0001	.0006
#2	-.0012	.0000	3.197	.0021	.0812	.0001	.0005

Elem	Cu2247	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0023	43.77	.0019	.0010	.0001	.0370	R 44.88
Stddev	.0001	1.81	.0002	.0005	.0001	.0008	1.27
%RSD	5.754	4.135	8.617	49.94	121.4	2.155	2.840

#1	-.0024	45.05	.0020	.0007	.0000	.0376	45.78
#2	-.0022	42.49	.0018	.0014	.0002	.0365	43.97

Elem	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0001	.0000	.0001	.0002	147.5	1.280	-28.61
Stddev	.0000	.0000	.0001	.0003	5.5	.293	18.01
%RSD	37.18	2.995	107.5	104.8	3.703	22.92	62.95

#1	.0001	.0000	.0002	.0001	143.6	1.487	-41.35
#2	.0000	.0000	.0000	.0004	151.3	1.072	-15.88

Sample Name: BLK Acquired: 6/7/2010 18:24:28 Type: Cal
 Method: 2010b2007(v6) Mode: IR Corr. Factor: 1.000000
 Jser: admin : :
 Comment: 060710D

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Jnits	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	46.03	.0024	.0002	.0003	7.101	2.261	23.11
Stddev	38.50	.0011	.0001	.0008	1.508	2.040	2.23
%RSD	83.64	47.04	28.27	278.0	21.24	90.19	9.650

#1	73.25	.0016	.0003	.0009	6.034	.8192	21.53
#2	18.80	.0032	.0002	-.0003	8.167	3.704	24.69

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0018	-.0061	-51.77	-.00187
Stddev	.0000	.0005	18.07	.00031
%RSD	2.189	7.458	34.90	16.543

#1	.0019	-.0064	-64.55	-.00165
#2	.0018	-.0058	-38.99	-.00208

Handwritten note:
 0.0018 Cts/S

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9953.0	224540.	18394.	914.13
Stddev	12.9	110.	121.	1.24
%RSD	.12942	.04907	.65599	.13588

#1	9962.1	224620.	18308.	915.01
#2	9943.9	224460.	18479.	913.26

Sample Name: STD A Acquired: 6/7/2010 18:27:39 Type: Cal
 Method: 2010b2007(v6) Mode: IR Corr. Factor: 1.000000
 User: admin
 Comment: 060710D ICP7-44-B

Elem	Al1670	Sb2068	Be2348	B_2496	Cd2144	Cd2265	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2383	537.4	64144.	R 4004.	19.74	1.617	7724.
Stddev	.0008	.8	165.	12.	.00	.003	2.
%RSD	.3198	.1529	.25695	.2919	.0202	.1847	.0201
#1	.2377	538.0	64027.	3995.	19.74	1.615	7725.
#2	.2388	536.9	64260.	4012.	19.74	1.620	7723.

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Pb2203	Mg2795
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8.409	.0681	.4992	2.823	14450.	1.319	2.998
Stddev	.037	.0001	.0005	.008	17.	.002	.013
%RSD	.4445	.1003	.1101	.2771	.1181	.1357	.4395
#1	8.383	.0681	.4988	2.828	14440.	1.321	2.988
#2	8.436	.0680	.4996	2.817	14460.	1.318	3.007

Elem	Mn2576	Mn2605	Mo2020	Ni2216	Se1960	Ag3280	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3446	.0100	.3967	.5825	391.7	15950.	.8756
Stddev	.0007	.0001	.0017	.0015	1.0	69.	.0006
%RSD	.2122	.9987	.4288	.2490	.2631	.4347	.0661
#1	.3441	.0100	.3955	.5815	391.0	15900.	.8752
#2	.3451	.0099	.3979	.5836	392.5	16000.	.8760

Elem	V_2924	Zn2062	Zn2138	Ti3361	Ti1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0727	5.561	R 12140.	.2693	.7743
Stddev	.0003	.005	14.	.0006	.0015
%RSD	.3809	.0977	.1185	.2410	.1912
#1	.0725	5.565	12130.	.2689	.7753
#2	.0729	5.557	12150.	.2698	.7732

Sample Name: STD A Acquired: 6/7/2010 18:27:39 Type: Cal
Method: 2010b2007(v6) Mode: IR Corr. Factor: 1.000000
Jser: admin : : :
Comment: 060710D ICP7-44-B

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9879.7	223330.	18298.	914.50
Stddev	8.8	420.	94.	2.37
%RSD	.08953	.18797	.51283	.25919
#1	9886.0	223030.	18364.	912.82
#2	9873.4	223630.	18231.	916.18

Sample Name: STD B Acquired: 6/7/2010 18:30:30 Type: Cal
 Method: 2010b2007(v6) Mode: IR Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-45-C

Elem	Al3944	As1890	Ba4554	Ca3158	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	R 150000.	1499.	R 81.17	2.237	2.708	.3813
Stddev	1189.	2.	.91	.008	.010	.0004
%RSD	.7926	.1018	1.121	.3678	.3540	.1067

#1	150900.	1498.	80.52	2.231	2.701	.3810
#2	149200.	1501.	81.81	2.243	2.715	.3815

Elem	Mg2852	K_7664	Na5895	P_2149	Si2516	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	R 91110.	16640.	45970.	12700.	11440.	34970.
Stddev	91.	8.	22.	17.	18.	21.
%RSD	.1002	.0497	.0473	.1342	.1568	.0610

#1	91050.	16640.	45960.	12690.	11450.	34950.
#2	91180.	16650.	45990.	12710.	11420.	34980.

Elem	Sr4077
Units	Cts/S
Avg	16.349
Stddev	.030
%RSD	.18447

#1	16.327
#2	16.370

Int. Std.	Y_2243	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S
Avg	9718.6	18079.	866.40
Stddev	8.8	74.	.01
%RSD	.09060	.41088	.00147

#1	9712.4	18131.	866.40
#2	9724.8	18026.	866.41

Sample Name: ICV1 Acquired: 6/7/2010 18:34:04 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D ICP7-48-A

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Jnits	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.007	4.935	2.435	2.522	5.050	.12564	.0008	1.251	1.230
Stddev	.010	.041	.002	.004	.064	.00003	.0008	.000	.002
%RSD	.2463	.8235	.0852	.1453	1.275	.02442	97.05	.0268	.1821

#1	4.000	4.906	2.437	2.519	5.004	.12567	.0014	1.252	1.228
#2	4.014	4.964	2.434	2.524	5.095	.12562	.0003	1.251	1.232

Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.237	12.39	11.61	.4989	1.224	.6320	.6175	2.480	2.483
Stddev	.000	.10	.11	.0015	.001	.0003	.0009	.010	.002
%RSD	.0154	.7877	.9130	.2972	.0737	.0418	.1488	.4026	.0775

#1	1.237	12.32	11.54	.4979	1.224	.6318	.6168	2.473	2.481
#2	1.237	12.46	11.69	.5000	1.225	.6322	.6181	2.487	2.484

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.47	11.83	12.52	1.229	1.255	2.010	1.218	12.62	2.484
Stddev	.17	.11	.01	.003	.007	.003	.002	.05	.000
%RSD	1.377	.9188	.0729	.2133	.5429	.1615	.1356	.3630	.0057

#1	12.35	11.76	12.53	1.227	1.250	2.007	1.217	12.59	2.484
#2	12.60	11.91	12.52	1.231	1.260	2.012	1.220	12.65	2.484

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: ICV1 Acquired: 6/7/2010 18:34:04 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D ICP7-48-A

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6230	12.51	.0005	1.254	1.253	1.223	-.0041	-.0038	2.021
Stddev	.0029	.02	.0005	.005	.000	.000	.0029	.0058	.002
%RSD	.4654	.1258	96.69	.3975	.0114	.0038	72.01	152.1	.0804

#1	.6209	12.52	.0001	1.250	1.253	1.223	-.0020	.0003	2.020
#2	.6250	12.50	.0008	1.257	1.253	1.223	-.0061	-.0080	2.022

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value									
Range									

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.510	.0028	.00075
Stddev	.003	.0011	.00010
%RSD	.1175	38.08	13.878

#1	2.512	.0020	.00083
#2	2.508	.0035	.00068

Check ?	Chk Pass	None	None
Value			
Range			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9803.4	221110.	18324.	888.91
Stddev	8.0	312.	110.	1.15
%RSD	.08120	.14088	.60292	.12889

#1	9809.0	221330.	18402.	888.10
#2	9797.7	220890.	18246.	889.72

Sample Name: ICVB1 Acquired: 6/7/2010 18:38:05 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin
 Comment: 060710D ICP7-43-D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9741	.9733	.0047	.0039	.0016	-.00010	1.987	-.0001
Stddev	.0006	.0007	.0004	.0004	.0001	.00001	.013	.0001
%RSD	.0666	.0670	8.411	10.89	8.812	13.729	.6449	92.86
#1	.9736	.9737	.0044	.0036	.0017	-.00011	1.978	-.0001
#2	.9746	.9728	.0050	.0042	.0015	-.00009	1.996	.0000
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None
Value Range								

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0000	5.121	4.893	.0002	.0001	.0086	-.0004
Stddev	.0000	.0000	.018	.024	.0004	.0000	.0001	.0002
%RSD	5.690	142.3	.3587	.4946	256.4	26.30	1.366	55.51
#1	.0003	.0000	5.108	4.876	.0005	.0001	.0085	-.0002
#2	.0003	.0001	5.134	4.910	-.0001	.0001	.0086	-.0006
Check ?	None	None	None	Chk Pass	None	None	None	None
Value Range								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.877	.0011	4.991	4.882	5.017	9.378	10.07	.0005
Stddev	.042	.0005	.039	.033	.015	.004	.03	.0002
%RSD	.4199	44.59	.7787	.6757	.3025	.0385	.2854	42.69
#1	9.848	.0014	4.964	4.905	5.006	9.380	10.05	.0007
#2	9.907	.0007	5.019	4.859	5.028	9.375	10.09	.0004
Check ?	None	None	None	Chk Pass	None	None	None	None
Value Range								

Sample Name: ICVB1 Acquired: 6/7/2010 18:38:05 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-43-D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0498	-.0001	-.0001	.0015	5.016	-.0117	-.0001
Stddev	.0000	.0741	.0015	.0007	.0105	.007	.0003	.0001
%RSD	10.33	148.7	1341.	491.6	717.9	.1498	2.555	121.7
#1	.0004	-.0026	-.0012	.0004	.0089	5.022	-.0115	-.0002
#2	.0004	.1022	.0009	-.0006	-.0060	5.011	-.0120	.0000
Check ?	None	None	None	None	None	Chk Pass	None	None
Value Range								

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	5.051	5.077	.0004	-.0019	2.020	2.0277
Stddev	.0001	.001	.057	.0002	.0003	.006	.0007
%RSD	21.79	.0192	1.128	49.91	13.98	.2811	.03600
#1	.0003	5.050	5.036	.0006	-.0021	2.016	2.0282
#2	.0002	5.052	5.117	.0003	-.0017	2.024	2.0272
Check ?	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value Range							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9806.0	220950.	18156.	898.26
Stddev	17.9	408.	30.	1.78
%RSD	.18213	.18451	.16269	.19764
#1	9818.6	220660.	18136.	897.00
#2	9793.3	221240.	18177.	899.51

Sample Name: ICB Acquired: 6/7/2010 18:41:35 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0026	-.0011	-.0002	.0012	.0004	.00003	.0067	.0001
Stddev	.0001	.0002	.0006	.0012	.0002	.00001	.0003	.0000
%RSD	2.397	17.68	332.8	98.94	46.04	42.717	4.065	44.13

#1	-.0026	-.0012	-.0006	.0021	.0005	.00004	.0065	.0001
#2	-.0027	-.0010	.0002	.0004	.0003	.00002	.0068	.0000

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020							
Low Limit	-.0020							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0029	-.0011	-.0003	-.0002	-.0005	.0002
Stddev	.0000	.0001	.0013	.0001	.0001	.0000	.0004	.0005
%RSD	36.73	96.51	44.78	8.309	22.76	14.07	90.17	214.0

#1	.0000	.0001	.0020	-.0011	-.0003	-.0002	-.0008	-.0001
#2	.0001	.0000	.0038	-.0012	-.0002	-.0002	-.0002	.0006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0041	.0004	-.0138	F -.0029	-.0036	F .0010	.0020	.0001
Stddev	.0017	.0002	.0037	.0001	.0012	.0000	.0004	.0002
%RSD	42.23	58.97	26.90	3.791	31.91	4.249	19.15	230.6

#1	-.0029	.0005	-.0165	-.0029	-.0045	.0010	.0022	.0002
#2	-.0053	.0002	-.0112	-.0030	-.0028	.0009	.0017	.0000

Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0020		.0006		
Low Limit				-.0020		-.0006		

*removal
 coverage
 6/15/10*

Sample Name: ICB Acquired: 6/7/2010 18:41:35 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 Jser: admin : :
 Comment: 060710D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0256	-.0002	-.0006	-.0165	-.0001	.0001	.0001
Stddev	.0003	.0211	.0011	.0001	.0075	.0001	.0003	.0001
%RSD	585.4	82.59	476.2	16.56	45.27	114.0	436.6	142.3
#1	.0003	.0106	-.0010	-.0007	-.0218	.0000	.0003	.0002
#2	-.0002	.0405	.0006	-.0005	-.0112	-.0002	-.0001	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0023	-.0032	.0003	.0005	.0002	.00008
Stddev	.000	.0026	.0133	.0001	.0007	.0012	.00005
%RSD	152.6	113.0	411.4	17.84	130.5	497.2	59.287
#1	-.0001	.0005	-.0126	.0004	.0010	.0011	.00005
#2	.0000	.0042	.0062	.0003	.0000	-.0006	.00012

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9837.9	222470.	18182.	905.59
Stddev	.9	592.	126.	1.58
%RSD	.00879	.26622	.69130	.17493
#1	9837.3	222060.	18094.	904.47
#2	9838.5	222890.	18271.	906.71

*Change
Cts/S*

Sample Name: ICB Acquired: 6/7/2010 18:44:31 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0039	-.0051	.0015	.0000	-.0001	.00005	.0017	.0000
Stddev	.0001	.0011	.0005	.000	.0002	.00000	.0003	.0000
%RSD	1.598	21.18	31.30	3317.	336.5	8.1457	15.82	23.22

#1	-.0039	-.0043	.0011	.0003	-.0002	.00006	.0019	.0000
#2	-.0038	-.0058	.0018	-.0003	.0001	.00005	.0015	.0000

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020							
Low Limit	-.0020							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	.0031	-.0029	-.0004	-.0001	-.0001	.0003
Stddev	.0001	.0000	.0010	.0000	.0005	.0000	.0002	.0001
%RSD	1089.	29.06	32.88	.0577	124.7	54.65	366.4	21.04

#1	.0000	.0002	.0024	-.0029	.0000	-.0001	-.0002	.0003
#2	.0000	.0001	.0038	-.0029	-.0007	.0000	.0001	.0004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0061	-.0003	-.0061	F -.0044	-.0045	.0006	.0001	.0000
Stddev	.0015	.0018	.0041	.0000	.0008	.0000	.0003	.0001
%RSD	25.51	593.4	67.90	.2542	17.22	.8137	346.0	254.0

#1	-.0050	.0010	-.0090	-.0044	-.0040	.0006	-.0001	.0001
#2	-.0072	-.0016	-.0032	-.0044	-.0051	.0006	.0003	.0000

Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020				
Low Limit				-.0020				

Sample Name: ICB Acquired: 6/7/2010 18:44:31 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 Jser: admin : : :
 Comment: 060710D RERUN

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	-0.0205	-0.0022	.0003	.0045	.0005	-0.0001	-0.0001
Stddev	.0001	.0516	.0002	.0003	.0081	.0003	.0004	.0001
%RSD	68.98	251.9	7.352	111.5	180.8	63.33	344.1	174.9

#1	-0.0002	.0160	-0.0023	.0005	-0.0012	.0008	-0.0004	.0000
#2	-0.0001	-0.0570	-0.0021	.0001	.0102	.0003	.0002	-0.0001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	.0051	-0.0042	.0000	.0013	.0012	.00005
Stddev	.0001	.0025	.0038	.0001	.0007	.0012	.00005
%RSD	38.83	48.43	89.55	520.0	57.83	104.3	96.157

#1	-0.0001	.0068	-0.0015	.0001	.0018	.0003	.00002
#2	-0.0002	.0033	-0.0069	-0.0001	.0007	.0020	.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9840.6	222580.	18146.	902.94
Stddev	8.8	67.	98.	1.58
%RSD	.08919	.03024	.53801	.17531

#1	9846.8	222530.	18077.	904.06
#2	9834.4	222630.	18215.	901.82

Sample Name: CCVA1 Acquired: 6/7/2010 18:47:20 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2462	.2369	.2487	.2511	.2523	.24889	.2507	.2465	.2463
Stddev	.0003	.0006	.0010	.0033	.0007	.00058	.0020	.0009	.0001
%RSD	.1173	.2453	.4076	1.308	.2712	.23149	.7952	.3450	.0607
#1	.2458	.2364	.2482	.2492	.2527	.24848	.2496	.2456	.2464
#2	.2463	.2377	.2494	.2558	.2516	.24896	.2535	.2460	.2463
#3	.2461	.2368	.2496	.2485	.2518	.24843	.2490	.2475	.2462
#4	.2465	.2365	.2474	.2510	.2530	.24967	.2508	.2467	.2466

Check ? Chk Pass None Chk Pass None None Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2497	.2426	.2427	.2459	.2463	.2462	.2486	.2422	.2446
Stddev	.0002	.0034	.0006	.0011	.0003	.0008	.0006	.0013	.0015
%RSD	.0611	1.383	.2670	.4400	.1170	.3185	.2299	.5467	.6258
#1	.2498	.2465	.2427	.2472	.2460	.2458	.2478	.2419	.2442
#2	.2498	.2393	.2418	.2451	.2463	.2458	.2490	.2423	.2442
#3	.2495	.2403	.2431	.2449	.2466	.2474	.2486	.2438	.2468
#4	.2496	.2442	.2432	.2462	.2464	.2458	.2489	.2406	.2433

Check ? Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
 Value
 Range

Sample Name: CCVA1 Acquired: 6/7/2010 18:47:20 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2452	.2423	.2451	.2463	.2473	.2458	.2472	2.534	.2505
Stddev	.0100	.0004	.0027	.0009	.0009	.0004	.0003	.054	.0010
%RSD	4.085	.1805	1.107	.3712	.3738	.1679	.1329	2.115	.4023

#1	.2398	.2424	.2415	.2466	.2466	.2460	.2473	2.571	.2507
#2	.2516	.2418	.2452	.2450	.2466	.2453	.2468	2.523	.2494
#3	.2555	.2421	.2453	.2464	.2485	.2456	.2472	2.463	.2501
#4	.2341	.2429	.2482	.2472	.2474	.2462	.2476	2.580	.2518

Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value									
Range									

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2494	.2250	.2453	.2471	.2462	.2503	.0015	.1263	.2461
Stddev	.0007	.0036	.0011	.0007	.0008	.0002	.0022	.0016	.0004
%RSD	.2750	1.615	.4493	.2768	.3223	.0682	142.8	1.270	.1781

#1	.2484	.2215	.2459	.2476	.2456	.2503	.0000	.1242	.2465
#2	.2501	.2236	.2449	.2462	.2455	.2504	-.0001	.1274	.2461
#3	.2494	.2301	.2464	.2469	.2472	.2500	.0017	.1257	.2455
#4	.2496	.2247	.2439	.2476	.2464	.2503	.0046	.1277	.2463

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value									
Range									

Sample Name: CCVA1 Acquired: 6/7/2010 18:47:20 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2465	-.0005	.00003
Stddev	.0011	.0010	.00005
%RSD	.4578	180.8	194.31

#1	.2465	.0007	.00009
#2	.2449	-.0012	-.00003
#3	.2475	-.0014	.00003
#4	.2470	-.0003	.00001

Check ?	Chk Pass	None	None
Value			
Range			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10002.	225820.	18472.	927.81
Stddev	17.	586.	39.	3.63
%RSD	.17377	.25967	.21068	.39076

#1	10020.	225050.	18431.	931.04
#2	10011.	226350.	18499.	929.36
#3	9981.0	225690.	18511.	922.67
#4	9995.6	226190.	18447.	928.17

Sample Name: CCVB1 Acquired: 6/7/2010 18:56:22 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.594	9.909	.0026	1.003	10.19	.00003	.0031	-.0001	.0001
Stddev	.009	.068	.0013	.002	.14	.00002	.0013	.0000	.0000
%RSD	.1352	.6870	52.40	.1494	1.363	59.175	41.48	31.76	50.32
#1	6.590	9.899	.0034	1.003	10.38	.00001	.0018	-.0001	.0001
#2	6.583	9.966	.0036	1.001	10.13	.00003	.0029	-.0001	.0000
#3	6.599	9.817	.0007	1.002	10.06	.00002	.0049	-.0001	.0002
#4	6.603	9.954	.0024	1.005	10.18	.00005	.0027	-.0002	.0001
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	10.04	9.523	-.0005	.0001	.0085	-.0001	10.01	.0007
Stddev	.0000	.02	.049	.0002	.0001	.0003	.0002	.03	.0008
%RSD	1.098	.2146	.5095	47.16	135.9	3.661	202.9	.2679	110.1
#1	.0045	10.04	9.574	-.0003	.0000	.0086	.0001	10.03	.0017
#2	.0045	10.04	9.493	-.0006	.0001	.0088	.0001	10.04	.0006
#3	.0046	10.01	9.554	-.0003	.0001	.0084	-.0003	9.979	.0007
#4	.0046	10.06	9.473	-.0008	.0000	.0081	-.0003	10.00	-.0002
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass	None
Value									
Range									

Sample Name: CCVB1 Acquired: 6/7/2010 18:56:22 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.05	9.719	9.905	.0004	-.0003	.0001	.0000	10.01	-.0015
Stddev	.04	.064	.087	.0000	.0006	.0001	.000	.06	.0006
%RSD	.3676	.6579	.8760	9.246	170.7	229.5	31230.	.6483	39.87
#1	10.00	9.798	9.811	.0003	-.0011	.0002	-.0001	9.980	-.0013
#2	10.06	9.735	9.874	.0004	-.0003	-.0001	.0001	10.05	-.0022
#3	10.05	9.646	10.02	.0004	.0003	.0002	-.0001	10.09	-.0018
#4	10.09	9.698	9.916	.0004	-.0003	.0000	.0001	9.944	-.0008
Check ?	Chk Pass	None	Chk Pass	None	None	None	None	Chk Pass	None
Value									
Range									

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	9.888	-.0002	.0002	-.0002	-.0002	10.06	9.931	.0003
Stddev	.0003	.078	.0004	.0003	.0001	.0001	.02	.077	.0001
%RSD	72.70	.7845	180.5	167.2	45.79	32.23	.1825	.7746	48.66
#1	-.0008	9.808	-.0005	-.0002	-.0004	-.0002	10.06	9.858	.0001
#2	-.0003	9.847	.0000	.0005	-.0001	-.0001	10.06	9.898	.0003
#3	-.0001	9.985	.0002	.0002	-.0003	-.0002	10.09	10.04	.0004
#4	-.0006	9.911	-.0007	.0003	-.0002	-.0001	10.04	9.929	.0002
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	Chk Pass	None
Value									
Range									

Sample Name: CCVB1 Acquired: 6/7/2010 18:56:22 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006	.9835	1.0096
Stddev	.0004	.0048	.0014
%RSD	78.50	.4867	.13441

#1	.0001	.9771	1.0086
#2	.0006	.9838	1.0104
#3	.0012	.9887	1.0083
#4	.0004	.9843	1.0110

Check ?	None	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9749.2	219490.	17917.	884.74
Stddev	3.1	1083.	118.	1.93
%RSD	.03171	.49322	.65892	.21859
#1	9745.0	219390.	17812.	883.96
#2	9752.3	219970.	17869.	882.71
#3	9749.2	218030.	18085.	885.01
#4	9750.3	220560.	17900.	887.27

Sample Name: CCB1 Acquired: 6/7/2010 19:24:23 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 Jser: admin : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Jnits	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0039	-.0051	.0006	.0019	-.0003	.00002	.0009	.0000
Stddev	.0000	.0017	.0005	.0009	.0000	.00001	.0007	.0000
%RSD	1.207	32.23	92.45	50.17	11.30	75.384	69.12	9.560
#1	-.0039	-.0040	.0009	.0012	-.0003	.00003	.0014	.0000
#2	-.0039	-.0063	.0002	.0026	-.0003	.00001	.0005	.0000

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020							
Low Limit	-.0020							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	.0008	-.0029	-.0003	-.0002	-.0002	.0004
Stddev	.0001	.000	.0023	.0001	.0002	.0001	.0003	.0002
%RSD	424.9	281.5	291.2	2.523	73.81	55.44	122.5	40.51
#1	-.0001	-.0001	-.0008	-.0029	-.0004	-.0001	.0000	.0003
#2	.0001	.0000	.0024	-.0030	-.0001	-.0003	-.0004	.0005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0043	.0006	-.0097	F -.0053	-.0066	.0001	.0004	-.0001
Stddev	.0027	.0004	.0022	.0001	.0003	.0000	.0005	.0001
%RSD	64.30	69.55	22.57	2.168	4.072	5.601	114.6	43.31
#1	-.0062	.0010	-.0081	-.0052	-.0064	.0001	.0008	-.0001
#2	-.0023	.0003	-.0112	-.0053	-.0068	.0001	.0001	-.0002

Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020				
Low Limit				-.0020				

Sample Name: CCB1 Acquired: 6/7/2010 19:24:23 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0079	-.0022	-.0001	-.0175	-.0001	.0002	.0000
Stddev	.0000	.0065	.0007	.0002	.0136	.0001	.0001	.0000
%RSD	21.59	82.09	33.49	180.1	77.53	86.73	52.16	123.5
#1	-.0001	-.0125	-.0028	.0000	-.0271	-.0002	.0002	.0000
#2	-.0001	-.0033	-.0017	-.0003	-.0079	.0000	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2138	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0028	.0001	.0000	.0007	-.0005	.00000
Stddev	.0000	.0032	.0141	.000	.0007	.0005	.00007
%RSD	40.26	113.8	17410.	67.60	98.53	103.5	2293.2
#1	-.0001	.0006	-.0099	.0000	.0012	-.0008	-.00004
#2	-.0001	.0051	.0101	.0000	.0002	-.0001	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9838.3	222030.	18072.	913.94
Stddev	14.6	1071.	138.	2.24
%RSD	.14873	.48237	.76273	.24466
#1	9848.6	221270.	17975.	915.52
#2	9828.0	222790.	18170.	912.36

Sample Name: CRI Acquired: 6/7/2010 19:26:49 Type: QC
Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
User: admin : :
Comment: 060710D ICP7-41-A

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0478	.0429	.0510	.0986	.0057	.00471	.0484	.0051
Stddev	.0003	.0007	.0002	.0001	.0001	.00004	.0001	.0000
%RSD	.5719	1.556	.4782	.0894	1.653	.89276	.2787	.7935
#1	.0476	.0424	.0508	.0986	.0058	.00474	.0483	.0050
#2	.0480	.0433	.0511	.0987	.0056	.00469	.0485	.0051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051	.0057	.0530	.0470	.0049	.0100	.0095	.0090
Stddev	.0001	.0001	.0092	.0002	.0001	.0001	.0000	.0001
%RSD	1.718	1.347	17.26	.4166	1.852	1.173	.0613	1.284
#1	.0051	.0057	.0466	.0468	.0048	.0099	.0095	.0091
#2	.0050	.0056	.0595	.0471	.0050	.0100	.0095	.0089
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0134	.0467	.0126	.0146	F .0131	.0050	.0057	.0094
Stddev	.0011	.0002	.0027	.0001	.0010	.0000	.0008	.0001
%RSD	8.359	.3234	21.41	.5274	7.463	.6384	13.18	1.577
#1	.0126	.0466	.0145	.0146	.0124	.0050	.0063	.0095
#2	.0142	.0468	.0107	.0147	.0138	.0050	.0052	.0093
Check ?	Chk Fail	Chk Pass	None	None	Chk Fail	Chk Pass	None	Chk Pass
Value	.0200				.0200			
Range	-20.00%				-20.00%			

* Chk Pass for Non-DOD
WMMR
6/5/10

Sample Name: CRI Acquired: 6/7/2010 19:26:49 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-41-A

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193	.3946	.0971	.0094	.1690	.0480	.0096	.0094
Stddev	.0002	.0491	.0003	.0003	.0013	.0012	.0005	.0001
%RSD	.8551	12.44	.3583	2.818	.7684	2.427	5.428	.9951
#1	.0192	.3599	.0968	.0096	.1681	.0471	.0100	.0094
#2	.0194	.4293	.0973	.0092	.1699	.0488	.0092	.0095

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096	.1992	.3841	.0099	.1904	.0100	.00975
Stddev	.0000	.0029	.0055	.0001	.0001	.0006	.00008
%RSD	.1233	1.464	1.438	.7106	.0372	5.767	.85331
#1	.0096	.2012	.3880	.0099	.1903	.0096	.00969
#2	.0096	.1971	.3802	.0098	.1904	.0104	.00981

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9852.1	221100.	17936.	924.01
Stddev	18.6	333.	19.	3.94
%RSD	.18859	.15081	.10569	.42642
#1	9865.3	221340.	17949.	926.80
#2	9839.0	220860.	17923.	921.23

Sample Name: CRI Acquired: 6/7/2010 19:29:49 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICAP ICP7-39-B 0.1/10

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0012	-.0008	.0099	.0110	.0019	.00017	.0109	.0005
Stddev	.0001	.0029	.0006	.0010	.0001	.00000	.0010	.0000
%RSD	6.833	369.1	6.076	8.966	7.539	1.9535	9.581	5.852

#1	-.0011	.0013	.0095	.0103	.0020	.00018	.0102	.0006
#2	-.0013	-.0029	.0104	.0117	.0018	.00017	.0116	.0005

Check ?	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0020							
Range	-50.00%							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0007	.0040	F .0019	.0018	.0008	.0020	.0022
Stddev	.0000	.0001	.0003	.0001	.0002	.0002	.0002	.0005
%RSD	2.950	10.85	8.482	3.278	11.16	21.44	10.88	20.70

#1	.0005	.0008	.0037	.0020	.0017	.0007	.0022	.0019
#2	.0006	.0007	.0042	.0019	.0019	.0009	.0019	.0026

Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.0040				
Range				-50.00%				

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0028	.0094	-.0040	F -.0029	-.0026	.0006	.0011	.0020
Stddev	.0025	.0009	.0093	.0001	.0001	.0000	.0004	.0003
%RSD	90.87	9.294	230.7	2.055	3.895	3.702	36.38	17.09

#1	.0046	.0100	.0025	-.0028	-.0026	.0007	.0008	.0018
#2	.0010	.0088	-.0106	-.0029	-.0027	.0006	.0014	.0022

Check ?	Chk Fail	Chk Pass	None	Chk Fail	None	Chk Pass	None	Chk Pass
Value	.0100			.0020				
Range	-50.00%			-50.00%				

Sample Name: CRI Acquired: 6/7/2010 19:29:49 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICAP ICP7-39-B 0.1/10

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0881	.0172	.0019	.1652	.0093	.0022	.0019
Stddev	.0001	.0229	.0006	.0001	.0113	.0004	.0000	.0000
%RSD	5.273	26.02	3.693	3.852	6.865	4.298	.2610	2.031
#1	.0022	.1043	.0167	.0019	.1572	.0090	.0022	.0019
#2	.0021	.0719	.0176	.0018	.1732	.0096	.0022	.0019

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0227	.0457	.0010	.0108	.0093	.00033
Stddev	.0000	.0008	.0054	.0000	.0001	.0011	.00008
%RSD	1.259	3.307	11.80	3.576	.8551	11.80	23.824
#1	.0020	.0222	.0495	.0010	.0107	.0100	.00027
#2	.0019	.0233	.0418	.0010	.0108	.0085	.00038

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9750.4	219950.	17813.	910.39
Stddev	12.7	488.	84.	3.90
%RSD	.13005	.22176	.47125	.42826
#1	9759.4	220300.	17754.	913.14
#2	9741.5	219610.	17873.	907.63

Sample Name: ICSA Acquired: 6/7/2010 19:32:16 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-43-B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.61	437.2	.0217	-.0101	.0008	-.00051	.0172	-.0025
Stddev	.04	2.7	.0002	.0006	.0003	.00001	.0004	.0002
%RSD	.2481	.6279	.8387	5.787	35.14	1.1613	2.261	8.662
#1	15.58	439.2	.0218	-.0097	.0006	-.00051	.0175	-.0023
#2	15.64	435.3	.0216	-.0105	.0010	-.00050	.0170	-.0026

Check ? None Chk Pass None None None None None None
 Value
 Range

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	-.0013	468.3	*****	-.0005	-.0016	.1653	.0001
Stddev	.0000	.0003	2.4	----	.0003	.0000	.0004	.0008
%RSD	1.451	21.65	.5164	----	53.86	1.007	.2439	754.6
#1	.0034	-.0011	466.6	----	-.0003	-.0016	.1650	-.0004
#2	.0033	-.0015	470.0	----	-.0008	-.0016	.1656	.0006

Check ? None None Chk Pass None None None None None
 Value
 Range

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	180.8	.0056	514.0	*****	415.9	.0178	.0029	.0002
Stddev	1.3	.0005	.9	----	3.0	.0001	.0010	.0006
%RSD	.7006	8.382	.1699	----	.7319	.8434	35.51	237.9
#1	179.9	.0053	513.4	----	413.8	.0179	.0021	.0006
#2	181.7	.0059	514.6	----	418.1	.0177	.0036	-.0002

Check ? Chk Pass None Chk Pass None None None None None
 Value
 Range

Sample Name: ICSEA Acquired: 6/7/2010 19:32:16 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-43-B

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	-.0213	-.0127	-.0002	.0210	.0020	.0010	-.0037
Stddev	.0001	.0044	.0033	.0004	.0146	.0000	.0001	.0001
%RSD	2.744	20.89	26.20	220.7	69.79	2.080	6.053	2.228
#1	.0026	-.0244	-.0150	.0001	.0106	.0019	.0010	-.0037
#2	.0027	-.0182	-.0103	-.0004	.0313	.0020	.0011	-.0038
Check ?	None	None	None	None	None	None	None	None
Value Range								

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0018	.0252	-.0137	.0040	-.0017	-.0009	-.00087
Stddev	.0001	.0004	.0065	.0001	.0031	.0012	.00021
%RSD	4.161	1.613	47.68	1.766	181.4	132.2	24.152
#1	-.0017	.0249	-.0091	.0040	.0005	-.0018	-.00072
#2	-.0018	.0255	-.0183	.0041	-.0039	-.0001	-.00101
Check ?	None	None	None	None	None	None	None
Value Range							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8947.7	196600.	17230.	763.56
Stddev	9.8	1961.	95.	2.11
%RSD	.10987	.99766	.55062	.27663
#1	8940.8	197980.	17297.	762.07
#2	8954.7	195210.	17163.	765.06

Sample Name: ICSAB Acquired: 6/7/2010 19:36:30 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-38-C

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.53	444.5	.9307	-.0061	.5199	.47961	.0148	.9856
Stddev	.04	.8	.0002	.0004	.0003	.00272	.0009	.0004
%RSD	.2833	.1871	.0217	7.183	.0565	.56733	6.355	.0414
#1	15.50	443.9	.9309	-.0058	.5197	.47769	.0155	.9859
#2	15.56	445.1	.9306	-.0064	.5201	.48154	.0141	.9853
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value Range								

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9023	.9016	473.4	*****	.4869	.4477	F .6471	.4656
Stddev	.0026	.0008	4.1	----	.0016	.0012	.0020	.0026
%RSD	.2900	.0864	.8699	----	.3243	.2739	.3154	.5666
#1	.9005	.9022	470.5	----	.4880	.4468	.6486	.4638
#2	.9042	.9011	476.4	----	.4857	.4486	.6457	.4675
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value Range							.5000 20.00%	

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	180.8	.9664	521.7	*****	424.6	.4913	.5131	-.0001
Stddev	1.7	.0014	2.8	----	3.7	.0015	.0007	.0000
%RSD	.9311	.1469	.5428	----	.8774	.3122	.1425	38.64
#1	179.6	.9674	519.7	----	421.9	.4924	.5136	-.0001
#2	182.0	.9654	523.7	----	427.2	.4902	.5126	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	None
Value Range								

Sample Name: ICSAB Acquired: 6/7/2010 19:36:30 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D ICP7-38-C

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Jnits	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8815	-.1166	-.0165	.9714	-.0019	.0020	.4944	.9780
Stddev	.0030	.0458	.0032	.0033	.0124	.0010	.0009	.0022
%RSD	.3357	39.26	19.57	.3412	635.0	47.84	.1883	.2249
#1	.8794	-.0842	-.0188	.9691	.0068	.0027	.4951	.9796
#2	.8836	-.1489	-.0142	.9738	-.0107	.0013	.4938	.9765

Check ? Chk Pass None None Chk Pass None None Chk Pass Chk Pass
 Value
 Range

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8789	.0177	.0143	.0038	-.0032	-.0019	-.00668
Stddev	.0007	.0038	.0009	.0002	.0030	.0008	.00008
%RSD	.0831	21.17	5.951	5.728	92.98	40.55	1.2602
#1	.8784	.0204	.0149	.0039	-.0054	-.0025	-.00662
#2	.8794	.0151	.0137	.0036	-.0011	-.0014	-.00674

Check ? Chk Pass None None None None None None
 Value
 Range

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8995.5	198490.	17365.	759.31
Stddev	15.3	1128.	58.	1.49
%RSD	.16981	.56835	.33600	.19652
#1	9006.3	197690.	17407.	758.26
#2	8984.7	199290.	17324.	760.37

Sample Name: RB Acquired: 6/7/2010 19:43:14 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0168	F .0179	.0011	.0001	F -.0002	.00007	F -.0004	.0000
#1	.0167	.0170	.0017	-.0002	-.0002	.00005	-.0004	.0000
#2	.0168	.0187	.0005	.0003	-.0003	.00008	-.0004	.0001
Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0224	.0225	F -.0001	-.0003	.0001	.0007
#1	.0001	.0000	.0277	.0233	.0002	-.0004	.0003	.0007
#2	.0000	.0001	.0172	.0216	-.0003	-.0001	.0000	.0007
Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0190	.0003	.0522	.0512	.0001	-.0001	.0001	F -.0409
#1	.0189	-.0005	.0512	.0513	.0000	-.0002	.0002	-.0205
#2	.0192	.0012	.0532	.0511	.0001	.0000	.0000	-.0614
Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0001	F -.0375	-.0005	.0000	F .0002	F .0000	.0049
#1	-.0008	.0002	-.0386	-.0009	.0000	.0003	.0001	.0039
#2	-.0011	.0001	-.0363	.0000	-.0001	.0001	.0000	.0058
Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077			
Units	ppm	ppm	ppm	ppm	ppm			
Avg	-.0045	.0000	.0002	-.0019	.00006			
#1	.0035	.0001	.0004	-.0014	.00006			
#2	-.0125	.0000	-.0001	-.0024	.00006			
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10036.	225510.	18239.	920.18				
#1	10038.	226130.	18301.	920.14				
#2	10034.	224900.	18176.	920.21				

Sample Name: K1005015-MB Acquired: 6/7/2010 19:46:18 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0105	.0125	.0014	.0000	-.0002	-.00001	.0017	.0000
#1	.0108	.0132	.0015	-.0002	-.0002	.00000	.0016	.0000
#2	.0102	.0119	.0013	.0002	-.0002	-.00003	.0017	.0000
Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0162	F .0138	-.0002	-.0001	.0000	-.0003
#1	.0001	.0003	.0196	.0140	-.0001	-.0002	.0001	-.0001
#2	.0001	.0000	.0128	.0136	-.0003	-.0001	.0000	-.0004
Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	-.0005	F .0466	F .0448	.0001	.0000	.0001	-.1000
#1	.0091	-.0008	.0463	.0440	.0001	-.0001	.0002	-.1142
#2	.0093	-.0003	.0469	.0456	.0001	.0000	.0001	-.0857
Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0000	-.0450	-.0003	-.0005	.0001	.0001	F .2854
#1	-.0002	-.0002	-.0498	-.0004	-.0004	.0002	.0001	.2857
#2	-.0018	.0002	-.0402	-.0002	-.0005	.0000	.0001	.2852
Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077			
Units	ppm	ppm	ppm	ppm	ppm			
Avg	-.0168	.0001	.0008	.0010	.00006			
#1	-.0195	.0000	.0001	.0006	.00010			
#2	-.0141	.0001	.0014	.0015	.00001			
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10069.	226060.	18206.	930.81				
#1	10078.	225330.	18261.	932.05				
#2	10061.	226800.	18151.	929.57				

*Review of
 K1005015-1
 complete
 6/15/10*

Sample Name: LCSW Acquired: 6/7/2010 19:49:22 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.990	2.601	2.550	5.186	.12633	1.001	1.247	1.215	1.237
#1	4.986	2.602	2.551	5.159	.12605	1.002	1.242	1.213	1.237
#2	4.993	2.601	2.548	5.212	.12660	.9994	1.252	1.217	1.238
Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.48	11.85	.5044	1.223	.6335	.6233	2.520	2.479	12.29
#1	12.42	11.73	.5039	1.223	.6308	.6244	2.513	2.474	12.31
#2	12.54	11.98	.5049	1.223	.6362	.6223	2.527	2.484	12.26
Elem	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.260	.9915	1.221	12.68	2.434	.6241	12.37	.0000	1.269
#1	1.259	.9892	1.220	12.70	2.435	.6258	12.42	-.0002	1.269
#2	1.261	.9938	1.223	12.66	2.433	.6225	12.33	.0002	1.268
Elem	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.242	1.230	.2180	.0058	.0000	2.491	-.0006	.00029	
#1	1.239	1.230	.2199	.0104	.0000	2.489	-.0024	.00028	
#2	1.246	1.231	.2161	.0012	.0000	2.493	.0011	.00029	
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	9973.2	222210.	18101.	900.34					
#1	9982.4	222130.	18198.	902.70					
#2	9964.0	222300.	18004.	897.98					

*Comment
6/8/10*

Sample Name: LCSW Acquired: 6/7/2010 19:53:21 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D SILICON

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	F .0017	.0019	.0007	F .0003	.00004	F .0022	.0002
#1	.0021	.0010	.0024	.0004	.0003	.00003	.0016	.0002
#2	.0030	.0023	.0014	.0011	.0003	.00005	.0029	.0002
Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	F .0090	.0048	F .0001	.0000	.0002	.0004
#1	.0002	.0002	.0050	.0048	-.0002	-.0001	.0002	.0004
#2	.0003	.0001	.0129	.0047	.0003	.0002	.0002	.0004
Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0042	.0007	.0119	F .0113	.0034	.0001	.0003	F -.0153
#1	.0049	.0009	.0118	.0116	.0034	.0002	.0004	-.0289
#2	.0035	.0004	.0120	.0111	.0033	.0001	.0003	-.0016
Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0000	F 16.53	-.0004	.0000	F .0002	F .0001	.2436
#1	.0000	-.0004	16.45	-.0003	.0001	.0002	.0001	.2451
#2	-.0001	.0003	16.62	-.0005	-.0001	.0002	.0001	.2421
Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077			
Units	ppm	ppm	ppm	ppm	ppm			
Avg	9.909	.0005	.0016	-.0005	-.00005			
#1	9.883	.0004	.0020	-.0007	-.00006			
#2	9.935	.0005	.0011	-.0004	-.00004			
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10049.	225550.	18362.	927.70				
#1	10052.	225220.	18390.	928.64				
#2	10047.	225880.	18334.	926.75				

*unavailable
6/8/10*

Sample Name: K1005015-001 Acquired: 6/7/2010 19:57:11 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

User: admin

Comment: 060710D

BQC for K1005007, K1004934

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0299	.0250	.0016	.0000	F .0009	.00004	F .0032	.0001

#1	.0291	.0248	.0007	.0013	.0011	.00003	.0027	.0001
#2	.0306	.0252	.0025	-.0013	.0008	.00006	.0037	.0001

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	1.486	1.457	F -.0006	-.0002	.0132	.0141

#1	.0001	.0003	1.483	1.450	-.0005	-.0002	.0133	.0141
#2	.0001	.0001	1.489	1.464	-.0007	-.0002	.0131	.0142

Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0269	.0001	.5666	.5679	.0026	.0000	.0000	F .1174

#1	.0273	.0001	.5646	.5690	.0026	-.0001	.0000	.1160
#2	.0266	.0001	.5686	.5669	.0025	.0001	.0001	.1188

Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0005	1.150	-.0001	.0003	F .0005	F .0005	.3340

#1	.0004	.0000	1.149	.0005	.0002	.0006	.0004	.3289
#2	-.0001	-.0009	1.152	-.0007	.0003	.0005	.0005	.3391

Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.686	.0004	.0000	-.0013	.01244

#1	3.698	.0002	-.0002	-.0009	.01235
#2	3.674	.0005	.0002	-.0017	.01252

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10048.	225560.	18303.	933.01

#1	10026.	226360.	18418.	930.42
#2	10070.	224760.	18187.	935.59

Sample Name: K1005015-001D Acquired: 6/7/2010 20:00:19 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0301	.0294	.0008	.0001	F .0008	-.00002	F .0012	.0000
#1	.0299	.0305	.0008	.0017	.0009	.00000	.0019	.0000
#2	.0304	.0283	.0009	-.0014	.0007	-.00004	.0006	.0000

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	1.473	1.457	F .0002	-.0004	.0131	.0135
#1	.0001	.0000	1.467	1.460	.0005	-.0004	.0133	.0136
#2	.0000	.0001	1.480	1.453	-.0001	-.0004	.0129	.0134

Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0256	-.0005	.5644	.5662	.0025	-.0001	.0002	F .1152
#1	.0264	-.0006	.5612	.5585	.0025	.0000	.0003	.1176
#2	.0247	-.0003	.5675	.5740	.0024	-.0001	.0000	.1128

Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0001	1.139	.0001	.0007	F .0004	F .0004	.3215
#1	.0001	-.0003	1.126	-.0002	.0007	.0003	.0004	.3200
#2	-.0012	.0000	1.151	.0004	.0008	.0004	.0004	.3231

Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077			
Units	ppm	ppm	ppm	ppm	ppm			
Avg	3.655	.0005	-.0004	-.0005	.01238			
#1	3.630	.0006	.0002	.0007	.01230			
#2	3.681	.0003	-.0009	-.0016	.01245			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10042.	226200.	18316.	933.91				
#1	10053.	226010.	18267.	934.99				
#2	10032.	226380.	18366.	932.83				

Sample Name: CCVA2 Acquired: 6/7/2010 20:03:28 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2555	.2429	.2526	.2590	.2582	.25257	.2541	.2534
Stddev	.0004	.0013	.0030	.0006	.0012	.00077	.0007	.0010
%RSD	.1724	.5459	1.186	.2148	.4464	.30335	.2791	.4063
#1	.2552	.2438	.2504	.2586	.2574	.25203	.2536	.2527
#2	.2558	.2420	.2547	.2594	.2590	.25311	.2546	.2542

Check ? Chk Pass None Chk Pass None None Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2530	.2559	.2516	.2504	.2521	.2507	.2523	.2516
Stddev	.0004	.0004	.0041	.0021	.0003	.0008	.0012	.0006
%RSD	.1499	.1527	1.616	.8469	.1225	.3165	.4816	.2289
#1	.2527	.2561	.2487	.2489	.2519	.2502	.2515	.2512
#2	.2533	.2556	.2545	.2519	.2523	.2513	.2532	.2520

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2575	.2506	.2517	.2522	.2481	.2514	.2471	.2514
Stddev	.0003	.0000	.0075	.0019	.0008	.0004	.0000	.0002
%RSD	.1242	.0174	2.989	.7347	.3259	.1528	.0105	.0621
#1	.2573	.2505	.2570	.2509	.2486	.2511	.2471	.2513
#2	.2578	.2506	.2464	.2535	.2475	.2517	.2471	.2515

Check ? None Chk Pass None Chk Pass None Chk Pass Chk Pass Chk Pass
 Value
 Range

Sample Name: CCVA2 Acquired: 6/7/2010 20:03:28 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2530	2.496	.2586	.2557	.2086	.2490	.2520	.2524
Stddev	.0005	.027	.0015	.0009	.0028	.0012	.0002	.0007
%RSD	.1855	1.082	.5867	.3414	1.365	.4707	.0717	.2728

#1	.2526	2.477	.2575	.2551	.2107	.2481	.2521	.2519
#2	.2533	2.515	.2597	.2564	.2066	.2498	.2518	.2529

Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2559	.0049	.1204	.2505	.2501	.0002	-.00001
Stddev	.0001	.0005	.0082	.0001	.0022	.0010	.00002
%RSD	.0584	10.94	6.807	.0254	.8952	431.7	285.53

#1	.2558	.0045	.1146	.2506	.2485	.0010	.00001
#2	.2560	.0053	.1262	.2505	.2517	-.0005	-.00002

Check ?	Chk Pass	None	None	Chk Pass	Chk Pass	None	None
Value Range							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9982.2	224680.	18000.	929.34
Stddev	9.4	596.	19.	2.07
%RSD	.09395	.26507	.10296	.22242

#1	9988.9	224260.	18013.	930.80
#2	9975.6	225100.	17987.	927.88

Sample Name: CCVB2 Acquired: 6/7/2010 20:06:19 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.803	10.30	.0017	1.054	10.48	.00003	.0034	-.0001	.0002
Stddev	.006	.09	.0010	.002	.22	.00000	.0006	.0000	.0001
%RSD	.0852	.8265	56.02	.1426	2.080	.60628	16.92	45.92	46.78
#1	6.807	10.36	.0010	1.052	10.33	.00003	.0038	-.0001	.0001
#2	6.799	10.24	.0024	1.055	10.64	.00003	.0030	.0000	.0002
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value Range									

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	10.37	9.754	-.0006	.0001	.0087	.0000	10.28	.0002
Stddev	.0001	.07	.195	.0000	.0001	.0004	.000	.08	.0008
%RSD	1.057	.6707	1.994	8.084	57.14	4.585	1318.	.7553	362.7
#1	.0050	10.32	9.617	-.0006	.0001	.0090	.0002	10.23	.0008
#2	.0049	10.42	9.892	-.0006	.0001	.0084	-.0003	10.34	-.0003
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass	None
Value Range									

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.31	9.961	9.972	.0003	.0004	.0000	.0003	10.23	-.0007
Stddev	.01	.159	.013	.0000	.0009	.000	.0001	.00	.0005
%RSD	.1308	1.593	.1291	11.40	206.5	2251.	30.81	.0264	69.17
#1	10.30	9.849	9.963	.0003	-.0002	.0000	.0003	10.23	-.0003
#2	10.32	10.07	9.981	.0003	.0011	.0000	.0004	10.23	-.0010
Check ?	Chk Pass	None	Chk Pass	None	None	None	None	Chk Pass	None
Value Range									

Sample Name: CCVB2 Acquired: 6/7/2010 20:06:19 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	10.06	-.0006	-.0001	-.0002	-.0001	10.53	10.01	.0002
Stddev	.0006	.00	.0001	.0008	.0000	.0001	.00	.04	.0000
%RSD	94.04	.0224	11.06	778.2	22.91	66.16	.0251	.4115	12.99
#1	.0002	10.06	-.0007	.0005	-.0001	.0000	10.53	9.980	.0002
#2	.0011	10.06	-.0006	-.0007	-.0002	-.0001	10.53	10.04	.0002
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	Chk Pass	None
Value Range									

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002	1.009	1.0384
Stddev	.0003	.002	.0043
%RSD	162.9	.2058	.41807
#1	.0000	1.007	1.0353
#2	.0004	1.010	1.0415
Check ?	None	Chk Pass	Chk Pass
Value Range			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9907.8	220720.	17821.	898.55
Stddev	16.2	1483.	43.	1.60
%RSD	.16393	.67188	.24154	.17758
#1	9919.3	221770.	17851.	899.68
#2	9896.3	219670.	17790.	897.42

Sample Name: CCB2 Acquired: 6/7/2010 20:10:24 Type: QC
Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
User: admin : :
Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0036	-.0058	.0019	.0011	.0002	.00002	.0004	.0001
Stddev	.0000	.0014	.0014	.0005	.0004	.00000	.0011	.0000
%RSD	.3980	24.10	77.65	45.74	276.3	15.816	256.2	45.53

#1	-.0036	-.0049	.0029	.0007	.0004	.00002	.0012	.0000
#2	-.0036	-.0068	.0008	.0014	-.0001	.00003	-.0004	.0001

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020							
Low Limit	-.0020							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0000	-.0008	-.0027	-.0002	-.0002	.0000	.0005
Stddev	.0000	.0000	.0023	.0000	.0000	.0001	.000	.0002
%RSD	85.62	82.93	291.2	1.457	20.45	39.64	1388.	44.97

#1	.0001	.0000	.0008	-.0026	-.0001	-.0002	.0003	.0004
#2	.0000	.0000	-.0025	-.0027	-.0002	-.0003	-.0003	.0007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0008	-.0015	-.0018	-.0025	.0001	.0009	.0001
Stddev	.0016	.0002	.0006	.0002	.0020	.0000	.0011	.0001
%RSD	335.0	24.79	38.31	10.37	81.66	14.68	112.9	229.9

#1	-.0007	-.0010	-.0011	-.0020	-.0039	.0001	.0002	.0002
#2	.0016	-.0007	-.0019	-.0017	-.0011	.0001	.0017	.0000

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB2 Acquired: 6/7/2010 20:10:24 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0734	-.0025	.0006	-.0289	-.0009	-.0001	.0001
Stddev	.0002	.0036	.0015	.0000	.0125	.0009	.0001	.0000
%RSD	129.7	4.903	57.68	3.042	43.24	96.52	207.2	41.51
#1	.0000	-.0708	-.0036	.0006	-.0378	-.0003	.0000	.0001
#2	.0002	-.0759	-.0015	.0006	-.0201	-.0015	-.0002	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0051	-.0009	.0001	.0004	-.0025	-.00005
Stddev	.0000	.0008	.0017	.0000	.0004	.0015	.00000
%RSD	21.52	15.38	201.7	23.75	101.5	57.97	8.6207
#1	-.0001	.0056	.0004	.0001	.0001	-.0015	-.00004
#2	-.0001	.0045	-.0021	.0002	.0007	-.0036	-.00005

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9958.2	222350.	17910.	917.67
Stddev	5.4	83.	134.	.21
%RSD	.05394	.03733	.75022	.02263
#1	9954.4	222410.	18005.	917.82
#2	9962.0	222290.	17815.	917.52

Sample Name: K1005015-001L Acquired: 6/7/2010 20:12:52 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

User: admin : : :

Comment: 060710D 1/5

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	F .0026	.0022	.0003	F .0004	.00001	F .0015	.0000

#1	.0034	.0047	.0028	.0000	.0004	.00001	.0016	.0000
#2	.0034	.0006	.0017	.0006	.0004	.00000	.0015	.0000

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	.3037	.2949	F .0001	-.0002	.0028	.0026

#1	.0001	.0000	.3027	.2942	.0002	.0000	.0031	.0026
#2	.0000	.0001	.3048	.2955	-.0001	-.0003	.0026	.0027

Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0039	-.0002	.1133	.1096	.0008	-.0001	.0002	F -.0260

#1	.0041	.0006	.1134	.1083	.0008	-.0001	.0001	-.0235
#2	.0038	-.0010	.1132	.1109	.0008	-.0002	.0002	-.0284

Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0002	.2051	.0000	-.0002	F .0000	F .0001	.0690

#1	-.0002	.0001	.2012	.0004	-.0003	.0000	.0000	.0710
#2	-.0009	.0002	.2090	-.0004	-.0001	.0001	.0001	.0670

Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077			
Units	ppm	ppm	ppm	ppm	ppm			
Avg	.7229	.0002	.0011	.0005	.00253			

#1	.7180	.0002	.0007	.0022	.00250			
#2	.7277	.0002	.0014	-.0012	.00256			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10056.	225360.	18063.	934.89				

#1	10075.	225280.	17997.	936.31				
#2	10037.	225450.	18128.	933.47				

Sample Name: K1005015-001D Acquired: 6/7/2010 20:15:57 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

User: admin : : :

Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0275	.0258	.0009	.0001	F .0013	-.00004	F .0019	.0000
#1	.0270	.0263	.0002	.0000	.0014	.00001	.0014	.0000
#2	.0281	.0253	.0015	.0002	.0011	-.00008	.0025	.0000
Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	1.466	1.444	F .0000	-.0001	.0132	.0140
#1	.0001	.0002	1.462	1.446	-.0002	-.0002	.0128	.0137
#2	.0001	.0000	1.470	1.441	.0003	-.0001	.0136	.0142
Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225	.0001	.5578	.5522	.0025	.0000	.0000	F .0901
#1	.0241	-.0002	.5570	.5503	.0025	-.0001	.0001	.1000
#2	.0208	.0004	.5587	.5540	.0025	.0001	-.0001	.0803
Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0002	1.115	-.0003	.0002	F .0004	F .0004	.3270
#1	.0013	-.0003	1.108	.0000	.0001	.0005	.0005	.3259
#2	-.0012	-.0002	1.123	-.0005	.0003	.0004	.0003	.3280
Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077			
Units	ppm	ppm	ppm	ppm	ppm			
Avg	3.608	.0004	-.0004	-.0007	.01245			
#1	3.597	.0004	-.0009	.0001	.01237			
#2	3.619	.0004	.0002	-.0015	.01253			
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10042.	225470.	18126.	938.22				
#1	10056.	226460.	18090.	939.54				
#2	10028.	224480.	18162.	936.90				

*not needed
sample
6/8/10*

Sample Name: K1005015-001S Acquired: 6/7/2010 20:19:05 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

Jser: admin : : :

Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.061	.4952	1.034	2.102	.05057	1.018	.0505	.0492

#1	2.054	.4967	1.036	2.098	.05031	1.015	.0503	.0492
#2	2.068	.4937	1.033	2.106	.05083	1.021	.0506	.0492

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0534	F 11.60	11.07	.2029	.4923	.2639	.2628	1.041

#1	.0536	11.57	11.14	.2031	.4919	.2632	.2623	1.041
#2	.0533	11.63	11.00	.2027	.4928	.2646	.2633	1.042

Elem	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4959	F 10.40	.5034	1.002	.4925	F 10.22	.9689	.0504

#1	.4952	10.35	.5035	1.001	.4918	10.18	.9670	.0497
#2	.4966	10.46	.5032	1.003	.4932	10.27	.9707	.0510

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 27.71	-.0003	.5201	.5066	F .4992	.3126	13.86	.0013

#1	27.56	-.0008	.5198	.5058	.4991	.3117	13.83	.0013
#2	27.86	.0003	.5204	.5075	.4992	.3135	13.90	.0014

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.006	.0002	.01272

#1	1.006	.0000	.01271
#2	1.006	.0003	.01273

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9903.0	221550.	17930.	899.31

#1	9907.7	221130.	17894.	900.12
#2	9898.4	221970.	17965.	898.50

Sample Name: K1004880-MB Acquired: 6/7/2010 20:23:41 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

User: admin : : :

Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0026	-.0053	.0020	-.0009	-.0003	-.00002	.0031	.0000
#1	-.0026	-.0054	.0013	-.0013	-.0002	-.00001	.0033	.0000
#2	-.0025	-.0052	.0028	-.0005	-.0004	-.00004	.0030	.0000

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	-.0007	-.0003	-.0001	-.0003	-.0002	.0000
#1	.0001	.0001	.0017	-.0003	.0000	-.0002	-.0004	-.0003
#2	.0001	.0001	-.0032	-.0003	-.0003	-.0005	.0001	.0003

Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0037	-.0002	-.0018	-.0036	.0000	.0000	.0001	-.0245
#1	-.0040	.0003	-.0018	-.0043	.0000	.0000	.0002	-.0277
#2	-.0035	-.0008	-.0017	-.0029	.0001	.0000	.0000	-.0213

Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0003	.0212	-.0006	-.0001	.0002	.0002	F .2411
#1	-.0013	.0000	.0170	-.0009	-.0006	.0001	.0002	.2427
#2	.0003	-.0005	.0255	-.0002	.0004	.0003	.0001	.2396

Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0059	-.0001	.0008	-.0008	.00001
#1	-.0068	-.0001	.0008	-.0011	.00003
#2	-.0051	.0000	.0007	-.0004	-.00001

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10022.	225790.	18062.	931.98
#1	10032.	225760.	18088.	931.80
#2	10012.	225820.	18036.	932.16

** Kevan
mml
6/8/10*

Sample Name: LCSW Acquired: 6/7/2010 20:26:09 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.054	2.606	2.567	5.210	.12732	F .0017	1.270	1.235

#1	5.070	2.603	2.565	5.224	.12743	.0013	1.268	1.234
#2	5.039	2.609	2.568	5.196	.12722	.0020	1.272	1.236

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.248	12.70	11.95	.5143	1.242	.6439	.6306	2.528

#1	1.247	12.69	11.87	.5129	1.240	.6433	.6316	2.527
#2	1.249	12.71	12.02	.5158	1.244	.6446	.6297	2.530

Elem	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.522	12.50	1.280	F .0000	1.243	12.78	2.447	.6341

#1	2.520	12.47	1.279	.0000	1.241	12.80	2.443	.6337
#2	2.524	12.53	1.281	-.0001	1.245	12.75	2.451	.6346

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.62	-.0005	1.283	1.268	1.241	.1764	-.0027	.0000

#1	12.59	-.0002	1.282	1.268	1.240	.1755	-.0012	.0002
#2	12.65	-.0007	1.284	1.268	1.242	.1774	-.0042	-.0001

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.529	-.0006	.00020

#1	2.530	-.0004	.00017
#2	2.528	-.0007	.00023

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9910.2	221440.	18034.	893.30

#1	9913.8	221800.	18008.	893.47
#2	9906.5	221070.	18059.	893.12

Sample Name: LCSW Acquired: 6/7/2010 20:30:09 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D SILICON

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	F -.0015	.0016	.0012	F -.0002	-.00003	F .0014	.0000

#1	-.0032	-.0022	.0007	.0005	-.0001	.00002	.0011	.0000
#2	-.0029	-.0008	.0025	.0018	-.0002	-.00008	.0016	.0000

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	F .0032	-.0006	F -.0002	.0000	.0000	.0002

#1	.0001	.0001	-.0008	-.0005	-.0002	.0000	.0001	.0009
#2	.0000	.0000	.0071	-.0007	-.0002	.0000	-.0002	-.0006

Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0031	-.0009	-.0030	F -.0041	.0001	.0000	.0003	F -.0704

#1	-.0032	-.0003	-.0029	-.0033	.0001	.0000	.0003	-.0796
#2	-.0030	-.0014	-.0030	-.0048	.0001	.0000	.0004	-.0612

Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0001	F 16.76	-.0003	.0004	F .0006	F .0005	.1878

#1	.0021	.0000	16.77	-.0006	.0002	.0006	.0005	.1846
#2	.0004	.0001	16.76	-.0001	.0005	.0006	.0006	.1909

Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.07	.0005	.0004	-.0009	-.00002

#1	10.05	.0005	.0006	-.0005	-.00006
#2	10.08	.0005	.0002	-.0012	.00001

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9981.6	224710.	18085.	924.68

#1	9977.6	224600.	18096.	924.02
#2	9985.5	224830.	18074.	925.33

Sample Name: K1004880-001 Acquired: 6/7/2010 20:33:59 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 16.80	.0041	.0112	.2082	.00073	F .0090	-.0003	.0009

#1	16.77	.0042	.0127	.2085	.00070	.0096	-.0004	.0009
#2	16.83	.0040	.0097	.2079	.00076	.0084	-.0003	.0009

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 13.18	12.45	.0207	.0147	.0892	.0542	F 42.41

#1	.0001	13.24	12.49	.0213	.0146	.0887	.0542	42.52
#2	.0001	13.12	12.42	.0202	.0148	.0897	.0542	42.31

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184	9.300	F 9.639	1.512	.0004	.0151	2.320	-.0033

#1	.0183	9.364	9.632	1.518	.0005	.0152	2.348	-.0030
#2	.0185	9.236	9.646	1.506	.0004	.0150	2.293	-.0036

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	F 9.185	.0008	.0713	.0710	F .0724	.9591	40.27

#1	-.0001	9.195	.0012	.0714	.0707	.0725	.9570	40.11
#2	-.0002	9.175	.0005	.0712	.0713	.0723	.9611	40.43

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.9814	.0003	.0087	.06733

#1	.9817	.0001	.0078	.06750
#2	.9811	.0005	.0095	.06716

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10038.	223650.	18205.	912.56

#1	10032.	223120.	18115.	913.79
#2	10044.	224190.	18294.	911.34

Sample Name: K1004880-001D Acquired: 6/7/2010 20:37:57 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

User: admin : : :

Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 23.33	.0016	.0128	.2221	.00089	F .0096	-.0005	.0010

#1	23.26	.0018	.0121	.2218	.00089	.0087	-.0005	.0010
#2	23.40	.0014	.0134	.2224	.00089	.0106	-.0005	.0010

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	F 13.25	12.52	.0272	.0170	.1016	.0624	F 49.84

#1	.0003	13.24	12.54	.0271	.0169	.1018	.0623	49.69
#2	.0001	13.26	12.50	.0273	.0172	.1013	.0624	49.99

Elem	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214	F 10.73	1.529	.0007	.0197	2.783	-.0041	.0003

#1	.0211	10.75	1.531	.0005	.0197	2.766	-.0029	.0005
#2	.0218	10.71	1.527	.0008	.0198	2.800	-.0054	.0001

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 9.272	.0014	.0877	.0838	F .0858	1.108	48.21	1.346

#1	9.282	.0007	.0880	.0840	.0857	1.108	48.12	1.345
#2	9.261	.0022	.0874	.0836	.0859	1.108	48.31	1.347

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006	.0110	.06998

#1	.0004	.0116	.06990
#2	.0007	.0104	.07006

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10106.	225900.	18316.	917.89

#1	10100.	225990.	18305.	914.18
#2	10112.	225810.	18327.	921.61

Sample Name: K1004880-001S Acquired: 6/7/2010 20:41:49 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

User: admin : : :

Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 27.89	.3803	.9844	2.243	.05049	.9918	.0492	.0481

#1	27.81	.3800	.9868	2.230	.05057	.9925	.0491	.0482
#2	27.97	.3806	.9821	2.255	.05041	.9912	.0493	.0480

Elem	Cd2288	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0518	F 22.33	.2239	.4927	.3470	.3066	F 48.32	.5071

#1	.0518	22.21	.2243	.4919	.3460	.3049	48.15	.5056
#2	.0519	22.45	.2234	.4934	.3479	.3083	48.49	.5086

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 20.37	1.930	.9186	.4912	F 12.29	.8886	.0489	F 35.16

#1	20.30	1.935	.9173	.4904	12.28	.8903	.0492	35.05
#2	20.45	1.925	.9200	.4920	12.30	.8869	.0486	35.27

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.5826	.5851	.5657	1.072	52.80	1.233	.9705

#1	.0015	.5839	.5833	.5654	1.071	52.81	1.234	.9675
#2	.0010	.5813	.5870	.5659	1.073	52.79	1.231	.9734

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0124	.06608

#1	.0141	.06578
#2	.0108	.06637

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9962.3	223640.	18211.	883.78

#1	9968.8	223450.	18264.	885.34
#2	9955.9	223830.	18158.	882.21

Sample Name: K1004880-002 Acquired: 6/7/2010 20:45:39 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 Jser: admin : :
 Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 39.45	.0045	.0048	.2871	.00212	F .0124	.0004	.0019
#1	39.56	.0039	.0035	.2866	.00214	.0113	.0004	.0018
#2	39.34	.0051	.0061	.2877	.00211	.0134	.0005	.0019
Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	F 14.19	13.38	.0475	.0180	.1016	.0567	F 53.38
#1	.0010	14.15	13.22	.0478	.0180	.1018	.0570	53.24
#2	.0009	14.23	13.53	.0472	.0179	.1014	.0563	53.52
Elem	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0360	F 11.16	.5451	.0003	.0324	2.770	-.0039	.0001
#1	.0360	11.15	.5458	.0003	.0325	2.790	-.0033	.0004
#2	.0359	11.17	.5444	.0003	.0323	2.749	-.0046	-.0002
Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.662	.0029	.1612	.1199	F .1221	1.442	50.64	2.028
#1	5.661	.0029	.1616	.1199	.1221	1.442	50.70	2.029
#2	5.662	.0029	.1608	.1198	.1221	1.442	50.59	2.026
Elem	Tl1908	Li6707	Sr4077					
Units	ppm	ppm	ppm					
Avg	.0005	.0223	.12358					
#1	.0000	.0225	.12336					
#2	.0010	.0222	.12381					
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10302.	228300.	18610.	913.65				
#1	10310.	228560.	18684.	913.25				
#2	10294.	228030.	18536.	914.05				

Sample Name: CCVA3 Acquired: 6/7/2010 20:49:35 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2533	.2423	.2528	.2583	.2579	.25286	.2535	.2521	.2519
Stddev	.0004	.0007	.0006	.0001	.0013	.00130	.0014	.0011	.0002
%RSD	.1620	.2781	.2221	.0505	.5134	.51381	.5677	.4196	.0934
#1	.2536	.2428	.2524	.2582	.2589	.25378	.2546	.2514	.2518
#2	.2530	.2419	.2532	.2584	.2570	.25195	.2525	.2529	.2521

Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2545	.2550	.2516	.2536	.2520	.2513	.2517	.2565	.2494
Stddev	.0004	.0004	.0007	.0008	.0000	.0006	.0014	.0003	.0016
%RSD	.1453	.1575	.2928	.3213	.0044	.2580	.5464	.1285	.6387
#1	.2542	.2547	.2521	.2531	.2520	.2508	.2526	.2563	.2483
#2	.2547	.2553	.2510	.2542	.2520	.2517	.2507	.2568	.2505

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value									
Range									

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2449	.2474	.2392	.2541	.2431	.2509	.2527	2.474	.2551
Stddev	.0121	.0012	.0003	.0003	.0030	.0002	.0005	.012	.0012
%RSD	4.944	.4964	.1129	.1084	1.233	.0654	.1989	.4664	.4755
#1	.2363	.2482	.2394	.2543	.2409	.2510	.2524	2.483	.2559
#2	.2534	.2465	.2390	.2539	.2452	.2508	.2531	2.466	.2542

Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value									
Range									

Sample Name: CCVA3 Acquired: 6/7/2010 20:49:35 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2527	.2105	.2515	.2539	.2523	.2548	.0012	.1227	.2530
Stddev	.0019	.0122	.0004	.0004	.0010	.0003	.0011	.0150	.0004
%RSD	.7637	5.786	.1686	.1450	.4100	.1132	94.33	12.26	.1658

#1	.2541	.2191	.2512	.2541	.2516	.2546	.0020	.1120	.2527
#2	.2514	.2018	.2518	.2536	.2531	.2550	.0004	.1333	.2533

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value									
Range									

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2501	.0006	.00001
Stddev	.0014	.0005	.00006
%RSD	.5591	83.40	930.67

#1	.2491	.0003	-.00004
#2	.2510	.0010	.00005

Check ?	Chk Pass	None	None
Value			
Range			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9961.7	223230.	17713.	927.09
Stddev	18.2	1223.	109.	2.39
%RSD	.18245	.54780	.61451	.25749

#1	9948.8	224090.	17636.	928.77
#2	9974.5	222360.	17790.	925.40

Sample Name: CCVB3 Acquired: 6/7/2010 20:52:27 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.585	10.03	.0018	1.015	10.21	.00005	.0032	-.0001	.0002
Stddev	.004	.08	.0012	.002	.02	.00003	.0001	.0000	.0000
%RSD	.0602	.7666	69.13	.1697	.1677	67.710	2.304	34.10	16.69

#1	6.588	9.977	.0027	1.014	10.20	.00007	.0033	-.0001	.0002
#2	6.582	10.09	.0009	1.016	10.22	.00003	.0031	-.0001	.0002

Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	9.991	9.491	-.0005	.0000	.0087	-.0002	9.926	.0003
Stddev	.0002	.087	.013	.0001	.0001	.0006	.0001	.026	.0004
%RSD	3.450	.8682	.1327	16.58	787.0	6.913	51.49	.2617	143.4

#1	.0045	9.930	9.482	-.0005	.0001	.0083	-.0001	9.908	.0005
#2	.0043	10.05	9.500	-.0006	-.0001	.0092	-.0002	9.945	.0000

Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass	None
Value									
Range									

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.06	9.664	9.735	.0004	-.0001	.0002	.0004	9.873	-.0030
Stddev	.05	.010	.070	.0001	.0002	.0002	.0002	.072	.0005
%RSD	.5199	.1003	.7245	19.27	253.1	92.37	43.45	.7340	16.78

#1	10.03	9.671	9.686	.0004	.0001	.0001	.0005	9.822	-.0027
#2	10.10	9.658	9.785	.0005	-.0003	.0003	.0003	9.925	-.0034

Check ?	Chk Pass	None	Chk Pass	None	None	None	None	Chk Pass	None
Value									
Range									

Sample Name: CCVB3 Acquired: 6/7/2010 20:52:27 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	9.802	-.0008	.0001	-.0002	.0000	10.22	9.774	.0003
Stddev	.0004	.083	.0008	.0000	.0000	.000	.01	.027	.0001
%RSD	152.5	.8437	95.50	56.87	3.033	909.4	.1455	.2786	54.84
#1	.0000	9.744	-.0014	.0001	-.0002	.0000	10.21	9.755	.0002
#2	.0005	9.861	-.0003	.0000	-.0002	.0000	10.23	9.793	.0003
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	Chk Pass	None
Value									
Range									

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0004	.9746	.99974
Stddev	.0003	.0106	.00721
%RSD	74.18	1.087	.72089
#1	.0002	.9671	.99465
#2	.0007	.9821	1.0048
Check ?	None	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9909.4	221010.	17698.	892.72
Stddev	5.4	971.	7.	4.00
%RSD	.05470	.43949	.04172	.44828
#1	9913.3	220320.	17703.	895.55
#2	9905.6	221700.	17693.	889.89

Sample Name: CCB3 Acquired: 6/7/2010 20:56:32 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0036	-.0045	.0018	.0015	.0004	.00003	.0010	.0000
Stddev	.0001	.0010	.0002	.0010	.0001	.00001	.0001	.0000
%RSD	2.977	21.28	12.29	65.96	24.38	33.853	9.271	27.30

#1	-.0035	-.0051	.0020	.0008	.0005	.00002	.0011	.0000
#2	-.0036	-.0038	.0017	.0022	.0004	.00004	.0009	.0000

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020							
Low Limit	-.0020							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	.0007	-.0025	-.0005	-.0002	-.0002	.0000
Stddev	.0000	.0000	.0035	.0000	.0003	.0001	.0002	.0000
%RSD	88.11	6.630	536.0	1.870	62.68	30.57	105.8	36.32

#1	.0000	.0000	-.0018	-.0025	-.0008	-.0002	.0000	.0000
#2	.0000	.0000	.0032	-.0026	-.0003	-.0001	-.0003	.0000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	.0001	-.0041	F -.0045	-.0050	.0002	.0009	.0000
Stddev	.0014	.0000	.0107	.0001	.0004	.0000	.0001	.000
%RSD	45.47	65.38	262.7	1.334	8.636	11.50	12.14	518.8

#1	-.0020	.0000	-.0116	-.0044	-.0053	.0002	.0009	-.0002
#2	-.0040	.0001	.0035	-.0045	-.0047	.0001	.0008	.0001

Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020				
Low Limit				-.0020				

Sample Name: CCB3 Acquired: 6/7/2010 20:56:32 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0378	.0000	.0003	-.0260	-.0003	-.0002	.0000
Stddev	.0000	.0171	.002	.0006	.0048	.0001	.0002	.0001
%RSD	27.32	45.21	103700.	180.4	18.31	37.15	76.67	712.3

#1	.0001	-.0257	-.0016	.0007	-.0227	-.0002	-.0003	.0001
#2	.0001	-.0499	.0016	-.0001	-.0294	-.0003	-.0001	.0000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2138	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0031	-.0067	.0000	.0007	.0013	-.00004
Stddev	.0001	.0007	.0072	.000	.0007	.0001	.00005
%RSD	70.87	21.60	106.0	844.9	98.30	9.719	143.70

#1	-.0001	.0035	-.0118	-.0001	.0002	.0014	.00000
#2	-.0002	.0026	-.0017	.0000	.0011	.0012	-.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9886.1	222700.	17701.	910.68
Stddev	2.8	286.	9.	1.84
%RSD	.02865	.12860	.05289	.20173

#1	9888.1	222490.	17694.	911.98
#2	9884.1	222900.	17707.	909.39

Service Request K1004870 _____
 Calibration _____ 060410D _____
 QC in calibration 060410D _____
 QC Service Request # K1004934 _____
 STARLIMS Batch # 203621 _____

ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	<u> X </u>	<u> </u>	<u> </u>
2. ICV within 10 % of true value	<u> X </u>	<u> </u>	<u> </u>
3. CCV's in control	<u> X </u>	<u> </u>	<u> </u>
4. CCB's and/or ICB's below MRL	<u> X </u>	<u> </u>	<u> </u>
5. Method blank below MRL	<u> X </u>	<u> </u>	<u> </u>
6. LCS in control	<u> X </u>	<u> </u>	<u> </u>
7. Spike and duplicate in control	<u> X </u>	<u> </u>	<u> </u>
8. All analytes within instrument linear range	<u> X </u>	<u> </u>	<u> </u>
9. Adequate rinse out time allowed	<u> X </u>	<u> </u>	<u> </u>
10. Internal standards in control	<u> X </u>	<u> </u>	<u> </u>
11. Interferences checked	<u> X </u>	<u> </u>	<u> </u>
12. Se over MRL	<u> </u>	<u> X </u>	<u> </u>
13. CRA run	<u> X </u>	<u> </u>	<u> </u>
14. ICSA and ICSAB in control	<u> </u>	<u> </u>	<u> X </u>
15. Serial dilution run	<u> </u>	<u> </u>	<u> X </u>
16. Post spike in control	<u> </u>	<u> </u>	<u> X </u>

Comments: 060710B = BQC

Primary Review by B
 Secondary Review by JDB

Date 6/7/10
 Date 6/7/10

R:\icp\misc\data review forms\IQC ExCell review form

Sample List

Num	Label	Type	Weight	Volume	Dilution	Rack	Row	Column	Height
1	Cal. Blk	Blank	0 kg	0 ml	1.00	0	1	1	145
2	Cal Std	Fully Quant Standard	0 kg	0 ml	1.00	0	1	2	145
3	ICV1	Unknown	0 kg	0 ml	1.00	0	1	3	145
4	CCV1	Unknown	0 kg	0 ml	1.00	0	1	2	145
5	ICB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
6	CCB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
7	SOIL CRA	Unknown	0 kg	0 ml	1.00	0	1	4	145
8	K1004934-MB	Unknown	0 kg	0 ml	1.00	1	1	1	145
9	LCSW K1004934	Unknown	0 kg	0 ml	1.00	1	1	2	145
10	K1004934-005	Unknown	0 kg	0 ml	1.00	1	1	3	145
11	K1004934-005D	Unknown	0 kg	0 ml	1.00	1	1	4	145
12	K1004934-005S	Unknown	0 kg	0 ml	1.00	1	1	5	145
13	K1004934-006	Unknown	0 kg	0 ml	1.00	1	1	6	145
14	K1004934-007	Unknown	0 kg	0 ml	1.00	1	1	7	145
15	K1004934-008	Unknown	0 kg	0 ml	1.00	1	1	8	145
16	CCV2	Unknown	0 kg	0 ml	1.00	0	1	2	145
17	CCB2	Unknown	0 kg	0 ml	1.00	0	1	1	145
18	K1004870-001	Unknown	0 kg	0 ml	1.00	1	1	9	145
19	K1004870-002	Unknown	0 kg	0 ml	1.00	1	1	10	145
20	K1004870-003	Unknown	0 kg	0 ml	1.00	1	1	11	145
21	K1004870-004	Unknown	0 kg	0 ml	1.00	1	1	12	145
22	K1005067-002	Unknown	0 kg	0 ml	1.00	1	2	1	145
23	K1005067-003	Unknown	0 kg	0 ml	1.00	1	2	2	145
24	K1005067-004	Unknown	0 kg	0 ml	1.00	1	2	3	145
25	CCV3	Unknown	0 kg	0 ml	1.00	0	1	2	145
26	CCB3	Unknown	0 kg	0 ml	1.00	0	1	1	145

Instrument Setup - Sample Configuration

Sample	Configuration	Date
All Samples	acqmet11	17:39:30 6/4/10

Instrument Setup - Configurations

Configuration Name - acqmet11
Description - PQExcell CCT Sim Default
Date - 17:39:30 6/4/10
Maximum Uptake Time - 0
Maximum Washout Time - 0
S-Option Pump Running - No
Plasma Screen Forward - No
Makeup Gas On - No
Use CCT - No
Use Accessory Gas - No

Setting	Value
Extraction	-450.00
Lens1	5.00
Lens2	-60.00
Lens3	-25.00
Pole Bias	5.00
Sampling Dep	400.00
Horizon	-40.00
Verti	105.00
C	13.00
Auxil	0.80
Nebuliser	0.82
Forward power	1,365.00
HT1 Voltage	1,900.00
HT2 Voltage	2,600.00
D1	-40.00
Focus	8.00

Mass	Mass DAC	Peak Width (AMU)	Error (AMU)	Include	Masses in Tune Solution
6.015	1303	0.715	0.015	TRUE	
7.016	1550	0.715	-0.015	TRUE	Li-7
9.012	2057	0.715	-0.019	TRUE	Be-9
23.985	5876	0.715	0.015	TRUE	Mg-24
24.986	6129	0.664	0.009	TRUE	Co-59
25.983	6383	0.715	0.01	TRUE	In-115
26.982	6636	0.664	0.005	TRUE	Ce-140
43.956	10966	0.715	0.042	TRUE	Pb-208
45.953	11460	0.715	-0.015	TRUE	Bi-209
51.94	12987	0.766	-0.004	TRUE	U-238
53.949	13501	0.715	0.006	TRUE	
55.935	14008	0.715	0.012	TRUE	
56.935	14255	0.715	-0.018	TRUE	
57.934	14515	0.715	0.004	TRUE	
58.933	14762	0.715	-0.025	TRUE	
65.926	16543	0.715	-0.023	TRUE	
75.92	19091	0.715	-0.011	TRUE	
112.904	28505	0.714	-0.036	TRUE	
114.904	29018	0.663	-0.022	TRUE	
128.905	32593	0.663	0.008	TRUE	
130.905	33107	0.612	0.025	TRUE	
131.905	33360	0.663	0.018	TRUE	
139.905	35401	0.663	0.026	TRUE	
141.908	35908	0.663	0.013	TRUE	
155.923	39477	0.612	0.001	TRUE	
157.924	39984	0.612	-0.011	TRUE	
203.973	51729	0.561	0.004	TRUE	
205.974	52236	0.561	-0.01	TRUE	
206.976	52496	0.561	0.008	TRUE	
207.977	52750	0.612	0.003	TRUE	
208.98	53003	0.561	-0.009	TRUE	
238.051	60420	0.51	-0.005	TRUE	

Excluded in Calib	Excluded in Results	Run	Multi Element	Sample Class	Internal Standard	Standard Addition		
Uncorrected ICPS Per Mass			S-Calibration Has Edited Standard F-Interference Correction Failed	E-Calibration Edited T-Tripped	I-Invalid Calibration P-Pulse Counting	V-Valley Integration Failed M-Result Over Max		
Run	Label	TimeStamp	69Ga	7Li	9Be	59Co	115In	208Pb
1	Stability 06-04-2010	6/4/2010 7:33:36 AM	(P)0.167	(P)29496.589	(P)5950.906	(P)39276.923	(P)92108.524	(P)46202.597
2	Stability 06-04-2010	6/4/2010 7:34:52 AM	(P)0.333	(P)29334.755	(P)5919.393	(P)39982.877	(P)92887.192	(P)46964.743
3	Stability 06-04-2010	6/4/2010 7:36:07 AM	(P)0.333	(P)29629.195	(P)5989.589	(P)40965.491	(P)94234.119	(P)46997.688
4	Stability 06-04-2010	6/4/2010 7:37:22 AM	(P)0.333	(P)29623.182	(P)6048.947	(P)41215.041	(P)94785.600	(P)47413.222
5	Stability 06-04-2010	6/4/2010 7:38:37 AM	(P)0.333	(P)30026.357	(P)5890.881	(P)41029.011	(P)94505.403	(P)47220.920
	Mean of Stability 06-04	6/4/2010 7:33:36 AM	(P)0.300	(P)29622.016	(P)5959.943	(P)40493.868	(P)93704.168	(P)46959.834
	SD of Stability 06-04-20		(P)0.075	(P)255.830	(P)61.839	(P)832.311	(P)1151.722	(P)460.595
	%RSD of Stability 06		(P)24.845	(P)0.864	(P)1.038	(P)2.055	(P)1.229	(P)0.981

Run	Label	TimeStamp	209Bi	232Po	238U
1	Stability 06-04-2010	6/4/2010 7:33:36 AM	(P)75278.990	(P)0.333	(P)72823.022
2	Stability 06-04-2010	6/4/2010 7:34:52 AM	(P)76036.666	(P)0.000	(P)73955.302
3	Stability 06-04-2010	6/4/2010 7:36:07 AM	(P)76369.601	(P)0.000	(P)74474.170
4	Stability 06-04-2010	6/4/2010 7:37:22 AM	(P)76620.946	(P)0.000	(P)75370.876
5	Stability 06-04-2010	6/4/2010 7:38:37 AM	(P)76709.750	(P)0.500	(P)75509.881
	Mean of Stability 06-04	6/4/2010 7:33:36 AM	(P)76203.191	(P)0.167	(P)74426.650
	SD of Stability 06-04-20		(P)578.941	(P)0.236	(P)1102.384
	%RSD of Stability 06		(P)0.760	(P)141.421	(P)1.481

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621



Sample Name: TimeStamp	Cal. Blk 6/4/10 17:43				Mean	SD	%RSD
Antimony 121	-0.0012	0.0003	0.0008	0	0.001	0	
Antimony 123	0.0006	-0.0001	-0.0005	0	0.0006	0	
Arsenic 75	-0.0414	0.0638	-0.0225	0	0.0561	0	
Beryllium 9	0.0003	-0.0004	0.0001	0	0.0004	0	
Cadmium 111	-0.0002	-0.0005	0.0007	0	0.0006	0	
Cadmium 114	0.001	-0.0005	-0.0006	0	0.0009	0	
Chromium 52	-0.0059	0.0007	0.0052	0	0.0056	0	
Chromium 53	0.0008	0.0021	-0.0029	0	0.0026	0	
Cobalt 59	-0.0003	0.0003	0	0	0.0003	0	
Copper 63	-0.0078	0.0007	0.0071	0	0.0075	0	
Copper 65	-0.0011	0.0041	-0.0031	0	0.0037	0	
Lead 206	-0.0003	0.0014	-0.0011	0	0.0013	0	
Lead 207	0.0005	0.0009	-0.0013	0	0.0012	0	
Lead 208	-0.0001	0.0002	-0.0002	0	0.0002	0	
Molybdenum 95	-0.0009	0.0011	-0.0002	0	0.001	0	
Molybdenum 97	-0.0009	-0.0002	0.001	0	0.0009	0	
Molybdenum 98	-0.0002	0.0009	-0.0006	0	0.0008	0	
Nickel 60	-0.0077	0.0101	-0.0024	0	0.0092	0	
Nickel 62	-0.0363	0.0396	-0.0033	0	0.038	0	
Selenium 77	-0.0408	0.0264	0.0144	0	0.0359	0	
Selenium 78	-0.007	0.0342	-0.0272	0	0.0313	0	
Selenium 82	-0.175	0.2338	-0.0589	0	0.2107	0	
Silver 107	0.0016	-0.001	-0.0006	0	0.0014	0	
Silver 109	-0.0004	-0.0002	0.0006	0	0.0006	0	
Thallium 203	0.0023	-0.0008	-0.0016	0	0.0021	0	
Thallium 205	0.0022	-0.0014	-0.0007	0	0.0019	0	
Vanadium 51	-0.003	-0.0015	0.0045	0	0.004	0	
Zinc 66	0.0058	0.0028	-0.0086	0	0.0076	0	
Zinc 67	-0.0348	0.0104	0.0244	0	0.031	0	
Zinc 68	0.006	-0.0088	0.0027	0	0.0078	0	

Internal Standard

Factors:

Lithium 6	0.944	1.009	1.053	0.944 n/a	n/a
Scandium 45	0.944	1.026	1.035	0.944 n/a	n/a
Gallium 71	0.935	1.043	1.029	0.935 n/a	n/a
Rhodium 103	0.977	1.004	1.02	0.977 n/a	n/a
Indium 115	0.969	1.016	1.017	0.969 n/a	n/a
Lutetium 175	0.983	0.996	1.022	0.983 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	Cal Std	Mean	SD	%RSD			
TimeStamp	6/4/10 17:47						
Antimony	121	24.59	24.98	25.43	25	0.4226	1.691
Antimony	123	24.83	24.97	25.2	25	0.1853	0.7413
Arsenic	75	25.41	24.91	24.67	25	0.379	1.516
Beryllium	9	24.86	24.94	25.21	25	0.1821	0.7285
Cadmium	111	24.66	25.24	25.11	25	0.3039	1.216
Cadmium	114	24.78	24.53	25.69	25	0.6102	2.441
Chromium	52	25.08	25.01	24.91	25	0.083	0.3318
Chromium	53	25.33	24.78	24.89	25	0.2878	1.151
Cobalt	59	24.69	25.21	25.09	25	0.2717	1.087
Copper	63	25.45	24.24	25.31	25	0.6629	2.651
Copper	65	25.71	24.79	24.5	25	0.6338	2.535
Lead	206	24.98	24.99	25.03	25	0.0266	0.1064
Lead	207	24.34	25.55	25.11	25	0.6155	2.462
Lead	208	24.72	25.04	25.24	25	0.2635	1.054
Molybdenum	95	25.22	24.99	24.79	25	0.2166	0.8664
Molybdenum	97	24.89	25.33	24.78	25	0.2893	1.157
Molybdenum	98	25.44	24.7	24.86	25	0.3912	1.565
Nickel	60	25.21	24.84	24.95	25	0.1878	0.7514
Nickel	62	25.17	24.75	25.08	25	0.2221	0.8884
Selenium	77	25.39	24.82	24.78	25	0.3406	1.362
Selenium	78	25.4	24.83	24.76	25	0.3498	1.399
Selenium	82	25.64	25.22	24.14	25	0.7772	3.109
Silver	107	25.03	25.21	24.76	25	0.2308	0.923
Silver	109	24.74	25.22	25.04	25	0.2394	0.9575
Thallium	203	24.95	25.13	24.92	25	0.1112	0.4448
Thallium	205	25.08	24.92	25	25	0.0764	0.3057
Vanadium	51	25.04	24.93	25.03	25	0.0574	0.2295
Zinc	66	25.34	25.17	24.49	25	0.4495	1.798
Zinc	67	24.8	25.71	24.49	25	0.6318	2.527
Zinc	68	25.18	24.5	25.32	25	0.4392	1.757

Internal Standard

Factors:

Lithium	6	0.999	1.003	1.034	0.999	n/a	n/a
Scandium	45	0.973	1.037	1.081	0.973	n/a	n/a
Gallium	71	0.979	1.017	1.009	0.979	n/a	n/a
Rhodium	103	0.974	1.024	1.03	0.974	n/a	n/a
Indium	115	0.969	1.012	1.039	0.969	n/a	n/a
Lutetium	175	0.985	1.015	1.022	0.985	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		ICV1			Mean	SD	%RSD
TimeStamp		6/4/10 17:56					
Antimony	121	23.06	24.91	24.14	24.04	0.9289	3.865
Antimony	123	23.63	23.83	23.68	23.72	0.1056	0.4454
Arsenic	75	24.48	25.56	24.85	24.96	0.5495	2.201
Beryllium	9	2.676	2.611	2.462	2.583	0.11	4.26
Cadmium	111	12.15	12.44	12.29	12.29	0.1413	1.149
Cadmium	114	13.31	13.38	13.11	13.27	0.1448	1.091
Chromium	52	10.08	9.795	9.8	9.892	0.1634	1.652
Chromium	53	11.34	11.39	10.66	11.13	0.4062	3.649
Cobalt	59	25.3	25.22	24.24	24.92	0.5901	2.368
Copper	63	12.71	12.8	12.77	12.76	0.0434	0.3401
Copper	65	12.49	12.78	12.17	12.48	0.3055	2.447
Lead	206	24.05	23.56	24.1	23.9	0.2982	1.248
Lead	207	25.89	26.15	25.36	25.8	0.4021	1.558
Lead	208	25.45	24.91	24.96	25.1	0.2977	1.186
Molybdenum	95	24	26.05	24.7	24.92	1.043	4.184
Molybdenum	97	24.31	25.1	24.95	24.79	0.4167	1.681
Molybdenum	98	23.91	25.27	24.24	24.47	0.7099	2.901
Nickel	60	25.17	24.76	24.64	24.86	0.2826	1.137
Nickel	62	24.69	25.61	24.4	24.9	0.6331	2.542
Selenium	77	25.33	25.45	25.41	25.4	0.059	0.2323
Selenium	78	25.32	25.27	26.26	25.62	0.5593	2.183
Selenium	82	23.56	25.4	25.24	24.73	1.021	4.128
Silver	107	11.83	12.81	12.29	12.31	0.4918	3.995
Silver	109	12.78	13.21	12.8	12.93	0.245	1.895
Thallium	203	25.35	24.52	24.81	24.89	0.4208	1.691
Thallium	205	24.94	25.35	24.05	24.78	0.6613	2.669
Vanadium	51	26.38	25.13	25.61	25.71	0.6289	2.446
Zinc	66	26.95	26.09	26.06	26.37	0.5082	1.927
Zinc	67	28.24	28.81	28.48	28.51	0.2859	1.003
Zinc	68	28.85	28.7	28.98	28.84	0.1365	0.4732

Internal Standard

Factors:

Lithium	6	0.989	1.059	1.04	0.989	n/a	n/a
Scandium	45	1.01	1.072	1.082	1.01	n/a	n/a
Gallium	71	0.951	1.02	1.041	0.951	n/a	n/a
Rhodium	103	0.948	1.061	1.033	0.948	n/a	n/a
Indium	115	0.967	1.036	1.021	0.967	n/a	n/a
Lutetium	175	0.987	1.008	1.009	0.987	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCV1	Mean	SD	%RSD
TimeStamp	6/4/10 17:59			
Antimony 121	26.25	25.8	23.68	25.24 1.373 5.44
Antimony 123	24.18	24.4	24.99	24.52 0.4207 1.716
Arsenic 75	25.83	25.68	23.5	25.01 1.306 5.224
Beryllium 9	27.13	25.18	24.07	25.46 1.548 6.082
Cadmium 111	24.56	25.68	25.08	25.11 0.5622 2.239
Cadmium 114	25.97	26.2	23.31	25.16 1.603 6.37
Chromium 52	24.19	25.49	24.52	24.73 0.6731 2.721
Chromium 53	25.8	25.76	24.08	25.22 0.9809 3.89
Cobalt 59	26.11	26.68	24.46	25.75 1.153 4.476
Copper 63	25.45	25.09	23.84	24.79 0.8415 3.394
Copper 65	25.43	25.61	25.3	25.45 0.1544 0.6068
Lead 206	24.07	23.45	24.62	24.05 0.5834 2.426
Lead 207	23.67	24.65	25.94	24.75 1.138 4.597
Lead 208	24.03	23.95	24.62	24.2 0.3657 1.511
Molybdenum 95	24.87	25.3	24.94	25.03 0.2302 0.9194
Molybdenum 97	25.13	24.78	24.93	24.95 0.176 0.7054
Molybdenum 98	24.67	25.28	25.37	25.11 0.3799 1.513
Nickel 60	25.33	25.37	24.51	25.07 0.488 1.947
Nickel 62	25.31	25.43	24.22	24.99 0.6635 2.655
Selenium 77	25.11	25.12	25.41	25.22 0.1717 0.681
Selenium 78	26.02	24.51	24.88	25.14 0.7879 3.134
Selenium 82	24.99	25.47	24.31	24.92 0.5822 2.336
Silver 107	24.55	25.08	24.92	24.85 0.2714 1.092
Silver 109	26.02	25.44	24.28	25.25 0.8836 3.5
Thallium 203	23.49	23.32	24.17	23.66 0.4514 1.908
Thallium 205	23.25	24.44	24.76	24.15 0.7975 3.302
Vanadium 51	25.31	25.83	24.27	25.14 0.7912 3.147
Zinc 66	25.68	25.04	23.51	24.74 1.111 4.492
Zinc 67	25.13	25.33	25.39	25.28 0.1373 0.5432
Zinc 68	26.39	25.56	23.63	25.19 1.418 5.628

Internal Standard

Factors:

Lithium 6	1.008	1.019	1.01	1.008 n/a n/a
Scandium 45	1.024	1.103	1.054	1.024 n/a n/a
Gallium 71	0.995	1.036	1.001	0.995 n/a n/a
Rhodium 103	1.009	1.048	1.063	1.009 n/a n/a
Indium 115	0.997	1.052	0.993	0.997 n/a n/a
Lutetium 175	0.945	0.973	1.003	0.945 n/a n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	ICB1	Mean	SD	%RSD		
TimeStamp	6/4/10 18:13					
Antimony 121	0.0105	0.0098	0.0093	0.0099	0.0006	6.102
Antimony 123	0.0096	0.0131	0.0093	0.0107	0.0021	19.54
Arsenic 75	-0.0199	-0.0301	-0.0168	-0.0223	0.007	31.36
Beryllium 9	0.0011	0.0012	0.0018	0.0014	0.0004	26.08
Cadmium 111	0.001	0.0007	0.0007	0.0008	0.0002	25.48
Cadmium 114	0.0004	0.0004	0.0013	0.0007	0.0005	78.33
Chromium 52	0.0173	-0.0085	0.0198	0.0095	0.0157	164.3
Chromium 53	0.0031	0.0157	0.002	0.0069	0.0076	109.6
Cobalt 59	-0.0001	0.0009	0.0027	0.0012	0.0014	123.1
Copper 63	-0.0042	0.0037	0.0005	0	0.004	12790
Copper 65	0.001	0.0053	-0.0009	0.0018	0.0032	176
Lead 206	0.0016	0.0025	0.0009	0.0017	0.0008	48.16
Lead 207	0.0045	0.0057	0.0016	0.0039	0.0021	53.89
Lead 208	0.0025	0.0033	0.0012	0.0023	0.0011	46.13
Molybdenum 95	0.0004	0.0002	0.0012	0.0006	0.0005	90.24
Molybdenum 97	-0.0013	-0.0016	-0.0005	-0.0011	0.0006	53.81
Molybdenum 98	0	0.0006	-0.0006	0	0.0006	2637
Nickel 60	-0.0032	-0.0015	-0.0197	-0.0081	0.01	122.8
Nickel 62	-0.0314	-0.0008	-0.0217	-0.018	0.0156	87.07
Selenium 77	0.0572	0.1038	0.0485	0.0699	0.0298	42.62
Selenium 78	-0.2011	-0.1437	-0.0767	-0.1405	0.0622	44.3
Selenium 82	-0.0204	0.0006	-0.0209	-0.0136	0.0123	90.31
Silver 107	0.003	0.0028	0.003	0.0029	0.0001	3.356
Silver 109	0.0039	0.0024	0.0029	0.003	0.0008	25.16
Thallium 203	-0.0046	-0.0014	-0.0043	-0.0034	0.0018	51.71
Thallium 205	-0.0041	-0.0046	-0.0055	-0.0047	0.0007	14.92
Vanadium 51	0.0089	-0.0064	0.0103	0.0043	0.0092	216.1
Zinc 66	0.0021	0.0109	0.0108	0.0079	0.005	63.71
Zinc 67	0.0084	-0.0153	-0.0438	-0.0169	0.0261	154.7
Zinc 68	0.0173	0.0406	0.0119	0.0232	0.0153	65.81

Internal Standard

Factors:

Lithium 6	0.83	0.933	0.975	0.83	n/a	n/a
Scandium 45	0.879	1.004	1.036	0.879	n/a	n/a
Gallium 71	0.893	0.994	1.009	0.893	n/a	n/a
Rhodium 103	0.912	1.012	1.023	0.912	n/a	n/a
Indium 115	0.919	0.984	0.991	0.919	n/a	n/a
Lutetium 175	0.91	0.975	0.961	0.91	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCB1	Mean	SD	%RSD			
TimeStamp	6/4/10 18:17						
Antimony	121	0.0074	0.0054	0.0072	0.0067	0.0011	17.07
Antimony	123	0.0089	0.005	0.0058	0.0066	0.0021	31.44
Arsenic	75	0.0022	0.0111	0.0586	0.0239	0.0303	126.6
Beryllium	9	0.0014	0.0028	0.0002	0.0015	0.0013	90.73
Cadmium	111	0.0018	0.0004	0.0013	0.0012	0.0007	58.18
Cadmium	114	0.0004	0.0008	0.0025	0.0012	0.0011	86.93
Chromium	52	0.0085	0.033	0.0336	0.025	0.0143	57.15
Chromium	53	0.0005	0.0053	0.0113	0.0057	0.0054	94.31
Cobalt	59	0.0009	-0.0012	0.0017	0.0005	0.0015	299.9
Copper	63	-0.0021	-0.0047	0.0004	-0.0021	0.0026	121.2
Copper	65	0.0061	-0.002	0.0111	0.005	0.0066	131.2
Lead	206	-0.0005	0.0007	0.0046	0.0016	0.0027	167.4
Lead	207	-0.0011	0.0013	0.004	0.0014	0.0025	182
Lead	208	-0.0003	0.001	0.0037	0.0015	0.002	137.9
Molybdenum	95	-0.001	-0.0016	0.0012	-0.0005	0.0014	310.7
Molybdenum	97	-0.0033	-0.0026	-0.001	-0.0023	0.0012	52.62
Molybdenum	98	-0.0015	-0.0004	-0.0012	-0.001	0.0005	53.13
Nickel	60	-0.0023	-0.0145	0.0014	-0.0051	0.0083	161.7
Nickel	62	0.0324	0.0103	0.0909	0.0445	0.0416	93.54
Selenium	77	0.1246	0.013	0.0323	0.0566	0.0597	105.3
Selenium	78	-0.3303	-0.1066	-0.06	-0.1656	0.1445	87.23
Selenium	82	0.105	0.0286	0.2123	0.1153	0.0923	80.02
Silver	107	0.0012	0.0009	0	0.0007	0.0006	84.18
Silver	109	0.0007	0.0002	0.0011	0.0007	0.0005	72.28
Thallium	203	-0.0055	-0.0042	-0.0048	-0.0048	0.0006	13.4
Thallium	205	-0.0062	-0.0074	-0.0066	-0.0067	0.0006	9.056
Vanadium	51	0.0052	0.0123	0.012	0.0098	0.004	40.55
Zinc	66	-0.0078	-0.0143	0.0265	0.0014	0.0219	1530
Zinc	67	-0.0238	-0.0248	0.0169	-0.0106	0.0238	225.5
Zinc	68	0.019	0.015	0.0501	0.028	0.0192	68.51

Internal Standard

Factors:

Lithium	6	0.923	0.991	0.982	0.923	n/a	n/a
Scandium	45	0.95	1.008	1.046	0.95	n/a	n/a
Gallium	71	0.939	0.991	1.051	0.939	n/a	n/a
Rhodium	103	0.967	1.036	1.051	0.967	n/a	n/a
Indium	115	0.972	1.009	1	0.972	n/a	n/a
Lutetium	175	0.948	0.982	0.989	0.948	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		SOIL CRA			Mean	SD	%RSD
TimeStamp		6/4/10 18:21					
Antimony	121	0.0524	0.0567	0.0519	0.0537	0.0026	4.9
Antimony	123	0.0556	0.0555	0.0554	0.0555	0.0001	0.141
Arsenic	75	0.5633	0.4813	0.5331	0.5259	0.0415	7.881
Beryllium	9	0.0159	0.0182	0.0141	0.0161	0.0021	12.78
Cadmium	111	0.0197	0.0238	0.0178	0.0204	0.0031	15.11
Cadmium	114	0.018	0.0234	0.0208	0.0207	0.0027	12.88
Chromium	52	0.2324	0.2165	0.1907	0.2132	0.0211	9.886
Chromium	53	0.208	0.2094	0.2181	0.2118	0.0055	2.573
Cobalt	59	0.0199	0.0204	0.0209	0.0204	0.0005	2.401
Copper	63	0.1091	0.1074	0.0994	0.1053	0.0052	4.921
Copper	65	0.1007	0.0986	0.118	0.1058	0.0106	10.05
Lead	206	0.0227	0.0221	0.0246	0.0231	0.0013	5.57
Lead	207	0.0179	0.0246	0.0215	0.0213	0.0034	15.88
Lead	208	0.0209	0.0237	0.0212	0.0219	0.0015	7.042
Molybdenum	95	0.0485	0.0515	0.0423	0.0474	0.0047	9.917
Molybdenum	97	0.0452	0.0446	0.0478	0.0459	0.0017	3.663
Molybdenum	98	0.0407	0.0469	0.0442	0.0439	0.0031	7.122
Nickel	60	0.2026	0.1812	0.1869	0.1902	0.0111	5.842
Nickel	62	0.2076	0.2273	0.2132	0.216	0.0102	4.716
Selenium	77	1.022	1.128	1.048	1.066	0.0555	5.209
Selenium	78	1.111	0.993	0.7752	0.9598	0.1704	17.76
Selenium	82	1.246	0.9381	1.038	1.074	0.157	14.62
Silver	107	0.0198	0.0212	0.0208	0.0206	0.0007	3.509
Silver	109	0.0227	0.0203	0.0198	0.021	0.0015	7.337
Thallium	203	0.0142	0.0171	0.0172	0.0162	0.0017	10.76
Thallium	205	0.0106	0.0105	0.0116	0.0109	0.0006	5.5
Vanadium	51	0.2165	0.2048	0.189	0.2034	0.0138	6.796
Zinc	66	0.492	0.4608	0.4658	0.4729	0.0168	3.547
Zinc	67	0.4586	0.4942	0.4597	0.4708	0.0202	4.294
Zinc	68	0.4471	0.494	0.4929	0.478	0.0268	5.598

Internal Standard

Factors:

Lithium	6	0.935	0.98	1.012	0.935	n/a	n/a
Scandium	45	0.977	1.046	1.027	0.977	n/a	n/a
Gallium	71	0.959	1.006	1.009	0.959	n/a	n/a
Rhodium	103	0.994	1.009	1.023	0.994	n/a	n/a
Indium	115	0.961	1.009	0.999	0.961	n/a	n/a
Lutetium	175	0.972	0.994	1.007	0.972	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004934-MB			Mean	SD	%RSD
TimeStamp		6/4/10 18:25					
Antimony	121	0.0029	0.003	0.0035	0.0031	0.0004	11.72
Antimony	123	0.0037	0.0023	0.0035	0.0032	0.0008	23.68
Arsenic	75	0.0382	0.0169	0.0026	0.0192	0.0179	93.31
Beryllium	9	-0.0007	0.0017	0.0007	0.0006	0.0012	211.5
Cadmium	111	0.0001	-0.0014	0.0004	-0.0003	0.001	319.2
Cadmium	114	-0.001	-0.0006	-0.0003	-0.0007	0.0003	51.6
Chromium	52	0.1164	0.1098	0.067	0.0978	0.0268	27.43
Chromium	53	0.0124	0.0045	0.0138	0.0102	0.005	49.33
Cobalt	59	-0.0021	-0.0002	0.0006	-0.0006	0.0014	231.9
Copper	63	-0.0178	-0.0166	-0.0143	-0.0162	0.0018	11.1
Copper	65	-0.0081	-0.0132	-0.0063	-0.0092	0.0036	38.74
Lead	206	-0.0021	-0.0011	-0.0004	-0.0012	0.0009	71.54
Lead	207	-0.0016	0	-0.0036	-0.0017	0.0018	104.9
Lead	208	-0.0021	-0.0019	-0.0026	-0.0022	0.0003	14.59
Molybdenum	95	-0.0013	-0.0015	-0.0032	-0.002	0.001	51.51
Molybdenum	97	-0.0042	-0.0052	-0.0044	-0.0046	0.0005	10.7
Molybdenum	98	-0.0017	-0.0018	-0.0031	-0.0022	0.0008	34.5
Nickel	60	-0.0253	-0.0224	-0.0379	-0.0285	0.0082	28.9
Nickel	62	-0.0571	0.0055	0.0126	-0.013	0.0384	295.1
Selenium	77	-0.0061	0.0606	0.0699	0.0415	0.0414	99.86
Selenium	78	-0.1098	0.0042	0.0055	-0.0334	0.0662	198.4
Selenium	82	0.1165	0.1086	0.0724	0.0992	0.0235	23.73
Silver	107	-0.0031	-0.0032	-0.0033	-0.0032	0.0001	2.778
Silver	109	-0.004	-0.0035	-0.004	-0.0038	0.0003	7.873
Thallium	203	-0.0086	-0.0096	-0.0098	-0.0093	0.0007	7.118
Thallium	205	-0.0097	-0.0103	-0.0108	-0.0103	0.0006	5.406
Vanadium	51	0.0386	0.0404	0.0221	0.0337	0.0101	29.9
Zinc	66	-0.0612	-0.0534	-0.0625	-0.059	0.0049	8.333
Zinc	67	-0.0751	-0.0457	-0.0731	-0.0646	0.0164	25.42
Zinc	68	-0.0322	-0.0263	-0.0309	-0.0298	0.0031	10.39

Internal Standard

Factors:

Lithium	6	0.94	1.026	1.02	0.94 n/a	n/a
Scandium	45	0.952	1.023	1.026	0.952 n/a	n/a
Gallium	71	0.965	1.031	1.032	0.965 n/a	n/a
Rhodium	103	0.997	1.028	1.025	0.997 n/a	n/a
Indium	115	0.981	0.993	1.007	0.981 n/a	n/a
Lutetium	175	0.969	1.02	1.004	0.969 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		LCSW K1004934			Mean	SD	%RSD
TimeStamp		6/4/10 18:29					
Antimony	121	20.2	20.42	19.98	20.2	0.2233	1.105
Antimony	123	19.77	20.28	19.79	19.95	0.2935	1.471
Arsenic	75	20.52	19.86	20.07	20.15	0.3373	1.674
Beryllium	9	20.59	20.64	20.65	20.63	0.0318	0.1539
Cadmium	111	20.14	20.68	20.3	20.37	0.277	1.359
Cadmium	114	20.23	20.86	19.89	20.33	0.4918	2.42
Chromium	52	20.49	20.98	20.34	20.6	0.3356	1.629
Chromium	53	20.43	20.47	20.17	20.36	0.163	0.8005
Cobalt	59	20.44	20.09	20.41	20.31	0.1945	0.9578
Copper	63	19.94	19.72	19.93	19.86	0.1191	0.5995
Copper	65	19.7	20.83	20.59	20.37	0.5933	2.912
Lead	206	21.01	19.57	19.77	20.12	0.782	3.887
Lead	207	20.86	20.52	20.75	20.71	0.1776	0.8577
Lead	208	20.98	20.05	20.24	20.42	0.4921	2.409
Molybdenum	95	20.29	20.68	20.61	20.53	0.2111	1.028
Molybdenum	97	20.5	20.77	20.21	20.49	0.282	1.376
Molybdenum	98	19.9	20.3	20.21	20.14	0.21	1.043
Nickel	60	19.59	19.56	19.88	19.68	0.1758	0.8933
Nickel	62	19.4	19.51	19.57	19.49	0.0857	0.4395
Selenium	77	19.68	19.78	20.02	19.83	0.1735	0.8751
Selenium	78	20.71	20.5	20.6	20.61	0.1045	0.5073
Selenium	82	20.2	19.9	19.85	19.98	0.1895	0.9482
Silver	107	20.9	20.83	21.04	20.92	0.1095	0.5235
Silver	109	20.55	20.99	20.12	20.55	0.434	2.112
Thallium	203	20.49	20.04	20	20.18	0.2679	1.328
Thallium	205	21.14	20.01	20.67	20.61	0.5634	2.734
Vanadium	51	20.85	20.14	20.24	20.41	0.3858	1.89
Zinc	66	20.49	19.91	20.39	20.26	0.3081	1.52
Zinc	67	20.48	19.55	20.99	20.34	0.7292	3.585
Zinc	68	21.11	20.07	20.61	20.6	0.5199	2.524

Internal Standard

Factors:

Lithium	6	0.949	1.01	1.029	0.949	n/a	n/a
Scandium	45	0.953	1.033	1.036	0.953	n/a	n/a
Gallium	71	0.937	0.967	0.997	0.937	n/a	n/a
Rhodium	103	0.971	1.031	1.017	0.971	n/a	n/a
Indium	115	0.946	0.999	0.998	0.946	n/a	n/a
Lutetium	175	0.978	0.981	0.989	0.978	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004934-005			Mean	SD	%RSD
TimeStamp		6/4/10 18:38					
Antimony	121	0.1061	0.1094	0.0992	0.1049	0.0052	4.988
Antimony	123	0.099	0.0937	0.0936	0.0954	0.0031	3.258
Arsenic	75	2.466	2.536	2.578	2.527	0.0567	2.246
Beryllium	9	0.0046	0.0019	0.0033	0.0032	0.0013	40.76
Cadmium	111	0.0241	0.0234	0.0259	0.0245	0.0013	5.274
Cadmium	114	0.0263	0.0212	0.0247	0.0241	0.0027	11.02
Chromium	52	0.6882	0.7998	0.776	0.7547	0.0588	7.787
Chromium	53	1.201	1.32	1.383	1.301	0.0927	7.122
Cobalt	59	0.0731	0.077	0.0812	0.0771	0.0041	5.272
Copper	63	0.6536	0.6477	0.6735	0.6582	0.0135	2.056
Copper	65	0.5182	0.5422	0.5339	0.5314	0.0122	2.296
Lead	206	0.0433	0.0404	0.0383	0.0407	0.0025	6.074
Lead	207	0.0439	0.0415	0.0519	0.0458	0.0054	11.87
Lead	208	0.0462	0.0451	0.0454	0.0455	0.0006	1.268
Molybdenum	95	0.8024	0.8069	0.8192	0.8095	0.0087	1.076
Molybdenum	97	0.7807	0.8266	0.8022	0.8031	0.023	2.859
Molybdenum	98	0.8104	0.7867	0.7965	0.7979	0.0119	1.494
Nickel	60	1.126	1.271	1.103	1.167	0.0909	7.793
Nickel	62	0.2215	0.2056	0.2703	0.2325	0.0337	14.51
Selenium	77	0.5968	0.5888	0.6013	0.5956	0.0063	1.063
Selenium	78	0.5198	0.6003	0.5419	0.554	0.0416	7.505
Selenium	82	0.5865	0.71	0.8325	0.7097	0.123	17.33
Silver	107	0.0034	0.005	0.0033	0.0039	0.001	24.76
Silver	109	0.0045	0.003	0.0027	0.0034	0.001	27.86
Thallium	203	0.0487	0.0481	0.0478	0.0482	0.0005	0.9943
Thallium	205	0.0517	0.0479	0.0491	0.0496	0.002	3.976
Vanadium	51	6.327	6.584	6.467	6.459	0.1284	1.987
Zinc	66	2.365	2.427	2.317	2.37	0.0556	2.346
Zinc	67	6.742	6.787	6.475	6.668	0.1685	2.527
Zinc	68	5.753	5.902	5.737	5.797	0.091	1.57

Internal Standard

Factors:

Lithium	6	1.056	1.134	1.166	1.056	n/a	n/a
Scandium	45	0.85	0.983	1.029	0.85	n/a	n/a
Gallium	71	1.081	1.226	1.234	1.081	n/a	n/a
Rhodium	103	1.144	1.216	1.268	1.144	n/a	n/a
Indium	115	1.097	1.173	1.197	1.097	n/a	n/a
Lutetium	175	1.045	1.086	1.109	1.045	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004934-005D			Mean	SD	%RSD
TimeStamp		6/4/10 18:42					
Antimony	121	0.0946	0.0921	0.0989	0.0952	0.0034	3.592
Antimony	123	0.0892	0.0975	0.092	0.0929	0.0042	4.525
Arsenic	75	2.485	2.441	2.531	2.485	0.0451	1.815
Beryllium	9	0.0059	0.0018	0.0031	0.0036	0.0021	59.22
Cadmium	111	0.0281	0.0288	0.0288	0.0285	0.0004	1.378
Cadmium	114	0.0265	0.0261	0.0277	0.0268	0.0009	3.24
Chromium	52	0.7399	0.7421	0.7515	0.7445	0.0062	0.829
Chromium	53	1.39	1.32	1.352	1.354	0.035	2.588
Cobalt	59	0.0777	0.0816	0.0789	0.0794	0.002	2.485
Copper	63	0.658	0.6668	0.6311	0.652	0.0186	2.856
Copper	65	0.5021	0.5152	0.48	0.4991	0.0178	3.559
Lead	206	0.0444	0.0419	0.043	0.0431	0.0012	2.833
Lead	207	0.0498	0.0499	0.0532	0.051	0.0019	3.796
Lead	208	0.0479	0.0448	0.0487	0.0471	0.0021	4.41
Molybdenum	95	0.8399	0.8047	0.7987	0.8144	0.0222	2.729
Molybdenum	97	0.792	0.8491	0.8131	0.8181	0.0289	3.53
Molybdenum	98	0.7834	0.7909	0.8212	0.7985	0.02	2.507
Nickel	60	1.35	1.182	1.237	1.256	0.0858	6.83
Nickel	62	0.105	0.1546	0.1495	0.1364	0.0273	20.03
Selenium	77	0.6592	0.5464	0.4698	0.5584	0.0952	17.06
Selenium	78	0.5154	0.5096	0.458	0.4943	0.0316	6.386
Selenium	82	0.5884	0.5596	0.7816	0.6432	0.1207	18.77
Silver	107	0	0.0014	0.002	0.0012	0.001	90.78
Silver	109	0.0001	-0.0005	0.0011	0.0002	0.0008	335.2
Thallium	203	0.0489	0.0423	0.0394	0.0435	0.0049	11.16
Thallium	205	0.0429	0.0398	0.0422	0.0416	0.0016	3.876
Vanadium	51	6.615	6.262	6.418	6.431	0.1773	2.757
Zinc	66	2.414	2.357	2.422	2.398	0.0356	1.484
Zinc	67	6.625	7.013	6.496	6.711	0.2691	4.009
Zinc	68	5.568	5.864	5.679	5.704	0.1498	2.627

Internal Standard Factors:

Lithium	6	1.085	1.182	1.198	1.085	n/a	n/a
Scandium	45	0.936	0.986	1.007	0.936	n/a	n/a
Gallium	71	1.154	1.237	1.237	1.154	n/a	n/a
Rhodium	103	1.176	1.25	1.245	1.176	n/a	n/a
Indium	115	1.119	1.183	1.184	1.119	n/a	n/a
Lutetium	175	1.062	1.099	1.094	1.062	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004934-005S			Mean	SD	%RSD
TimeStamp		6/4/10 18:47					
Antimony	121	19.92	20	20.46	20.13	0.2875	1.428
Antimony	123	19.77	20.37	20.37	20.17	0.3469	1.72
Arsenic	75	23.34	23.52	22.99	23.29	0.2691	1.156
Beryllium	9	18.27	19.06	19.13	18.82	0.4779	2.539
Cadmium	111	20.29	20.3	19.77	20.12	0.3015	1.498
Cadmium	114	19.22	19.95	19.91	19.69	0.409	2.077
Chromium	52	18.23	18.38	18.2	18.27	0.0944	0.5169
Chromium	53	19.5	19.37	18.65	19.17	0.4554	2.375
Cobalt	59	18.31	18.99	17.9	18.4	0.552	3
Copper	63	17.62	18.61	17.89	18.04	0.5123	2.84
Copper	65	18.69	18.83	17.72	18.41	0.6051	3.286
Lead	206	17.77	17.72	17.97	17.82	0.1338	0.751
Lead	207	18.3	18.02	18.31	18.21	0.1632	0.8964
Lead	208	18.07	17.76	18.3	18.05	0.2706	1.499
Molybdenum	95	23.32	23.41	22.7	23.14	0.3889	1.681
Molybdenum	97	23.2	23.35	22.85	23.14	0.2547	1.101
Molybdenum	98	22.69	23.53	22.64	22.95	0.4998	2.177
Nickel	60	17.92	18.82	18.3	18.35	0.4532	2.47
Nickel	62	17.41	18.11	17.32	17.62	0.4347	2.468
Selenium	77	20.5	21.65	20.71	20.96	0.6115	2.918
Selenium	78	20.91	21.72	21.65	21.43	0.4473	2.088
Selenium	82	21.3	21.49	20.99	21.26	0.2566	1.207
Silver	107	19.47	20.08	19.34	19.63	0.3954	2.014
Silver	109	19.39	19.39	19.47	19.42	0.045	0.2318
Thallium	203	18.31	17.98	18.73	18.34	0.3742	2.04
Thallium	205	19.28	18.82	18.26	18.79	0.509	2.709
Vanadium	51	23.94	24.84	24.66	24.48	0.473	1.932
Zinc	66	21.13	21.35	21.42	21.3	0.1496	0.7025
Zinc	67	24.87	25.89	24.95	25.24	0.5678	2.249
Zinc	68	24.2	24.85	24.45	24.5	0.3256	1.329

Internal Standard

Factors:

Lithium	6	1.091	1.167	1.24	1.091	n/a	n/a
Scandium	45	0.895	1.013	0.996	0.895	n/a	n/a
Gallium	71	1.121	1.21	1.194	1.121	n/a	n/a
Rhodium	103	1.177	1.249	1.234	1.177	n/a	n/a
Indium	115	1.087	1.15	1.178	1.087	n/a	n/a
Lutetium	175	1.016	1.018	1.052	1.016	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	K1004934-006	Mean	SD	%RSD			
TimeStamp	6/4/10 19:01						
Antimony	121	0.0805	0.089	0.0904	0.0866	0.0053	6.152
Antimony	123	0.0862	0.088	0.0865	0.0869	0.001	1.108
Arsenic	75	2.146	2.089	2.015	2.083	0.0657	3.152
Beryllium	9	0.0014	0.0049	0.002	0.0028	0.0019	68.28
Cadmium	111	0.0275	0.0273	0.0252	0.0267	0.0013	4.904
Cadmium	114	0.021	0.0262	0.03	0.0257	0.0045	17.63
Chromium	52	0.7903	0.7216	0.8081	0.7733	0.0457	5.905
Chromium	53	4.43	4.427	4.648	4.501	0.1265	2.811
Cobalt	59	0.1119	0.1116	0.1109	0.1115	0.0005	0.4903
Copper	63	1.266	1.268	1.281	1.272	0.0081	0.6367
Copper	65	0.474	0.4614	0.4701	0.4685	0.0064	1.371
Lead	206	0.0357	0.039	0.0386	0.0377	0.0018	4.713
Lead	207	0.0385	0.0473	0.054	0.0466	0.0078	16.68
Lead	208	0.0385	0.0409	0.042	0.0405	0.0018	4.523
Molybdenum	95	0.6398	0.6146	0.6853	0.6465	0.0358	5.541
Molybdenum	97	0.6283	0.6568	0.6616	0.6489	0.018	2.779
Molybdenum	98	0.642	0.6475	0.627	0.6388	0.0106	1.66
Nickel	60	1.601	1.814	1.742	1.719	0.1086	6.318
Nickel	62	0.4419	0.4693	0.2847	0.3986	0.0996	24.99
Selenium	77	2.519	2.618	2.572	2.57	0.0498	1.94
Selenium	78	0.4828	0.7377	0.4186	0.5464	0.1688	30.89
Selenium	82	1.092	0.9468	0.7851	0.9414	0.1537	16.32
Silver	107	0.0185	0.022	0.0225	0.021	0.0022	10.44
Silver	109	0.018	0.0183	0.0211	0.0191	0.0017	8.974
Thallium	203	0.0472	0.0405	0.0401	0.0426	0.004	9.405
Thallium	205	0.0421	0.043	0.0439	0.043	0.0009	2.041
Vanadium	51	5.289	5.089	5.386	5.255	0.1512	2.877
Zinc	66	0.961	0.9458	0.9759	0.9609	0.0151	1.567
Zinc	67	8.187	8.508	8.454	8.383	0.1719	2.051
Zinc	68	6.575	6.711	6.704	6.663	0.0768	1.152

Internal Standard

Factors:

Lithium	6	1.181	1.366	1.316	1.181	n/a	n/a
Scandium	45	0.909	1.012	1.047	0.909	n/a	n/a
Gallium	71	1.239	1.356	1.355	1.239	n/a	n/a
Rhodium	103	1.307	1.359	1.411	1.307	n/a	n/a
Indium	115	1.19	1.297	1.317	1.19	n/a	n/a
Lutetium	175	1.057	1.132	1.144	1.057	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004934-007			Mean	SD	%RSD
TimeStamp		6/4/10 19:07					
Antimony	121	0.1005	0.092	0.0925	0.095	0.0048	5.025
Antimony	123	0.1007	0.0922	0.0948	0.0959	0.0044	4.566
Arsenic	75	2.462	2.32	2.428	2.403	0.074	3.078
Beryllium	9	0.0036	0.0059	0.004	0.0045	0.0013	28.27
Cadmium	111	0.0341	0.0237	0.0241	0.0273	0.0059	21.64
Cadmium	114	0.0313	0.0292	0.0256	0.0287	0.0029	10.12
Chromium	52	0.7385	0.7061	0.7069	0.7172	0.0185	2.578
Chromium	53	1.435	1.47	1.452	1.452	0.0173	1.191
Cobalt	59	0.0723	0.0722	0.0739	0.0728	0.001	1.341
Copper	63	0.6274	0.6046	0.5891	0.607	0.0192	3.168
Copper	65	0.442	0.4807	0.4591	0.4606	0.0194	4.211
Lead	206	0.0395	0.0483	0.0425	0.0434	0.0045	10.26
Lead	207	0.0486	0.0525	0.0501	0.0504	0.0019	3.859
Lead	208	0.0464	0.051	0.0486	0.0487	0.0023	4.649
Molybdenum	95	0.7882	0.7853	0.7999	0.7912	0.0077	0.9782
Molybdenum	97	0.7795	0.8346	0.8021	0.8054	0.0277	3.436
Molybdenum	98	0.8115	0.7986	0.8127	0.8076	0.0078	0.9659
Nickel	60	1.124	1.028	1.099	1.084	0.0496	4.572
Nickel	62	0.1243	0.1666	0.1558	0.1489	0.022	14.77
Selenium	77	0.7006	0.6787	0.485	0.6214	0.1187	19.1
Selenium	78	0.413	0.4907	0.3677	0.4238	0.0622	14.67
Selenium	82	0.5365	0.3904	0.6347	0.5205	0.1229	23.62
Silver	107	0.0172	0.0174	0.0183	0.0176	0.0006	3.198
Silver	109	0.0164	0.0149	0.0163	0.0159	0.0008	5.131
Thallium	203	0.0422	0.0461	0.0408	0.043	0.0027	6.335
Thallium	205	0.0425	0.0428	0.041	0.0421	0.0009	2.207
Vanadium	51	6.194	6.244	5.924	6.121	0.1721	2.812
Zinc	66	2.306	2.26	2.326	2.298	0.034	1.481
Zinc	67	6.592	6.346	6.262	6.4	0.1714	2.678
Zinc	68	5.621	5.568	5.505	5.564	0.0583	1.048

Internal Standard Factors:

Lithium	6	1.11	1.17	1.162	1.11	n/a	n/a
Scandium	45	0.872	0.948	0.958	0.872	n/a	n/a
Gallium	71	1.112	1.191	1.211	1.112	n/a	n/a
Rhodium	103	1.136	1.198	1.265	1.136	n/a	n/a
Indium	115	1.087	1.129	1.147	1.087	n/a	n/a
Lutetium	175	0.986	1.03	1.033	0.986	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004934-008			Mean	SD	%RSD
TimeStamp		6/4/10 19:13					
Antimony	121	0.0187	0.0223	0.0184	0.0198	0.0022	11.1
Antimony	123	0.021	0.0212	0.0191	0.0204	0.0012	5.815
Arsenic	75	0.0567	0.0778	0.0408	0.0585	0.0186	31.8
Beryllium	9	-0.0003	0.0013	0.0021	0.001	0.0012	118.3
Cadmium	111	0.0268	0.0209	0.0211	0.023	0.0034	14.64
Cadmium	114	0.0231	0.0224	0.0204	0.022	0.0014	6.572
Chromium	52	0.0947	0.1353	0.1086	0.1129	0.0206	18.28
Chromium	53	0.1394	0.1294	0.1368	0.1352	0.0052	3.845
Cobalt	59	0.0048	0.0028	0.0061	0.0045	0.0016	36.31
Copper	63	0.0353	0.0367	0.0374	0.0365	0.001	2.854
Copper	65	0.0072	0.006	0.0179	0.0104	0.0066	63.52
Lead	206	0.0366	0.039	0.0355	0.037	0.0018	4.809
Lead	207	0.0432	0.0472	0.0392	0.0432	0.004	9.291
Lead	208	0.0396	0.0437	0.0381	0.0404	0.0029	7.12
Molybdenum	95	0.0018	0.0029	0.0026	0.0024	0.0006	23.25
Molybdenum	97	-0.0007	0.0063	-0.0008	0.0016	0.0041	254.1
Molybdenum	98	0.0008	0.0033	0.0028	0.0023	0.0013	55.89
Nickel	60	-0.048	-0.0535	-0.0474	-0.0496	0.0033	6.713
Nickel	62	-0.1155	-0.1155	-0.1052	-0.112	0.006	5.318
Selenium	77	0.0915	0.1101	0.0893	0.097	0.0114	11.77
Selenium	78	-0.0589	-0.1729	0.0764	-0.0518	0.1248	240.9
Selenium	82	0.0982	0.1952	0.0735	0.1223	0.0643	52.6
Silver	107	0.0023	0.0012	0.0018	0.0018	0.0006	33.15
Silver	109	0.001	0.0009	0.0015	0.0011	0.0003	26.76
Thallium	203	0.0413	0.0472	0.0411	0.0432	0.0034	7.958
Thallium	205	0.0422	0.0442	0.0389	0.0418	0.0027	6.382
Vanadium	51	0.0247	0.0444	0.0322	0.0338	0.01	29.48
Zinc	66	0.4323	0.3732	0.3738	0.3931	0.0339	8.629
Zinc	67	0.4101	0.4279	0.3395	0.3925	0.0468	11.91
Zinc	68	0.4031	0.3772	0.4263	0.4022	0.0246	6.108

Internal Standard Factors:

Lithium	6	0.96	0.969	1.04	0.96 n/a	n/a
Scandium	45	0.859	0.919	0.948	0.859 n/a	n/a
Gallium	71	0.881	0.913	0.951	0.881 n/a	n/a
Rhodium	103	0.912	0.97	0.984	0.912 n/a	n/a
Indium	115	0.876	0.923	0.945	0.876 n/a	n/a
Lutetium	175	0.853	0.914	0.866	0.853 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCV2	Mean	SD	%RSD			
TimeStamp	6/4/10 19:17						
Antimony	121	24.8	24.43	25.12	24.78	0.3473	1.401
Antimony	123	24.76	24.23	25.07	24.68	0.4234	1.716
Arsenic	75	25.25	24.68	24.77	24.9	0.3109	1.249
Beryllium	9	24.58	24.21	23.18	23.99	0.7251	3.022
Cadmium	111	24.51	24.73	25.02	24.75	0.2522	1.019
Cadmium	114	25.22	24.97	24.69	24.96	0.2637	1.056
Chromium	52	24.15	24.5	24.77	24.47	0.3103	1.268
Chromium	53	25.18	24.61	24.99	24.93	0.2892	1.16
Cobalt	59	24.81	23.75	24.37	24.31	0.5348	2.2
Copper	63	24.9	24.54	25.3	24.91	0.3795	1.523
Copper	65	24.72	23.97	23.97	24.22	0.435	1.796
Lead	206	24.71	25.31	25.58	25.2	0.4408	1.749
Lead	207	25.02	24.91	25.79	25.24	0.4789	1.897
Lead	208	24.64	24.96	25.66	25.08	0.5206	2.075
Molybdenum	95	24.59	24.5	25.06	24.72	0.302	1.222
Molybdenum	97	24.04	24.85	24.42	24.44	0.4066	1.664
Molybdenum	98	24.01	24.95	24.42	24.46	0.4728	1.933
Nickel	60	24.39	24.5	23.77	24.22	0.3953	1.632
Nickel	62	24.07	23.4	23.5	23.66	0.3641	1.539
Selenium	77	24.64	23.86	23.83	24.11	0.4637	1.923
Selenium	78	25.23	24.8	25.63	25.22	0.4149	1.645
Selenium	82	24.89	24.12	25.08	24.7	0.5048	2.044
Silver	107	24.3	24.04	23.96	24.1	0.1785	0.7408
Silver	109	24.72	24.77	25.11	24.87	0.2114	0.8504
Thallium	203	24.19	24.63	25.48	24.77	0.654	2.64
Thallium	205	24.29	24.35	25.68	24.77	0.7854	3.171
Vanadium	51	24.03	24.56	25.42	24.67	0.7005	2.839
Zinc	66	25.38	24.65	24.34	24.79	0.5344	2.156
Zinc	67	25.59	24.64	23.39	24.54	1.105	4.502
Zinc	68	24.89	24.87	24.96	24.91	0.0442	0.1774

Internal Standard

Factors:

Lithium	6	0.95	1.002	1.006	0.95	n/a	n/a
Scandium	45	0.885	0.957	0.999	0.885	n/a	n/a
Gallium	71	0.91	0.939	0.967	0.91	n/a	n/a
Rhodium	103	0.883	0.957	0.96	0.883	n/a	n/a
Indium	115	0.893	0.916	0.959	0.893	n/a	n/a
Lutetium	175	0.847	0.875	0.915	0.847	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		CCB2			Mean	SD	%RSD
TimeStamp		6/4/10 19:26					
Antimony	121	0.0021	0.0033	0	0.0018	0.0017	93.54
Antimony	123	0.0044	0.0025	0.0024	0.0031	0.0011	35.67
Arsenic	75	0.0833	-0.0317	0.0638	0.0385	0.0615	160.1
Beryllium	9	0.0027	0.0071	-0.0007	0.003	0.0039	129.8
Cadmium	111	0.0045	0.0035	0.0009	0.003	0.0018	61.95
Cadmium	114	0.0028	0.004	0.0025	0.0031	0.0008	24.9
Chromium	52	0.0143	0.0119	0.0237	0.0167	0.0062	37.41
Chromium	53	0.0619	0.062	0.0585	0.0608	0.002	3.222
Cobalt	59	0.0033	0.0046	0.0018	0.0032	0.0014	42.51
Copper	63	0.0283	0.0347	0.0339	0.0323	0.0035	10.8
Copper	65	0.0066	0.0022	0.003	0.0039	0.0023	59.36
Lead	206	0.0049	0.0061	0.0022	0.0044	0.002	44.69
Lead	207	0.0054	0.003	0.0017	0.0034	0.0019	56.78
Lead	208	0.0041	0.0054	0.0022	0.0039	0.0016	41.22
Molybdenum	95	0.003	0.0041	0.0039	0.0036	0.0006	15.67
Molybdenum	97	0.0009	0.0075	0.004	0.0041	0.0033	79.96
Molybdenum	98	0.0037	0.0054	0.0003	0.0031	0.0026	83.43
Nickel	60	-0.0422	-0.0484	-0.0493	-0.0466	0.0038	8.213
Nickel	62	-0.0625	-0.0742	-0.1087	-0.0818	0.024	29.38
Selenium	77	-0.0333	-0.0226	-0.0049	-0.0203	0.0143	70.61
Selenium	78	-0.249	-0.1341	-0.1442	-0.1757	0.0636	36.2
Selenium	82	0.2352	-0.1347	0.1847	0.0951	0.2006	211
Silver	107	0.0078	0.0069	0.0041	0.0063	0.0019	30.31
Silver	109	0.0065	0.0073	0.0032	0.0056	0.0022	38.76
Thallium	203	0.0044	0.0043	-0.001	0.0026	0.0031	119.6
Thallium	205	0.0036	0.0029	-0.0012	0.0018	0.0026	144.6
Vanadium	51	0.0124	0.0065	0.009	0.0093	0.0029	31.56
Zinc	66	-0.0129	0.0009	-0.0035	-0.0052	0.0071	137
Zinc	67	-0.0122	-0.01	-0.033	-0.0184	0.0127	68.94
Zinc	68	0.0174	-0.0095	-0.0111	-0.0011	0.016	1486

Internal Standard

Factors:

Lithium	6	0.894	0.994	1.014	0.894	n/a	n/a
Scandium	45	0.881	0.977	0.997	0.881	n/a	n/a
Gallium	71	0.88	0.951	0.961	0.88	n/a	n/a
Rhodium	103	0.909	0.999	0.97	0.909	n/a	n/a
Indium	115	0.895	0.966	0.974	0.895	n/a	n/a
Lutetium	175	0.867	0.898	0.922	0.867	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004870-001			Mean	SD	%RSD
TimeStamp		6/4/10 19:30					
Antimony	121	0.2671	0.2637	0.26	0.2636	0.0035	1.341
Antimony	123	0.2755	0.2661	0.2496	0.2637	0.0131	4.979
Arsenic	75	1.028	1.069	1.098	1.065	0.0356	3.338
Beryllium	9	0.0082	0.0159	0.0147	0.0129	0.0041	32.02
Cadmium	111	0.0661	0.0629	0.0635	0.0641	0.0017	2.688
Cadmium	114	0.047	0.0564	0.0484	0.0506	0.0051	10.01
Chromium	52	0.0027	0.0122	0.0126	0.0091	0.0056	60.96
Chromium	53	0.2751	0.2817	0.2765	0.2778	0.0035	1.26
Cobalt	59	0.4304	0.4301	0.4308	0.4304	0.0003	0.0737
Copper	63	0.4372	0.4389	0.4184	0.4315	0.0114	2.643
Copper	65	0.3266	0.3237	0.3296	0.3266	0.0029	0.896
Lead	206	0.0455	0.0506	0.0536	0.0499	0.0041	8.261
Lead	207	0.0591	0.0568	0.0633	0.0597	0.0033	5.485
Lead	208	0.0525	0.0547	0.0567	0.0546	0.0021	3.834
Molybdenum	95	12.6	12.85	13.07	12.84	0.2335	1.818
Molybdenum	97	12.83	13.12	13.25	13.07	0.2138	1.636
Molybdenum	98	12.59	12.94	13.12	12.88	0.2662	2.066
Nickel	60	2.55	2.591	2.558	2.567	0.0219	0.8532
Nickel	62	2.151	2.205	2.277	2.211	0.0634	2.866
Selenium	77	0.1652	0.1258	0.0833	0.1248	0.041	32.87
Selenium	78	0.0815	0.2419	-0.0233	0.1	0.1336	133.5
Selenium	82	0.156	0.2041	0.3395	0.2332	0.0951	40.79
Silver	107	0.0202	0.0164	0.0209	0.0192	0.0024	12.78
Silver	109	0.0159	0.0207	0.0172	0.0179	0.0025	13.94
Thallium	203	0.057	0.0583	0.0452	0.0535	0.0072	13.54
Thallium	205	0.0549	0.052	0.0519	0.053	0.0017	3.13
Vanadium	51	0.0669	0.0716	0.0742	0.0709	0.0037	5.22
Zinc	66	4.863	5.13	5.144	5.046	0.1585	3.142
Zinc	67	10.23	10.36	10.3	10.3	0.0635	0.6166
Zinc	68	8.921	9.555	9.044	9.173	0.3361	3.664

Internal Standard

Factors:

Lithium	6	1.069	1.147	1.166	1.069	n/a	n/a
Scandium	45	0.876	0.924	0.961	0.876	n/a	n/a
Gallium	71	1.087	1.196	1.162	1.087	n/a	n/a
Rhodium	103	1.151	1.24	1.228	1.151	n/a	n/a
Indium	115	1.1	1.121	1.133	1.1	n/a	n/a
Lutetium	175	0.981	1.021	1.035	0.981	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004870-002			Mean	SD	%RSD
TimeStamp		6/4/10 19:35					
Antimony	121	0.1156	0.1211	0.1181	0.1183	0.0028	2.33
Antimony	123	0.1105	0.1076	0.1092	0.1091	0.0015	1.339
Arsenic	75	0.468	0.5386	0.5083	0.5049	0.0354	7.017
Beryllium	9	0.1082	0.0953	0.1111	0.1049	0.0084	8.025
Cadmium	111	0.0874	0.0963	0.0936	0.0924	0.0045	4.896
Cadmium	114	0.0778	0.0854	0.0849	0.0827	0.0042	5.139
Chromium	52	1.447	1.202	1.2	1.283	0.1419	11.06
Chromium	53	1.703	1.587	1.549	1.613	0.0804	4.987
Cobalt	59	3.243	3.461	3.343	3.349	0.1093	3.263
Copper	63	1.077	1.085	1.034	1.066	0.0275	2.58
Copper	65	0.9751	1.015	0.944	0.9779	0.0354	3.617
Lead	206	1.103	0.9885	1.072	1.055	0.0594	5.635
Lead	207	1.161	1.144	1.152	1.152	0.0085	0.7407
Lead	208	1.145	1.076	1.118	1.113	0.0349	3.133
Molybdenum	95	15.37	15.7	15.41	15.5	0.1795	1.158
Molybdenum	97	15.1	15.62	15.71	15.48	0.3316	2.142
Molybdenum	98	14.81	15.5	15.51	15.27	0.4031	2.639
Nickel	60	9.551	9.779	9.663	9.664	0.1139	1.178
Nickel	62	9.24	9.76	9.43	9.476	0.2632	2.778
Selenium	77	1.529	1.682	1.52	1.577	0.0909	5.764
Selenium	78	1.443	1.596	1.26	1.433	0.1684	11.75
Selenium	82	1.496	1.806	1.559	1.62	0.1642	10.13
Silver	107	0.0037	0.0043	0.0038	0.0039	0.0003	8.102
Silver	109	0.0023	0.0019	0.0034	0.0025	0.0008	30.94
Thallium	203	0.0714	0.0669	0.0656	0.068	0.003	4.45
Thallium	205	0.0639	0.062	0.0621	0.0627	0.001	1.65
Vanadium	51	1.465	1.419	1.413	1.432	0.0283	1.975
Zinc	66	10.59	11.05	10.32	10.66	0.3678	3.452
Zinc	67	12.22	12.46	12.32	12.33	0.1204	0.9765
Zinc	68	12.77	12.65	12.01	12.48	0.4114	3.297

Internal Standard Factors:

Lithium	6	1.047	1.137	1.171	1.047	n/a	n/a
Scandium	45	0.849	0.89	0.899	0.849	n/a	n/a
Gallium	71	1.06	1.163	1.138	1.06	n/a	n/a
Rhodium	103	1.12	1.199	1.213	1.12	n/a	n/a
Indium	115	1.046	1.11	1.11	1.046	n/a	n/a
Lutetium	175	0.996	1.014	1.03	0.996	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004870-003			Mean	SD	%RSD
TimeStamp		6/4/10 19:40					
Antimony	121	6.833	6.648	7.199	6.893	0.2808	4.073
Antimony	123	6.633	6.787	6.982	6.801	0.175	2.574
Arsenic	75	35.14	34.73	36.4	35.42	0.8705	2.458
Beryllium	9	0.012	0.0058	0.0122	0.01	0.0036	36.56
Cadmium	111	0.1162	0.0968	0.1127	0.1086	0.0104	9.534
Cadmium	114	0.0908	0.0885	0.0805	0.0866	0.0054	6.287
Chromium	52	0.0574	0.0858	0.0729	0.072	0.0143	19.8
Chromium	53	0.8666	0.8337	0.894	0.8648	0.0302	3.494
Cobalt	59	0.3421	0.3464	0.3657	0.3514	0.0126	3.572
Copper	63	0.7267	0.7832	0.7501	0.7534	0.0284	3.766
Copper	65	0.458	0.431	0.4366	0.4419	0.0142	3.223
Lead	206	0.0538	0.0556	0.057	0.0555	0.0016	2.875
Lead	207	0.0651	0.0644	0.0623	0.0639	0.0015	2.336
Lead	208	0.06	0.0604	0.059	0.0598	0.0007	1.152
Molybdenum	95	67.98	67.43	69.21	68.21	0.9111	1.336
Molybdenum	97	66.73	68.65	67.93	67.77	0.9736	1.437
Molybdenum	98	67.44	67.12	67.96	67.51	0.4226	0.626
Nickel	60	1.649	1.606	1.721	1.659	0.058	3.499
Nickel	62	0.9006	0.9028	0.8435	0.8823	0.0336	3.811
Selenium	77	0.4757	0.444	0.3809	0.4335	0.0483	11.13
Selenium	78	0.5401	0.4077	0.3714	0.4397	0.0888	20.19
Selenium	82	0.5568	0.6547	0.709	0.6402	0.0771	12.05
Silver	107	0.0085	0.0094	0.0084	0.0087	0.0006	6.766
Silver	109	0.006	0.0047	0.0074	0.006	0.0014	22.61
Thallium	203	0.0447	0.0462	0.0448	0.0452	0.0008	1.817
Thallium	205	0.0442	0.0434	0.0426	0.0434	0.0008	1.846
Vanadium	51	1.481	1.414	1.471	1.455	0.036	2.475
Zinc	66	1.049	1.127	1.181	1.119	0.0662	5.916
Zinc	67	7.548	7.617	7.638	7.601	0.0469	0.6171
Zinc	68	5.806	6.017	6.07	5.964	0.1396	2.341

Internal Standard

Factors:

Lithium	6	1.112	1.199	1.239	1.112	n/a	n/a
Scandium	45	0.887	0.934	0.968	0.887	n/a	n/a
Gallium	71	1.144	1.222	1.24	1.144	n/a	n/a
Rhodium	103	1.211	1.273	1.258	1.211	n/a	n/a
Indium	115	1.134	1.163	1.226	1.134	n/a	n/a
Lutetium	175	1.013	1.063	1.068	1.013	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004870-004			Mean	SD	%RSD
TimeStamp		6/4/10 19:45					
Antimony	121	0.0514	0.0533	0.049	0.0512	0.0021	4.157
Antimony	123	0.0478	0.0542	0.0469	0.0497	0.004	8.067
Arsenic	75	0.815	0.7619	0.7829	0.7866	0.0267	3.399
Beryllium	9	0.006	0.0082	0.0016	0.0053	0.0034	63.41
Cadmium	111	0.032	0.0349	0.0327	0.0332	0.0015	4.646
Cadmium	114	0.0371	0.0353	0.0323	0.0349	0.0024	7.003
Chromium	52	0.1011	0.0907	0.048	0.0799	0.0281	35.22
Chromium	53	0.3199	0.2947	0.2474	0.2873	0.0368	12.8
Cobalt	59	0.358	0.372	0.364	0.3647	0.007	1.923
Copper	63	0.307	0.3339	0.2991	0.3133	0.0183	5.823
Copper	65	0.2383	0.2471	0.225	0.2368	0.0111	4.702
Lead	206	0.0926	0.0911	0.0867	0.0902	0.0031	3.396
Lead	207	0.0973	0.1025	0.0929	0.0976	0.0048	4.949
Lead	208	0.0948	0.0963	0.0942	0.0951	0.0011	1.138
Molybdenum	95	1.131	1.162	1.149	1.147	0.0154	1.342
Molybdenum	97	1.108	1.14	1.13	1.126	0.0166	1.477
Molybdenum	98	1.129	1.143	1.134	1.135	0.0073	0.6411
Nickel	60	0.4945	0.5606	0.5113	0.5221	0.0344	6.581
Nickel	62	0.1869	0.2433	0.2407	0.2236	0.0318	14.22
Selenium	77	0.1342	0.233	0.1881	0.1851	0.0495	26.72
Selenium	78	0.1006	0.2237	0.1032	0.1425	0.0703	49.34
Selenium	82	0.4956	0.4609	0.3485	0.435	0.0769	17.67
Silver	107	0.0316	0.0331	0.0301	0.0316	0.0015	4.727
Silver	109	0.0315	0.0329	0.0341	0.0329	0.0013	3.944
Thallium	203	0.0408	0.045	0.041	0.0423	0.0024	5.608
Thallium	205	0.0438	0.0428	0.044	0.0435	0.0006	1.431
Vanadium	51	1.86	1.892	1.774	1.842	0.061	3.313
Zinc	66	2.361	2.456	2.325	2.381	0.0674	2.832
Zinc	67	4.234	4.4	4.253	4.296	0.0904	2.104
Zinc	68	4.086	4.136	4.02	4.081	0.0583	1.43

**Internal Standard
Factors:**

Lithium	6	1.034	1.074	1.093	1.034	n/a	n/a
Scandium	45	0.78	0.842	0.815	0.78	n/a	n/a
Gallium	71	0.997	1.087	1.08	0.997	n/a	n/a
Rhodium	103	1.044	1.109	1.118	1.044	n/a	n/a
Indium	115	0.995	1.066	1.06	0.995	n/a	n/a
Lutetium	175	0.924	0.954	0.973	0.924	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005067-002			Mean	SD	%RSD
TimeStamp		6/4/10 19:50					
Antimony	121	0.1104	0.1114	0.1099	0.1106	0.0008	0.6844
Antimony	123	0.1119	0.1042	0.1042	0.1068	0.0044	4.143
Arsenic	75	0.2908	0.3114	0.3102	0.3041	0.0116	3.808
Beryllium	9	0.0067	0.0099	0.0092	0.0086	0.0017	19.85
Cadmium	111	0.0385	0.0403	0.0357	0.0382	0.0023	6.057
Cadmium	114	0.0391	0.041	0.036	0.0387	0.0025	6.578
Chromium	52	0.5003	0.5097	0.503	0.5043	0.0049	0.9657
Chromium	53	2.004	1.686	1.696	1.795	0.1804	10.05
Cobalt	59	0.2127	0.2085	0.2124	0.2112	0.0023	1.111
Copper	63	2.164	2.114	2.142	2.14	0.0252	1.177
Copper	65	1.727	1.74	1.733	1.733	0.0063	0.3633
Lead	206	0.1461	0.143	0.1482	0.1458	0.0026	1.782
Lead	207	0.1597	0.1465	0.1684	0.1582	0.011	6.954
Lead	208	0.1581	0.1481	0.1569	0.1544	0.0055	3.54
Molybdenum	95	0.4457	0.4578	0.4251	0.4429	0.0166	3.738
Molybdenum	97	0.4517	0.4346	0.4181	0.4348	0.0169	3.875
Molybdenum	98	0.4284	0.419	0.4281	0.4252	0.0053	1.256
Nickel	60	3.486	3.316	3.383	3.395	0.0857	2.523
Nickel	62	2.681	2.447	2.56	2.563	0.1169	4.56
Selenium	77	0.8205	0.7941	0.8292	0.8146	0.0183	2.242
Selenium	78	0.4764	0.4627	0.5121	0.4837	0.0255	5.273
Selenium	82	0.6603	0.7973	0.7199	0.7258	0.0687	9.459
Silver	107	-0.0009	-0.0008	-0.0011	-0.0009	0.0002	16.31
Silver	109	-0.0012	-0.0021	-0.0003	-0.0012	0.0009	75.82
Thallium	203	0.0423	0.0424	0.0398	0.0415	0.0015	3.587
Thallium	205	0.0429	0.0405	0.0461	0.0432	0.0028	6.429
Vanadium	51	0.4745	0.4898	0.5302	0.4982	0.0288	5.776
Zinc	66	2.152	2.055	2.08	2.095	0.0503	2.402
Zinc	67	3.915	3.76	4.018	3.898	0.1302	3.339
Zinc	68	3.683	3.586	3.584	3.618	0.0563	1.557

Internal Standard Factors:

Lithium	6	1.168	1.216	1.225	1.168	n/a	n/a
Scandium	45	0.916	0.946	0.991	0.916	n/a	n/a
Gallium	71	1.162	1.228	1.237	1.162	n/a	n/a
Rhodium	103	1.218	1.283	1.257	1.218	n/a	n/a
Indium	115	1.138	1.184	1.185	1.138	n/a	n/a
Lutetium	175	1.023	1.037	1.061	1.023	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005067-003			Mean	SD	%RSD
TimeStamp		6/4/10 19:55					
Antimony	121	0.1001	0.1	0.0964	0.0988	0.0021	2.142
Antimony	123	0.1017	0.1031	0.1004	0.1017	0.0014	1.339
Arsenic	75	0.2816	0.283	0.3348	0.2998	0.0303	10.11
Beryllium	9	0.0053	0.0011	0.0065	0.0043	0.0028	66.21
Cadmium	111	0.0285	0.0374	0.0353	0.0338	0.0046	13.76
Cadmium	114	0.026	0.0343	0.0322	0.0308	0.0043	14.02
Chromium	52	0.3861	0.34	0.4036	0.3766	0.0329	8.732
Chromium	53	1.561	1.491	1.493	1.515	0.0396	2.611
Cobalt	59	0.1702	0.1703	0.1637	0.1681	0.0038	2.232
Copper	63	1.687	1.686	1.617	1.664	0.0401	2.411
Copper	65	1.262	1.262	1.261	1.262	0.0005	0.0365
Lead	206	0.0817	0.0751	0.079	0.0786	0.0033	4.213
Lead	207	0.0906	0.093	0.0936	0.0924	0.0016	1.729
Lead	208	0.0885	0.0855	0.085	0.0863	0.0019	2.175
Molybdenum	95	0.4211	0.411	0.4189	0.417	0.0053	1.268
Molybdenum	97	0.4127	0.3988	0.4225	0.4113	0.0119	2.888
Molybdenum	98	0.4217	0.4362	0.4333	0.4304	0.0077	1.789
Nickel	60	2.602	2.654	2.483	2.58	0.0873	3.383
Nickel	62	1.75	1.748	1.652	1.717	0.0562	3.27
Selenium	77	0.7129	0.6975	0.6477	0.686	0.034	4.96
Selenium	78	0.5134	0.6106	0.6202	0.5814	0.0591	10.16
Selenium	82	0.6311	0.6122	0.7969	0.6801	0.1016	14.94
Silver	107	-0.0001	-0.0003	0.0011	0.0002	0.0008	346.8
Silver	109	-0.0018	-0.0022	-0.0017	-0.0019	0.0002	12.06
Thallium	203	0.0403	0.0449	0.0397	0.0416	0.0028	6.814
Thallium	205	0.0416	0.0422	0.0409	0.0416	0.0007	1.574
Vanadium	51	0.4137	0.4059	0.4627	0.4274	0.0308	7.205
Zinc	66	1.658	1.638	1.596	1.631	0.0317	1.942
Zinc	67	3.371	3.496	3.419	3.429	0.0627	1.829
Zinc	68	3.115	3.186	3.076	3.126	0.0561	1.795

Internal Standard

Factors:

Lithium	6	1.145	1.203	1.233	1.145	n/a	n/a
Scandium	45	0.915	0.944	0.976	0.915	n/a	n/a
Gallium	71	1.143	1.216	1.206	1.143	n/a	n/a
Rhodium	103	1.185	1.235	1.237	1.185	n/a	n/a
Indium	115	1.12	1.175	1.177	1.12	n/a	n/a
Lutetium	175	1.027	1.049	1.047	1.027	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005067-004			Mean	SD	%RSD
TimeStamp		6/4/10 20:00					
Antimony	121	0.024	0.0237	0.0252	0.0243	0.0008	3.22
Antimony	123	0.0221	0.0253	0.0243	0.0239	0.0016	6.737
Arsenic	75	0.0785	0.1406	0.0818	0.1003	0.0349	34.85
Beryllium	9	0.0016	-0.0002	0.0023	0.0012	0.0013	105.6
Cadmium	111	0.0286	0.0322	0.0282	0.0297	0.0022	7.477
Cadmium	114	0.0286	0.0235	0.0272	0.0264	0.0026	9.832
Chromium	52	0.3759	0.3699	0.3726	0.3728	0.003	0.8053
Chromium	53	0.4394	0.4508	0.4248	0.4383	0.013	2.973
Cobalt	59	0.0458	0.0464	0.0494	0.0472	0.0019	4.059
Copper	63	0.231	0.2342	0.2307	0.232	0.0019	0.8252
Copper	65	0.1965	0.1896	0.1921	0.1927	0.0035	1.827
Lead	206	0.0885	0.0904	0.0864	0.0884	0.002	2.283
Lead	207	0.1041	0.0975	0.1032	0.1016	0.0035	3.489
Lead	208	0.0978	0.0941	0.0969	0.0963	0.0019	1.97
Molybdenum	95	0.0921	0.0987	0.0924	0.0944	0.0038	3.991
Molybdenum	97	0.0964	0.0929	0.0886	0.0926	0.0039	4.233
Molybdenum	98	0.0938	0.0914	0.0983	0.0945	0.0035	3.711
Nickel	60	0.9274	0.9803	0.971	0.9596	0.0282	2.943
Nickel	62	0.9451	1.021	0.9913	0.9858	0.0382	3.872
Selenium	77	0.0672	0.0641	0.0388	0.0567	0.0156	27.53
Selenium	78	-0.0913	0.0449	0.0766	0.0101	0.0892	887.3
Selenium	82	0.1299	0.3403	0.1138	0.1947	0.1264	64.91
Silver	107	0.0005	0.0001	0.0008	0.0004	0.0004	81.38
Silver	109	-0.0008	0	0	-0.0002	0.0005	190.7
Thallium	203	0.0399	0.0379	0.0429	0.0402	0.0025	6.263
Thallium	205	0.0432	0.0432	0.0416	0.0427	0.0009	2.123
Vanadium	51	0.1063	0.0988	0.1091	0.1048	0.0053	5.088
Zinc	66	1.898	1.865	1.939	1.901	0.0371	1.953
Zinc	67	1.88	1.806	2.007	1.898	0.1012	5.334
Zinc	68	1.966	1.905	1.931	1.934	0.0308	1.595

Internal Standard

Factors:

Lithium	6	0.917	0.98	1.019	0.917	n/a	n/a
Scandium	45	0.825	0.901	0.927	0.825	n/a	n/a
Gallium	71	0.864	0.936	0.957	0.864	n/a	n/a
Rhodium	103	0.893	0.95	0.954	0.893	n/a	n/a
Indium	115	0.88	0.926	0.945	0.88	n/a	n/a
Lutetium	175	0.863	0.88	0.889	0.863	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCV3	Mean	SD	%RSD			
TimeStamp	6/4/10 20:04						
Antimony	121	24.91	24.36	24.89	24.72	0.3138	1.27
Antimony	123	24.48	24.55	24.21	24.41	0.1785	0.7309
Arsenic	75	25.5	25.06	24.45	25	0.5268	2.107
Beryllium	9	24.86	25.22	26.04	25.37	0.6048	2.384
Cadmium	111	24.65	24.86	24.86	24.79	0.1232	0.497
Cadmium	114	24.89	24.28	25	24.72	0.3862	1.562
Chromium	52	24.77	24.72	25.09	24.86	0.2012	0.8091
Chromium	53	25.71	24.61	25.88	25.4	0.6923	2.726
Cobalt	59	25.37	23.81	24.32	24.5	0.7952	3.246
Copper	63	24.92	24.85	24.08	24.61	0.4677	1.9
Copper	65	24.31	23.95	25.01	24.43	0.5392	2.207
Lead	206	25	25.39	24.35	24.91	0.5258	2.111
Lead	207	24.74	24.98	25.01	24.91	0.1474	0.5918
Lead	208	24.86	25.35	24.28	24.83	0.5331	2.147
Molybdenum	95	24.53	25.5	25.56	25.2	0.5804	2.303
Molybdenum	97	24.43	25.69	25.49	25.2	0.6771	2.687
Molybdenum	98	24.81	25.53	25.24	25.19	0.3627	1.44
Nickel	60	23.96	23.87	24.07	23.97	0.1031	0.43
Nickel	62	24.73	24.39	24.41	24.51	0.1926	0.7859
Selenium	77	24.38	23.93	23.94	24.08	0.2572	1.068
Selenium	78	25.09	25.3	25.26	25.22	0.1126	0.4465
Selenium	82	25.05	24.64	24.81	24.83	0.2053	0.8268
Silver	107	23.92	24.25	24.77	24.31	0.4296	1.767
Silver	109	25.19	24.94	24.95	25.03	0.1421	0.5679
Thallium	203	23.84	24.87	23.89	24.2	0.5788	2.392
Thallium	205	24.19	25.47	24.75	24.8	0.6456	2.603
Vanadium	51	25.08	25.07	24.87	25.01	0.118	0.4717
Zinc	66	24.87	24.73	23.83	24.48	0.564	2.304
Zinc	67	25.23	24.45	24.33	24.67	0.489	1.982
Zinc	68	25.47	24.71	24.8	24.99	0.4175	1.67

Internal Standard

Factors:

Lithium	6	0.927	1.016	1.049	0.927	n/a	n/a
Scandium	45	0.888	0.941	0.965	0.888	n/a	n/a
Gallium	71	0.883	0.936	0.937	0.883	n/a	n/a
Rhodium	103	0.891	0.967	0.981	0.891	n/a	n/a
Indium	115	0.88	0.918	0.93	0.88	n/a	n/a
Lutetium	175	0.844	0.896	0.87	0.844	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCB3	Mean	SD	%RSD
TimeStamp	6/4/10 20:13			
Antimony 121	0.0065	0.0039	0.0029	0.0045 0.0018 40.68
Antimony 123	0.0106	0.008	0.0018	0.0068 0.0045 66.35
Arsenic 75	0.0345	0.0534	-0.0061	0.0273 0.0304 111.5
Beryllium 9	0.0075	0.0065	0.0021	0.0054 0.0029 53.97
Cadmium 111	0.0041	0.0059	0.0026	0.0042 0.0017 39.27
Cadmium 114	0.0038	0.0051	0.0017	0.0036 0.0017 48.74
Chromium 52	-0.0075	0.0052	0.0102	0.0027 0.0091 342
Chromium 53	0.057	0.0465	0.0493	0.0509 0.0054 10.69
Cobalt 59	0.0044	0.0068	0.0018	0.0043 0.0025 57.55
Copper 63	0.0323	0.0474	0.0403	0.04 0.0076 18.94
Copper 65	0.0012	0.0055	-0.0059	0.0003 0.0058 1983
Lead 206	0.0055	0.0051	0.0018	0.0042 0.002 48.46
Lead 207	0.0056	0.0072	0.0035	0.0054 0.0019 34.01
Lead 208	0.0052	0.0055	0.0028	0.0045 0.0015 33.73
Molybdenum 95	0.0092	0.0066	0.0024	0.0061 0.0034 56.59
Molybdenum 97	0.0047	0.0105	0.002	0.0057 0.0043 75.25
Molybdenum 98	0.0063	0.0059	0.003	0.0051 0.0018 35.11
Nickel 60	-0.0518	-0.0454	-0.0338	-0.0437 0.0091 20.9
Nickel 62	-0.079	-0.0538	-0.081	-0.0712 0.0152 21.26
Selenium 77	-0.0031	-0.0002	0.0248	0.0072 0.0153 213.9
Selenium 78	-0.0888	0.0393	-0.0374	-0.029 0.0644 222.6
Selenium 82	0.0818	0.1445	0.0009	0.0757 0.072 95.1
Silver 107	0.0083	0.0072	0.0023	0.0059 0.0032 54.02
Silver 109	0.0083	0.0053	0.0034	0.0057 0.0025 43.98
Thallium 203	0.0054	0.0026	-0.0005	0.0025 0.003 119.3
Thallium 205	0.0068	0.0015	-0.0009	0.0025 0.004 160.3
Vanadium 51	0.0025	0.0078	0.0031	0.0045 0.0029 65.23
Zinc 66	0.0235	0.0261	0.015	0.0215 0.0058 26.92
Zinc 67	0.0066	0.0143	-0.0018	0.0064 0.0081 127.1
Zinc 68	0.0004	0.0121	0.0121	0.0082 0.0067 82.22

Internal Standard
 Factors:

Lithium 6	0.902	1	1.033	0.902 n/a	n/a
Scandium 45	0.826	0.937	0.971	0.826 n/a	n/a
Gallium 71	0.865	0.974	0.973	0.865 n/a	n/a
Rhodium 103	0.91	0.981	0.977	0.91 n/a	n/a
Indium 115	0.878	0.925	0.952	0.878 n/a	n/a
Lutetium 175	0.859	0.884	0.904	0.859 n/a	n/a

Sample List

Num	Label	Type	Weight	Volume	Dilution	Rack	Row	Column	Height
1	Cal. Blk	Blank	0 kg	0 ml	1.00	0	1	1	145
2	Cal. Str	Fully Quant Standard	0 kg	0 ml	1.00	0	1	2	145
3	ICV1	Unknown	0 kg	0 ml	1.00	0	1	3	145
4	CCV1	Unknown	0 kg	0 ml	1.00	0	1	2	145
5	ICB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
6	CCB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
7	WATER DRA	Unknown	0 kg	0 ml	1.00	0	1	4	145
8	K1005055-008	Unknown	0 kg	0 ml	1.00	1	1	1	145
9	K1005055-009	Unknown	0 kg	0 ml	1.00	1	1	4	145
10	K1005055-010	Unknown	0 kg	0 ml	1.00	1	1	5	145
11	K1005055-011	Unknown	0 kg	0 ml	1.00	1	1	6	145
12	LCSW-01031200	Unknown	0 kg	0 ml	1.00	1	1	2	145
13	LCSW-0103120020	Unknown	0 kg	0 ml	1.00	1	1	3	145
14	K1005055-001	Unknown	0 kg	0 ml	1.00	1	1	7	145
15	K1005055-002	Unknown	0 kg	0 ml	1.00	1	1	8	145
16	K1005055-003	Unknown	0 kg	0 ml	1.00	1	1	9	145
17	K1005055-004	Unknown	0 kg	0 ml	1.00	1	1	10	145
18	CCV2	Unknown	0 kg	0 ml	1.00	0	1	2	145
19	CCV3	Unknown	0 kg	0 ml	1.00	0	1	1	145
20	K1005055-005	Unknown	0 kg	0 ml	1.00	2	1	10	145
21	K1005055-006	Unknown	0 kg	0 ml	1.00	2	1	11	145
22	K1005117-001S	Unknown	0 kg	0 ml	1.00	2	1	12	145
23	CCV4	Unknown	0 kg	0 ml	1.00	0	1	2	145
24	CCV5	Unknown	0 kg	0 ml	1.00	0	1	1	145
25	K1005055-007	Unknown	0 kg	0 ml	1.00	1	1	11	145
26	K1005055-008	Unknown	0 kg	0 ml	1.00	1	1	12	145
27	K1005055-009	Unknown	0 kg	0 ml	1.00	1	2	1	145
28	K1005055-009	Unknown	0 kg	0 ml	1.00	1	2	2	145
29	K1005055-010	Unknown	0 kg	0 ml	1.00	1	2	3	145
30	K1005055-001 DISS	Unknown	0 kg	0 ml	1.00	1	2	4	145
31	K1005055-002 DISS	Unknown	0 kg	0 ml	1.00	1	2	5	145
32	K1005055-003 DISS	Unknown	0 kg	0 ml	1.00	1	2	6	145
33	K1005055-004 DISS	Unknown	0 kg	0 ml	1.00	1	2	7	145
34	K1005055-005 DISS	Unknown	0 kg	0 ml	1.00	1	2	8	145
35	CCV4	QC Sample	0 kg	0 ml	1.00	0	1	2	145
36	CCB1	QC Sample	0 kg	0 ml	1.00	0	1	1	145
37	K1005055-006 DISS	Unknown	0 kg	0 ml	1.00	1	2	9	145
38	K1005055-007 DISS	Unknown	0 kg	0 ml	1.00	1	2	10	145
39	K1005055-008 DISS	Unknown	0 kg	0 ml	1.00	1	2	11	145
40	K1005055-009 DISS	Unknown	0 kg	0 ml	1.00	1	2	12	145
41	K1005055-006 DISSSD	Unknown	0 kg	0 ml	1.00	1	3	1	145
42	K1005055-001 DISS	Unknown	0 kg	0 ml	1.00	1	3	2	145
43	K1005055-001 DISS	Unknown	0 kg	0 ml	1.00	1	3	3	145
44	K1005055-001	Unknown	0 kg	0 ml	1.00	1	3	4	145
45	LCSW-01031200	Unknown	0 kg	0 ml	1.00	1	3	5	145
46	LCSW-K1005055D	Unknown	0 kg	0 ml	1.00	1	3	6	145
47	CCV5	QC Sample	0 kg	0 ml	1.00	0	1	2	145
48	CCB5	QC Sample	0 kg	0 ml	1.00	0	1	1	145

49	K1005055-013	Unknown	0 kg	0 ml	1.00	1	3	7	145
50	K1005258-001	Unknown	0 kg	0 ml	1.00	1	3	8	145
51	K1005258-001S	Unknown	0 kg	0 ml	1.00	1	3	9	145
52	K1005258-001SD	Unknown	0 kg	0 ml	1.00	1	3	10	145
53	K1005258-002	Unknown	0 kg	0 ml	1.00	1	3	11	145
54	K1005258-002S	Unknown	0 kg	0 ml	1.00	1	3	12	145
55	K1005258-002SD	Unknown	0 kg	0 ml	1.00	1	4	1	145
56	K1005258-003	Unknown	0 kg	0 ml	1.00	1	4	2	145
57	K1005258-004	Unknown	0 kg	0 ml	1.00	1	4	3	145
58	K1005258-005	Unknown	0 kg	0 ml	1.00	1	4	4	145
59	CCV6	QC Sample	0 kg	0 ml	1.00	0	1	2	145
60	CCB6	QC Sample	0 kg	0 ml	1.00	0	1	1	145
61	K1005258-006	Unknown	0 kg	0 ml	1.00	1	4	5	145
62	K1005258-007	Unknown	0 kg	0 ml	1.00	1	4	6	145
63	K1005258-009	Unknown	0 kg	0 ml	1.00	1	4	7	145
64	K1005258-001 DISS	Unknown	0 kg	0 ml	1.00	1	4	8	145
65	K1005258-001 DISSS	Unknown	0 kg	0 ml	1.00	1	4	9	145
66	K1005258-001 DISSSD	Unknown	0 kg	0 ml	1.00	1	4	10	145
67	K1005258-002 DISS	Unknown	0 kg	0 ml	1.00	1	4	11	145
68	K1005258-002 DISSS	Unknown	0 kg	0 ml	1.00	1	4	12	145
69	K1005258-002 DISSSD	Unknown	0 kg	0 ml	1.00	1	5	1	145
70	CCV7	QC Sample	0 kg	0 ml	1.00	0	1	2	145
71	CCB7	QC Sample	0 kg	0 ml	1.00	0	1	1	145
72	K1005258-003 DISS	Unknown	0 kg	0 ml	1.00	1	5	2	145
73	K1005258-004 DISS	Unknown	0 kg	0 ml	1.00	1	5	3	145
74	K1005258-005 DISS	Unknown	0 kg	0 ml	1.00	1	5	4	145
75	K1005258-006 DISS	Unknown	0 kg	0 ml	1.00	1	5	5	145
76	K1005258-010 DISS	Unknown	0 kg	0 ml	1.00	1	5	6	145
77	K1005258-011 DISS	Unknown	0 kg	0 ml	1.00	1	5	7	145
78	K1005055-008 1/50	Unknown	0 kg	0 ml	1.00	1	5	8	145
79	K1005055-008 1/50D	Unknown	0 kg	0 ml	1.00	1	5	9	145
80	K1005055-008 1/50S	Unknown	0 kg	0 ml	1.00	1	5	10	145
81	K1005055-009 1/20	Unknown	0 kg	0 ml	1.00	1	5	11	145
82	CCV8	QC Sample	0 kg	0 ml	1.00	0	1	2	145
83	CCB8	QC Sample	0 kg	0 ml	1.00	0	1	1	145
84	K1005055-008 DISS	Unknown	0 kg	0 ml	1.00	1	5	12	145
85	^{1/50} K1005055-008 DISS	Unknown	0 kg	0 ml	1.00	2	1	1	145
86	^{1/50D} K1005055-008 DISS	Unknown	0 kg	0 ml	1.00	2	1	2	145
87	^{1/50S} K1005055-009 DISS	Unknown	0 kg	0 ml	1.00	2	1	3	145
88	^{1/10} K1005258-001 1/10	Unknown	0 kg	0 ml	1.00	2	1	4	145
89	K1005258-001 1/10S	Unknown	0 kg	0 ml	1.00	2	1	5	145
90	K1005258-001 1/10SD	Unknown	0 kg	0 ml	1.00	2	1	6	145
91	K1005258-002 1/10	Unknown	0 kg	0 ml	1.00	2	1	7	145
92	K1005258-002 1/10S	Unknown	0 kg	0 ml	1.00	2	1	8	145
93	K1005258-002 1/10SD	Unknown	0 kg	0 ml	1.00	2	1	9	145
94	CCV9	QC Sample	0 kg	0 ml	1.00	0	1	2	145
95	CCB9	QC Sample	0 kg	0 ml	1.00	0	1	1	145
96	K1004672-MB 1/5	Unknown	0 kg	0 ml	1.00	2	2	1	145
97	LC SW K1004672 1/25	Unknown	0 kg	0 ml	1.00	2	2	2	145
98	K1004672-001 1/5	Unknown	0 kg	0 ml	1.00	2	2	3	145
99	K1004672-001 1/5D	Unknown	0 kg	0 ml	1.00	2	2	4	145

100	K1004672-001 1/25S	Unknown	0 kg	0 ml	1.00	2	2	5	145
101	CCV10	QC Sample	0 kg	0 ml	1.00	0	1	2	145
102	CCB10	QC Sample	0 kg	0 ml	1.00	0	1	1	145

Instrument Setup - Configurations

Configuration Name - acqmet11
 Description - PQExcell CCT Sim Default
 Date - 7:55:02 6/7/10
 Maximum Uptake Time - 0
 Maximum Washout Time - 0
 S-Option Pump Running - No
 Plasma Screen Forward - No
 Makeup Gas On - No
 Use CCT - No
 Use Accessory Gas - No

Setting	Value
Extraction	-650.00
Lens1	5.00
Lens2	-60.00
Lens3	-25.00
Pole Bias	5.00
Sampling Depth	400.00
Horizontal	0.00
Vertical	95.00
Cool	13.00
Auxiliary	0.80
Nebuliser	0.82
Forward power	1,365.00
HT1 Voltage	1,900.00
HT2 Voltage	2,600.00
D1	-42.00
Focus	8.00

Configuration Name - acqmet11
 Description - PQExcell CCT Sim Default
 Date - 7:55:02 6/7/10
 Maximum Uptake Time - 0
 Maximum Washout Time - 0
 S-Option Pump Running - No
 Plasma Screen Forward - No
 Makeup Gas On - No
 Use CCT - No
 Use Accessory Gas - No

Setting	Value
Extraction	-650.00
Lens1	5.00
Lens2	-60.00
Lens3	-25.00
Pole Bias	5.00
Sampling Depth	400.00
Horizontal	0.00
Vertical	95.00
Cool	13.00
Auxiliary	0.80

Mass	Mass DAC	Peak Width (AMU)	Error (AMU)	Include	Masses in Tune Solution
6.015	1297	0.664	0	TRUE	
7.016	1551	0.715	-0.003	TRUE	Li-7
9.012	2058	0.715	-0.007	TRUE	Be-9
23.985	5879	0.715	0.031	TRUE	Mg-24
24.986	6126	0.715	0.001	TRUE	Co-59
25.983	6386	0.715	0.026	TRUE	In-115
26.982	6633	0.715	-0.003	TRUE	Ce-140
51.94	12990	0.766	0.006	TRUE	Pb-208
53.949	13497	0.766	-0.011	TRUE	Bi-209
55.935	14004	0.766	-0.006	TRUE	U-238
56.935	14264	0.766	0.015	TRUE	
57.934	14511	0.766	-0.014	TRUE	
58.933	14765	0.715	-0.016	TRUE	
62.93	15779	0.715	-0.03	TRUE	
63.929	16039	0.715	-0.008	TRUE	
75.92	19087	0.766	-0.032	TRUE	
112.904	28510	0.714	-0.025	TRUE	
114.904	29017	0.714	-0.035	TRUE	
118.903	30070	0.714	0.098	TRUE	
128.905	32598	0.663	0.017	TRUE	
130.905	33105	0.663	0.007	TRUE	
131.905	33359	0.612	0.004	TRUE	
133.905	33872	0.663	0.016	TRUE	
135.906	34379	0.663	0.005	TRUE	
137.906	34886	0.663	-0.006	TRUE	
139.905	35400	0.612	0.012	TRUE	
141.908	35907	0.612	-0.002	TRUE	
155.923	39475	0.663	-0.018	TRUE	
157.924	39989	0.612	-0.003	TRUE	
203.973	51728	0.612	-0.01	TRUE	
205.974	52241	0.561	0	TRUE	
206.976	52495	0.612	-0.005	TRUE	
207.977	52748	0.561	-0.014	TRUE	
208.98	53008	0.561	0.002	TRUE	
238.051	60425	0.51	0.009	TRUE	

Excluded in Calib	Excluded in Results	Peak Label	Multi Element	Net Int Count	Internal Standard	Standard Addition		
Uncorrected ICPS Per Mass			S-Calibration Has Edited Standard F-Interference Correction Failed	E-Calibration Edited T-Tripped	I-Invalid Calibration P-Pulse Counting	V-Valley Integration Failed M-Result Over Max		
Run	Label	TimeStamp	58Kq	7Li	9Be	59Co	115In	208Pb
1	Stability 06-07-2010	6/7/2010 8:10:33 AM	(P)1.667	(P)24576.624	(P)5766.164	(P)63156.393	(P)121051.420	(P)58993.409
2	Stability 06-07-2010	6/7/2010 8:11:48 AM	(P)1.000	(P)24102.485	(P)5686.965	(P)61869.073	(P)117841.230	(P)56990.663
3	Stability 06-07-2010	6/7/2010 8:13:03 AM	(P)0.833	(P)24575.456	(P)5837.693	(P)62278.167	(P)117896.740	(P)55644.574
4	Stability 06-07-2010	6/7/2010 8:14:19 AM	(P)0.167	(P)25095.858	(P)5940.235	(P)62326.230	(P)119009.380	(P)57039.712
5	Stability 06-07-2010	6/7/2010 8:15:34 AM	(P)0.333	(P)24753.434	(P)5865.538	(P)62329.225	(P)119470.620	(P)55685.874
	Mean of Stability 06-07	6/7/2010 8:10:33 AM	(P)0.800	(P)24620.771	(P)5819.319	(P)62391.818	(P)119053.880	(P)56870.846
	SD of Stability 06-07-20		(P)0.594	(P)359.142	(P)96.744	(P)468.768	(P)1320.543	(P)1365.288
	%RSD of Stability 06		(P)74.244	(P)1.459	(P)1.662	(P)0.751	(P)1.109	(P)2.401

Run	Label	TimeStamp	209Bi	209Pb	238U
1	Stability 06-07-2010	6/7/2010 8:10:33 AM	(P)95984.882	(P)0.167	(P)92165.818
2	Stability 06-07-2010	6/7/2010 8:11:48 AM	(P)93402.705	(P)0.167	(P)90879.262
3	Stability 06-07-2010	6/7/2010 8:13:03 AM	(P)90342.134	(P)0.000	(P)87492.038
4	Stability 06-07-2010	6/7/2010 8:14:19 AM	(P)92395.356	(P)0.167	(P)89656.487
5	Stability 06-07-2010	6/7/2010 8:15:34 AM	(P)90788.303	(P)0.500	(P)91157.885
	Mean of Stability 06-07	6/7/2010 8:10:33 AM	(P)92582.676	(P)0.200	(P)90270.298
	SD of Stability 06-07-20		(P)2265.080	(P)0.183	(P)1792.145
	%RSD of Stability 06		(P)2.447	(P)91.267	(P)1.985

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621



Sample Name:		Cal. Blk			Mean	SD	%RSD
TimeStamp		6/7/10 11:41					
Aluminum	27	-0.005	0.0064	-0.0015	0	0.0058	0
Antimony	121	0	0.0001	-0.0001	0	0.0001	0
Antimony	123	-0.0004	0.002	-0.0016	0	0.0018	0
Arsenic	75	0.0002	-0.0055	0.0052	0	0.0053	0
Barium	137	0.0003	0.0023	-0.0025	0	0.0024	0
Barium	138	0.0015	-0.0004	-0.0011	0	0.0013	0
Beryllium	9	0.0006	0.0015	-0.0022	0	0.002	0
Bismuth	209	0.0012	0.0001	-0.0013	0	0.0012	0
Boron	10	-0.0118	0.0056	0.0063	0	0.0103	0
Boron	11	0.0082	-0.0039	-0.0043	0	0.0071	0
Cadmium	111	-0.0018	0.0006	0.0012	0	0.0016	0
Cadmium	114	0.0018	-0.0004	-0.0014	0	0.0016	0
Chromium	52	-0.016	0.0192	-0.0032	0	0.0178	0
Chromium	53	-0.0057	-0.0035	0.0092	0	0.0081	0
Cobalt	59	0.0036	-0.0014	-0.0023	0	0.0032	0
Copper	63	-0.0088	0.0066	0.0023	0	0.0079	0
Copper	65	-0.0007	0.0028	-0.0021	0	0.0025	0
Lead	206	-0.0002	0.0021	-0.0019	0	0.002	0
Lead	207	0.0013	0.0016	-0.0029	0	0.0025	0
Lead	208	0.0003	0.0016	-0.002	0	0.0018	0
Manganese	55	0.0007	0.0002	-0.0009	0	0.0008	0
Molybdenum	95	0.0008	0.0007	-0.0015	0	0.0013	0
Molybdenum	97	0.0015	0.0027	-0.0042	0	0.0037	0
Molybdenum	98	0.0005	-0.0007	0.0002	0	0.0006	0
Nickel	60	0.004	0.0016	-0.0056	0	0.005	0
Nickel	62	-0.1626	0.2415	-0.0789	0	0.2133	0
Selenium	77	-0.0533	0.0511	0.0022	0	0.0522	0
Selenium	78	-0.136	0.0361	0.1	0	0.1221	0
Selenium	82	-0.0525	0.0354	0.017	0	0.0464	0
Silver	107	0.0008	0	-0.0008	0	0.0008	0
Silver	109	0.002	0.0011	-0.0031	0	0.0027	0
Thallium	203	0.0001	0.0002	-0.0003	0	0.0003	0
Thallium	205	0.0011	-0.0002	-0.0009	0	0.001	0
Tin	118	0.0001	-0.0004	0.0003	0	0.0004	0
Tin	120	-0.0007	0.0016	-0.0009	0	0.0014	0
Vanadium	51	-0.003	0.0075	-0.0045	0	0.0065	0
Zinc	66	-0.0087	0.0072	0.0015	0	0.0081	0
Zinc	68	0.0046	0.0041	-0.0087	0	0.0075	0

Internal Standard Factors:

Lithium	6	0.977	1.015	1.009	0.977	n/a	n/a
Gallium	71	0.976	1.012	1.013	0.976	n/a	n/a
Rhodium	103	0.966	1.016	1.02	0.966	n/a	n/a
Indium	115	0.971	1.023	1.008	0.971	n/a	n/a
Lutetium	175	0.987	1.009	1.004	0.987	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name: TimeStamp	Cal. Stn 6/7/10 11:46	Mean	SD	%RSD		
Aluminum 27	24.71	25.22	25.07	25	0.2609	1.044
Antimony 121	24.73	24.97	25.31	25	0.2918	1.167
Antimony 123	25.32	24.25	25.43	25	0.6535	2.614
Arsenic 75	24.91	24.92	25.17	25	0.1452	0.5809
Barium 137	24.8	25.26	24.94	25	0.2329	0.9318
Barium 138	24.85	25.25	24.9	25	0.2193	0.8774
Beryllium 9	24.36	25.64	25	25	0.639	2.556
Bismuth 209	24.02	25.4	25.58	25	0.8562	3.425
Boron 10	23.98	26.09	24.94	25	1.055	4.221
Boron 11	23.63	26.23	25.13	25	1.304	5.215
Cadmium 111	25.04	24.8	25.16	25	0.1846	0.7383
Cadmium 114	25.04	24.78	25.18	25	0.2016	0.8065
Chromium 52	24.51	25.05	25.44	25	0.4643	1.857
Chromium 53	24.65	25.01	25.33	25	0.3406	1.362
Cobalt 59	24.73	25.12	25.16	25	0.2372	0.9488
Copper 63	24.82	25.13	25.05	25	0.1581	0.6322
Copper 65	24.86	24.88	25.26	25	0.2294	0.9176
Lead 206	25.08	24.9	25.01	25	0.0905	0.3618
Lead 207	24.59	25.51	24.9	25	0.4711	1.884
Lead 208	24.69	25.16	25.16	25	0.2727	1.091
Manganese 55	24.62	24.88	25.51	25	0.4564	1.826
Molybdenum 95	25.27	24.77	24.96	25	0.2509	1.004
Molybdenum 97	24.86	25.32	24.82	25	0.2779	1.112
Molybdenum 98	24.77	25.17	25.06	25	0.2048	0.8192
Nickel 60	24.79	25.15	25.06	25	0.1865	0.7461
Nickel 62	25.14	25.09	24.78	25	0.1954	0.7817
Selenium 77	24.93	25.25	24.82	25	0.2228	0.8913
Selenium 78	24.89	24.62	25.49	25	0.4414	1.766
Selenium 82	24.87	25.09	25.04	25	0.1172	0.4689
Silver 107	24.95	25.09	24.96	25	0.0802	0.3208
Silver 109	25	24.77	25.24	25	0.2349	0.9394
Thallium 203	24.93	24.83	25.25	25	0.2193	0.8773
Thallium 205	24.62	25.19	25.19	25	0.3328	1.331
Tin 118	25.02	24.82	25.17	25	0.1763	0.705
Tin 120	24.62	24.82	25.56	25	0.4949	1.979
Vanadium 51	24.57	25.52	24.91	25	0.4815	1.926
Zinc 66	24.64	25.15	25.21	25	0.3109	1.244
Zinc 68	24.94	24.95	25.1	25	0.0892	0.357

**Internal Standard
Factors:**

Lithium 6	0.937	1.02	1.007	0.937	n/a	n/a
Gallium 71	1.006	1.041	1.052	1.006	n/a	n/a
Rhodium 103	1.001	1.029	1.037	1.001	n/a	n/a
Indium 115	0.985	1.033	1.036	0.985	n/a	n/a
Lutetium 175	0.981	1.035	1.037	0.981	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		ICV1			Mean	SD	%RSD
TimeStamp		6/7/10 11:51					
Aluminum	27	95.08	98.64	101.4	98.38	3.176	3.228
Antimony	121	24.71	24.81	25.36	24.96	0.3465	1.388
Antimony	123	24.85	25.09	25.2	25.05	0.1788	0.7138
Arsenic	75	24.84	24.73	24.36	24.65	0.2498	1.014
Barium	137	106.2	106.6	107	106.6	0.3742	0.351
Barium	138	109.8	108.6	109	109.1	0.6033	0.5529
Beryllium	9	2.66	2.735	2.708	2.701	0.0379	1.402
Bismuth	209	24.88	25.58	24.39	24.95	0.5988	2.4
Boron	10	25.32	27.22	26.6	26.38	0.97	3.677
Boron	11	26.39	26.17	26.92	26.49	0.3861	1.458
Cadmium	111	12.8	12.9	13.09	12.93	0.1474	1.14
Cadmium	114	13.14	13.6	13.33	13.36	0.2288	1.713
Chromium	52	10.22	10.09	10.37	10.23	0.1374	1.343
Chromium	53	10.7	10.95	10.69	10.78	0.1466	1.36
Cobalt	59	24.18	24.85	24.97	24.67	0.4255	1.725
Copper	63	12.88	12.64	12.61	12.71	0.1481	1.165
Copper	65	12.62	12.51	12.66	12.59	0.0765	0.6077
Lead	206	24.04	24.69	23.99	24.24	0.3908	1.612
Lead	207	27.17	26.67	27.19	27.01	0.2971	1.1
Lead	208	25.89	25.97	25.92	25.93	0.0421	0.1623
Manganese	55	25	25.18	25.85	25.34	0.4487	1.771
Molybdenum	95	25.03	25.56	25.56	25.38	0.3105	1.223
Molybdenum	97	24.84	24.93	25.78	25.18	0.5194	2.063
Molybdenum	98	25.15	25.34	26.28	25.59	0.6043	2.362
Nickel	60	25.64	25.13	25.04	25.27	0.3224	1.276
Nickel	62	25.3	24.72	24.65	24.89	0.3559	1.43
Selenium	77	25.37	25.64	26.03	25.68	0.3311	1.289
Selenium	78	24.72	25.34	25.3	25.12	0.3451	1.374
Selenium	82	25.08	25.76	25.66	25.5	0.3643	1.429
Silver	107	13.56	12.84	13.4	13.27	0.3813	2.874
Silver	109	13.25	13.14	13.22	13.2	0.0587	0.4443
Thallium	203	26.13	26.09	26.55	26.25	0.2562	0.9758
Thallium	205	26.02	26.3	26.79	26.37	0.3868	1.467
Tin	118	24.42	24.54	24.52	24.49	0.0644	0.263
Tin	120	24.21	24.39	24.54	24.38	0.1636	0.6712
Vanadium	51	25.15	24.98	25.85	25.33	0.4586	1.811
Zinc	66	25.91	26.37	26.28	26.19	0.2478	0.9463
Zinc	68	27.71	27.92	28	27.88	0.1459	0.5235

Internal Standard Factors:

Lithium	6	0.967	1.007	1.03	0.967	n/a	n/a
Gallium	71	1.018	1.029	1.031	1.018	n/a	n/a
Rhodium	103	1.006	1.039	1.06	1.006	n/a	n/a
Indium	115	1.012	1.044	1.046	1.012	n/a	n/a
Lutetium	175	1.002	1.041	1.044	1.002	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCV1	Mean	SD	%RSD
TimeStamp	6/7/10 11:56			
Aluminum 27	23.57	24.45	0.956	3.903
Antimony 121	25.07	25.1	0.2475	0.9923
Antimony 123	25.37	25	0.1946	0.7738
Arsenic 75	24.76	24.61	0.1908	0.7759
Barium 137	25.38	24.73	0.4585	1.816
Barium 138	24.8	24.6	0.1165	0.4708
Beryllium 9	24.88	25.61	0.491	1.96
Bismuth 209	24.58	24.94	0.3756	1.505
Boron 10	24.38	26.76	1.203	4.723
Boron 11	24.9	25.55	0.3744	1.491
Cadmium 111	25.45	24.23	0.6102	2.46
Cadmium 114	24.6	24.45	0.2436	0.9878
Chromium 52	25.01	25.34	0.1694	0.6733
Chromium 53	25.28	25.48	0.3936	1.564
Cobalt 59	24.85	24.84	0.0668	0.2695
Copper 63	25.17	24.2	0.4929	1.993
Copper 65	24.82	24.88	0.2821	1.143
Lead 206	25.01	24.66	0.4004	1.599
Lead 207	24.67	24.65	0.4901	1.965
Lead 208	24.92	24.98	0.4128	1.639
Manganese 55	25.39	25.04	0.3428	1.369
Molybdenum 95	25.18	25.04	0.2883	1.156
Molybdenum 97	25.06	24.63	0.3958	1.606
Molybdenum 98	25.64	24.68	0.5768	2.31
Nickel 60	25.01	24.7	0.1578	0.635
Nickel 62	25.63	25.11	0.4726	1.88
Selenium 77	25.12	24.72	0.4088	1.654
Selenium 78	26.26	25.1	0.5898	2.301
Selenium 82	24.35	24.78	0.227	0.9257
Silver 107	24.84	24.86	0.0588	0.2368
Silver 109	25.31	25.3	0.2902	1.154
Thallium 203	24.79	24.69	0.4939	1.974
Thallium 205	25.25	24.99	0.5605	2.204
Tin 118	25.7	24.79	0.4729	1.878
Tin 120	25.08	25.09	0.0671	0.267
Vanadium 51	24.92	24.52	0.5151	2.107
Zinc 66	25.35	25.04	0.4978	1.997
Zinc 68	25.36	24.99	0.4395	1.762

Internal Standard Factors:

Lithium 6	0.953	0.991	1.033	0.953	n/a	n/a
Gallium 71	1.047	1.047	1.051	1.047	n/a	n/a
Rhodium 103	1.035	1.049	1.043	1.035	n/a	n/a
Indium 115	1.013	1.031	1.034	1.013	n/a	n/a
Lutetium 175	0.997	1.045	1.028	0.997	n/a	n/a

Sample Name:		ICB1			Mean	SD	%RSD
TimeStamp		6/7/10 12:06					
Aluminum	27	0.0075	0.025	0.0131	0.0152	0.0089	58.67
Antimony	121	0.0132	0.0138	0.0103	0.0124	0.0019	15.39
Antimony	123	0.0173	0.0142	0.0133	0.0149	0.0021	14.02
Arsenic	75	0.0057	-0.0281	-0.0241	-0.0155	0.0185	118.9
Barium	137	-0.0014	-0.0019	-0.0013	-0.0015	0.0003	22.13
Barium	138	0.0006	0.0006	0.002	0.0011	0.0008	77.96
Beryllium	9	0.0017	-0.0013	-0.0028	-0.0008	0.0023	288.8
Bismuth	209	0.0027	0.0037	0.0014	0.0026	0.0011	44.71
Boron	10	0.0472	0.0222	0.0255	0.0316	0.0135	42.79
Boron	11	0.0297	0.0268	0.0294	0.0286	0.0016	5.468
Cadmium	111	0.0026	0.0013	0.0025	0.0021	0.0008	35.39
Cadmium	114	0.0003	-0.0008	-0.0006	-0.0004	0.0006	161.3
Chromium	52	-0.0601	-0.0294	0.0002	-0.0298	0.0302	101.3
Chromium	53	0.0285	0.0483	0.0349	0.0372	0.0101	27.18
Cobalt	59	0.0057	0.0018	-0.0004	0.0024	0.0031	131
Copper	63	-0.0299	-0.024	-0.0105	-0.0215	0.01	46.41
Copper	65	-0.0001	0.0001	0.0077	0.0026	0.0044	172.2
Lead	206	0.0015	-0.0005	-0.0014	-0.0002	0.0015	975.8
Lead	207	0.0024	0.0006	0.0043	0.0024	0.0019	76.72
Lead	208	0	0.0009	0.0002	0.0004	0.0005	122.7
Manganese	55	-0.0032	-0.0009	0.0033	-0.0003	0.0033	1290
Molybdenum	95	0.0036	0.0059	0.0045	0.0047	0.0012	24.94
Molybdenum	97	0.0059	0.0054	0.006	0.0057	0.0003	5.462
Molybdenum	98	0.0086	0.0059	0.0075	0.0073	0.0014	18.53
Nickel	60	-0.0291	0.0159	0.0025	-0.0036	0.0231	651.5
Nickel	62	-0.1986	-0.1883	0.0623	-0.1082	0.1477	136.5
Selenium	77	-0.0849	0.0174	0.0338	-0.0112	0.0644	573.8
Selenium	78	0.0202	0.085	-0.0708	0.0115	0.0783	682.5
Selenium	82	-0.0383	-0.0955	-0.0422	-0.0587	0.032	54.53
Silver	107	0.0073	0.0043	0.006	0.0059	0.0015	25.94
Silver	109	0.0064	0.0058	0.0038	0.0053	0.0014	26.3
Thallium	203	0.0033	0.0018	0.0027	0.0026	0.0008	29.71
Thallium	205	0.0013	0.0018	0.0018	0.0016	0.0003	19.23
Tin	118	0.0126	0.0119	0.0122	0.0122	0.0003	2.828
Tin	120	0.013	0.012	0.0071	0.0107	0.0031	29.22
Vanadium	51	-0.0163	-0.012	0.0019	-0.0088	0.0095	108.2
Zinc	66	-0.022	-0.0253	-0.0129	-0.0201	0.0064	31.91
Zinc	68	-0.0267	-0.005	-0.0174	-0.0164	0.0109	66.36

**Internal Standard
Factors:**

Lithium	6	0.932	0.986	1.001	0.932 n/a	n/a
Gallium	71	1.004	1.048	1.037	1.004 n/a	n/a
Rhodium	103	0.99	1.04	1.025	0.99 n/a	n/a
Indium	115	0.976	1.019	1.017	0.976 n/a	n/a
Lutetium	175	0.978	0.993	1.012	0.978 n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 06-07-10B

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #203621

Sample Name:		CCB1			Mean	SD	%RSD
TimeStamp		6/7/10 12:17					
Aluminum	27	-0.0182	0.0061	-0.0067	-0.0062	0.0121	194.3
Antimony	121	0.0031	0.0061	0.0045	0.0046	0.0015	32.95
Antimony	123	0.0056	0.0071	0.0054	0.006	0.0009	15.08
Arsenic	75	-0.0437	-0.0372	0.0298	-0.017	0.0407	239.3
Barium	137	0.0024	-0.0014	0.0011	0.0007	0.0019	277.7
Barium	138	-0.0002	0.0019	0.0013	0.001	0.0011	105.6
Beryllium	9	-0.0029	0.0014	0.001	-0.0002	0.0024	1354
Bismuth	209	-0.0024	-0.0015	-0.0024	-0.0021	0.0005	24.29
Boron	10	-0.0132	-0.0104	-0.0213	-0.015	0.0057	37.76
Boron	11	-0.0172	-0.007	-0.0315	-0.0186	0.0123	66.31
Cadmium	111	0.0035	0.0012	0.0015	0.0021	0.0013	61.23
Cadmium	114	0.0003	0.0001	-0.0002	0.0001	0.0003	387.7
Chromium	52	-0.0661	-0.0341	-0.0497	-0.05	0.016	32
Chromium	53	0.0052	0.0116	0.0039	0.0069	0.0041	59.58
Cobalt	59	0.0029	0.0002	-0.0031	0	0.003	25970
Copper	63	-0.0201	-0.0242	-0.0305	-0.025	0.0052	20.98
Copper	65	-0.0017	-0.0019	-0.0104	-0.0046	0.005	106.8
Lead	206	0	0.0009	0.0006	0.0005	0.0005	91.29
Lead	207	0.0028	0.002	0.0012	0.002	0.0008	38.54
Lead	208	0.0005	0.0008	0.001	0.0007	0.0003	34.95
Manganese	55	-0.0033	-0.0009	-0.0004	-0.0015	0.0016	102
Molybdenum	95	-0.001	-0.0023	0.0002	-0.001	0.0012	117.7
Molybdenum	97	0.002	0.0022	0.0046	0.0029	0.0015	50.24
Molybdenum	98	0.0011	0.0032	0.0029	0.0024	0.0011	45.91
Nickel	60	-0.0076	0.0092	-0.0046	-0.001	0.0089	882.6
Nickel	62	-0.146	-0.1791	-0.2629	-0.196	0.0602	30.73
Selenium	77	-0.054	-0.0134	-0.0522	-0.0399	0.023	57.63
Selenium	78	0.0016	-0.0628	-0.2121	-0.0911	0.1096	120.4
Selenium	82	-0.1801	-0.1238	0.0453	-0.0862	0.1173	136.1
Silver	107	-0.0002	-0.0008	-0.0022	-0.001	0.0011	101
Silver	109	-0.0026	-0.001	-0.002	-0.0019	0.0008	42.32
Thallium	203	0.0009	0.0009	0.0024	0.0014	0.0008	59.72
Thallium	205	0.0002	0.0004	0.0002	0.0003	0.0001	34.03
Tin	118	0.0038	0.0037	0.0013	0.0029	0.0014	48.2
Tin	120	0.0007	0.003	0.0009	0.0015	0.0013	82.18
Vanadium	51	-0.0226	-0.0144	-0.0181	-0.0184	0.0041	22.25
Zinc	66	-0.0183	-0.0293	-0.0287	-0.0255	0.0062	24.34
Zinc	68	-0.0146	-0.029	-0.0302	-0.0246	0.0087	35.21

Internal Standard Factors:

Lithium	6	0.9	0.949	0.957	0.9 n/a	n/a
Gallium	71	1.016	1.037	0.992	1.016 n/a	n/a
Rhodium	103	0.971	0.989	1.014	0.971 n/a	n/a
Indium	115	0.978	1.016	1.008	0.978 n/a	n/a
Lutetium	175	0.948	0.979	0.983	0.948 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		WATER CRA			Mean	SD	%RSD
TimeStamp		6/7/10 12:21					
Aluminum	27	2.237	2.407	2.229	2.291	0.1008	4.4
Antimony	121	0.0591	0.0611	0.0524	0.0575	0.0045	7.902
Antimony	123	0.0574	0.0572	0.0486	0.0544	0.005	9.27
Arsenic	75	0.5482	0.6015	0.6281	0.5926	0.0406	6.86
Barium	137	0.0498	0.0608	0.05	0.0536	0.0063	11.77
Barium	138	0.0596	0.0593	0.0526	0.0571	0.0039	6.885
Beryllium	9	0.0123	0.023	0.0179	0.0177	0.0053	29.94
Bismuth	209	0.0511	0.0579	0.0467	0.0519	0.0056	10.88
Boron	10	0.5833	0.6158	0.6022	0.6004	0.0163	2.717
Boron	11	0.5628	0.5744	0.6082	0.5818	0.0236	4.059
Cadmium	111	0.0171	0.0192	0.0168	0.0177	0.0013	7.304
Cadmium	114	0.0203	0.02	0.0218	0.0207	0.0009	4.498
Chromium	52	0.1632	0.2301	0.2093	0.2009	0.0343	17.06
Chromium	53	0.1954	0.2055	0.18	0.1936	0.0129	6.651
Cobalt	59	0.0194	0.0224	0.019	0.0203	0.0019	9.296
Copper	63	0.0999	0.1149	0.0965	0.1038	0.0097	9.387
Copper	65	0.1404	0.1268	0.1314	0.1329	0.0069	5.188
Lead	206	0.0225	0.024	0.0181	0.0215	0.0031	14.26
Lead	207	0.0264	0.0283	0.0235	0.0261	0.0024	9.212
Lead	208	0.0245	0.0254	0.0203	0.0234	0.0027	11.66
Manganese	55	0.0544	0.0615	0.0575	0.0578	0.0036	6.193
Molybdenum	95	0.044	0.0555	0.041	0.0468	0.0076	16.34
Molybdenum	97	0.0576	0.0537	0.0502	0.0538	0.0037	6.81
Molybdenum	98	0.0508	0.0573	0.0499	0.0527	0.004	7.657
Nickel	60	0.2458	0.2413	0.2438	0.2436	0.0023	0.9333
Nickel	62	-0.1362	0.0689	-0.0853	-0.0509	0.1068	210
Selenium	77	0.8895	0.9722	1.001	0.9542	0.0578	6.062
Selenium	78	0.9472	1.102	0.936	0.995	0.0926	9.307
Selenium	82	0.9329	1.049	1.21	1.064	0.1393	13.09
Silver	107	0.0156	0.0167	0.017	0.0164	0.0008	4.591
Silver	109	0.016	0.0151	0.0173	0.0161	0.0011	7.068
Thallium	203	0.0205	0.0226	0.0195	0.0209	0.0016	7.516
Thallium	205	0.0225	0.0212	0.0211	0.0216	0.0008	3.595
Tin	118	0.055	0.0617	0.0494	0.0554	0.0062	11.14
Tin	120	0.0593	0.0602	0.051	0.0568	0.005	8.883
Vanadium	51	0.1822	0.2307	0.216	0.2096	0.0249	11.88
Zinc	66	0.5306	0.5828	0.5663	0.5599	0.0267	4.763
Zinc	68	0.5669	0.6191	0.5802	0.5887	0.0271	4.603

Internal Standard Factors:

Lithium	6	0.906	0.969	0.954	0.906	n/a	n/a
Gallium	71	0.985	1.037	1.003	0.985	n/a	n/a
Rhodium	103	0.955	1.02	0.98	0.955	n/a	n/a
Indium	115	0.985	1.028	0.972	0.985	n/a	n/a
Lutetium	175	0.969	1.037	0.977	0.969	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-MB			Mean	SD	%RSD
TimeStamp		6/7/10 12:38					
Aluminum	27	-0.0074	-0.0182	0.009	-0.0055	0.0137	247.8
Antimony	121	-0.0025	-0.0042	-0.0038	-0.0035	0.0009	26.26
Antimony	123	-0.0018	-0.0012	-0.0018	-0.0016	0.0004	23.25
Arsenic	75	-0.0298	0.034	-0.0292	-0.0083	0.0367	439.8
Barium	137	-0.0057	-0.0067	-0.0051	-0.0058	0.0008	14.07
Barium	138	-0.0046	-0.005	-0.0052	-0.0049	0.0003	6.386
Beryllium	9	-0.0065	-0.0035	-0.0015	-0.0038	0.0025	64.45
Bismuth	209	-0.0088	-0.0074	-0.0074	-0.0079	0.0008	10.24
Boron	10	-0.0271	-0.0245	-0.0066	-0.0194	0.0112	57.45
Boron	11	-0.0349	-0.0235	-0.0269	-0.0285	0.0059	20.57
Cadmium	111	-0.0024	-0.003	-0.001	-0.0021	0.001	48.98
Cadmium	114	-0.0025	-0.0033	-0.0029	-0.0029	0.0004	13.21
Chromium	52	-0.0617	-0.0344	-0.0279	-0.0413	0.018	43.43
Chromium	53	-0.0269	-0.0241	-0.0169	-0.0226	0.0051	22.72
Cobalt	59	-0.0016	-0.0013	-0.0012	-0.0014	0.0002	15.96
Copper	63	-0.0172	-0.0345	-0.0277	-0.0265	0.0087	32.88
Copper	65	0.005	-0.0052	-0.006	-0.0021	0.0061	293.9
Lead	206	-0.0047	-0.0026	-0.0027	-0.0033	0.0012	34.73
Lead	207	-0.0004	-0.0003	-0.0018	-0.0009	0.0008	96.1
Lead	208	-0.0033	-0.0026	-0.0037	-0.0032	0.0006	17.07
Manganese	55	-0.0088	-0.0074	-0.0072	-0.0078	0.0009	11.09
Molybdenum	95	-0.004	-0.0041	-0.0056	-0.0046	0.0009	20.04
Molybdenum	97	-0.002	-0.0034	-0.0054	-0.0036	0.0017	47.6
Molybdenum	98	-0.002	-0.0023	-0.0027	-0.0023	0.0003	14.98
Nickel	60	-0.0058	-0.0008	0.0074	0.0003	0.0066	2552
Nickel	62	-0.381	-0.4011	-0.1986	-0.3269	0.1116	34.13
Selenium	77	-0.0464	-0.0424	-0.028	-0.0389	0.0097	24.82
Selenium	78	-0.0112	0.0239	0.1397	0.0508	0.079	155.4
Selenium	82	-0.1232	0.0743	-0.1169	-0.0553	0.1122	203
Silver	107	-0.0104	-0.0114	-0.0102	-0.0107	0.0006	5.897
Silver	109	-0.0108	-0.0104	-0.0109	-0.0107	0.0003	2.573
Thallium	203	-0.003	-0.0032	-0.0026	-0.0029	0.0003	11.1
Thallium	205	-0.0037	-0.0038	-0.0035	-0.0036	0.0002	4.763
Tin	118	-0.0073	-0.0086	-0.0074	-0.0078	0.0007	8.991
Tin	120	-0.008	-0.0107	-0.0104	-0.0097	0.0015	15.06
Vanadium	51	-0.0186	-0.0119	-0.0097	-0.0134	0.0047	34.8
Zinc	66	-0.0085	-0.0183	-0.0107	-0.0125	0.0052	41.44
Zinc	68	-0.0014	-0.0009	0.0026	0.0001	0.0022	1824

Internal Standard Factors:

Lithium	6	0.993	0.962	1.026	0.993 n/a	n/a
Gallium	71	1.022	1.032	1.033	1.022 n/a	n/a
Rhodium	103	0.998	1.032	1.017	0.998 n/a	n/a
Indium	115	1.005	1.025	1.062	1.005 n/a	n/a
Lutetium	175	1	1.056	1.052	1 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-008			Mean	SD	%RSD
TimeStamp		6/7/10 12:42					
Aluminum	27	391.9	396.7	399.2	395.9	3.676	0.9286
Antimony	121	0.0613	0.0602	0.0477	0.0564	0.0076	13.44
Antimony	123	0.062	0.0578	0.0554	0.0584	0.0033	5.735
Arsenic	75	0.464	0.5416	0.6051	0.5369	0.0707	13.16
Barium	137	1.872	1.876	1.845	1.864	0.0171	0.9196
Barium	138	1.878	1.853	1.871	1.867	0.0128	0.6845
Beryllium	9	0.936	0.9763	0.9691	0.9605	0.0215	2.238
Bismuth	209	-0.0064	-0.0069	-0.0068	-0.0067	0.0003	4.043
Boron	10	12.24	12.62	12.48	12.45	0.1918	1.54
Boron	11	12.54	12.58	12.69	12.6	0.073	0.5793
Cadmium	111	1.421	1.424	1.357	1.401	0.0382	2.726
Cadmium	114	1.376	1.397	1.382	1.385	0.0109	0.7897
Chromium	52	0.2579	0.2574	0.291	0.2688	0.0193	7.168
Chromium	53	0.1638	0.1947	0.1758	0.1781	0.0156	8.759
Cobalt	59	25.07	25.78	25.16	25.34	0.3861	1.524
Copper	63	2983	2999	2962	2981	18.33	0.6148
Copper	65	3007	2965	3006	2992	23.88	0.7979
Lead	206	1.574	1.672	1.664	1.637	0.0545	3.328
Lead	207	1.726	1.866	1.864	1.819	0.0804	4.421
Lead	208	1.69	1.808	1.778	1.759	0.0612	3.482
Manganese	55	1492	1537	1522	1517	22.82	1.505
Molybdenum	95	0.0201	0.0191	0.028	0.0224	0.0049	21.68
Molybdenum	97	0.0034	0.0053	0.0033	0.004	0.0011	27.9
Molybdenum	98	0.0117	0.0104	0.0079	0.01	0.0019	19.29
Nickel	60	82.07	84.81	80.34	82.41	2.256	2.737
Nickel	62	81.33	82.77	83.06	82.39	0.9264	1.124
Selenium	77	6.602	6.447	6.348	6.465	0.1279	1.979
Selenium	78	6.882	6.757	6.785	6.808	0.0657	0.9653
Selenium	82	6.386	6.439	6.657	6.494	0.1439	2.215
Silver	107	0.0019	0.0038	0.0037	0.0031	0.001	33.34
Silver	109	0.003	0.0038	-0.0001	0.0022	0.0021	91.39
Thallium	203	0.3657	0.3701	0.3777	0.3712	0.006	1.622
Thallium	205	0.367	0.3663	0.3657	0.3663	0.0006	0.1731
Tin	118	0.0136	0.0129	0.0106	0.0124	0.0016	12.99
Tin	120	0.008	0.0097	0.0104	0.0093	0.0012	13.34
Vanadium	51	0.0304	0.0227	0.0352	0.0294	0.0063	21.55
Zinc	66	186.1	185.3	183	184.8	1.613	0.8729
Zinc	68	192.6	195.3	188.9	192.3	3.218	1.674

Internal Standard Factors:

Lithium	6	1.056	1.12	1.134	1.056	n/a	n/a
Gallium	71	1.146	1.176	1.156	1.146	n/a	n/a
Rhodium	103	1.108	1.162	1.141	1.108	n/a	n/a
Indium	115	1.081	1.136	1.113	1.081	n/a	n/a
Lutetium	175	1.044	1.093	1.09	1.044	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-008S			Mean	SD	%RSD
TimeStamp		6/7/10 12:47					
Aluminum	27	435.1	431.1	435.5	433.9	2.441	0.5627
Antimony	121	21.25	20.91	20.26	20.81	0.5012	2.409
Antimony	123	20.56	20.97	21.06	20.86	0.2686	1.287
Arsenic	75	21.88	20.94	21.24	21.36	0.481	2.252
Barium	137	23.23	22.68	22.17	22.7	0.5293	2.332
Barium	138	22.56	22.81	22.31	22.56	0.2518	1.116
Beryllium	9	21.07	22.2	21.42	21.56	0.5762	2.672
Bismuth	209	19.67	19.61	19.25	19.51	0.23	1.179
Boron	10	32.19	33.17	31.69	32.35	0.7532	2.328
Boron	11	32.71	33.29	32.22	32.74	0.5335	1.629
Cadmium	111	22.06	21.97	21.58	21.87	0.2573	1.176
Cadmium	114	21.77	22.16	21.68	21.87	0.2536	1.159
Chromium	52	20.72	21.13	20.62	20.82	0.2712	1.302
Chromium	53	19.97	20.88	20.95	20.6	0.5477	2.659
Cobalt	59	45.95	45.91	45.74	45.87	0.1105	0.2409
Copper	63	2971	3080	2994	3015	57.55	1.909
Copper	65	2934	3034	3025	2998	55.17	1.84
Lead	206	21.63	21.39	21.05	21.36	0.2903	1.359
Lead	207	21.01	21.24	21.62	21.29	0.3116	1.464
Lead	208	21.37	21.37	21.2	21.31	0.098	0.46
Manganese	55	1510	1608	1586	1568	51.28	3.27
Molybdenum	95	20.96	21.16	20.74	20.95	0.2058	0.982
Molybdenum	97	20.84	20.76	20.75	20.78	0.0506	0.2434
Molybdenum	98	21.12	21.69	21.52	21.44	0.2957	1.379
Nickel	60	103.5	102	102.8	102.8	0.7672	0.7464
Nickel	62	100	103.7	103	102.3	1.967	1.923
Selenium	77	26.61	27.6	27.64	27.29	0.584	2.14
Selenium	78	27.31	27.5	26.89	27.24	0.3091	1.135
Selenium	82	27.96	26.26	27.39	27.2	0.8633	3.174
Silver	107	20.37	20.2	19.79	20.12	0.2949	1.466
Silver	109	19.95	20.42	20.45	20.27	0.2794	1.378
Thallium	203	20.44	20.42	20.37	20.41	0.0371	0.1816
Thallium	205	20.77	20.13	20.88	20.59	0.402	1.952
Tin	118	21.07	20.21	21.01	20.76	0.4804	2.314
Tin	120	21.7	20.77	21.07	21.18	0.478	2.257
Vanadium	51	20.03	20.54	20.06	20.21	0.2844	1.407
Zinc	66	210.4	201.3	199.6	203.8	5.772	2.832
Zinc	68	206.7	207.8	210.9	208.4	2.152	1.032

Internal Standard Factors:

Lithium	6	1.077	1.163	1.116	1.077	n/a	n/a
Gallium	71	1.161	1.179	1.172	1.161	n/a	n/a
Rhodium	103	1.107	1.165	1.14	1.107	n/a	n/a
Indium	115	1.118	1.14	1.132	1.118	n/a	n/a
Lutetium	175	1.055	1.085	1.092	1.055	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-008SD			Mean	SD	%RSD
TimeStamp		6/7/10 12:51					
Aluminum	27	417.8	431.4	406.5	418.5	12.45	2.975
Antimony	121	20.65	20.1	20.12	20.29	0.3153	1.554
Antimony	123	20.38	20.1	20.26	20.24	0.1404	0.6937
Arsenic	75	21.4	21.38	20.9	21.22	0.2826	1.331
Barium	137	22.77	22.54	21.84	22.38	0.4797	2.143
Barium	138	22.21	22.08	22.04	22.11	0.0885	0.4004
Beryllium	9	21.39	21.72	20.77	21.29	0.4775	2.243
Bismuth	209	19.03	19.05	19.1	19.06	0.0365	0.1912
Boron	10	31.24	33.12	32.77	32.37	0.9968	3.079
Boron	11	32.27	33.61	32.74	32.87	0.6804	2.07
Cadmium	111	20.45	21.29	21.09	20.94	0.438	2.091
Cadmium	114	21.61	20.99	20.86	21.15	0.4013	1.897
Chromium	52	20.39	20.53	20.05	20.32	0.2499	1.229
Chromium	53	19.78	19.76	20.1	19.88	0.1911	0.9612
Cobalt	59	44.92	44.41	44.75	44.69	0.2569	0.5747
Copper	63	2997	2964	2971	2977	17.52	0.5884
Copper	65	3012	2984	2921	2972	46.66	1.57
Lead	206	20.96	21.16	21.04	21.05	0.0982	0.4663
Lead	207	21.02	20.98	20.7	20.9	0.1773	0.8484
Lead	208	21.06	21.34	21.06	21.16	0.1596	0.7544
Manganese	55	1476	1554	1488	1506	41.62	2.763
Molybdenum	95	20.91	20.64	20.6	20.72	0.1718	0.8292
Molybdenum	97	20.72	20.56	20.07	20.45	0.3374	1.65
Molybdenum	98	20.7	21.09	20.54	20.78	0.2855	1.374
Nickel	60	99.16	101	98.85	99.67	1.168	1.172
Nickel	62	99.89	101.5	99.71	100.4	0.965	0.9616
Selenium	77	26.65	25.99	26.38	26.34	0.3322	1.261
Selenium	78	26.96	26.92	26.72	26.87	0.1289	0.4798
Selenium	82	26.95	25.86	26.5	26.43	0.5485	2.075
Silver	107	20.45	20.42	20.21	20.36	0.1318	0.6476
Silver	109	20.16	19.93	20.02	20.04	0.1174	0.586
Thallium	203	19.9	19.94	20.25	20.03	0.1913	0.9551
Thallium	205	20.23	19.64	20.35	20.07	0.3777	1.881
Tin	118	20.48	20.12	20.43	20.34	0.1938	0.9526
Tin	120	20.74	20.25	20.17	20.39	0.3069	1.505
Vanadium	51	19.44	20.32	19.26	19.67	0.57	2.897
Zinc	66	202.8	195.9	200.9	199.9	3.553	1.778
Zinc	68	206.2	203.4	206.1	205.2	1.57	0.7652

Internal Standard Factors:

Lithium	6	1.086	1.119	1.114	1.086	n/a	n/a
Gallium	71	1.128	1.145	1.131	1.128	n/a	n/a
Rhodium	103	1.106	1.128	1.115	1.106	n/a	n/a
Indium	115	1.077	1.085	1.099	1.077	n/a	n/a
Lutetium	175	1.025	1.028	1.075	1.025	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		LCSW K1005055			Mean	SD	%RSD
TimeStamp		6/7/10 12:56					
Aluminum	27	20.01	20.65	20.48	20.38	0.3328	1.633
Antimony	121	20.19	20.25	20.18	20.21	0.0418	0.2067
Antimony	123	20.29	20.36	20.81	20.48	0.2851	1.392
Arsenic	75	19.7	20.12	19.29	19.7	0.4128	2.095
Barium	137	20.61	20.87	20.74	20.74	0.1306	0.6297
Barium	138	20.3	20.67	20.63	20.53	0.2038	0.9928
Beryllium	9	19.88	21.15	20.86	20.63	0.6666	3.231
Bismuth	209	20.82	20.83	21.63	21.09	0.4644	2.202
Boron	10	19.46	20.65	20.95	20.35	0.7894	3.878
Boron	11	20.12	20.1	19.99	20.07	0.0697	0.3471
Cadmium	111	19.95	20.27	20.59	20.27	0.3215	1.586
Cadmium	114	20.22	20.52	20.8	20.51	0.2919	1.423
Chromium	52	20.31	21.33	20.56	20.73	0.531	2.561
Chromium	53	20.04	20.32	19.48	19.95	0.4291	2.151
Cobalt	59	19.91	19.97	19.83	19.9	0.0675	0.3389
Copper	63	20.41	20.87	20.1	20.46	0.3852	1.882
Copper	65	20.86	20.23	19.76	20.29	0.5498	2.71
Lead	206	20.46	20.54	21.05	20.68	0.3193	1.544
Lead	207	20.31	21.31	21.03	20.88	0.5185	2.483
Lead	208	20.61	20.8	21.38	20.93	0.3999	1.911
Manganese	55	19.76	20.68	19.95	20.13	0.4866	2.417
Molybdenum	95	20.3	19.82	19.98	20.03	0.2427	1.211
Molybdenum	97	20.29	20.16	19.62	20.02	0.3555	1.776
Molybdenum	98	20.29	20.46	20.12	20.29	0.1692	0.8338
Nickel	60	20.37	20.23	20	20.2	0.1876	0.9283
Nickel	62	19.76	19.92	19.66	19.78	0.1287	0.6504
Selenium	77	20.34	21.13	20.14	20.54	0.5228	2.546
Selenium	78	20.39	20.75	20	20.38	0.3752	1.841
Selenium	82	20.26	20.96	20.01	20.41	0.4929	2.415
Silver	107	20.63	20.66	20.64	20.64	0.0166	0.0802
Silver	109	20.6	20.77	20.58	20.65	0.1053	0.5099
Thallium	203	20.69	21.42	21.22	21.11	0.3793	1.796
Thallium	205	21.15	21.18	21.45	21.26	0.1645	0.7739
Tin	118	20.48	20.61	21.1	20.73	0.3277	1.581
Tin	120	20.52	20.59	21.05	20.72	0.292	1.409
Vanadium	51	20.01	20.64	20.02	20.22	0.3638	1.799
Zinc	66	20.57	20.37	19.69	20.21	0.4635	2.294
Zinc	68	20.85	20.68	19.87	20.47	0.5211	2.546

Internal Standard Factors:

Lithium	6	0.951	1.023	1.026	0.951	n/a	n/a
Gallium	71	0.991	1.019	0.986	0.991	n/a	n/a
Rhodium	103	0.969	1.001	0.989	0.969	n/a	n/a
Indium	115	0.947	0.993	1.003	0.947	n/a	n/a
Lutetium	175	0.961	1.002	1.014	0.961	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		LCSW K1005055D			Mean	SD	%RSD
TimeStamp		6/7/10 13:01					
Aluminum	27	20.29	20.71	19.7	20.24	0.5064	2.503
Antimony	121	20.31	20.21	21.06	20.53	0.4607	2.244
Antimony	123	20.66	19.99	21.44	20.69	0.7265	3.511
Arsenic	75	19.91	19.67	20.26	19.95	0.3	1.504
Barium	137	20.35	20.9	21.09	20.78	0.385	1.852
Barium	138	20.53	20.76	20.58	20.63	0.121	0.5868
Beryllium	9	21.33	21.69	20.46	21.16	0.63	2.977
Bismuth	209	21.02	21.79	20.96	21.26	0.4613	2.17
Boron	10	21.18	21.2	20.67	21.02	0.3036	1.444
Boron	11	20.83	20.68	20.63	20.71	0.101	0.4876
Cadmium	111	20.02	19.77	20.92	20.24	0.6073	3.001
Cadmium	114	20.42	20.22	20.98	20.54	0.3965	1.93
Chromium	52	21.03	20.73	20.91	20.89	0.1538	0.7363
Chromium	53	19.68	20.07	20.06	19.94	0.2201	1.104
Cobalt	59	20.24	20.04	19.73	20	0.261	1.305
Copper	63	20.27	20.33	20.08	20.23	0.135	0.6676
Copper	65	20.41	20.31	19.72	20.15	0.372	1.847
Lead	206	20.83	21.4	20.7	20.97	0.3701	1.764
Lead	207	20.28	20.91	20.31	20.5	0.353	1.722
Lead	208	20.78	21.27	20.71	20.92	0.3044	1.455
Manganese	55	19.91	20.18	19.71	19.93	0.2352	1.18
Molybdenum	95	20.31	19.52	20.48	20.1	0.5159	2.566
Molybdenum	97	20.52	19.61	19.82	19.98	0.4785	2.395
Molybdenum	98	20.09	20.12	20.34	20.18	0.1356	0.6721
Nickel	60	20.42	20.49	20.56	20.49	0.0693	0.338
Nickel	62	20.06	19.6	20.12	19.93	0.283	1.42
Selenium	77	19.97	20.5	19.61	20.03	0.4498	2.246
Selenium	78	20.57	20.31	20.55	20.48	0.1437	0.7017
Selenium	82	19.81	20.2	20.37	20.13	0.2892	1.437
Silver	107	20.64	20.32	21.32	20.76	0.5116	2.465
Silver	109	20.56	20.57	20.78	20.64	0.1223	0.5925
Thallium	203	20.64	20.91	20.2	20.58	0.3586	1.742
Thallium	205	21.04	21.33	20.88	21.08	0.2258	1.071
Tin	118	20.59	20.67	21.29	20.85	0.3844	1.843
Tin	120	20.72	20.71	21.77	21.07	0.6074	2.883
Vanadium	51	20.38	20.43	20.38	20.4	0.0285	0.1397
Zinc	66	20.04	20.17	20.05	20.09	0.0743	0.3699
Zinc	68	20.79	20.04	20.55	20.46	0.3821	1.868

Internal Standard Factors:

Lithium	6	1.019	1.038	1.005	1.019	n/a	n/a
Gallium	71	0.983	1.005	0.998	0.983	n/a	n/a
Rhodium	103	0.987	0.982	1.007	0.987	n/a	n/a
Indium	115	0.965	0.987	1.025	0.965	n/a	n/a
Lutetium	175	0.971	1.007	0.998	0.971	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-001			Mean	SD	%RSD
TimeStamp		6/7/10 13:10					
Aluminum	27	24.49	24.54	24.36	24.46	0.0926	0.3787
Antimony	121	0.1155	0.1101	0.1209	0.1155	0.0054	4.659
Antimony	123	0.124	0.1302	0.1169	0.1237	0.0066	5.36
Arsenic	75	0.5511	0.436	0.5152	0.5008	0.0589	11.76
Barium	137	6.48	6.408	6.485	6.457	0.0432	0.6687
Barium	138	6.488	6.328	6.434	6.417	0.0814	1.268
Beryllium	9	-0.0005	0.0033	-0.0014	0.0005	0.0025	529.6
Bismuth	209	0.0031	0.002	0.0016	0.0022	0.0008	37.11
Boron	10	30.27	31.47	32.86	31.54	1.297	4.113
Boron	11	30.31	31.37	33.49	31.72	1.62	5.108
Cadmium	111	0.0117	0.0117	0.0123	0.0119	0.0004	2.977
Cadmium	114	0.0087	0.0074	0.0087	0.0083	0.0008	9.179
Chromium	52	0.3493	0.376	0.4172	0.3808	0.0342	8.989
Chromium	53	0.229	0.2428	0.2494	0.2404	0.0104	4.341
Cobalt	59	0.0725	0.0731	0.0778	0.0745	0.0029	3.961
Copper	63	1.84	1.939	1.951	1.91	0.0609	3.188
Copper	65	0.7041	0.7011	0.7093	0.7048	0.0042	0.5939
Lead	206	0.0138	0.0166	0.0165	0.0156	0.0016	9.955
Lead	207	0.0194	0.0233	0.0171	0.0199	0.0031	15.77
Lead	208	0.0169	0.018	0.017	0.0173	0.0006	3.621
Manganese	55	6.102	6.029	6.212	6.114	0.092	1.505
Molybdenum	95	3.476	3.529	3.549	3.518	0.038	1.079
Molybdenum	97	3.508	3.558	3.604	3.557	0.0479	1.346
Molybdenum	98	3.511	3.666	3.546	3.575	0.0814	2.277
Nickel	60	0.1789	0.1847	0.188	0.1839	0.0046	2.528
Nickel	62	1.023	1.164	1.22	1.136	0.1016	8.948
Selenium	77	0.2335	0.356	0.4097	0.3331	0.0903	27.12
Selenium	78	0.6052	0.6493	0.6771	0.6439	0.0362	5.625
Selenium	82	0.3385	0.127	0.4357	0.3004	0.1579	52.55
Silver	107	-0.0012	-0.0014	-0.0025	-0.0017	0.0007	41.7
Silver	109	-0.0003	-0.0013	-0.0044	-0.002	0.0021	106.9
Thallium	203	0.0018	0.0027	0.0032	0.0026	0.0008	29.14
Thallium	205	0.0017	0.0018	0.0005	0.0013	0.0007	54.69
Tin	118	0.0273	0.0242	0.027	0.0262	0.0017	6.508
Tin	120	0.0199	0.0227	0.022	0.0215	0.0014	6.657
Vanadium	51	0.1003	0.1028	0.1155	0.1062	0.0082	7.698
Zinc	66	3.574	3.616	3.599	3.597	0.0212	0.5896
Zinc	68	3.709	3.769	3.742	3.74	0.0302	0.8064

Internal Standard Factors:

Lithium	6	1.015	1.024	1.052	1.015	n/a	n/a
Gallium	71	1.101	1.095	1.083	1.101	n/a	n/a
Rhodium	103	1.042	1.067	1.043	1.042	n/a	n/a
Indium	115	1.02	1.035	1.044	1.02	n/a	n/a
Lutetium	175	0.991	1.022	1.045	0.991	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-002			Mean	SD	%RSD
TimeStamp		6/7/10 13:19					
Aluminum	27	56.64	60.07	58.5	58.4	1.718	2.941
Antimony	121	0.1387	0.1368	0.1303	0.1353	0.0044	3.27
Antimony	123	0.1435	0.1407	0.1508	0.145	0.0052	3.614
Arsenic	75	0.6355	0.5565	0.6111	0.601	0.0405	6.735
Barium	137	7.706	7.518	7.418	7.547	0.1464	1.94
Barium	138	7.555	7.475	7.32	7.45	0.1195	1.604
Beryllium	9	0.0012	0.0002	-0.0012	0.0001	0.0012	2286
Bismuth	209	-0.0022	-0.0022	-0.0029	-0.0025	0.0004	16.95
Boron	10	35.89	39.39	38.53	37.94	1.825	4.81
Boron	11	37.34	38.15	38.98	38.16	0.8215	2.153
Cadmium	111	0.0106	0.0051	0.0105	0.0088	0.0031	35.82
Cadmium	114	0.0066	0.0064	0.0081	0.007	0.0009	12.89
Chromium	52	0.2995	0.3645	0.3017	0.3219	0.0369	11.46
Chromium	53	0.1711	0.1854	0.1767	0.1777	0.0072	4.041
Cobalt	59	0.0881	0.0864	0.0904	0.0883	0.002	2.264
Copper	63	2.067	2.12	2.132	2.106	0.0347	1.648
Copper	65	0.6942	0.7271	0.7122	0.7112	0.0165	2.32
Lead	206	0.0175	0.0226	0.0179	0.0193	0.0028	14.65
Lead	207	0.0234	0.0232	0.0232	0.0233	0.0001	0.4894
Lead	208	0.022	0.0222	0.0228	0.0224	0.0004	1.908
Manganese	55	7.646	7.842	7.487	7.659	0.1781	2.326
Molybdenum	95	4.177	4.12	4.191	4.162	0.0377	0.9066
Molybdenum	97	4.146	4.074	4.072	4.097	0.0421	1.027
Molybdenum	98	4.21	4.255	4.126	4.197	0.0659	1.571
Nickel	60	0.181	0.2136	0.1949	0.1965	0.0164	8.337
Nickel	62	1.899	1.957	1.846	1.901	0.0557	2.93
Selenium	77	0.3908	0.5187	0.3264	0.412	0.0979	23.75
Selenium	78	0.7041	0.877	0.688	0.7564	0.1048	13.85
Selenium	82	0.4304	0.3174	0.2891	0.3457	0.0747	21.63
Silver	107	-0.0061	-0.0066	-0.0058	-0.0062	0.0004	6.283
Silver	109	-0.0061	-0.0064	-0.0069	-0.0065	0.0004	6.506
Thallium	203	0.0071	0.0044	0.0055	0.0057	0.0013	23.52
Thallium	205	0.0053	0.0042	0.005	0.0048	0.0006	11.66
Tin	118	0.018	0.0172	0.0155	0.0169	0.0013	7.528
Tin	120	0.0198	0.0146	0.0175	0.0173	0.0026	15.21
Vanadium	51	0.1097	0.1255	0.1116	0.1156	0.0086	7.466
Zinc	66	4.151	4.424	4.19	4.255	0.1476	3.468
Zinc	68	4.355	4.401	4.435	4.397	0.0404	0.9183

Internal Standard Factors:

Lithium	6	1.03	1.108	1.068	1.03	n/a	n/a
Gallium	71	1.076	1.101	1.08	1.076	n/a	n/a
Rhodium	103	1.047	1.065	1.061	1.047	n/a	n/a
Indium	115	1.041	1.057	1.056	1.041	n/a	n/a
Lutetium	175	0.984	1.019	1.05	0.984	n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 06-07-10B

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #203621

Sample Name:		K1005055-003			Mean	SD	%RSD
TimeStamp		6/7/10 13:25					
Aluminum	27	5.11	5.275	5.199	5.195	0.0823	1.585
Antimony	121	0.2885	0.2837	0.2734	0.2819	0.0077	2.747
Antimony	123	0.2887	0.2783	0.2936	0.2869	0.0078	2.728
Arsenic	75	0.4312	0.4388	0.4576	0.4425	0.0136	3.069
Barium	137	22.94	22.17	22.82	22.64	0.4163	1.838
Barium	138	22.66	22.69	22.56	22.64	0.0648	0.286
Beryllium	9	-0.003	-0.0002	0.0009	-0.0008	0.002	263
Bismuth	209	-0.0053	-0.0073	-0.0055	-0.006	0.0011	17.98
Boron	10	60.87	65.7	66.44	64.33	3.025	4.702
Boron	11	62.22	66.06	66.13	64.81	2.237	3.452
Cadmium	111	0.0125	0.0133	0.0174	0.0144	0.0027	18.53
Cadmium	114	0.0103	0.0107	0.0121	0.011	0.001	8.885
Chromium	52	0.3266	0.3779	0.4062	0.3703	0.0404	10.9
Chromium	53	0.1795	0.1633	0.1818	0.1749	0.0101	5.766
Cobalt	59	0.1946	0.1893	0.19	0.1913	0.0029	1.508
Copper	63	4.009	4.135	4.144	4.096	0.0756	1.845
Copper	65	1.143	1.106	1.139	1.129	0.0204	1.811
Lead	206	0.0125	0.0151	0.0114	0.013	0.0019	14.66
Lead	207	0.0225	0.0223	0.0207	0.0218	0.001	4.567
Lead	208	0.0162	0.0153	0.0171	0.0162	0.0009	5.775
Manganese	55	23.79	23.49	24.14	23.8	0.3252	1.366
Molybdenum	95	5.993	5.829	5.956	5.926	0.0858	1.448
Molybdenum	97	5.898	5.978	5.818	5.898	0.0804	1.363
Molybdenum	98	6.027	6.082	5.871	5.993	0.1093	1.823
Nickel	60	0.3302	0.3425	0.3253	0.3326	0.0088	2.659
Nickel	62	2.62	3.256	3.173	3.017	0.3459	11.47
Selenium	77	2.287	2.052	2.118	2.152	0.1214	5.641
Selenium	78	2.702	2.611	2.423	2.579	0.1423	5.52
Selenium	82	2.111	2.023	2.046	2.06	0.0454	2.202
Silver	107	-0.0089	-0.0097	-0.0081	-0.0089	0.0008	8.572
Silver	109	-0.0082	-0.0086	-0.0085	-0.0084	0.0002	2.711
Thallium	203	0.0216	0.017	0.0149	0.0179	0.0034	19.03
Thallium	205	0.0176	0.0165	0.0165	0.0169	0.0006	3.844
Tin	118	0.0131	0.0097	0.0073	0.0101	0.0029	28.74
Tin	120	0.0058	0.0045	0.0062	0.0055	0.0009	15.95
Vanadium	51	0.0908	0.1168	0.1209	0.1095	0.0163	14.91
Zinc	66	5.678	5.578	5.549	5.601	0.0679	1.213
Zinc	68	6.07	5.977	6.158	6.068	0.0908	1.497

**Internal Standard
Factors:**

Lithium	6	1.056	1.123	1.122	1.056	n/a	n/a
Gallium	71	1.17	1.157	1.159	1.17	n/a	n/a
Rhodium	103	1.152	1.157	1.131	1.152	n/a	n/a
Indium	115	1.112	1.117	1.119	1.112	n/a	n/a
Lutetium	175	1.086	1.09	1.11	1.086	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-004			Mean	SD	%RSD
TimeStamp		6/7/10 13:31					
Aluminum	27	42.09	40.82	41.78	41.56	0.6632	1.596
Antimony	121	1.132	1.127	1.111	1.123	0.0111	0.9876
Antimony	123	1.112	1.111	1.128	1.117	0.0092	0.8252
Arsenic	75	1.28	1.249	1.115	1.215	0.0876	7.208
Barium	137	9.819	9.832	9.752	9.801	0.043	0.4384
Barium	138	9.856	9.809	9.795	9.82	0.0323	0.3294
Beryllium	9	0.0032	-0.0013	0.0046	0.0022	0.0031	141.1
Bismuth	209	-0.0063	-0.0066	-0.0068	-0.0066	0.0003	3.894
Boron	10	39.83	40.94	38.98	39.92	0.984	2.465
Boron	11	40.19	40.97	40.64	40.6	0.3939	0.9702
Cadmium	111	0.0354	0.0308	0.0303	0.0322	0.0028	8.651
Cadmium	114	0.031	0.029	0.0269	0.029	0.0021	7.183
Chromium	52	0.4431	0.4305	0.4298	0.4345	0.0075	1.723
Chromium	53	0.1917	0.2366	0.2161	0.2148	0.0225	10.46
Cobalt	59	0.1023	0.1084	0.1008	0.1038	0.004	3.865
Copper	63	1.62	1.622	1.641	1.628	0.0118	0.7253
Copper	65	0.511	0.498	0.5046	0.5045	0.0065	1.292
Lead	206	0.042	0.0428	0.0415	0.0421	0.0007	1.562
Lead	207	0.0482	0.045	0.0449	0.0461	0.0019	4.045
Lead	208	0.0448	0.0458	0.0438	0.0448	0.001	2.234
Manganese	55	2.855	2.87	2.801	2.842	0.0365	1.283
Molybdenum	95	29.41	28.35	29.43	29.06	0.6167	2.122
Molybdenum	97	28.94	29.24	29.01	29.07	0.1564	0.538
Molybdenum	98	29.64	29.38	29.14	29.39	0.2473	0.8414
Nickel	60	0.4156	0.3961	0.3703	0.394	0.0227	5.77
Nickel	62	2.194	2.532	2.506	2.411	0.1882	7.808
Selenium	77	3.423	3.221	3.726	3.457	0.2541	7.35
Selenium	78	3.893	3.557	3.757	3.736	0.1694	4.534
Selenium	82	3.584	3.281	3.299	3.388	0.17	5.019
Silver	107	-0.0098	-0.0084	-0.0085	-0.0089	0.0008	8.908
Silver	109	-0.0103	-0.0099	-0.0102	-0.0101	0.0002	2.293
Thallium	203	0.0187	0.0189	0.0158	0.0178	0.0017	9.736
Thallium	205	0.0142	0.0158	0.0156	0.0152	0.0008	5.496
Tin	118	0.0053	0.0076	0.0057	0.0062	0.0012	19.79
Tin	120	0.0023	0.0032	-0.0006	0.0016	0.0019	120.3
Vanadium	51	0.2168	0.2064	0.2002	0.2078	0.0084	4.027
Zinc	66	2.323	2.333	2.361	2.339	0.0196	0.8399
Zinc	68	2.431	2.46	2.342	2.411	0.0616	2.556

Internal Standard Factors:

Lithium	6	1.016	1.066	1.048	1.016	n/a	n/a
Gallium	71	1.023	1.029	1.028	1.023	n/a	n/a
Rhodium	103	0.991	0.999	0.996	0.991	n/a	n/a
Indium	115	0.988	1.006	1.026	0.988	n/a	n/a
Lutetium	175	0.985	1.014	1.019	0.985	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCV2	Mean	SD	%RSD			
TimeStamp	6/7/10 13:38						
Aluminum	27	25.9	26.07	27.82	26.6	1.067	4.01
Antimony	121	24.52	24.97	24.27	24.58	0.3546	1.443
Antimony	123	25.21	24.96	24.4	24.86	0.4117	1.656
Arsenic	75	24.59	25.07	25.49	25.05	0.4491	1.793
Barium	137	25.69	25.58	25.37	25.55	0.1591	0.6227
Barium	138	25.75	25.19	24.74	25.23	0.5014	1.988
Beryllium	9	25.68	26.52	26.21	26.14	0.4276	1.636
Bismuth	209	24.84	25.49	25.39	25.24	0.35	1.387
Boron	10	24.86	26.44	26.67	25.99	0.9857	3.792
Boron	11	24.59	26.64	26.97	26.07	1.289	4.943
Cadmium	111	23.98	25.08	24.44	24.5	0.5535	2.259
Cadmium	114	24.81	24.97	24.47	24.75	0.2582	1.043
Chromium	52	26.4	26	27.24	26.55	0.6344	2.389
Chromium	53	26.66	26.47	26.05	26.39	0.3117	1.181
Cobalt	59	26.07	25.9	26.41	26.13	0.2606	0.9976
Copper	63	25.92	25.65	26.05	25.87	0.2058	0.7955
Copper	65	26.11	25.53	25.7	25.78	0.2943	1.142
Lead	206	25.4	24.94	25.02	25.12	0.2475	0.9851
Lead	207	24.76	24.05	25.43	24.75	0.6917	2.795
Lead	208	25.46	24.61	24.95	25	0.4304	1.721
Manganese	55	25.82	25.49	25.84	25.71	0.1981	0.7704
Molybdenum	95	25.11	25.3	25.57	25.33	0.2297	0.9069
Molybdenum	97	24.65	25.04	25.17	24.95	0.2742	1.099
Molybdenum	98	24.88	25.16	25.23	25.09	0.189	0.7534
Nickel	60	26.17	25.42	26.34	25.98	0.4889	1.882
Nickel	62	26.38	25.75	26.64	26.25	0.4599	1.752
Selenium	77	24.67	25.71	25.67	25.35	0.5916	2.334
Selenium	78	25.55	24.93	26.12	25.54	0.595	2.33
Selenium	82	24	24.99	25.41	24.8	0.7244	2.921
Silver	107	24.55	25.68	24.92	25.05	0.5753	2.297
Silver	109	25.5	25.54	25.01	25.35	0.2991	1.18
Thallium	203	25.33	25.33	24.95	25.2	0.2168	0.8602
Thallium	205	25.18	25.35	25.59	25.37	0.204	0.8039
Tin	118	24.24	25.25	24.43	24.64	0.5381	2.184
Tin	120	25.22	24.79	24.37	24.79	0.4213	1.7
Vanadium	51	25.93	25.54	26.82	26.1	0.657	2.518
Zinc	66	24.77	25	25.28	25.02	0.2592	1.036
Zinc	68	25.43	25.01	25.18	25.21	0.2129	0.8444

Internal Standard Factors:

Lithium	6	0.934	0.999	1.008	0.934	n/a	n/a
Gallium	71	0.905	0.929	0.954	0.905	n/a	n/a
Rhodium	103	0.882	0.944	0.953	0.882	n/a	n/a
Indium	115	0.887	0.933	0.923	0.887	n/a	n/a
Lutetium	175	0.947	0.978	0.996	0.947	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		CCB2			Mean	SD	%RSD
TimeStamp		6/7/10 13:46					
Aluminum	27	-0.0138	-0.0063	0.0004	-0.0066	0.0071	108.4
Antimony	121	0.0027	0.0005	-0.0006	0.0009	0.0017	189.8
Antimony	123	0.0055	0.0021	-0.0009	0.0022	0.0032	141.5
Arsenic	75	-0.0257	-0.0268	-0.0244	-0.0257	0.0012	4.696
Barium	137	0.0007	0.0025	0.0012	0.0015	0.0009	63.48
Barium	138	0.0025	0.003	0.0008	0.0021	0.0011	53.73
Beryllium	9	-0.0024	0.0065	0.002	0.002	0.0044	219.3
Bismuth	209	0.0047	0.0031	0.0031	0.0036	0.0009	25.05
Boron	10	0.0912	0.113	0.0939	0.0994	0.0119	11.98
Boron	11	0.136	0.1109	0.1041	0.117	0.0168	14.36
Cadmium	111	0.0015	0.0023	-0.001	0.0009	0.0017	178.5
Cadmium	114	0.0011	0.0011	-0.0015	0.0002	0.0015	663.1
Chromium	52	0.0408	0.058	0.0539	0.0509	0.0089	17.58
Chromium	53	0.0076	0.0147	-0.0108	0.0038	0.0132	344.6
Cobalt	59	0.0031	-0.0028	-0.0006	-0.0001	0.003	3000
Copper	63	0.0468	0.0441	0.0267	0.0392	0.0109	27.92
Copper	65	0.0275	0.0327	0.0216	0.0273	0.0056	20.39
Lead	206	0.0011	-0.0008	0.0021	0.0008	0.0014	179.2
Lead	207	0.0013	0.0033	0.0007	0.0018	0.0013	75.79
Lead	208	0.0002	0.001	0.0071	0.0028	0.0037	134.5
Manganese	55	0.0102	0.0095	0.0091	0.0096	0.0006	5.718
Molybdenum	95	0.0066	0.0049	0.0058	0.0058	0.0009	14.98
Molybdenum	97	0.0123	0.0064	0.0055	0.0081	0.0037	45.97
Molybdenum	98	0.0081	0.0061	0.0075	0.0072	0.001	14.08
Nickel	60	-0.0053	0.0073	0.0033	0.0018	0.0064	361.7
Nickel	62	0.0951	0.0527	0.0963	0.0814	0.0249	30.57
Selenium	77	0.0204	-0.0107	-0.0132	-0.0012	0.0187	1597
Selenium	78	0.1791	0.1407	0.1215	0.1471	0.0293	19.91
Selenium	82	-0.0645	-0.1092	-0.1018	-0.0918	0.024	26.11
Silver	107	0.0045	0.0028	0.0014	0.0029	0.0016	54.46
Silver	109	0.0039	0.0018	-0.0013	0.0014	0.0026	178.9
Thallium	203	0.0042	0.0039	0.0047	0.0043	0.0004	10.1
Thallium	205	0.0026	0.0035	0.0018	0.0026	0.0009	32.67
Tin	118	0.0163	0.0129	0.0104	0.0132	0.003	22.69
Tin	120	0.0102	0.0095	0.0094	0.0097	0.0004	4.542
Vanadium	51	0.0145	0.0163	0.0251	0.0186	0.0056	30.3
Zinc	66	-0.0175	-0.007	-0.014	-0.0128	0.0053	41.64
Zinc	68	-0.0021	-0.0076	-0.0161	-0.0086	0.007	81.88

Internal Standard Factors:

Lithium	6	0.906	0.96	0.966	0.906 n/a	n/a
Gallium	71	0.922	0.931	0.924	0.922 n/a	n/a
Rhodium	103	0.891	0.93	0.918	0.891 n/a	n/a
Indium	115	0.91	0.925	0.941	0.91 n/a	n/a
Lutetium	175	0.957	0.967	0.999	0.957 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005117-001			Mean	SD	%RSD
TimeStamp		6/7/10 13:51					
Aluminum	27	298.5	298	312.5	303	8.256	2.725
Antimony	121	0.3887	0.3794	0.3789	0.3823	0.0055	1.439
Antimony	123	0.3771	0.3718	0.3835	0.3774	0.0059	1.555
Arsenic	75	3.841	3.769	3.918	3.843	0.0746	1.941
Barium	137	25.45	25.38	25.53	25.45	0.0785	0.3084
Barium	138	24.94	24.8	24.57	24.77	0.1875	0.7572
Beryllium	9	0.009	0.0075	0.0087	0.0084	0.0008	9.084
Bismuth	209	0.0002	0.0017	0.0027	0.0015	0.0012	80.36
Boron	10	21.21	21.99	22.8	22	0.7942	3.611
Boron	11	21.59	22.94	24.22	22.92	1.319	5.754
Cadmium	111	0.1421	0.1477	0.1433	0.1444	0.003	2.051
Cadmium	114	0.1368	0.1372	0.1436	0.1392	0.0038	2.731
Chromium	52	0.6725	0.7017	0.7143	0.6961	0.0215	3.082
Chromium	53	0.8605	0.837	0.8687	0.8554	0.0164	1.922
Cobalt	59	1.481	1.448	1.494	1.474	0.0237	1.61
Copper	63	6.148	6.205	6.186	6.18	0.029	0.4687
Copper	65	6.081	5.997	6.157	6.078	0.0802	1.319
Lead	206	2.33	2.369	2.303	2.334	0.0328	1.405
Lead	207	2.643	2.667	2.557	2.622	0.0577	2.2
Lead	208	2.552	2.542	2.5	2.531	0.0278	1.1
Manganese	55	412.9	402.5	421.8	412.4	9.66	2.342
Molybdenum	95	3.118	3.064	3.048	3.077	0.037	1.203
Molybdenum	97	3.048	3.075	3.05	3.058	0.0152	0.4983
Molybdenum	98	3.081	3.1	3.145	3.109	0.0326	1.05
Nickel	60	3.291	3.166	3.329	3.262	0.0854	2.618
Nickel	62	2.841	2.728	2.824	2.798	0.061	2.181
Selenium	77	0.2208	0.1651	0.3423	0.2427	0.0906	37.33
Selenium	78	0.2627	0.295	0.289	0.2822	0.0171	6.072
Selenium	82	0.1651	0.2756	0.2239	0.2215	0.0553	24.97
Silver	107	0.0074	0.0035	0.0035	0.0048	0.0023	47.53
Silver	109	0.001	0.0022	0.0025	0.0019	0.0008	41.21
Thallium	203	0.0593	0.064	0.0509	0.0581	0.0067	11.46
Thallium	205	0.0579	0.0582	0.0559	0.0573	0.0013	2.179
Tin	118	0.1459	0.1494	0.1451	0.1468	0.0023	1.575
Tin	120	0.1488	0.1522	0.1442	0.1484	0.004	2.688
Vanadium	51	2.064	2.084	2.14	2.096	0.0394	1.878
Zinc	66	163.1	157.7	163.1	161.3	3.106	1.926
Zinc	68	164.4	164.3	166.7	165.1	1.388	0.8403

Internal Standard Factors:

Lithium	6	1.014	1.061	1.101	1.014	n/a	n/a
Gallium	71	1.014	1.019	1.058	1.014	n/a	n/a
Rhodium	103	1.023	1.045	1.066	1.023	n/a	n/a
Indium	115	1	1.047	1.068	1	n/a	n/a
Lutetium	175	1.027	1.075	1.063	1.027	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005117-001D			Mean	SD	%RSD
TimeStamp		6/7/10 13:57					
Aluminum	27	317.2	333.2	319	323.1	8.768	2.714
Antimony	121	0.4663	0.4524	0.4456	0.4548	0.0106	2.325
Antimony	123	0.4549	0.4466	0.474	0.4585	0.0141	3.067
Arsenic	75	3.925	4.104	3.897	3.975	0.1124	2.828
Barium	137	25.22	25.67	25.27	25.39	0.2459	0.9685
Barium	138	25.39	24.79	24.44	24.87	0.4794	1.927
Beryllium	9	0.0076	0.0016	0.0083	0.0059	0.0037	63.7
Bismuth	209	-0.0001	-0.0012	0.0022	0.0003	0.0017	602.7
Boron	10	22.78	23.05	23.05	22.96	0.1561	0.6799
Boron	11	22.54	23.5	23.59	23.21	0.5835	2.514
Cadmium	111	0.1507	0.1389	0.1378	0.1425	0.0071	5.003
Cadmium	114	0.1421	0.1488	0.1541	0.1483	0.006	4.027
Chromium	52	0.7122	0.7335	0.7052	0.717	0.0147	2.057
Chromium	53	0.8351	0.8555	0.8051	0.8319	0.0254	3.047
Cobalt	59	1.503	1.519	1.416	1.479	0.0554	3.745
Copper	63	6.154	6.267	5.883	6.101	0.1976	3.238
Copper	65	6.269	6.246	5.829	6.115	0.2479	4.054
Lead	206	2.367	2.423	2.422	2.404	0.032	1.329
Lead	207	2.688	2.632	2.612	2.644	0.0391	1.481
Lead	208	2.546	2.531	2.572	2.55	0.0208	0.8158
Manganese	55	411.9	425.1	411.2	416	7.839	1.884
Molybdenum	95	3.129	3.153	3.088	3.123	0.0327	1.048
Molybdenum	97	2.985	3.159	3.164	3.102	0.1021	3.291
Molybdenum	98	3.169	3.199	3.112	3.16	0.0442	1.397
Nickel	60	3.424	3.331	3.266	3.34	0.0797	2.387
Nickel	62	2.643	2.612	2.752	2.669	0.0736	2.757
Selenium	77	0.2102	0.134	0.1728	0.1723	0.0381	22.09
Selenium	78	0.2404	0.304	0.3221	0.2889	0.0429	14.86
Selenium	82	0.276	0.2439	0.2757	0.2652	0.0185	6.957
Silver	107	-0.0003	0.0002	0.0001	0	0.0003	1879
Silver	109	-0.0028	-0.0008	-0.0035	-0.0024	0.0014	59.36
Thallium	203	0.0515	0.055	0.0567	0.0544	0.0027	4.919
Thallium	205	0.0553	0.0591	0.0552	0.0566	0.0022	3.956
Tin	118	0.156	0.165	0.1546	0.1585	0.0057	3.58
Tin	120	0.164	0.1535	0.1503	0.156	0.0071	4.58
Vanadium	51	2.089	2.153	2.155	2.132	0.0374	1.755
Zinc	66	164.5	169.1	162.7	165.4	3.269	1.976
Zinc	68	168.9	174.1	165	169.3	4.599	2.716

Internal Standard Factors:

Lithium	6	1.031	1.069	1.075	1.031	n/a	n/a
Gallium	71	1.046	1.093	1.048	1.046	n/a	n/a
Rhodium	103	1.033	1.096	1.065	1.033	n/a	n/a
Indium	115	1.036	1.064	1.064	1.036	n/a	n/a
Lutetium	175	1.026	1.058	1.08	1.026	n/a	n/a

Sample Name:		K1005117-001S			Mean	SD	%RSD
TimeStamp		6/7/10 14:03					
Aluminum	27	330.1	334.4	330.3	331.6	2.439	0.7355
Antimony	121	20.56	19.8	20.26	20.21	0.3849	1.905
Antimony	123	20.49	19.53	19.83	19.95	0.4911	2.461
Arsenic	75	24.19	23.32	23.67	23.73	0.4385	1.848
Barium	137	46.02	43.98	44.86	44.96	1.023	2.276
Barium	138	50.7	47.05	48.55	48.77	1.834	3.76
Beryllium	9	19.2	20.47	19.82	19.83	0.6347	3.201
Bismuth	209	0.0015	0.0002	0.0003	0.0007	0.0007	107.3
Boron	10	19.64	21.64	20.8	20.69	1.003	4.846
Boron	11	21.24	22.7	22.2	22.05	0.7417	3.364
Cadmium	111	20.09	19.76	20	19.95	0.1737	0.8705
Cadmium	114	19.37	19.16	19.26	19.27	0.1029	0.5339
Chromium	52	21.38	20.69	21.26	21.11	0.3702	1.754
Chromium	53	20.24	20.44	20.52	20.4	0.1427	0.6995
Cobalt	59	21.23	21.11	20.79	21.04	0.2288	1.087
Copper	63	25.25	24.96	25.13	25.12	0.1491	0.5938
Copper	65	25.43	25.47	25.01	25.3	0.2535	1.002
Lead	206	21.41	21.53	21.58	21.51	0.0901	0.419
Lead	207	21.73	21.81	21.6	21.71	0.1096	0.5046
Lead	208	21.57	21.75	21.63	21.65	0.0882	0.4075
Manganese	55	410.5	417.8	418	415.4	4.28	1.03
Molybdenum	95	23.49	23.53	23.43	23.48	0.0508	0.2165
Molybdenum	97	23.41	23.09	23.67	23.39	0.292	1.248
Molybdenum	98	23.44	23.08	23.97	23.5	0.4517	1.922
Nickel	60	23.68	23.19	22.98	23.28	0.36	1.546
Nickel	62	22.29	21.85	21.34	21.83	0.4742	2.172
Selenium	77	21.08	20.12	19.59	20.26	0.7552	3.727
Selenium	78	20.73	20.82	19.98	20.51	0.4631	2.258
Selenium	82	20.72	19.95	19.57	20.08	0.5862	2.92
Silver	107	19.77	20.03	20.07	19.95	0.163	0.8169
Silver	109	20.42	19.9	20.32	20.21	0.2771	1.371
Thallium	203	19.4	19.02	19.48	19.3	0.2471	1.28
Thallium	205	19.73	19.84	19.87	19.81	0.0753	0.3799
Tin	118	0.1632	0.1479	0.1531	0.1547	0.0078	5.025
Tin	120	0.1586	0.1521	0.1442	0.1516	0.0072	4.758
Vanadium	51	21.98	21.36	21.36	21.57	0.3571	1.656
Zinc	66	181.7	176.4	175.3	177.8	3.383	1.903
Zinc	68	186.2	179.4	177.9	181.2	4.416	2.438

**Internal Standard
Factors:**

Lithium	6	0.99	1.074	1.053	0.99 n/a	n/a
Gallium	71	1.051	1.053	1.043	1.051 n/a	n/a
Rhodium	103	1.035	1.076	1.093	1.035 n/a	n/a
Indium	115	1.039	1.045	1.062	1.039 n/a	n/a
Lutetium	175	1.02	1.051	1.069	1.02 n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 06-07-10B

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #203621

Sample Name:	CCV3	Mean	SD	%RSD
TimeStamp	6/7/10 14:12			
Aluminum 27	24.72	25.52	26.01	25.42 0.6516 2.564
Antimony 121	25.38	24.86	25.18	25.14 0.261 1.038
Antimony 123	25.57	25.12	25.36	25.35 0.2267 0.8944
Arsenic 75	24.55	24.94	25.06	24.85 0.2666 1.073
Barium 137	26.34	24.92	25.61	25.62 0.7085 2.765
Barium 138	25.29	25.17	24.89	25.12 0.2068 0.8233
Beryllium 9	25.51	25.89	26.94	26.12 0.7405 2.835
Bismuth 209	24.96	25.54	25.99	25.5 0.5156 2.022
Boron 10	24.79	24.95	25.74	25.16 0.5066 2.014
Boron 11	23.86	25.39	26.91	25.39 1.527 6.013
Cadmium 111	24.98	24.69	24.43	24.7 0.274 1.109
Cadmium 114	25.38	24.68	25.34	25.13 0.3924 1.561
Chromium 52	26.08	26.27	27.32	26.56 0.6678 2.515
Chromium 53	24.73	25.54	26.02	25.43 0.6542 2.572
Cobalt 59	24.91	24.7	25.92	25.18 0.6555 2.604
Copper 63	25.22	24.95	26.19	25.45 0.6519 2.562
Copper 65	25.34	24.84	25.23	25.14 0.2613 1.039
Lead 206	25.27	25.24	25.85	25.46 0.3446 1.354
Lead 207	25.23	25.12	25.9	25.41 0.4237 1.667
Lead 208	25.45	24.88	25.74	25.36 0.4398 1.735
Manganese 55	24.62	25.12	25.95	25.23 0.6675 2.646
Molybdenum 95	24.46	24.71	24.94	24.7 0.2409 0.9749
Molybdenum 97	24.74	24.92	24.74	24.8 0.1053 0.4246
Molybdenum 98	24.49	24.96	24.95	24.8 0.2684 1.082
Nickel 60	25.36	24.8	25.81	25.32 0.5059 1.998
Nickel 62	23.93	24.52	25.64	24.7 0.8659 3.506
Selenium 77	24.23	24.77	25.28	24.76 0.5227 2.111
Selenium 78	25.23	24.47	25.45	25.05 0.5122 2.045
Selenium 82	24.27	24.48	24.44	24.4 0.1103 0.4521
Silver 107	25.38	25.65	25.15	25.4 0.2462 0.9696
Silver 109	25.49	25.22	25.55	25.42 0.1754 0.69
Thallium 203	25.29	25.21	25.75	25.42 0.2902 1.142
Thallium 205	25.97	24.97	25.51	25.48 0.5026 1.972
Tin 118	25.65	25.34	25.38	25.46 0.1712 0.6723
Tin 120	25.09	25.37	25.54	25.33 0.2311 0.9124
Vanadium 51	25.11	25.18	26.5	25.6 0.7835 3.061
Zinc 66	24.92	24.34	25.38	24.88 0.5198 2.089
Zinc 68	24.21	24.62	25.08	24.63 0.4387 1.781

**Internal Standard
Factors:**

Lithium 6	0.945	0.981	1.015	0.945 n/a n/a
Gallium 71	0.956	0.973	0.99	0.956 n/a n/a
Rhodium 103	0.937	0.972	0.971	0.937 n/a n/a
Indium 115	0.956	0.973	0.977	0.956 n/a n/a
Lutetium 175	0.97	0.987	1.027	0.97 n/a n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCB3	Mean	SD	%RSD			
Aluminum	27	-0.0427	0.0238	-0.0137	-0.0109	0.0333	307.2
Antimony	121	-0.0019	-0.0028	-0.005	-0.0032	0.0016	49.57
Antimony	123	-0.0018	-0.002	-0.0027	-0.0022	0.0005	22.5
Arsenic	75	-0.0333	0.0026	-0.0552	-0.0286	0.0292	102
Barium	137	-0.0028	-0.0051	-0.0051	-0.0043	0.0014	31.3
Barium	138	-0.0043	-0.004	-0.0046	-0.0043	0.0003	6.957
Beryllium	9	-0.001	-0.0039	0.0001	-0.0016	0.0021	127
Bismuth	209	-0.0009	-0.0031	-0.0043	-0.0028	0.0017	62.52
Boron	10	0.0688	0.0705	0.0287	0.056	0.0237	42.23
Boron	11	0.0575	0.0457	0.0232	0.0421	0.0174	41.35
Cadmium	111	-0.0021	-0.0012	-0.0018	-0.0017	0.0005	28.73
Cadmium	114	-0.0023	-0.0025	-0.0027	-0.0025	0.0002	8.477
Chromium	52	-0.0075	0.0264	0.0311	0.0167	0.0211	126.4
Chromium	53	0.0216	0.0144	-0.0088	0.0091	0.0159	175.2
Cobalt	59	-0.0032	-0.006	-0.0065	-0.0053	0.0018	33.84
Copper	63	-0.0168	-0.0199	-0.0182	-0.0183	0.0015	8.233
Copper	65	-0.0026	-0.0033	0.0064	0.0002	0.0054	3314
Lead	206	-0.0039	-0.0002	-0.0034	-0.0025	0.002	80.13
Lead	207	-0.0013	0.0025	-0.0038	-0.0009	0.0032	368.6
Lead	208	-0.0011	-0.0006	-0.0029	-0.0015	0.0012	77.5
Manganese	55	0.0001	0.0016	-0.0016	0	0.0016	4576
Molybdenum	95	0.0051	0.0011	-0.0009	0.0018	0.0031	173.9
Molybdenum	97	0.0001	-0.001	0.0025	0.0005	0.0018	331.1
Molybdenum	98	0.0029	0.0021	0.0026	0.0025	0.0004	16.57
Nickel	60	-0.0007	-0.0076	0.007	-0.0004	0.0073	1733
Nickel	62	-0.3416	-0.3574	-0.2808	-0.3266	0.0405	12.39
Selenium	77	0.017	-0.0427	0.0091	-0.0055	0.0324	585
Selenium	78	-0.1096	0.0332	0.147	0.0235	0.1286	546.9
Selenium	82	-0.0901	-0.0452	-0.176	-0.1038	0.0665	64.04
Silver	107	-0.002	-0.0032	-0.0036	-0.0029	0.0008	27.14
Silver	109	-0.0018	-0.0032	-0.0042	-0.0031	0.0012	38.89
Thallium	203	0.0001	-0.0011	-0.0014	-0.0008	0.0008	95.87
Thallium	205	-0.0019	-0.0019	-0.0021	-0.002	0.0001	6.942
Tin	118	0.0076	0.0002	0.0007	0.0028	0.0041	143.4
Tin	120	0.0028	0.0016	-0.0019	0.0008	0.0025	299.2
Vanadium	51	-0.0065	0.0085	0.0173	0.0064	0.012	186.6
Zinc	66	-0.0145	-0.0177	-0.0299	-0.0207	0.0081	39.08
Zinc	68	-0.0102	-0.0084	0.0004	-0.0061	0.0057	93.58

Internal Standard Factors:

Lithium	6	0.899	0.982	0.971	0.899	n/a	n/a
Gallium	71	0.962	0.977	0.981	0.962	n/a	n/a
Rhodium	103	0.938	0.982	0.953	0.938	n/a	n/a
Indium	115	0.937	0.957	0.969	0.937	n/a	n/a
Lutetium	175	0.982	0.993	0.979	0.982	n/a	n/a

Sample Name:		K1005055-005			Mean	SD	%RSD
TimeStamp		6/7/10 14:27					
Aluminum	27	13.14	13.72	13.53	13.46	0.2963	2.201
Antimony	121	0.4889	0.495	0.4773	0.4871	0.009	1.846
Antimony	123	0.5051	0.4981	0.4853	0.4962	0.01	2.019
Arsenic	75	1.645	1.732	1.645	1.674	0.0503	3.004
Barium	137	17.84	17.5	17.56	17.64	0.1796	1.018
Barium	138	17.63	17.13	17.46	17.41	0.2548	1.464
Beryllium	9	0.0008	-0.0051	0	-0.0014	0.0032	223.3
Bismuth	209	-0.0035	-0.0045	-0.0038	-0.0039	0.0005	13.25
Boron	10	13.49	14.68	14.4	14.19	0.6236	4.394
Boron	11	13.62	14.57	14.56	14.25	0.5483	3.848
Cadmium	111	0.0606	0.0443	0.0624	0.0558	0.01	17.89
Cadmium	114	0.0445	0.0468	0.0436	0.045	0.0016	3.587
Chromium	52	0.3793	0.4399	0.4359	0.4183	0.0339	8.101
Chromium	53	0.2729	0.2367	0.2766	0.2621	0.0221	8.419
Cobalt	59	0.026	0.0322	0.0244	0.0275	0.0041	14.82
Copper	63	1.187	1.24	1.213	1.213	0.0267	2.197
Copper	65	0.9472	1.02	1.006	0.9913	0.0388	3.915
Lead	206	0.0607	0.0564	0.0578	0.0583	0.0021	3.681
Lead	207	0.0664	0.0742	0.0675	0.0694	0.0042	6.083
Lead	208	0.0653	0.0658	0.0634	0.0648	0.0013	1.965
Manganese	55	7.962	8.365	8.016	8.114	0.2186	2.695
Molybdenum	95	36.95	36.71	36.59	36.75	0.1821	0.4954
Molybdenum	97	37.08	37.58	36.33	37	0.626	1.692
Molybdenum	98	37.23	37.54	36.33	37.03	0.6277	1.695
Nickel	60	0.2644	0.3266	0.2743	0.2884	0.0334	11.59
Nickel	62	-0.1213	-0.125	-0.2784	-0.1749	0.0897	51.27
Selenium	77	0.7752	0.8265	0.8884	0.83	0.0566	6.825
Selenium	78	0.9989	1.099	1.036	1.045	0.0505	4.839
Selenium	82	0.6988	0.8528	0.6945	0.7487	0.0902	12.04
Silver	107	-0.0026	-0.0015	-0.0037	-0.0026	0.0011	41.79
Silver	109	0.0006	-0.003	-0.0038	-0.0021	0.0024	112.7
Thallium	203	0.0218	0.0195	0.0216	0.0209	0.0013	6.005
Thallium	205	0.0213	0.0226	0.022	0.022	0.0007	2.958
Tin	118	0.02	0.0214	0.0165	0.0193	0.0025	12.87
Tin	120	0.0167	0.0138	0.0121	0.0142	0.0023	16.27
Vanadium	51	0.4313	0.4955	0.4633	0.4633	0.0321	6.929
Zinc	66	10.9	11.01	11.1	11	0.0964	0.8765
Zinc	68	11.18	11.45	11.43	11.35	0.1523	1.341

**Internal Standard
Factors:**

Lithium	6	0.891	0.935	0.911	0.891	n/a	n/a
Gallium	71	1.005	1.004	0.982	1.005	n/a	n/a
Rhodium	103	0.985	0.982	0.944	0.985	n/a	n/a
Indium	115	1.008	0.977	0.963	1.008	n/a	n/a
Lutetium	175	0.986	1.003	1.008	0.986	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 06-07-10B
Units: µg/L (ppb)

Method: EPA 200.8
Analyst: Greg Jasper
STARLIMS #203621

Sample Name:
TimeStamp

Aluminum	27
Antimony	121
Antimony	123
Arsenic	75
Barium	137
Barium	138
Beryllium	9
Bismuth	209
Boron	10
Boron	11
Cadmium	111
Cadmium	114
Chromium	52
Chromium	53
Cobalt	59
Copper	63
Copper	65
Lead	206
Lead	207
Lead	208
Manganese	55
Molybdenum	95
Molybdenum	97
Molybdenum	98
Nickel	60
Nickel	62
Selenium	77
Selenium	78
Selenium	82
Silver	107
Silver	109
Thallium	203
Thallium	205
Tin	118
Tin	120
Vanadium	51
Zinc	66
Zinc	68

Internal Standard
Factors:

Lithium	6
Gallium	71
Rhodium	103
Indium	115
Lutetium	175

July 1, 2010

Analytical Report for Service Request No: K1004934

Melissa Kleven
Exponent
15375 Southeast 30th Place, Suite 250
Bellevue, WA 98007

RE: Heglar - Kronquist/0907194.000.0601

Dear Melissa:

Enclosed are the additional pages for the samples submitted to our laboratory on May 15, 2010. For your reference, these analyses have been assigned our service request number K1004934.

Results for "Phosphate as Orthophosphate" enclosed.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.
Pradeep Divvela
Project Chemist

PD/lb

Page 1 of 2

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 05/14/10
Date Received : 05/15/10

Phosphate as Orthophosphate

Analysis Method : 365.3
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
SW-1	K1004934-001	0.031	0.013	1	05/15/10 13:20	0.313	
SW-4	K1004934-002	0.031	0.013	1	05/15/10 13:20	0.114	
SW-5	K1004934-003	0.031	0.013	1	05/15/10 13:20	0.046	
SW-6	K1004934-004	0.031	0.013	1	05/15/10 13:20	0.114	
SW-2	K1004934-005	0.031	0.013	1	05/15/10 13:20	0.319	
SW-3	K1004934-006	0.031	0.013	1	05/15/10 13:20	0.258	
SW-9	K1004934-007	0.031	0.013	1	05/15/10 13:20	0.319	
FB-051410	K1004934-008	0.031	0.013	1	05/15/10 13:20	ND	
Method Blank	K1004934-MB	0.031	0.013	1	05/15/10 13:20	ND	

June 14, 2010

Analytical Report for Service Request No: K1004934

Melissa Kleven
Exponent
15375 Southeast 30th Place, Suite 250
Bellevue, WA 98007

RE: Heglar - Kronquist/0907194.000.0601

Dear Melissa:

Enclosed are the results of the samples submitted to our laboratory on May 15, 2010. For your reference, these analyses have been assigned our service request number K1004934.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.
Pradeep Divvela
Project Chemist

PD/ln

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Exponent
Project: Heglar - Kronquist
Sample Matrix: Water

Service Request No.: K1004934
Date Received: 05/15/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Nine water samples were received for analysis at Columbia Analytical Services on 05/15/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Ortho Phosphate analysis was performed on a field filtered unpreserved bottle.

No anomalies associated with the analysis of these samples were observed.

Total Metals

Matrix Spike Recovery Exceptions:


The control criteria for matrix spike recovery of Zinc for the Batch QC3 were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 624

No anomalies associated with the analysis of these samples were observed.

Approved by _____ Date _____

 06/16/10

Chain of Custody

PROJECT NAME: Heglar Kronquist
 PROJECT NUMBER: 0907194.068.0601
 PROJECT MANAGER: Melissa Kleven
 COMPANY ADDRESS: 15375 SE 30th PI Suite 250
 CITY/STATE/ZIP: Bellevue, WA 98007
 E-MAIL ADDRESS: mkleven@exponent.com
 PHONE #: 425-919-8774 FAX: 425-519-8799
 SAMPLER'S SIGNATURE: [Signature] / Kerri Whetter

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS
SW-2	5.14.10	1445	L		8
SW-3		1410			8
SW-9		1515			8
FB-051410		1645			8
Trip Blank					3

ANALYTES	SW-2	SW-3	SW-9	FB-051410	Trip Blank	REMARKS
Semivolatile Organics by GC/MS 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270LL <input type="checkbox"/>	X	X	X	X	X	
Volatile Organics 624 <input type="checkbox"/> 8260 <input type="checkbox"/> 8270LL <input type="checkbox"/>	X	X	X	X	X	
Hydrocarbons (*see below) Gas <input type="checkbox"/> Fuel Fingerprint (FIO) <input type="checkbox"/> Oil <input type="checkbox"/> Diesel <input type="checkbox"/> BTEX <input type="checkbox"/>						
Oil & Grease/TRPH 1664 HEM <input type="checkbox"/>						
PCBs Aroclors <input type="checkbox"/> 1664 SGT <input type="checkbox"/>						
Pesticides/Herbicides 608 <input type="checkbox"/> 8081A <input type="checkbox"/>						
Chlorophenolics - 8151M 8141A <input type="checkbox"/> 8151A <input type="checkbox"/>						
PAHS 8310 <input type="checkbox"/> SIM <input type="checkbox"/>						
Metals (Total or Dissolved) (see list below) Cyanide <input type="checkbox"/>	X	X	X	X	X	
PH Cond. <input type="checkbox"/> Cl. SO ₄ <input type="checkbox"/> PO ₄ <input type="checkbox"/> F. NO ₃ <input type="checkbox"/> NO ₃ BOD. TSS (circle) NH ₃ -N COD. Total P, TKN, TOC, DOC (circle) NO ₂ +NO ₃	X	X	X	X	X	
TOX 9020 <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/>	X	X	X	X	X	
alkalinity phosphate phosphate as phosphate	X	X	X	X	X	Run NO ₃ , NO ₂ and ortho- AsAP within 98-hr hold time

REPORT REQUIREMENTS I. Routine Report: Method Blank, Surrogate, as required II. Report Dup., MS, MSD as required III. Data Validation Report (includes all raw data) IV. CLP Deliverable Report V. EDD	INVOICE INFORMATION P.O. # _____ Bill To: <u>same</u> <u>above</u>	TURNAROUND REQUIREMENTS 24 hr. _____ 48 hr. _____ 5 Day _____ X Standard (10-15 working days) Provide FAX Results _____ Requested Report Date _____
Signature: <u>Kerri Whetter</u> Printed Name: <u>Kerri Whetter</u> Date/Time: <u>5.14.10/1317</u> Firm: <u>Exponent</u>	Signature: <u>[Signature]</u> Printed Name: <u>Veronica [Signature]</u> Date/Time: <u>5-15-10</u> Firm: _____	RECEIVED BY: <u>845</u> Signature _____ Printed Name _____ Date/Time _____ Firm _____

Circle which metals are to be analyzed:
 Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg
 Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg
 *INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)
 SPECIAL INSTRUCTIONS/COMMENTS:
500 mL poly container supply
unpreserved #17718
is field filtered Bar code # T622894
 Sample Shipment contains USDA regulated soil samples (check box if applicable)

**Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form**

PC AD

Client / Project: EXponent Service Request K10 04934

Received: 5-15-10 Opened: 5-15-10 By: Brad

1. Samples were received via? Mail **Fed Ex** UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) **Cooler** Box Envelope Other _____ NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 front
- If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	NA	Tracking Number	NA	Filed
1.7	1.0	290	1				X
-0.4	0.6	282					X

7. Packing material used. **Inserts** **Baggies** **Bubble Wrap** Gel Packs **Wet Ice** Sleeves Other _____
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : WATER

Service Request : K1004934
 Date Collected : 05/14/10
 Date Received : 05/15/10

Chloride

Analysis Method : 300.0
 Test Notes :

Units : mg/L
 Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
SW-1	K1004934-001	2.0	0.3	10	06/02/10	20.0	
SW-4	K1004934-002	0.20	0.06	2	06/02/10	9.77	
SW-5	K1004934-003	10	2	50	06/02/10	252	
SW-6	K1004934-004	0.20	0.06	2	06/02/10	2.69	
SW-2	K1004934-005	2.0	0.3	10	06/03/10	21.2	
SW-3	K1004934-006	10	2	50	06/03/10	301	
SW-9	K1004934-007	2.0	0.3	10	06/03/10	21.7	
FB-051410	K1004934-008	0.20	0.03	1	06/02/10	ND	
Method Blank	K1004934-MB	0.20	0.03	1	06/02/10	ND	
Method Blank	K1004934-MB	0.20	0.03	1	06/03/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/02/10

Duplicate Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1005112-001DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	300.0	0.20	1.40	1.36	1.38	3	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/02/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : Batch QC Units : mg/L
 Lab Code : K1005112-001MS K1005112-001DMS Basis : NA
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Chloride	NONE	300.0	0.20	3.00	3.00	1.40	4.01	3.99	87	87	80-120	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/02/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004934-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery	
Chloride	NONE	300.0	5.00	4.85	97	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/03/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004934-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	NONE	300.0	5.00	4.83	97	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Chloride
300.0
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	6/2/2010	5.00	4.88	98
CCV2 Result	6/2/2010	5.00	4.87	97
CCV3 Result	6/2/2010	5.00	4.84	97
CCV4 Result	6/2/2010	5.00	4.95	99
CCV5 Result	6/2/2010	5.00	4.86	97
CCV6 Result	6/2/2010	5.00	4.96	99
CCV7 Result	6/2/2010	5.00	4.94	99
CCV1 Result	6/3/2010	5.00	4.93	99
CCV2 Result	6/3/2010	5.00	4.88	98
CCV3 Result	6/3/2010	5.00	4.93	99
CCV4 Result	6/3/2010	5.00	4.98	100
CCV5 Result	6/3/2010	5.00	4.87	97
CCV6 Result	6/3/2010	5.00	4.91	98
CCV7 Result	6/3/2010	5.00	4.89	98
CCV8 Result	6/3/2010	5.00	4.92	98
CCV8 Result	6/3/2010	5.00	4.92	98

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Chloride
300.0
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	6/2/2010	0.20	ND
CCB2 Result	6/2/2010	0.20	ND
CCB3 Result	6/2/2010	0.20	ND
CCB4 Result	6/2/2010	0.20	ND
CCB5 Result	6/2/2010	0.20	ND
CCB6 Result	6/2/2010	0.20	ND
CCB7 Result	6/2/2010	0.20	ND
CCB1 Result	6/3/2010	0.20	ND
CCB2 Result	6/3/2010	0.20	ND
CCB3 Result	6/3/2010	0.20	ND
CCB4 Result	6/3/2010	0.20	ND
CCB5 Result	6/3/2010	0.20	ND
CCB6 Result	6/3/2010	0.20	ND
CCB7 Result	6/3/2010	0.20	ND
CCB8 Result	6/3/2010	0.20	ND
CCB8 Result	6/3/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : WATER

Service Request : K1004934
 Date Collected : 05/14/10
 Date Received : 05/15/10

Fluoride

Analysis Method : 300.0
 Test Notes :

Units : mg/L
 Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
SW-1	K1004934-001	0.20	0.01	2	06/02/10	0.27	
SW-4	K1004934-002	0.20	0.01	2	06/02/10	0.25	
SW-5	K1004934-003	0.20	0.01	2	06/02/10	0.25	
SW-6	K1004934-004	0.20	0.01	2	06/02/10	0.06	J
SW-2	K1004934-005	0.20	0.01	2	06/02/10	0.31	
SW-3	K1004934-006	0.20	0.01	2	06/02/10	0.24	
SW-9	K1004934-007	0.20	0.01	2	06/02/10	0.31	
FB-051410	K1004934-008	0.20	0.003	1	06/02/10	ND	
Method Blank	K1004934-MB	0.20	0.003	1	06/02/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/02/10

Duplicate Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1005112-001DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Fluoride	300.0	0.20	0.02	0.03	0.03	33	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : WATER

Service Request : K1004934
 Date Collected : NA
 Date Received : NA
 Date Prepared : NA
 Date Analyzed : 06/02/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : Batch QC Units : mg/L
 Lab Code : K1005112-001MS K1005112-001DMS Basis : NA
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Fluoride	NONE	300.0	0.20	3.00	3.00	0.02	3.02	3.07	100	101	80-120	2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/02/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004934-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Fluoride	NONE	300.0	13.5	13.7	101	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Fluoride
300.0
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	6/2/2010	5.00	4.94	99
CCV2 Result	6/2/2010	5.00	5.00	100
CCV3 Result	6/2/2010	5.00	5.00	100
CCV4 Result	6/2/2010	5.00	5.04	101
CCV5 Result	6/2/2010	5.00	5.05	101
CCV6 Result	6/2/2010	5.00	5.09	102
CCV7 Result	6/2/2010	5.00	5.11	102
CCV8 Result	6/3/2010	5.00	5.07	101

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Fluoride
300.0
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	6/2/2010	0.20	ND
CCB2 Result	6/2/2010	0.20	ND
CCB3 Result	6/2/2010	0.20	ND
CCB4 Result	6/2/2010	0.20	ND
CCB5 Result	6/2/2010	0.20	ND
CCB6 Result	6/2/2010	0.20	ND
CCB7 Result	6/2/2010	0.20	ND
CCB8 Result	6/3/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 05/14/10
Date Received : 05/15/10

Sulfate

Analysis Method : 300.0
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
SW-1	K1004934-001	2.0	0.1	10	06/02/10	42.3	
SW-4	K1004934-002	2.0	0.1	10	06/02/10	40.7	
SW-5	K1004934-003	2.0	0.1	10	06/02/10	36.7	
SW-6	K1004934-004	0.20	0.02	2	06/02/10	2.20	
SW-2	K1004934-005	2.0	0.1	10	06/03/10	40.4	
SW-3	K1004934-006	2.0	0.1	10	06/03/10	36.3	
SW-9	K1004934-007	2.0	0.1	10	06/03/10	40.0	
FB-051410	K1004934-008	0.20	0.01	1	06/02/10	ND	
Method Blank	K1004934-MB	0.20	0.01	1	06/02/10	ND	
Method Blank	K1004934-MB	0.20	0.01	1	06/03/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/02/10

Duplicate Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1005112-001DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Sulfate	300.0	0.20	0.97	0.95	0.96	2	

COLUMBIA ANALYTICAL SERVICES, INC.
QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/02/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : Batch QC Units : mg/L
Lab Code : K1005112-001MS K1005112-001DMS Basis : NA
Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Sulfate	NONE	300.0	0.20	3.00	3.00	0.97	3.74	3.77	93	93	80-120	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/02/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004934-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Sulfate	NONE	300.0	5.00	4.81	96	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/03/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004934-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfate	NONE	300.0	5.00	4.84	97	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Sulfate
300.0
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	6/2/2010	5.00	5.06	101
CCV2 Result	6/2/2010	5.00	5.10	102
CCV3 Result	6/2/2010	5.00	5.01	100
CCV4 Result	6/2/2010	5.00	5.04	101
CCV5 Result	6/2/2010	5.00	5.05	101
CCV6 Result	6/2/2010	5.00	5.07	101
CCV7 Result	6/2/2010	5.00	5.05	101
CCV1 Result	6/3/2010	5.00	4.96	99
CCV2 Result	6/3/2010	5.00	4.96	99
CCV3 Result	6/3/2010	5.00	4.98	100
CCV4 Result	6/3/2010	5.00	5.02	100
CCV5 Result	6/3/2010	5.00	4.93	99
CCV6 Result	6/3/2010	5.00	4.95	99
CCV7 Result	6/3/2010	5.00	4.97	99
CCV8 Result	6/3/2010	5.00	5.08	102
CCV8 Result	6/3/2010	5.00	4.96	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Sulfate
300.0
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	6/2/2010	0.20	ND
CCB2 Result	6/2/2010	0.20	ND
CCB3 Result	6/2/2010	0.20	ND
CCB4 Result	6/2/2010	0.20	ND
CCB5 Result	6/2/2010	0.20	ND
CCB6 Result	6/2/2010	0.20	ND
CCB7 Result	6/2/2010	0.20	ND
CCB1 Result	6/3/2010	0.20	ND
CCB2 Result	6/3/2010	0.20	ND
CCB3 Result	6/3/2010	0.20	ND
CCB4 Result	6/3/2010	0.20	ND
CCB5 Result	6/3/2010	0.20	ND
CCB6 Result	6/3/2010	0.20	ND
CCB7 Result	6/3/2010	0.20	ND
CCB8 Result	6/3/2010	0.20	ND
CCB8 Result	6/3/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : WATER

Service Request : K1004934
 Date Collected : 05/14/10
 Date Received : 05/15/10

Ammonia as Nitrogen

Analysis Method : 350.1
 Test Notes :

Units : mg/L
 Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
SW-1	K1004934-001	0.050	0.020	1	05/21/10	0.030	J
SW-4	K1004934-002	0.050	0.020	1	05/21/10	ND	
SW-5	K1004934-003	0.050	0.020	1	05/21/10	0.034	J
SW-6	K1004934-004	0.050	0.020	1	05/21/10	ND	
SW-2	K1004934-005	0.050	0.020	1	05/21/10	ND	
SW-3	K1004934-006	0.050	0.020	1	05/21/10	ND	
SW-9	K1004934-007	0.050	0.020	1	05/21/10	ND	
FB-051410	K1004934-008	0.050	0.020	1	05/21/10	ND	
Method Blank	K1004934-MB	0.050	0.020	1	05/21/10	0.022	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 5/14/2010
Date Received : 5/15/2010
Date Prepared : NA
Date Analyzed : 05/21/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-1
Lab Code : K1004934-001DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	350.1	0.050	0.030	ND	NC	NC	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : WATER

Service Request : K1004934
 Date Collected : 5/14/2010
 Date Received : 5/15/2010
 Date Prepared : NA
 Date Analyzed : 05/21/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : SW-1 Units : mg/L
 Lab Code : K1004934-001MS K1004934-001DMS Basis : NA
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Ammonia as Nitrogen	NONE	350.1	0.050	2.00	2.00	0.030	2.09	2.09	103	103	90-112	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/21/10

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004934-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Ammonia as Nitrogen	NONE	350.1	14.3	14.7	103	90-112	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Ammonia as Nitrogen
350.1
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	5/21/2010	2.00	1.90	95
CCV2 Result	5/21/2010	2.00	1.89	95
CCV3 Result	5/21/2010	2.00	1.90	95
CCV4 Result	5/21/2010	2.00	1.90	95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Ammonia as Nitrogen
350.1
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	5/21/2010	0.050	0.021 J
CCB2 Result	5/21/2010	0.050	ND
CCB3 Result	5/21/2010	0.050	ND
CCB4 Result	5/21/2010	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 05/14/10
Date Received : 05/15/10

Nitrite as Nitrogen

Analysis Method : 353.2
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
SW-1	K1004934-001	0.050	0.005	1	05/15/10 13:26	0.006	J
SW-4	K1004934-002	0.050	0.005	1	05/15/10 13:26	0.013	J
SW-5	K1004934-003	0.050	0.005	1	05/15/10 13:26	0.039	J
SW-6	K1004934-004	0.050	0.005	1	05/15/10 13:26	0.010	J
SW-2	K1004934-005	0.050	0.005	1	05/15/10 13:26	0.007	J
SW-3	K1004934-006	0.050	0.005	1	05/15/10 13:26	0.006	J
SW-9	K1004934-007	0.050	0.005	1	05/15/10 13:26	0.006	J
FB-051410	K1004934-008	0.050	0.005	1	05/15/10 13:26	0.006	J
Method Blank	K1004934-MB	0.050	0.005	1	05/15/10 13:26	0.010	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 5/14/2010
Date Received : 5/15/2010
Date Prepared : NA
Date Analyzed : 05/15/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-1
Lab Code : K1004934-001DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Nitrite as Nitrogen	353.2	0.050	0.006	0.007	0.007	14	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 5/14/2010
Date Received : 5/15/2010
Date Prepared : NA
Date Analyzed : 05/15/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : SW-1 Units : mg/L
 Lab Code : K1004934-001MS K1004934-001DMS Basis : NA
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Nitrite as Nitrogen	NONE	353.2	0.050	2.00	2.00	0.006	2.00	2.04	100	102	90-110	2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/15/10

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004934-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Nitrite as Nitrogen	NONE	353.2	4.00	3.97	99	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Nitrite as Nitrogen
353.2
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	5/15/2010	2.00	1.94	97
CCV2 Result	5/15/2010	2.00	1.97	99
CCV3 Result	5/15/2010	2.00	1.96	98

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Nitrite as Nitrogen
353.2
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	5/15/2010	0.050	0.007 J
CCB2 Result	5/15/2010	0.050	ND
CCB3 Result	5/15/2010	0.050	0.005 J

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 05/14/10
Date Received : 05/15/10

Nitrate as Nitrogen

Analysis Method : 353.2
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
SW-1	K1004934-001	0.50	0.09	10	05/18/10	9.26	
SW-4	K1004934-002	0.50	0.09	10	05/18/10	12.0	
SW-5	K1004934-003	0.50	0.09	10	05/18/10	14.8	
SW-6	K1004934-004	0.050	0.009	1	05/18/10	0.113	
SW-2	K1004934-005	0.50	0.09	10	05/18/10	9.93	
SW-3	K1004934-006	0.50	0.09	10	05/18/10	18.0	
SW-9	K1004934-007	0.50	0.09	10	05/18/10	9.90	
FB-051410	K1004934-008	0.050	0.009	1	05/18/10	0.028	J
Method Blank	K1004934-MB	0.050	0.009	1	05/18/10	0.021	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 5/14/2010
Date Received : 5/15/2010
Date Prepared : NA
Date Analyzed : 05/18/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-1
Lab Code : K1004934-001DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Nitrate as Nitrogen	353.2	0.50	9.26	9.33	0.930	<1	

COLUMBIA ANALYTICAL SERVICES, INC.
QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 5/14/2010
Date Received : 5/15/2010
Date Prepared : NA
Date Analyzed : 05/18/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : SW-1 Units : mg/L
Lab Code : K1004934-001MS K1004934-001DMS Basis : NA
Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Nitrate as Nitrogen	NONE	353.2	0.050	20.0	20.0	9.26	30.2	30.0	105	103	86-117	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/18/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004934-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Nitrate as Nitrogen	NONE	353.2	14.8	14.5	98	88-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Nitrate as Nitrogen
353.2
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	5/18/2010	2.00	1.94	97
CCV2 Result	5/18/2010	2.00	1.92	96
CCV3 Result	5/18/2010	2.00	1.92	96
CCV4 Result	5/18/2010	2.00	1.89	95
CCV5 Result	5/18/2010	2.00	1.90	95
CCV6 Result	5/18/2010	2.00	1.90	95
CCV7 Result	5/18/2010	2.00	1.92	96
CCV8 Result	5/18/2010	2.00	1.89	95
CCV9 Result	5/18/2010	2.00	1.92	96
CCV10 Result	5/18/2010	2.00	1.90	95
CCV11 Result	5/18/2010	2.00	1.90	95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Nitrate as Nitrogen
353.2
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	5/18/2010	0.050	0.021 J
CCB2 Result	5/18/2010	0.050	0.027 J
CCB3 Result	5/18/2010	0.050	0.030 J
CCB4 Result	5/18/2010	0.050	0.023 J
CCB5 Result	5/18/2010	0.050	0.020 J
CCB6 Result	5/18/2010	0.050	0.030 J
CCB7 Result	5/18/2010	0.050	0.009 J
CCB8 Result	5/18/2010	0.050	0.012 J
CCB9 Result	5/18/2010	0.050	0.037 J
CCB10 Result	5/18/2010	0.050	0.026 J
CCB11 Result	5/18/2010	0.050	0.013 J

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 05/14/10
Date Received : 05/15/10

Orthophosphate as Phosphorus

Analysis Method : 365.3
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
SW-1	K1004934-001	0.010	0.004	1	05/15/10 13:20	0.102	
SW-4	K1004934-002	0.010	0.004	1	05/15/10 13:20	0.037	
SW-5	K1004934-003	0.010	0.004	1	05/15/10 13:20	0.015	
SW-6	K1004934-004	0.010	0.004	1	05/15/10 13:20	0.037	
SW-2	K1004934-005	0.010	0.004	1	05/15/10 13:20	0.104	
SW-3	K1004934-006	0.010	0.004	1	05/15/10 13:20	0.084	
SW-9	K1004934-007	0.010	0.004	1	05/15/10 13:20	0.104	
FB-051410	K1004934-008	0.010	0.004	1	05/15/10 13:20	ND	
Method Blank	K1004934-MB	0.010	0.004	1	05/15/10 13:20	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 5/14/2010
Date Received : 5/15/2010
Date Prepared : NA
Date Analyzed : 05/15/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-1
Lab Code : K1004934-001DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Orthophosphate as Phosphorus	365.3	0.010	0.102	0.103	0.103	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : WATER

Service Request : K1004934
 Date Collected : 5/14/2010
 Date Received : 5/15/2010
 Date Prepared : NA
 Date Analyzed : 05/15/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : SW-1 Units : mg/L
 Lab Code : K1004934-001MS K1004934-001DMS Basis : NA
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Orthophosphate as Phosphorus	NONE	365.3	0.010	0.200	0.400	0.102	0.300	0.493	99	98	81-119	1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/15/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004934-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Orthophosphate as Phosphorus	NONE	365.3	3.57	3.53	99	89-118	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Orthophosphate as Phosphorus
365.3
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	5/15/2010	0.500	0.500	100
CCV2 Result	5/15/2010	0.500	0.499	100
CCV3 Result	5/15/2010	0.500	0.496	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004934
Date Collected : NA
Date Received : NA

Orthophosphate as Phosphorus
365.3
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	5/15/2010	0.010	ND
CCB2 Result	5/15/2010	0.010	ND
CCB3 Result	5/15/2010	0.010	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 05/14/10
Date Received : 05/15/10

Alkalinity as CaCO₃, Total

Analysis Method : SM 2320 B
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
SW-1	K1004934-001	9.0	3.0	1	05/21/10	254	
SW-4	K1004934-002	9.0	3.0	1	05/21/10	174	
SW-5	K1004934-003	9.0	3.0	1	05/25/10	216	
SW-6	K1004934-004	2.0	1.0	1	05/25/10	21.6	
SW-2	K1004934-005	9.0	3.0	1	05/25/10	237	
SW-3	K1004934-006	9.0	3.0	1	05/25/10	228	
SW-9	K1004934-007	9.0	3.0	1	05/25/10	226	
FB-051410	K1004934-008	2.0	1.0	1	05/25/10	ND	
Method Blank	K1004934-MB	2.0	1.0	1	05/25/10	ND	
Method Blank	K1004934-MB	9.0	3.0	1	05/21/10	ND	
Method Blank	K1004934-MB	9.0	3.0	1	05/25/10	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 5/14/2010
Date Received : 5/15/2010
Date Prepared : NA
Date Analyzed : 05/25/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-5
Lab Code : K1004934-003DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Alkalinity as CaCO ₃ , Total	SM 2320 B	9.0	216	231	224	7	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/21/10

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004934-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Alkalinity as CaCO3, Total	NONE	SM 2320 B	67.9	68.4	101	94-106	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/25/10

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004934-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Alkalinity as CaCO3, Total	NONE	SM 2320 B	67.9	64.6	95	94-106	
Alkalinity as CaCO3, Total	NONE	SM 2320 B	67.9	69.7	103	94-106	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : WATER

Service Request : K1004934
 Date Collected : 05/14/10
 Date Received : 05/15/10

Bicarbonate Alkalinity as CaCO3

Analysis Method : SM 2320 B
 Test Notes :

Units : mg/L
 Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
SW-1	K1004934-001	9.0	3.0	1	05/21/10	254	
SW-4	K1004934-002	9.0	3.0	1	05/21/10	174	
SW-5	K1004934-003	9.0	3.0	1	05/25/10	216	
SW-6	K1004934-004	2.0	1.0	1	05/25/10	21.6	
SW-2	K1004934-005	9.0	3.0	1	05/25/10	237	
SW-3	K1004934-006	9.0	3.0	1	05/25/10	228	
SW-9	K1004934-007	9.0	3.0	1	05/25/10	226	
FB-051410	K1004934-008	2.0	1.0	1	05/25/10	ND	
Method Blank	K1004934-MB	2.0	1.0	1	05/25/10	ND	
Method Blank	K1004934-MB	9.0	3.0	1	05/25/10	ND	
Method Blank	K1004934-MB	9.0	3.0	1	05/21/10	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 5/14/2010
Date Received : 5/15/2010
Date Prepared : NA
Date Analyzed : 05/25/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-5
Lab Code : K1004934-003DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Bicarbonate Alkalinity as CaCO ₃	SM 2320 B	9.0	216	231	224	7	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 05/14/10
Date Received : 05/15/10

Carbonate Alkalinity as CaCO3

Analysis Method : SM 2320 B
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
SW-1	K1004934-001	9.0	3.0	1	05/21/10	ND	
SW-4	K1004934-002	9.0	3.0	1	05/21/10	ND	
SW-5	K1004934-003	9.0	3.0	1	05/25/10	ND	
SW-6	K1004934-004	2.0	1.0	1	05/25/10	ND	
SW-2	K1004934-005	9.0	3.0	1	05/25/10	ND	
SW-3	K1004934-006	9.0	3.0	1	05/25/10	ND	
SW-9	K1004934-007	9.0	3.0	1	05/25/10	ND	
FB-051410	K1004934-008	2.0	1.0	1	05/25/10	ND	
Method Blank	K1004934-MB	2.0	1.0	1	05/25/10	ND	
Method Blank	K1004934-MB	9.0	3.0	1	05/25/10	ND	
Method Blank	K1004934-MB	9.0	3.0	1	05/21/10	ND	

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 5/14/2010
Date Received : 5/15/2010
Date Prepared : NA
Date Analyzed : 05/25/10

Duplicate Summary
 Inorganic Parameters

Sample Name : SW-5
Lab Code : K1004934-003DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Carbonate Alkalinity as CaCO3	SM 2320 B	9.0	ND	ND	ND	-	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 05/14/10
Date Received : 05/15/10

Hydroxide Alkalinity as CaCO₃

Analysis Method : SM 2320 B
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
SW-1	K1004934-001	9.0	3.0	1	05/21/10	ND	
SW-4	K1004934-002	9.0	3.0	1	05/21/10	ND	
SW-5	K1004934-003	9.0	3.0	1	05/25/10	ND	
SW-6	K1004934-004	2.0	1.0	1	05/25/10	ND	
SW-2	K1004934-005	9.0	3.0	1	05/25/10	ND	
SW-3	K1004934-006	9.0	3.0	1	05/25/10	ND	
SW-9	K1004934-007	9.0	3.0	1	05/25/10	ND	
FB-051410	K1004934-008	2.0	1.0	1	05/25/10	ND	
Method Blank	K1004934-MB	9.0	3.0	1	05/25/10	ND	
Method Blank	K1004934-MB	9.0	3.0	1	05/21/10	ND	
Method Blank	K1004934-MB	2.0	1.0	1	05/25/10	ND	

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 5/14/2010
Date Received : 5/15/2010
Date Prepared : NA
Date Analyzed : 05/25/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-5
Lab Code : K1004934-003DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Hydroxide Alkalinity as CaCO3	SM 2320 B	9.0	ND	ND	ND	-	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 05/14/10
Date Received : 05/15/10

Solids, Total Dissolved

Analysis Method : SM 2540 C
Test Notes :

Units : mg/L

Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
SW-1	K1004934-001	5.0	5.0	1	05/20/10	408	
SW-4	K1004934-002	5.0	5.0	1	05/20/10	342	
SW-5	K1004934-003	5.0	5.0	1	05/20/10	739	
SW-6	K1004934-004	5.0	5.0	1	05/20/10	44.0	
SW-2	K1004934-005	5.0	5.0	1	05/20/10	390	
SW-3	K1004934-006	5.0	5.0	1	05/20/10	821	
SW-9	K1004934-007	5.0	5.0	1	05/20/10	408	
FB-051410	K1004934-008	5.0	5.0	1	05/20/10	ND	
Method Blank	K1004934-MB	5.0	5.0	1	05/20/10	ND	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004934
Date Collected : 5/14/2010
Date Received : 5/15/2010
Date Prepared : NA
Date Analyzed : 05/20/10

Duplicate Summary
 Inorganic Parameters

Sample Name : SW-1
Lab Code : K1004934-001DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved	SM 2540 C	5.0	408	394	401	3	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : WATER

Service Request : K1004934
 Date Collected : NA
 Date Received : NA
 Date Prepared : NA
 Date Analyzed : 05/20/10

Laboratory Control Sample Summary
 Inorganic Parameters

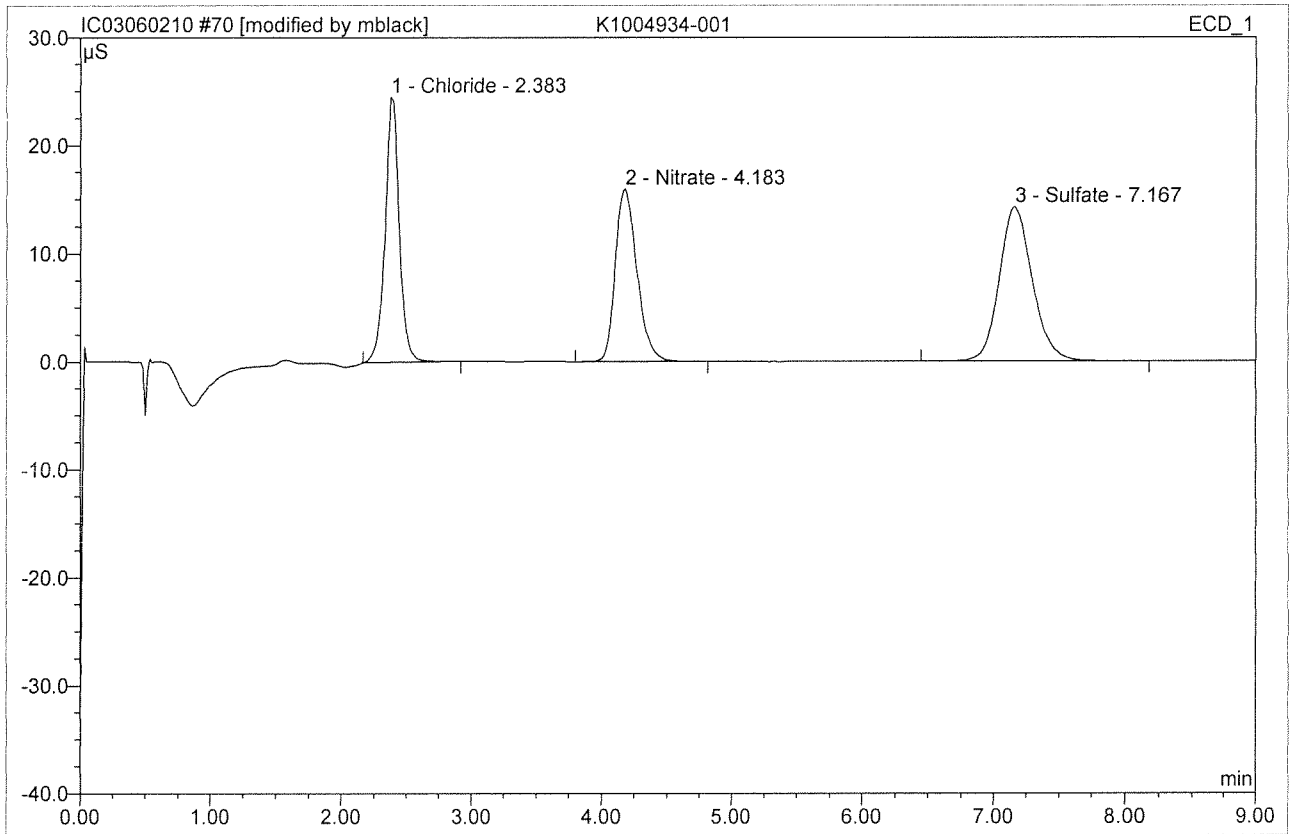
Sample Name : Laboratory Control Sample
 Lab Code : K1004934-LCS
 Test Notes :

Units : mg/L
 Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Solids, Total Dissolved	NONE	SM 2540 C	750	728	97	83-117	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

70 K1004934-001			
Sample Name:	K1004934-001	Injection Volume:	200.0
Vial Number:	68	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/2/2010 21:17	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



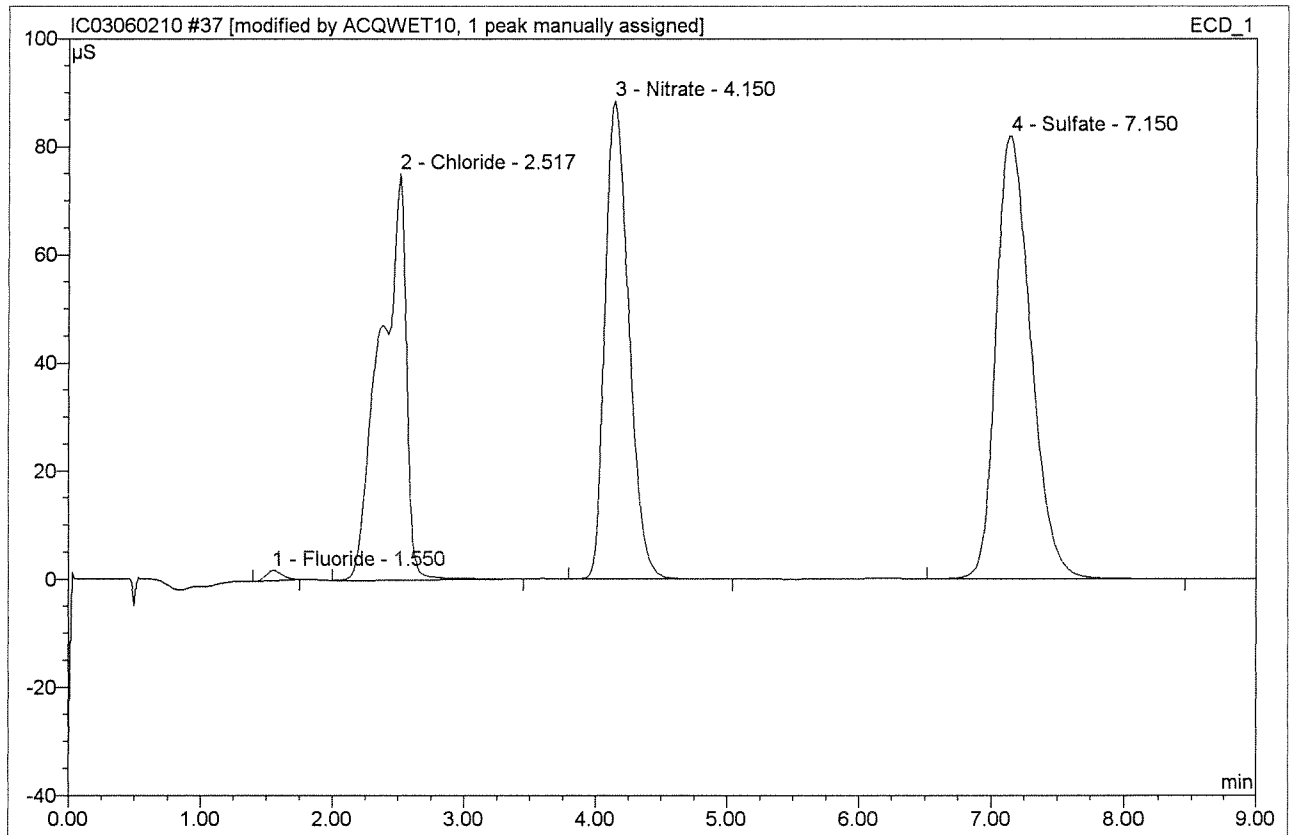
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.38	Chloride	24.520	3.116	30.13	19.981	BMB*
2	4.18	Nitrate	15.972	3.060	29.59	8.307	BMB*
3	7.17	Sulfate	14.248	4.167	40.29	42.343	BMB
Total:			54.740	10.343	100.00	70.632	

_____ MB

6/4/10

3511 0 3 2010

37 K1004934-001			
Sample Name:	K1004934-001	Injection Volume:	200.0
Vial Number:	35	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 14:59	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.55	Fluoride	1.885	0.262	0.43	0.274	BMB*
2	2.52	Chloride	75.050	17.233	28.22	22.101	BMB*^
3	4.15	Nitrate	88.381	18.612	30.48	10.104	BMB
4	7.15	Sulfate	81.933	24.951	40.86	50.710	BMB
Total:			247.250	61.059	100.00	83.190	

After Initials MB

JUN 02 2010

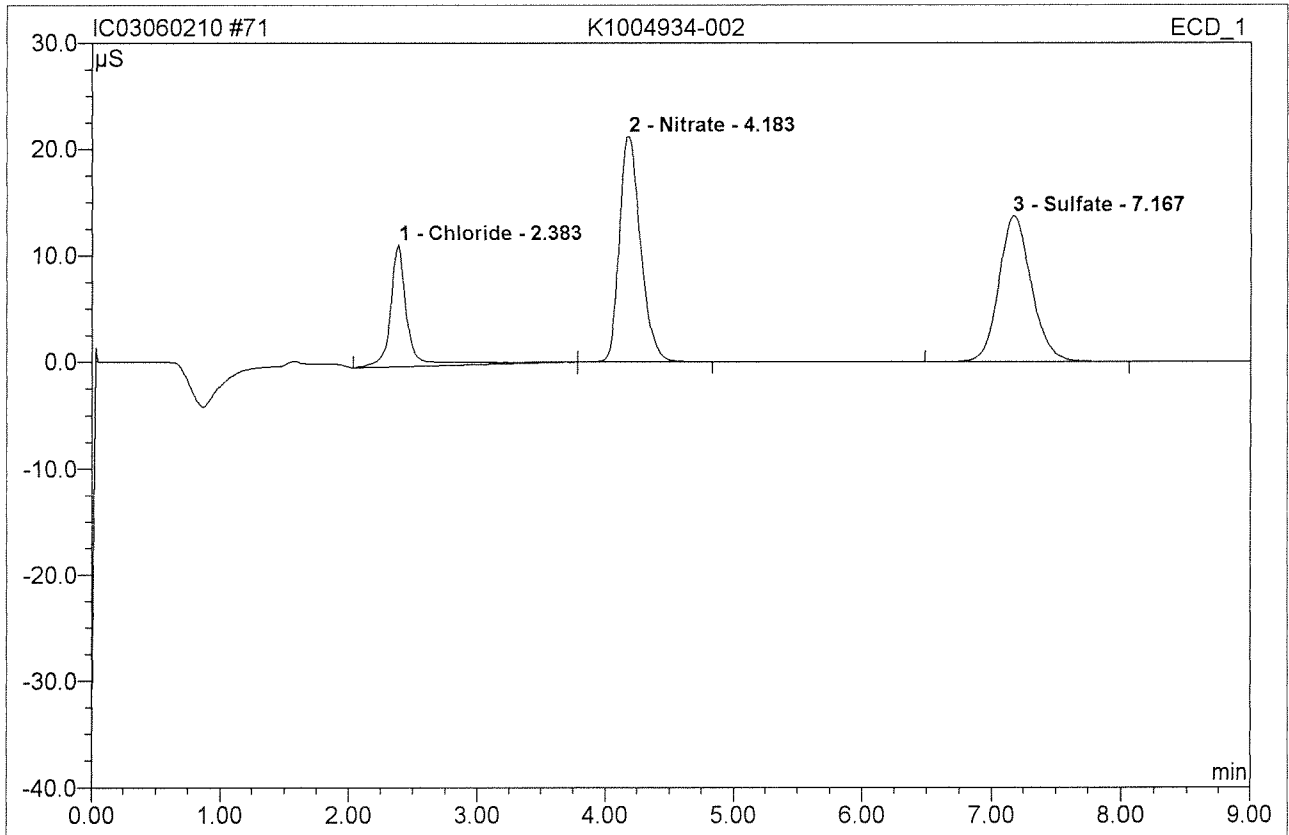
6/6/10

default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other

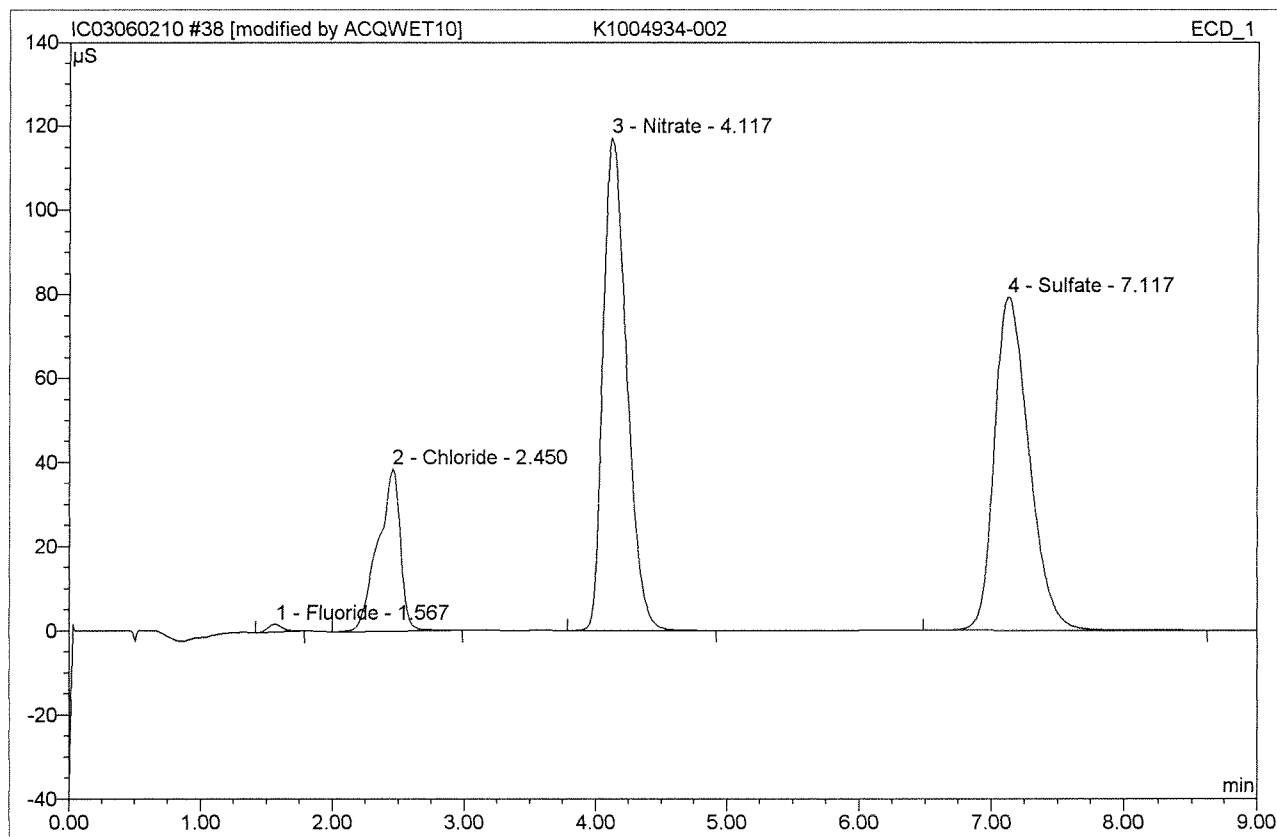
Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

71 K1004934-002			
Sample Name:	K1004934-002	Injection Volume:	200.0
Vial Number:	69	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/2/2010 21:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.38	Chloride	11.429	1.799	18.31	11.535	BMB
2	4.18	Nitrate	21.157	4.021	40.93	10.914	bMB
3	7.17	Sulfate	13.694	4.003	40.76	40.682	BMB
Total:			46.280	9.823	100.00	63.131	

38 K1004934-002			
Sample Name:	K1004934-002	Injection Volume:	200.0
Vial Number:	36	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 15:10	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.57	Fluoride	1.815	0.244	0.43	0.255	BMB*
2	2.45	Chloride	38.598	7.622	13.53	9.775	BMB*
3	4.12	Nitrate	117.110	24.423	43.36	13.259	BMB
4	7.12	Sulfate	79.286	24.043	42.68	48.864	BMB
Total:			236.809	56.332	100.00	72.152	

After Initials

MB

6/4/10

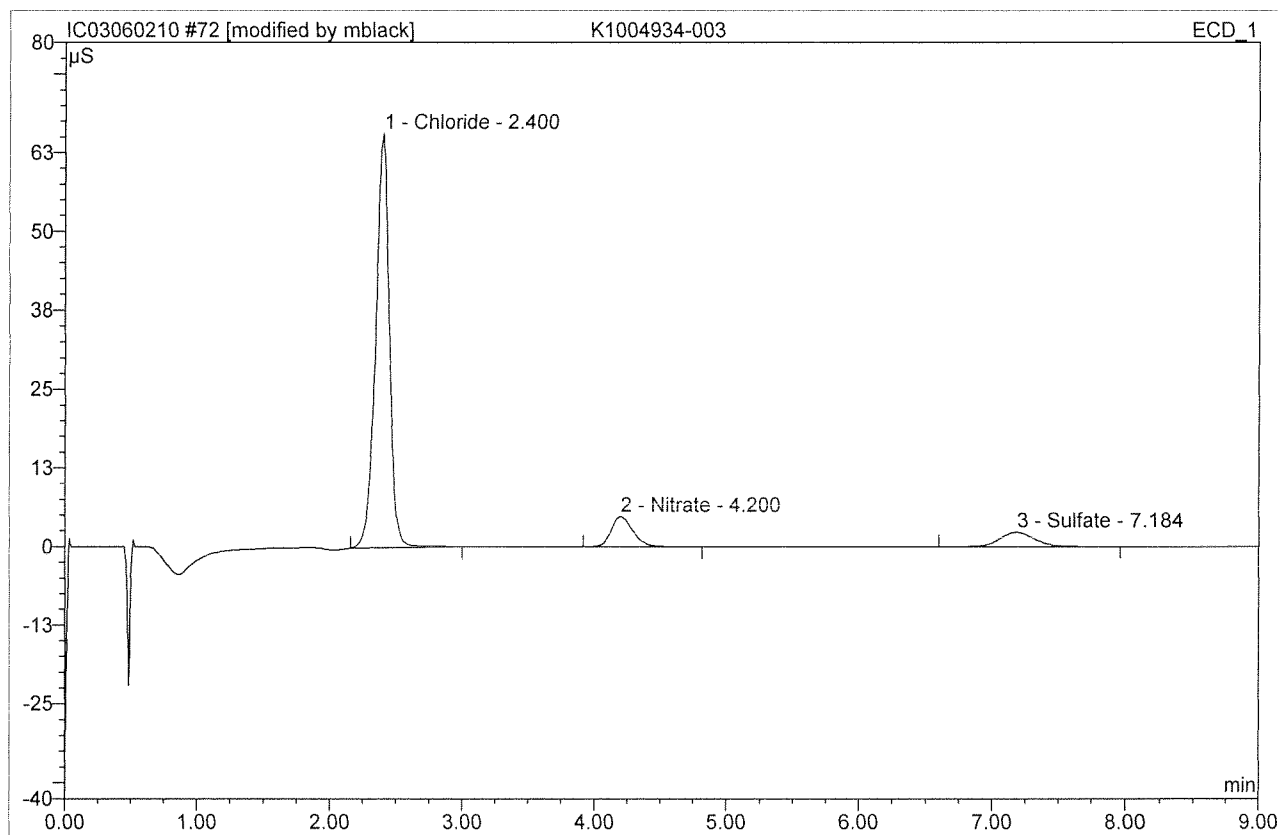
JUN 02 2010

default/Integration

Wrong Peak/Peak not found
 Baseline/shoulder incorrect
 Other: _____

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

72 K1004934-003			
Sample Name:	K1004934-003	Injection Volume:	200.0
Vial Number:	70	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	50.0000
Recording Time:	6/2/2010 21:40	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.40	Chloride	65.759	7.865	83.12	252.161	BMB*
2	4.20	Nitrate	4.771	0.902	9.53	12.245	BMB*
3	7.18	Sulfate	2.295	0.695	7.34	35.310	BMB
Total:			72.825	9.462	100.00	299.715	

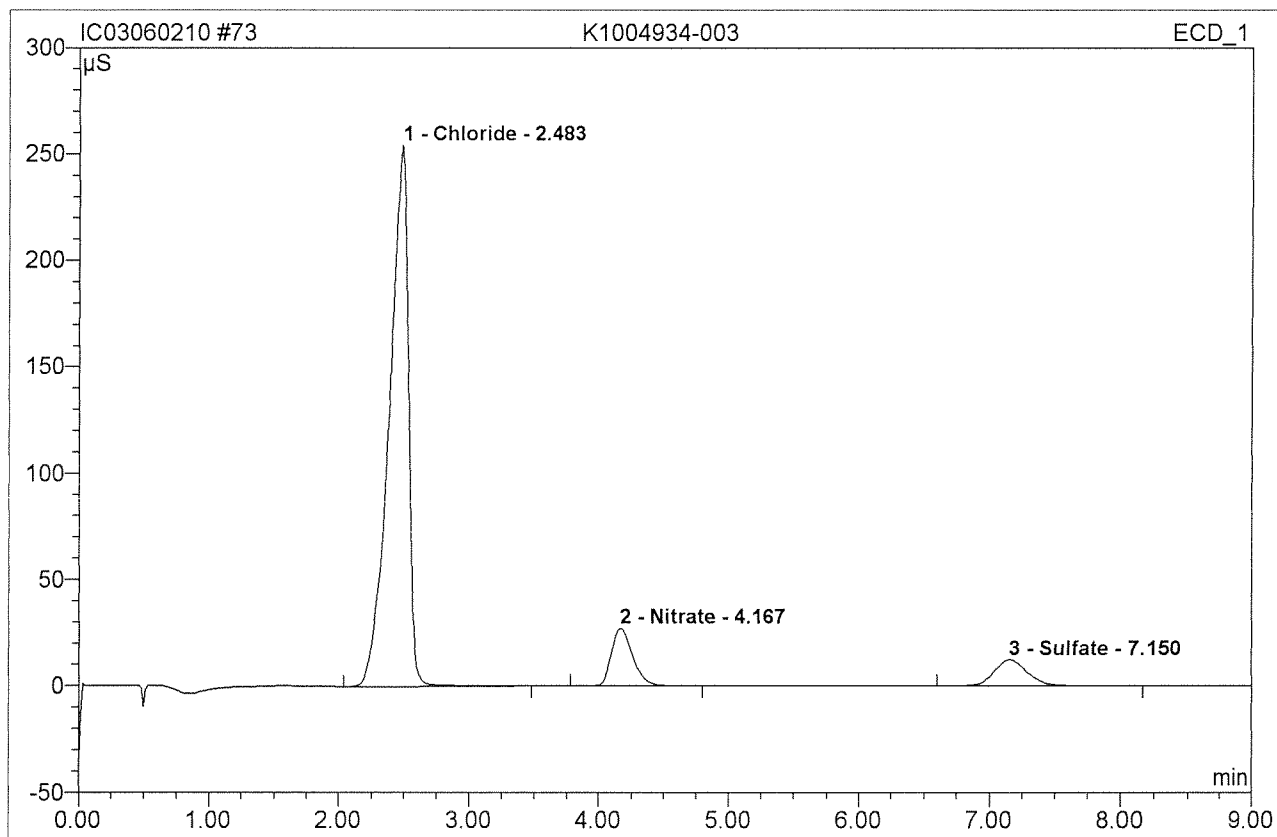
After
Initials

MB

6/4/10

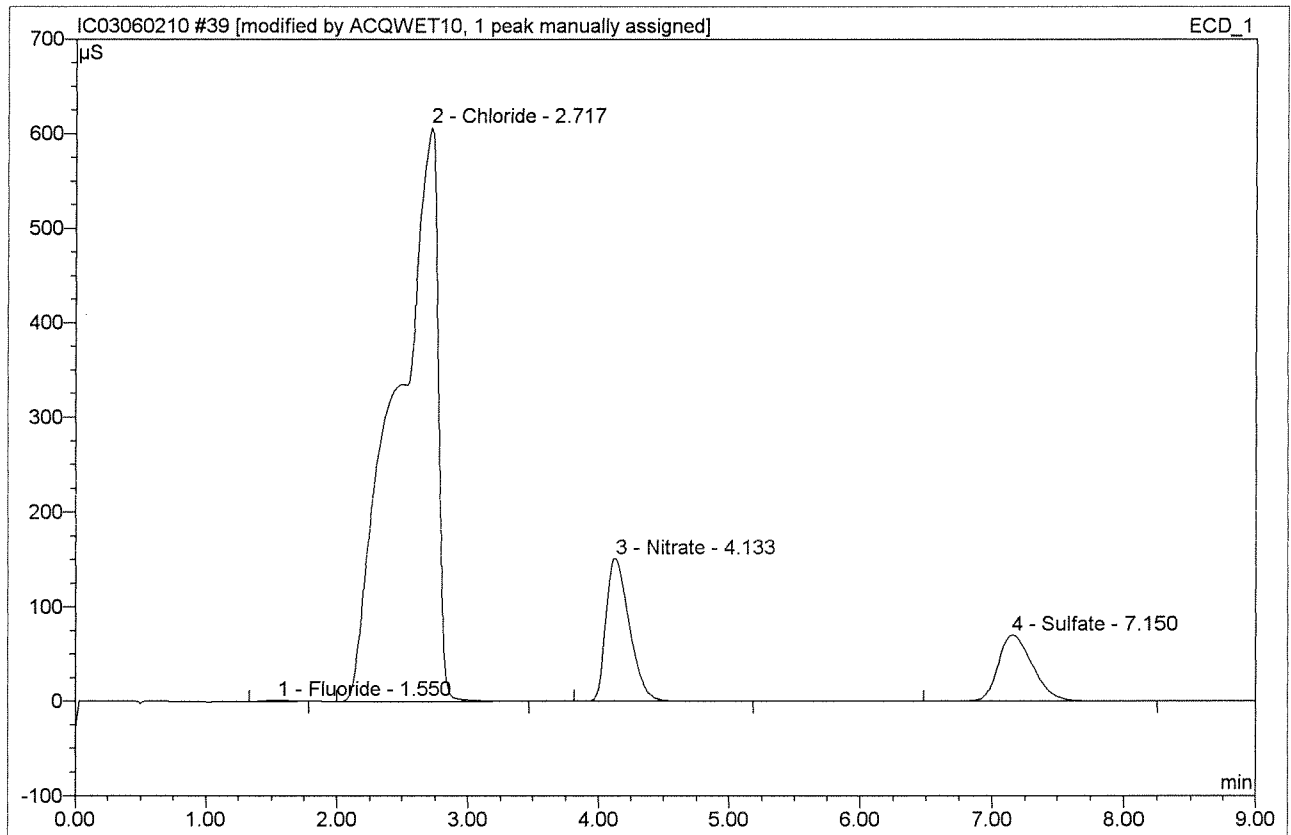
JUN 03 2010

73 K1004934-003			
Sample Name:	K1004934-003	Injection Volume:	200.0
Vial Number:	71	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/2/2010 21:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.48	Chloride	254.325	43.480	83.28	278.802	BMB
2	4.17	Nitrate	27.191	5.117	9.80	13.891	BMB
3	7.15	Sulfate	12.254	3.613	6.92	36.716	BMB
Total:			293.770	52.211	100.00	329.408	

39 K1004934-003			
Sample Name:	K1004934-003	Injection Volume:	200.0
Vial Number:	37	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 15:22	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.55	Fluoride	1.214	0.235	0.09	0.246	BMB*
2	2.72	Chloride	606.014	221.912	80.72	284.586	BMB^
3	4.13	Nitrate	150.955	31.348	11.40	17.019	BMB
4	7.15	Sulfate	70.225	21.406	7.79	43.505	BMB
Total:			828.409	274.901	100.00	345.356	

After Initials MB

6/4/10

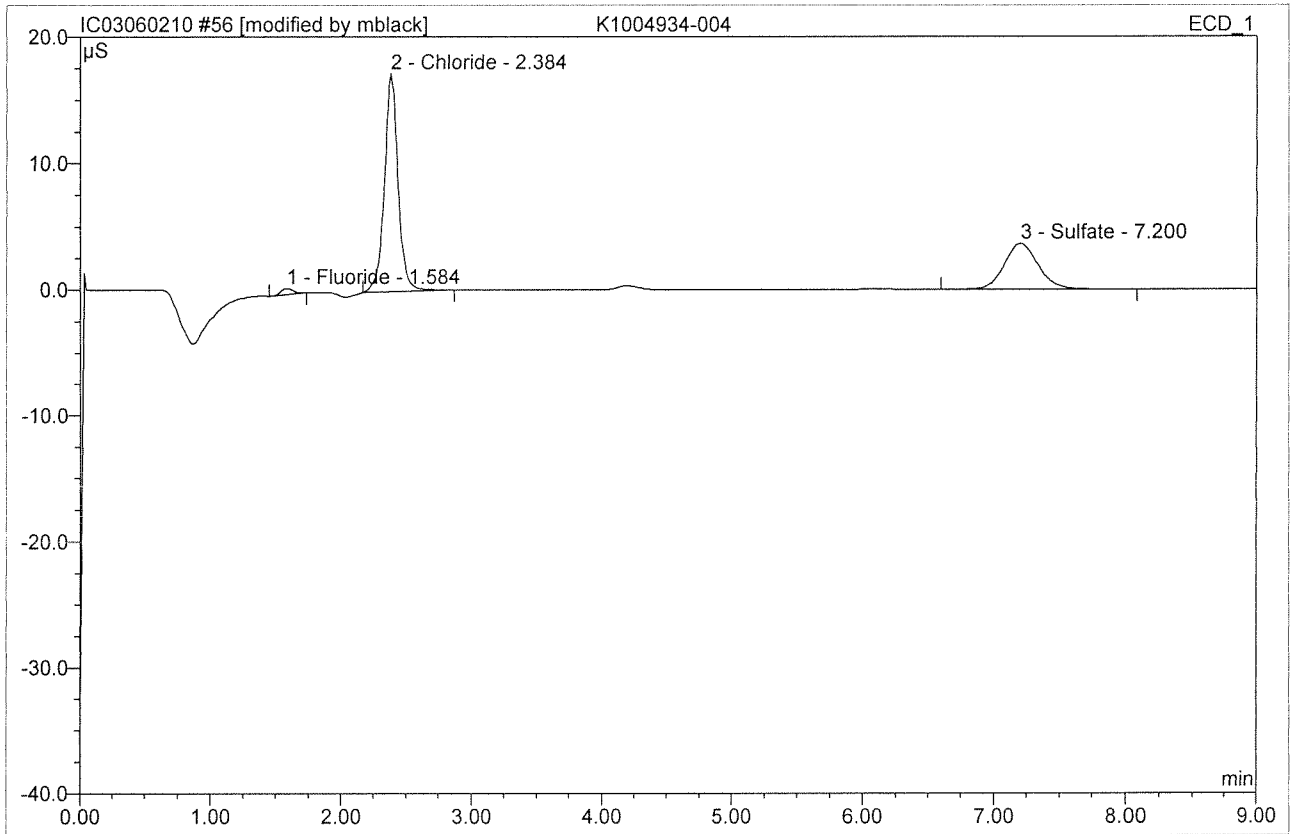
JUN 02 2010

default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

56 K1004934-004			
Sample Name:	K1004934-004	Injection Volume:	200.0
Vial Number:	54	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 18:37	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.58	Fluoride	0.492	0.053	1.65	0.056	BMB*
2	2.38	Chloride	17.240	2.094	64.83	2.686	BMB*
3	7.20	Sulfate	3.618	1.083	33.52	2.201	BMB
Total:			21.350	3.231	100.00	4.943	

APR 10 10:10 AM

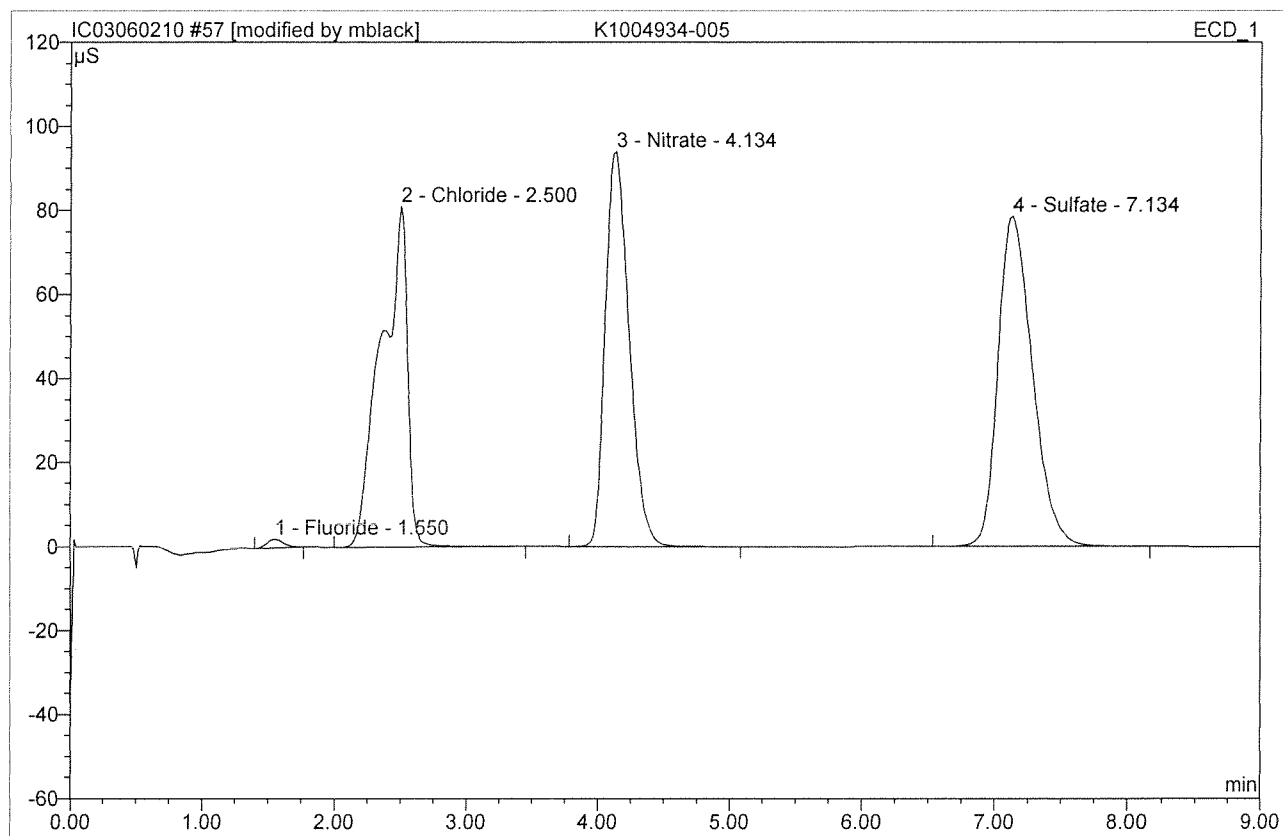
MB

JUN 03 2010

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57 K1004934-005			
Sample Name:	K1004934-005	Injection Volume:	200.0
Vial Number:	55	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 18:48	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

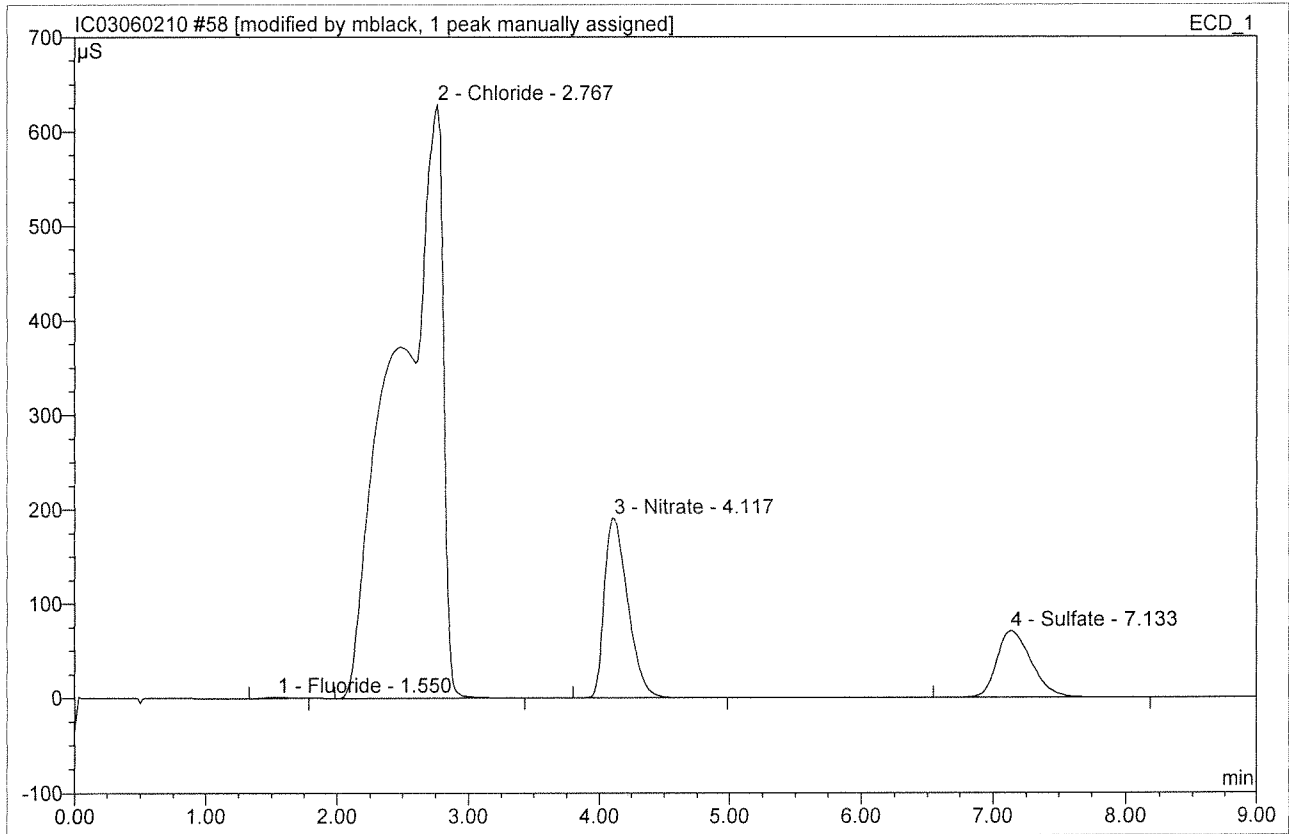


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.55	Fluoride	2.049	0.293	0.47	0.306	BMB*
2	2.50	Chloride	81.137	18.829	30.02	24.147	BMB
3	4.13	Nitrate	93.956	19.815	31.59	10.757	BMB
4	7.13	Sulfate	78.611	23.790	37.93	48.349	BMB
Total:			255.754	62.726	100.00	83.560	

After
 Initials: MB
 JUN 03 2010
 Date: _____
 Signature: _____

MB 6/4/10

58 K1004934-006			
Sample Name:	K1004934-006	Injection Volume:	200.0
Vial Number:	56	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 18:59	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



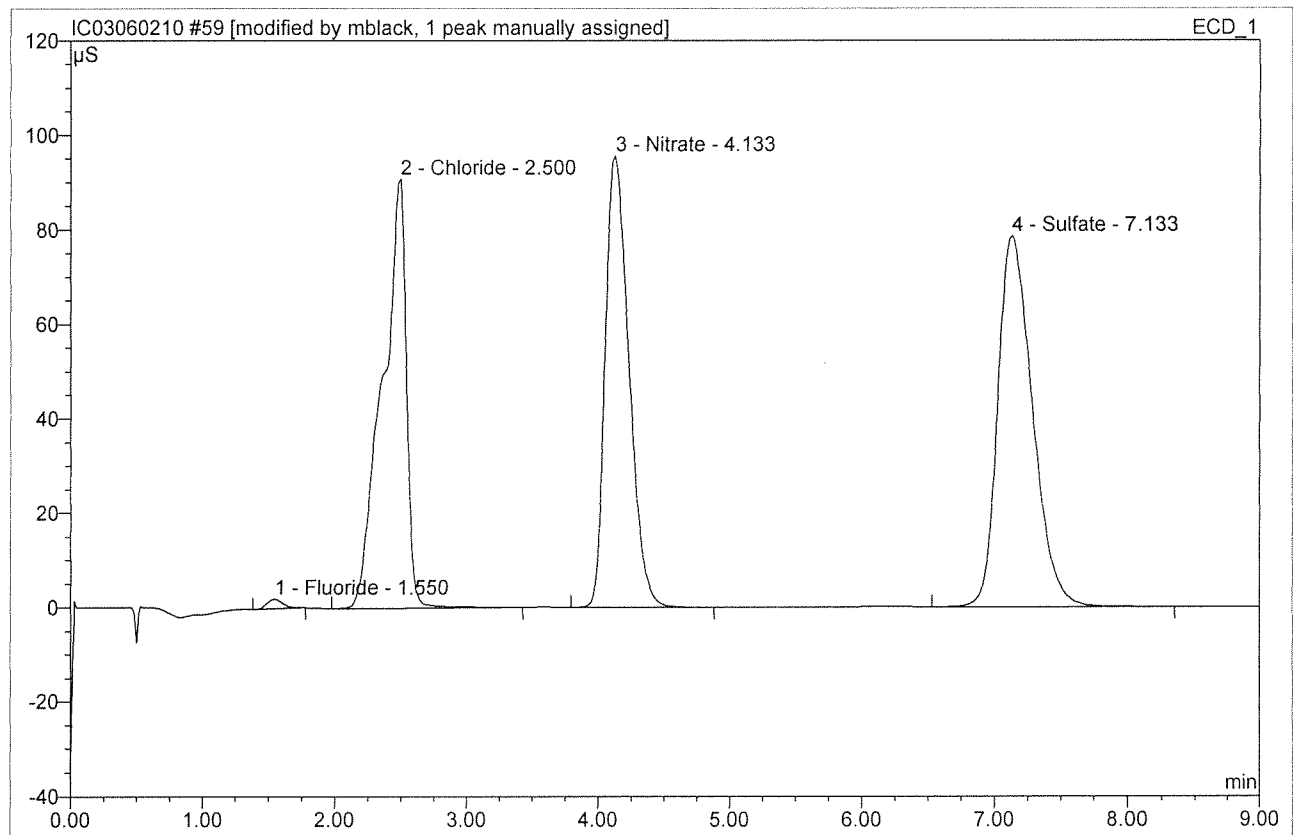
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.55	Fluoride	1.119	0.234	0.07	0.244	BMB*
2	2.77	Chloride	628.665	255.554	80.69	327.730	BMB*^
3	4.12	Nitrate	190.522	39.580	12.50	21.488	BMB
4	7.13	Sulfate	70.713	21.351	6.74	43.393	BMB
Total:			891.019	316.719	100.00	392.856	

MB

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JUN 03 2010

59 K1004934-007			
Sample Name:	K1004934-007	Injection Volume:	200.0
Vial Number:	57	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 19:11	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.55	Fluoride	2.053	0.294	0.47	0.307	BMB*
2	2.50	Chloride	90.760	19.107	30.26	24.503	BMB^
3	4.13	Nitrate	95.516	19.962	31.61	10.837	BMB
4	7.13	Sulfate	78.574	23.780	37.66	48.330	BMB
Total:			266.902	63.142	100.00	83.977	

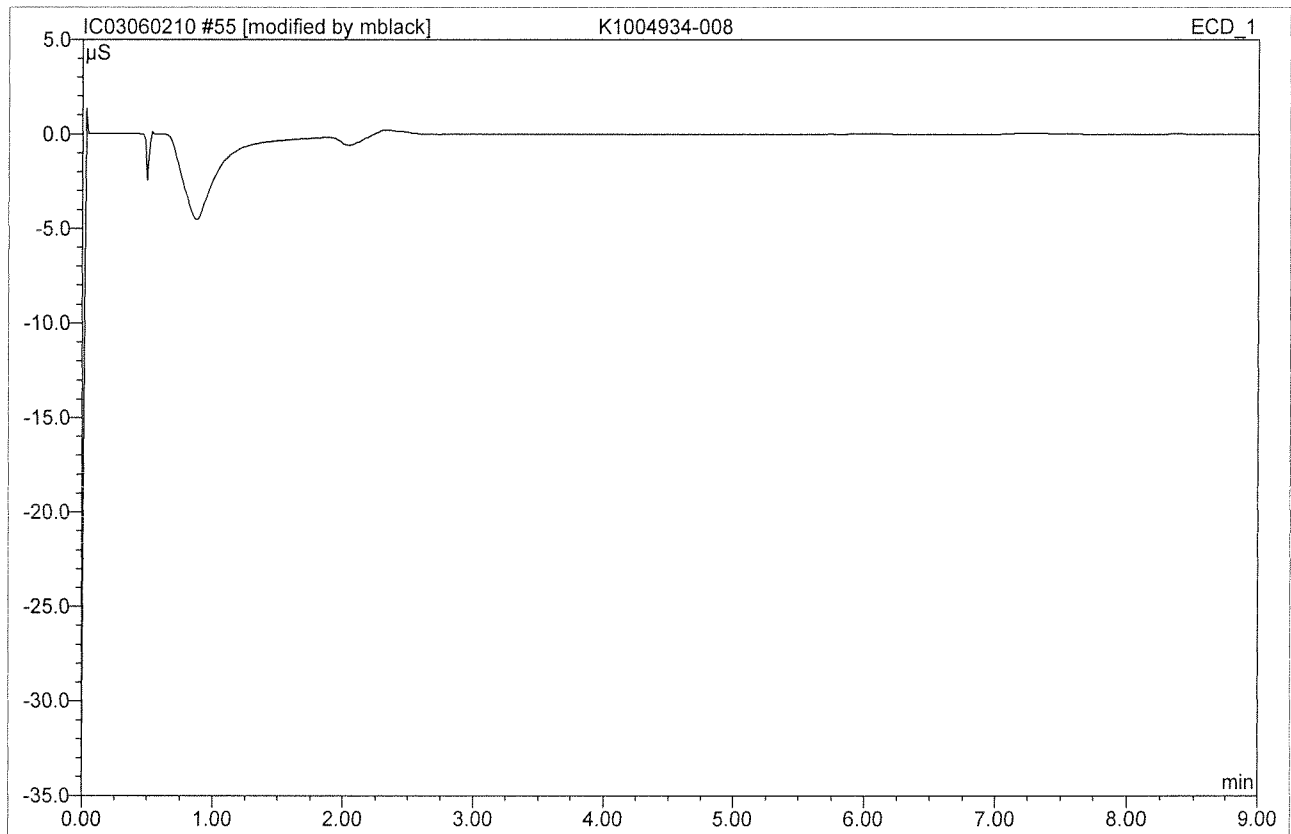
APR 3 2010

MB

6/4/10

2010 03 2010

55 K1004934-008			
Sample Name:	K1004934-008	Injection Volume:	200.0
Vial Number:	53	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 18:25	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



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

Fluoride = ND < 0.003
 Chloride = ND < 0.03
 Sulfate = ND < 0.01

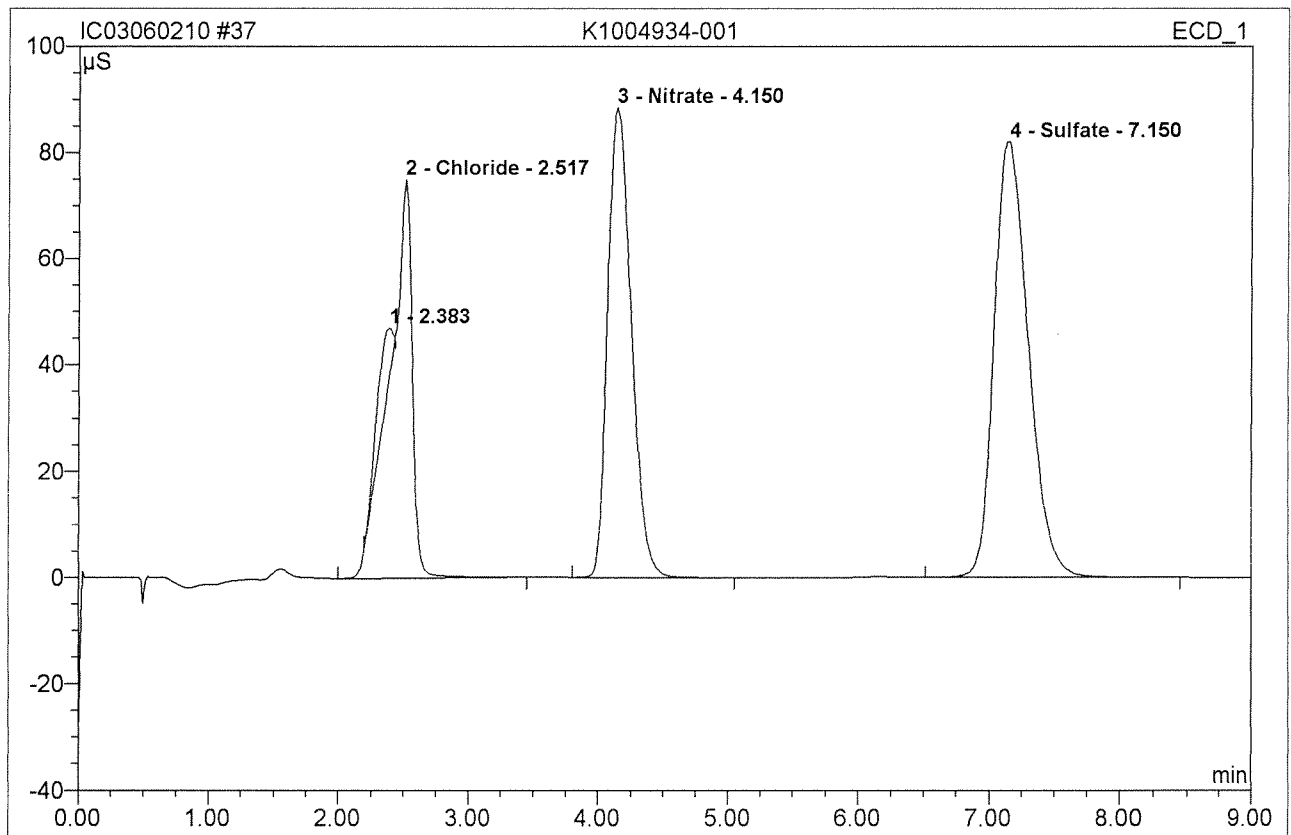
ANter
Initials

(Handwritten initials)

JUN 03 2010

(Handwritten date) 6/4/10

37 K1004934-001			
Sample Name:	K1004934-001	Injection Volume:	200.0
Vial Number:	35	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 14:59	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

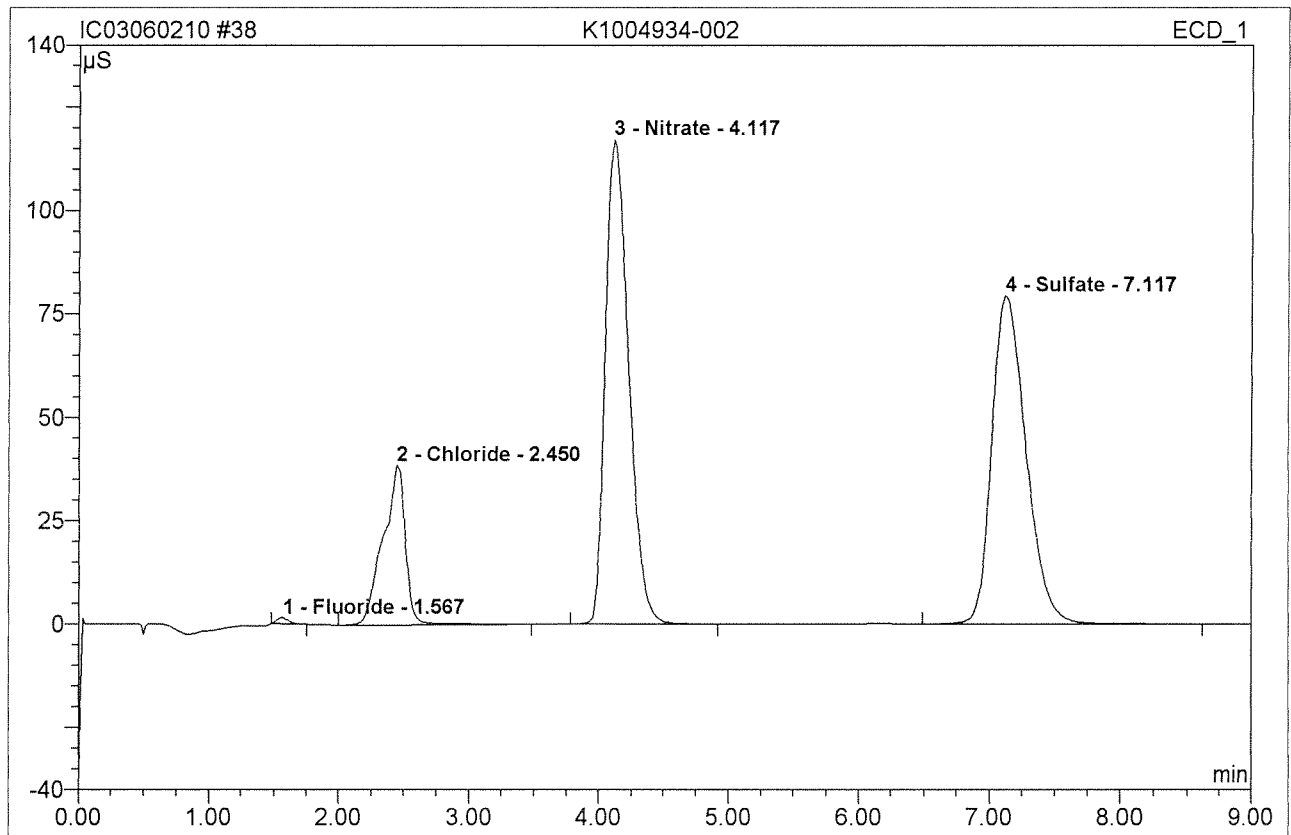


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.38	n.a.	10.158	1.762	2.90	n.a.	Ru
2	2.52	Chloride	75.050	15.471	25.45	19.841	BMB
3	4.15	Nitrate	88.381	18.612	30.61	10.104	BMB
4	7.15	Sulfate	81.933	24.951	41.04	50.710	BMB
Total:			255.522	60.797	100.00	80.655	

Before

JUN 02 2010

38 K1004934-002			
Sample Name:	K1004934-002	Injection Volume:	200.0
Vial Number:	36	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 15:10	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

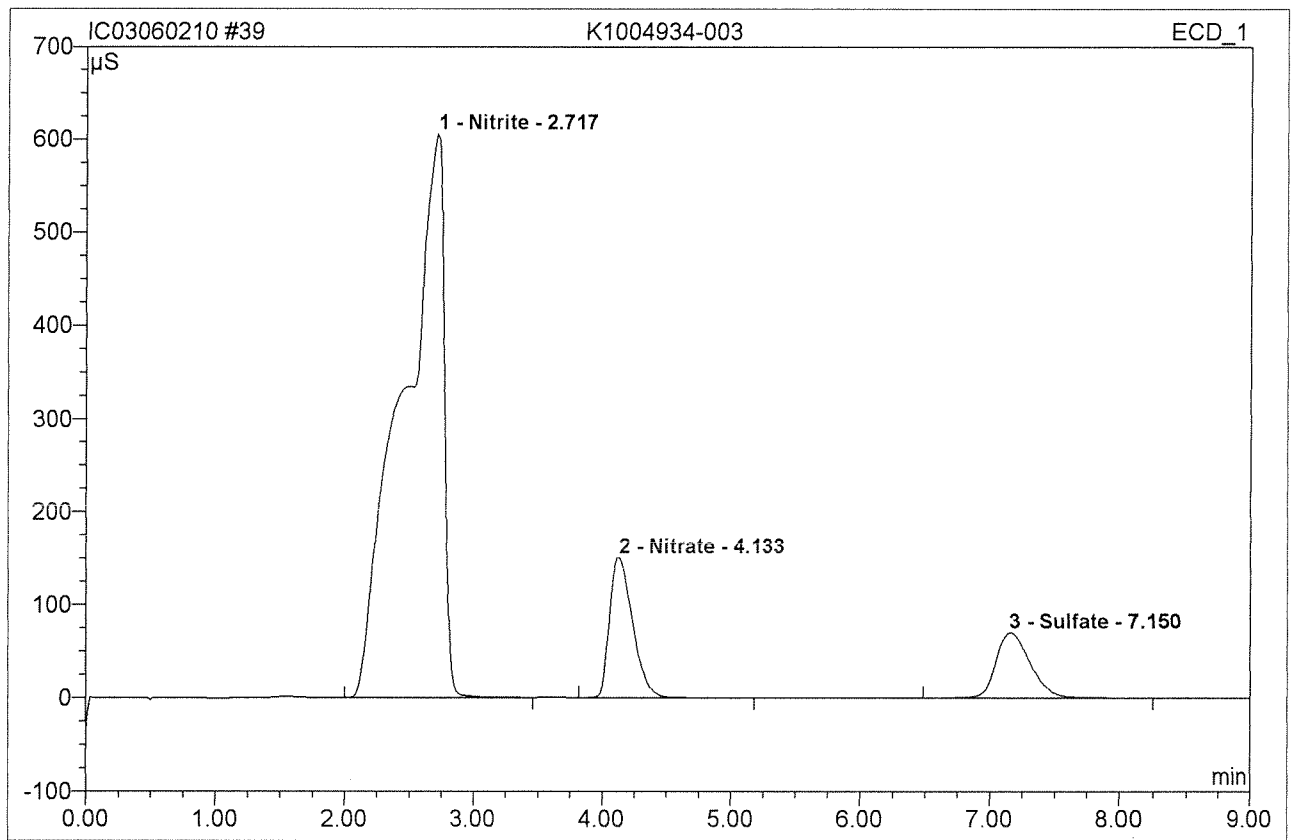


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.57	Fluoride	1.443	0.158	0.28	0.165	BMB
2	2.45	Chloride	38.676	7.740	13.73	9.926	BMB
3	4.12	Nitrate	117.110	24.423	43.33	13.259	BMB
4	7.12	Sulfate	79.286	24.043	42.66	48.864	BMB
Total:			236.515	56.364	100.00	72.214	

Before

JUN 02 2010

39 K1004934-003			
Sample Name:	K1004934-003	Injection Volume:	200.0
Vial Number:	37	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 15:22	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

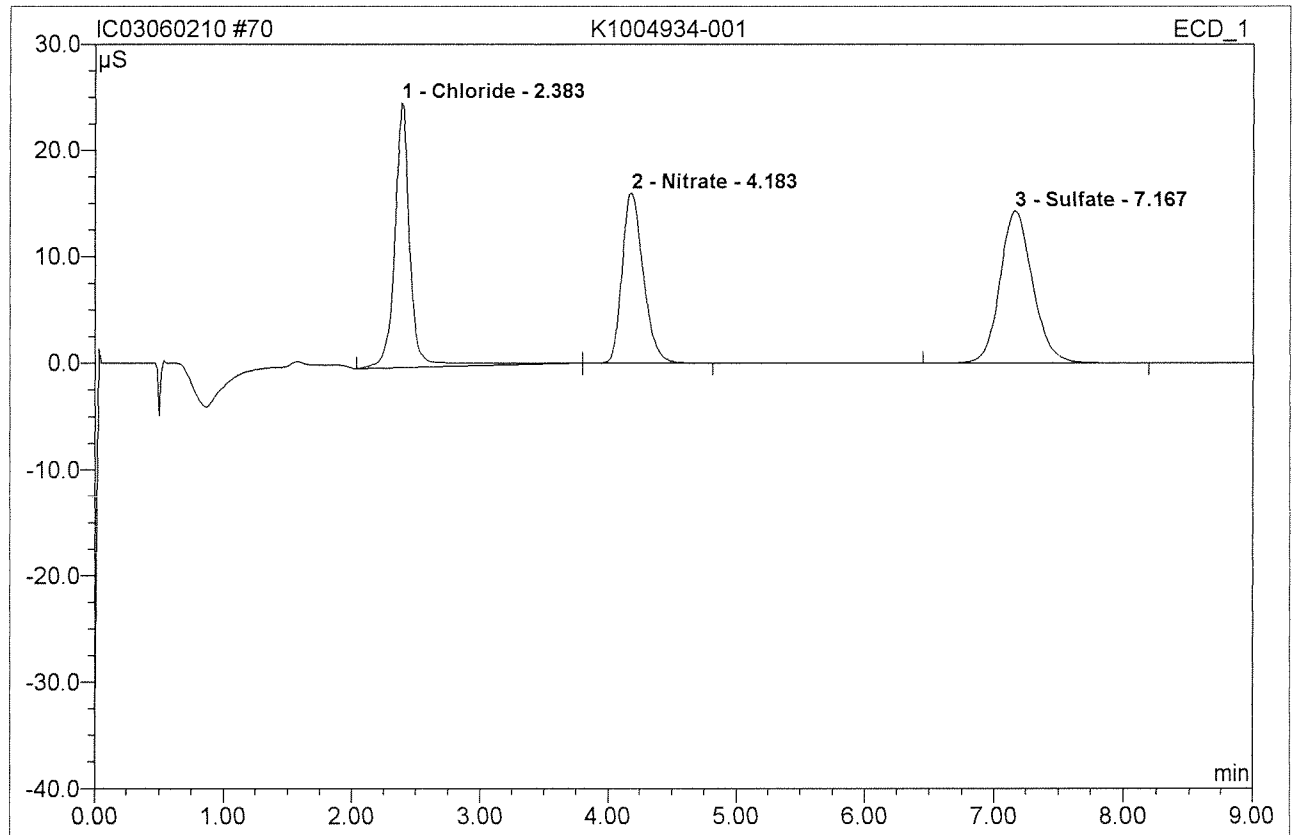


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.72	Nitrite	606.014	221.912	80.79	153.714	BMB
2	4.13	Nitrate	150.955	31.348	11.41	17.019	BMB
3	7.15	Sulfate	70.225	21.406	7.79	43.505	BMB
Total:			827.194	274.666	100.00	214.238	

Before

JUN 02 2010

70 K1004934-001			
Sample Name:	K1004934-001	Injection Volume:	200.0
Vial Number:	68	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/2/2010 21:17	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



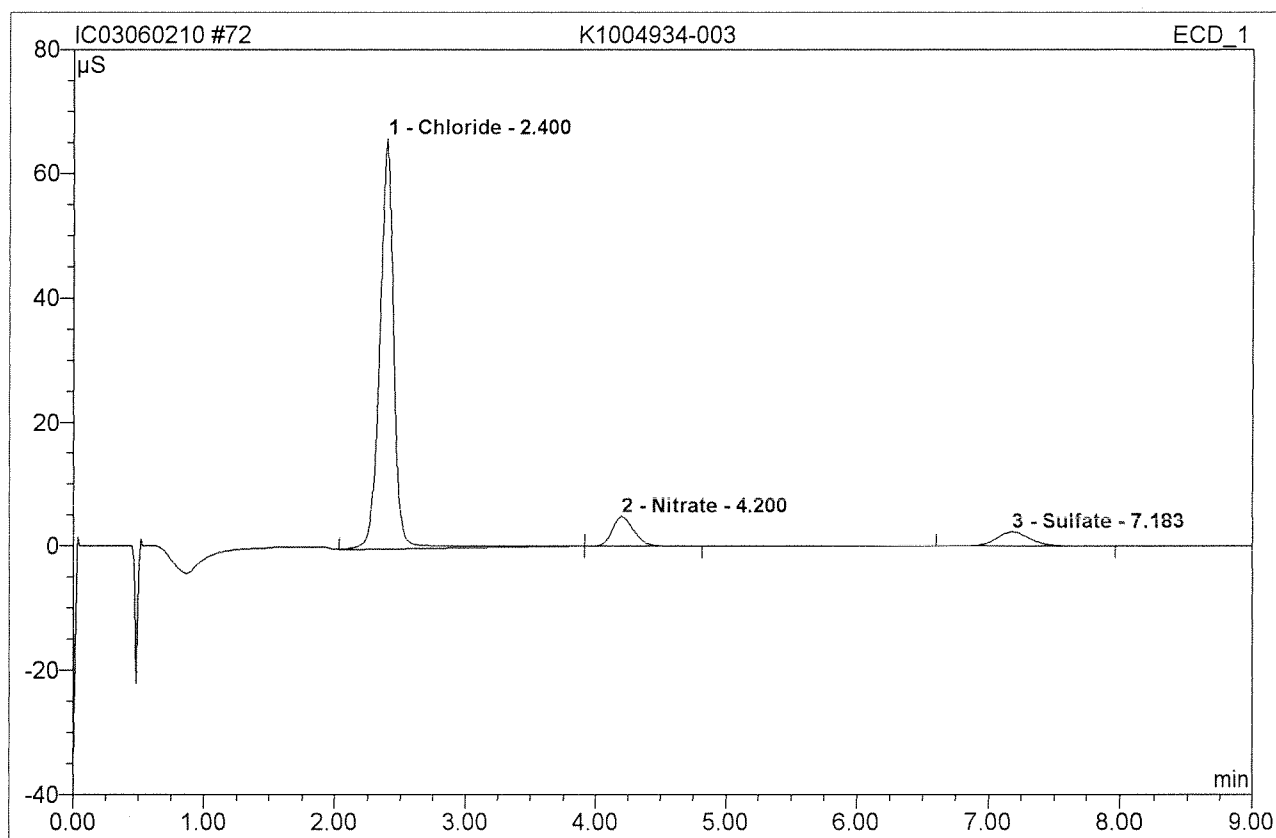
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.38	Chloride	24.850	3.491	32.57	22.384	BMB
2	4.18	Nitrate	15.972	3.060	28.55	8.307	bMB
3	7.17	Sulfate	14.248	4.167	38.88	42.343	BMB
Total:			55.070	10.718	100.00	73.034	

Before

JUN 03 2010

72 K1004934-003

Sample Name:	K1004934-003	Injection Volume:	200.0
Vial Number:	70	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	50.0000
Recording Time:	6/2/2010 21:40	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

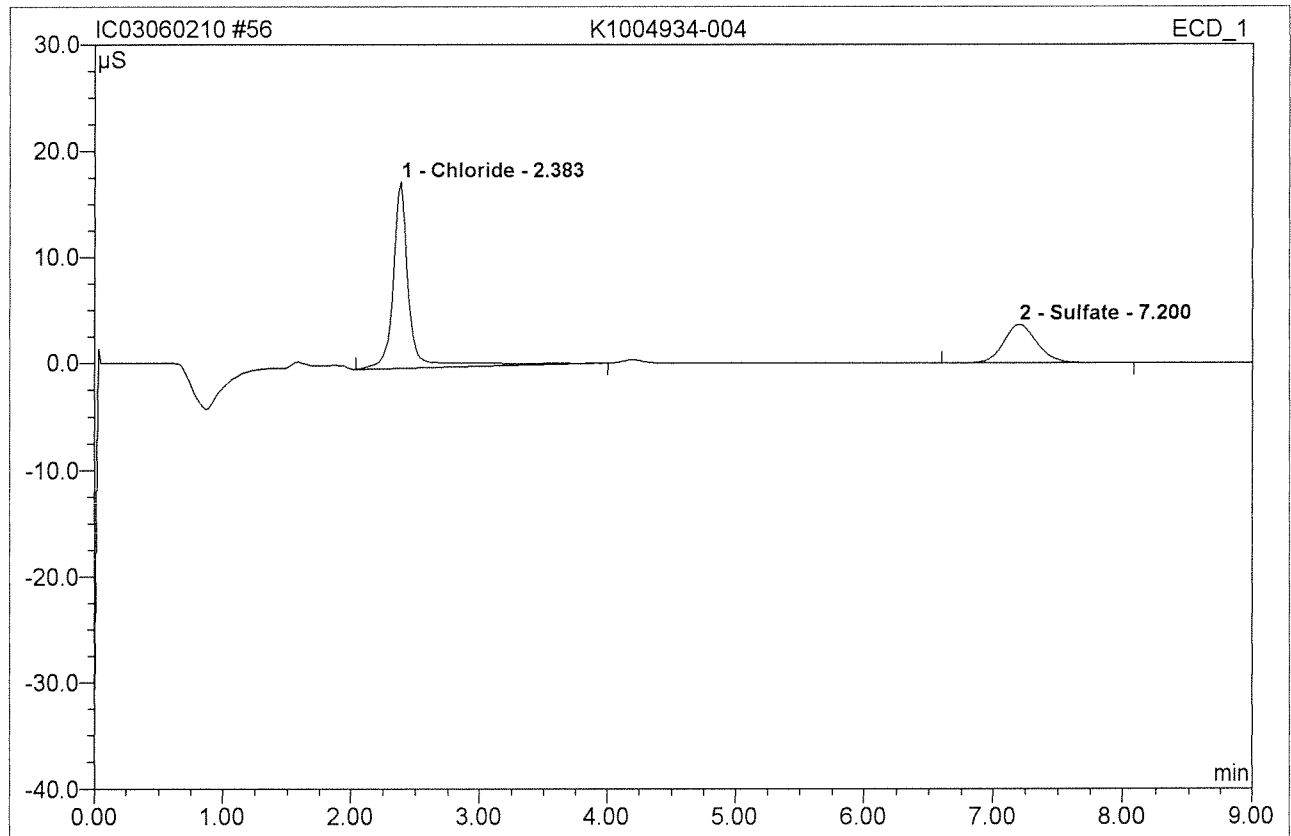


No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount	Type
1	2.40	Chloride	66.072	8.261	83.80	264.869	BMB
2	4.20	Nitrate	4.771	0.902	9.15	12.245	bMB
3	7.18	Sulfate	2.295	0.695	7.05	35.310	BMB
Total:			73.138	9.859	100.00	312.423	

Before

JUN 03 2010

56 K1004934-004			
Sample Name:	K1004934-004	Injection Volume:	200.0
Vial Number:	54	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 18:37	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

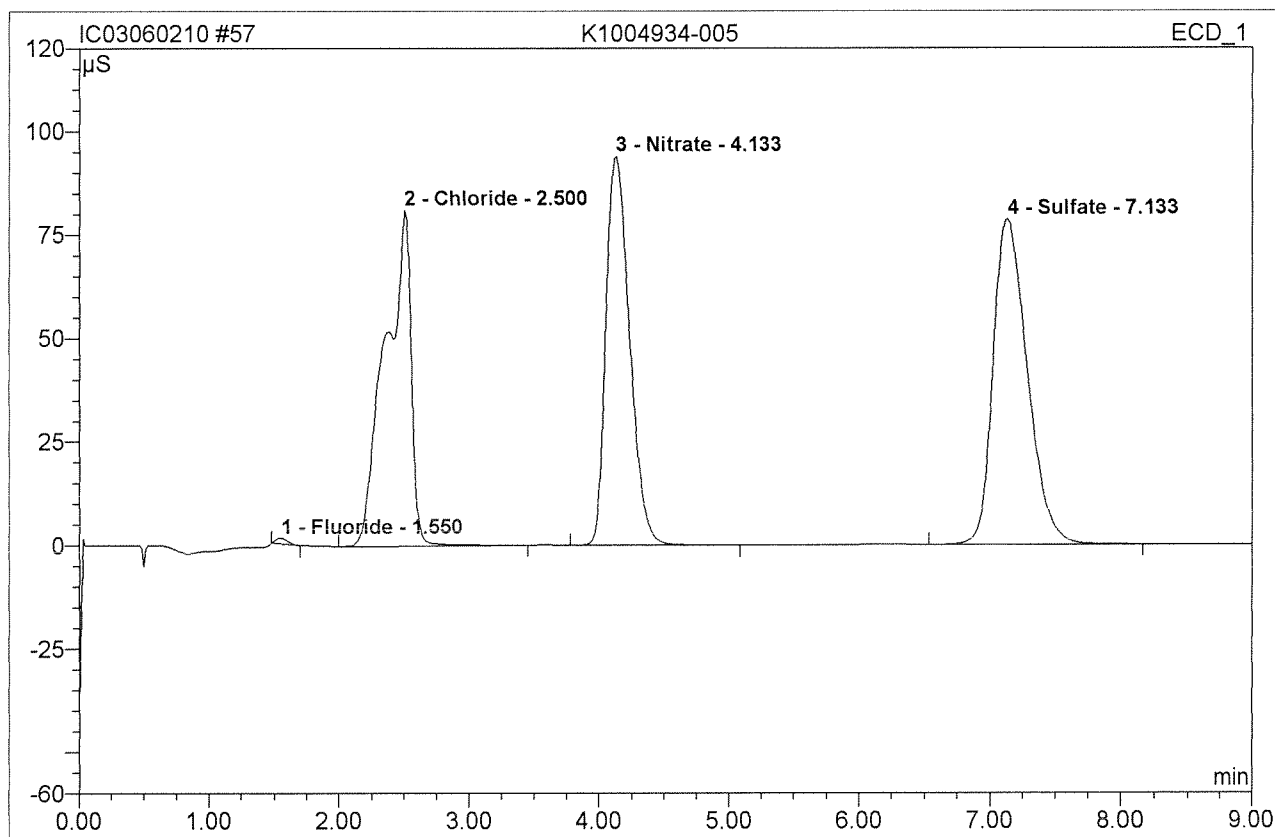


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.38	Chloride	17.590	2.537	70.08	3.253	BMB
2	7.20	Sulfate	3.618	1.083	29.92	2.201	BMB
Total:			21.208	3.620	100.00	5.454	

Before

JUN 03 2010

57 K1004934-005			
Sample Name:	K1004934-005	Injection Volume:	200.0
Vial Number:	55	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 18:48	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

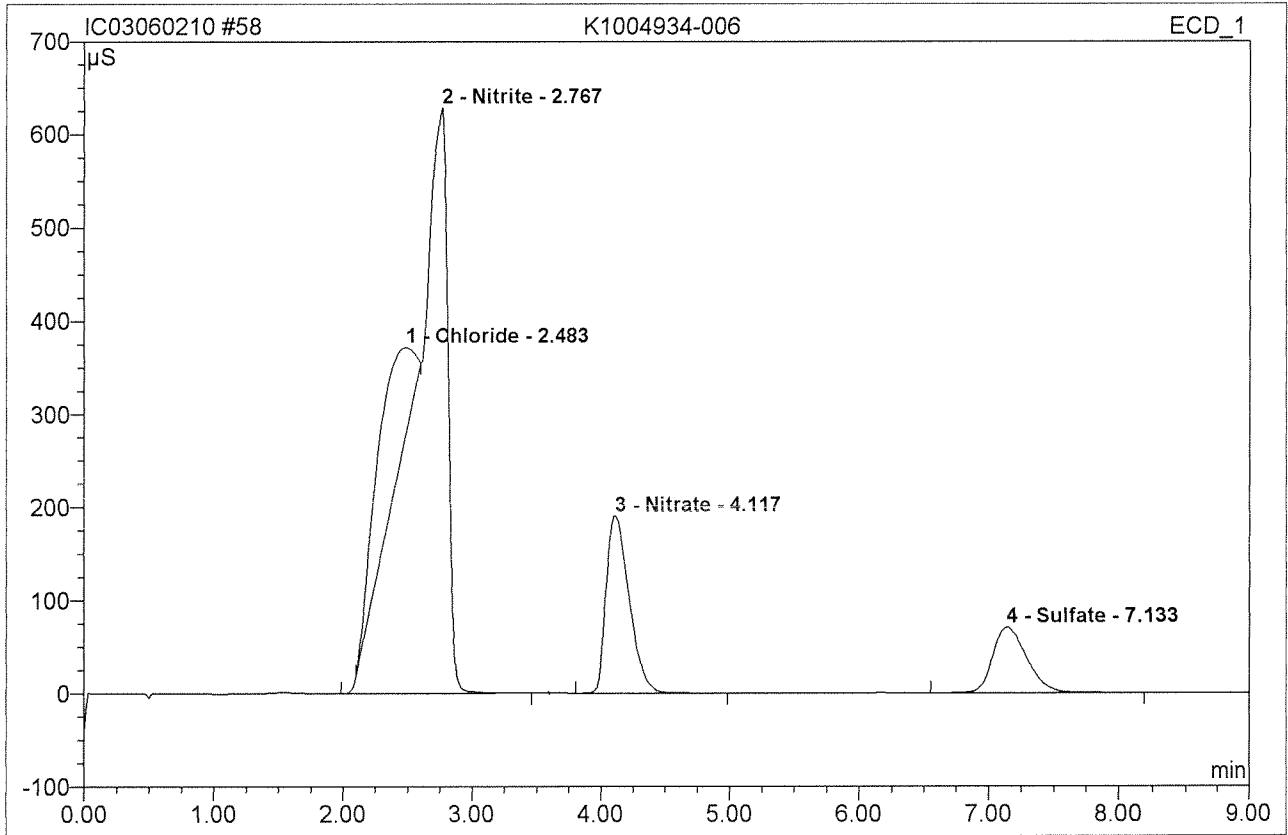


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.55	Fluoride	1.293	0.134	0.21	0.140	BMB
2	2.50	Chloride	81.137	18.829	30.09	24.147	BMB
3	4.13	Nitrate	93.956	19.815	31.67	10.757	BMB
4	7.13	Sulfate	78.611	23.790	38.02	48.349	BMB
Total:			254.998	62.567	100.00	83.393	

Before

JUN 03 2010

58 K1004934-006			
Sample Name:	K1004934-006	Injection Volume:	200.0
Vial Number:	56	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 18:59	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

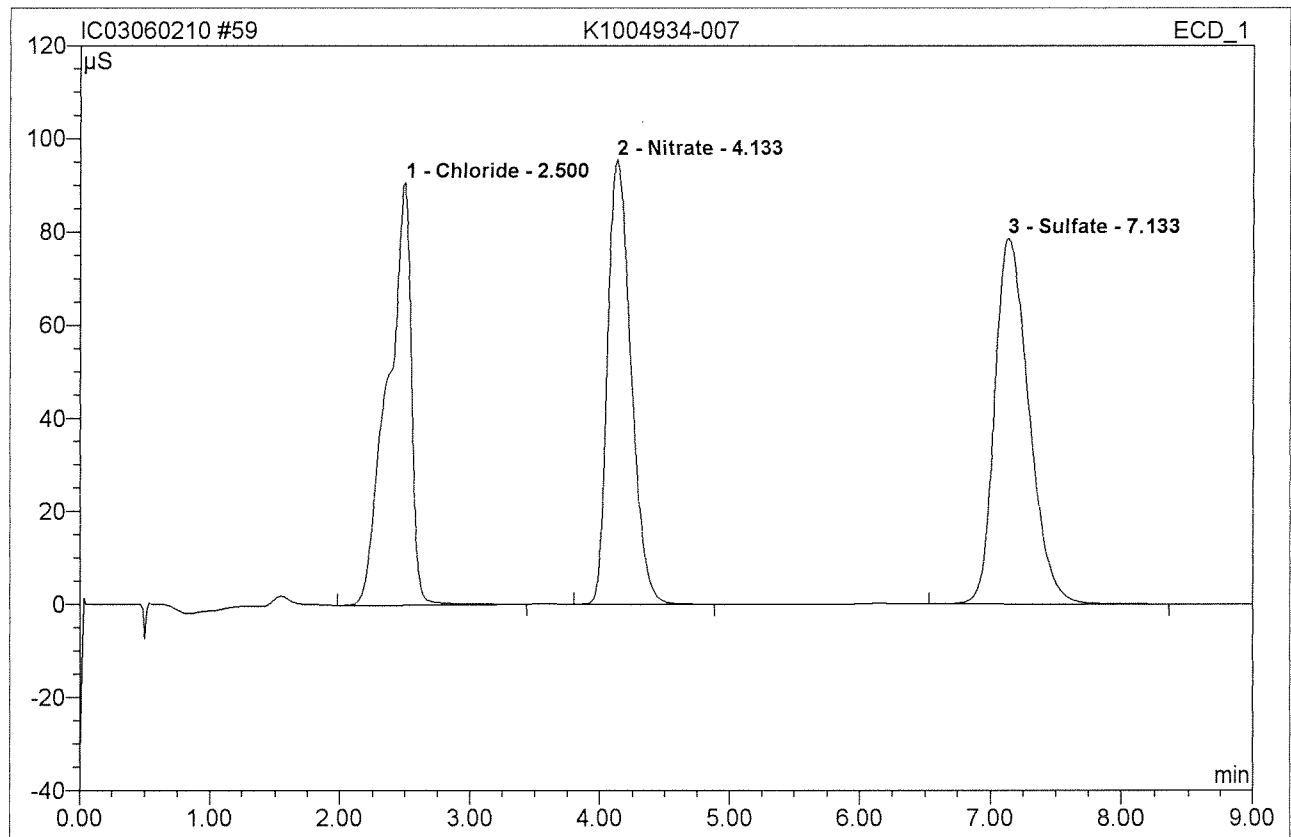


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.48	Chloride	94.961	43.600	13.78	55.914	Ru
2	2.77	Nitrite	628.672	211.963	66.97	146.823	BMB
3	4.12	Nitrate	190.522	39.580	12.51	21.488	BMB
4	7.13	Sulfate	70.713	21.351	6.75	43.393	BMB
Total:			984.867	316.495	100.00	267.618	

Before

JUN 03 2010

59 K1004934-007			
Sample Name:	K1004934-007	Injection Volume:	200.0
Vial Number:	57	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 19:11	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

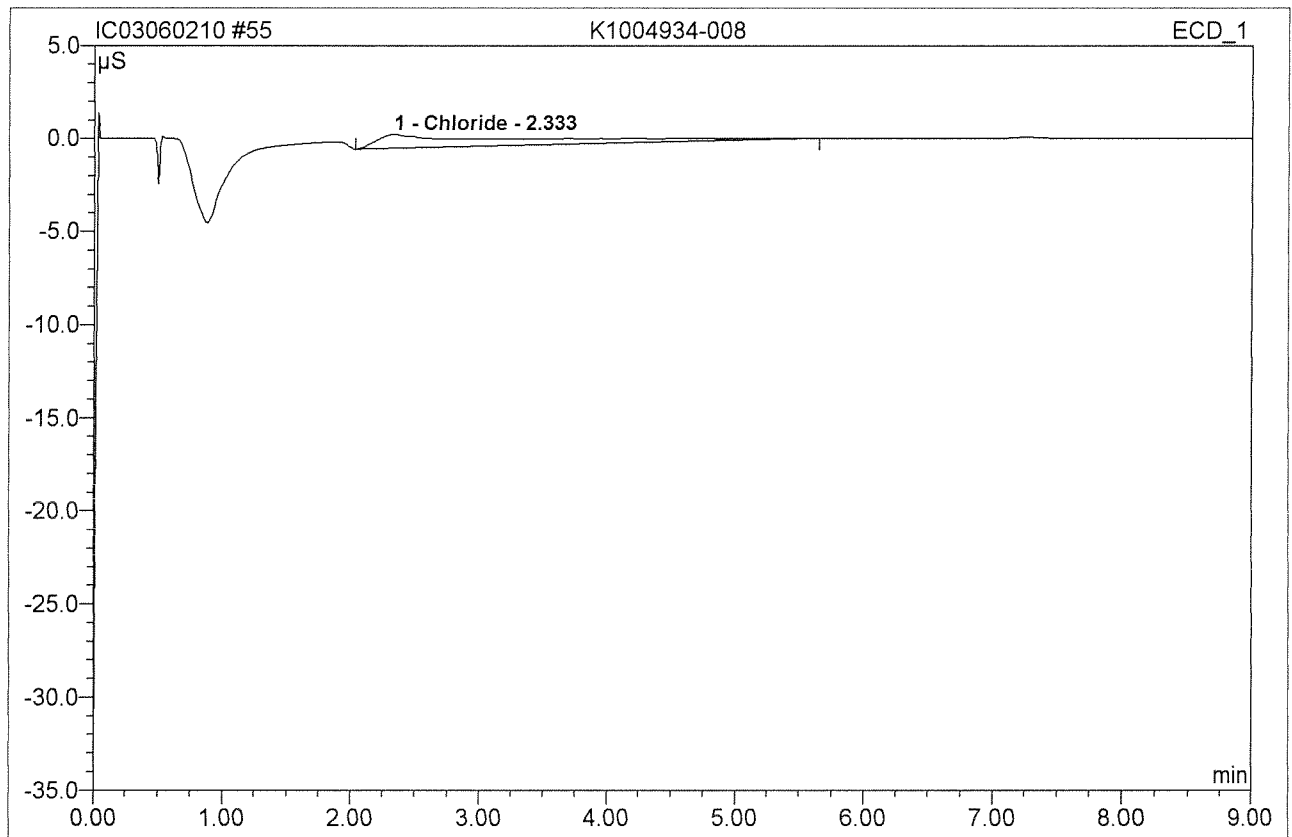


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.50	Chloride	90.760	19.107	30.40	24.503	BMB
2	4.13	Nitrate	95.516	19.962	31.76	10.837	BMB
3	7.13	Sulfate	78.574	23.780	37.84	48.330	BMB
Total:			264.850	62.848	100.00	83.670	

Before

JUN 03 2010

55 K1004934-008			
Sample Name:	K1004934-008	Injection Volume:	200.0
Vial Number:	53	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 18:25	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



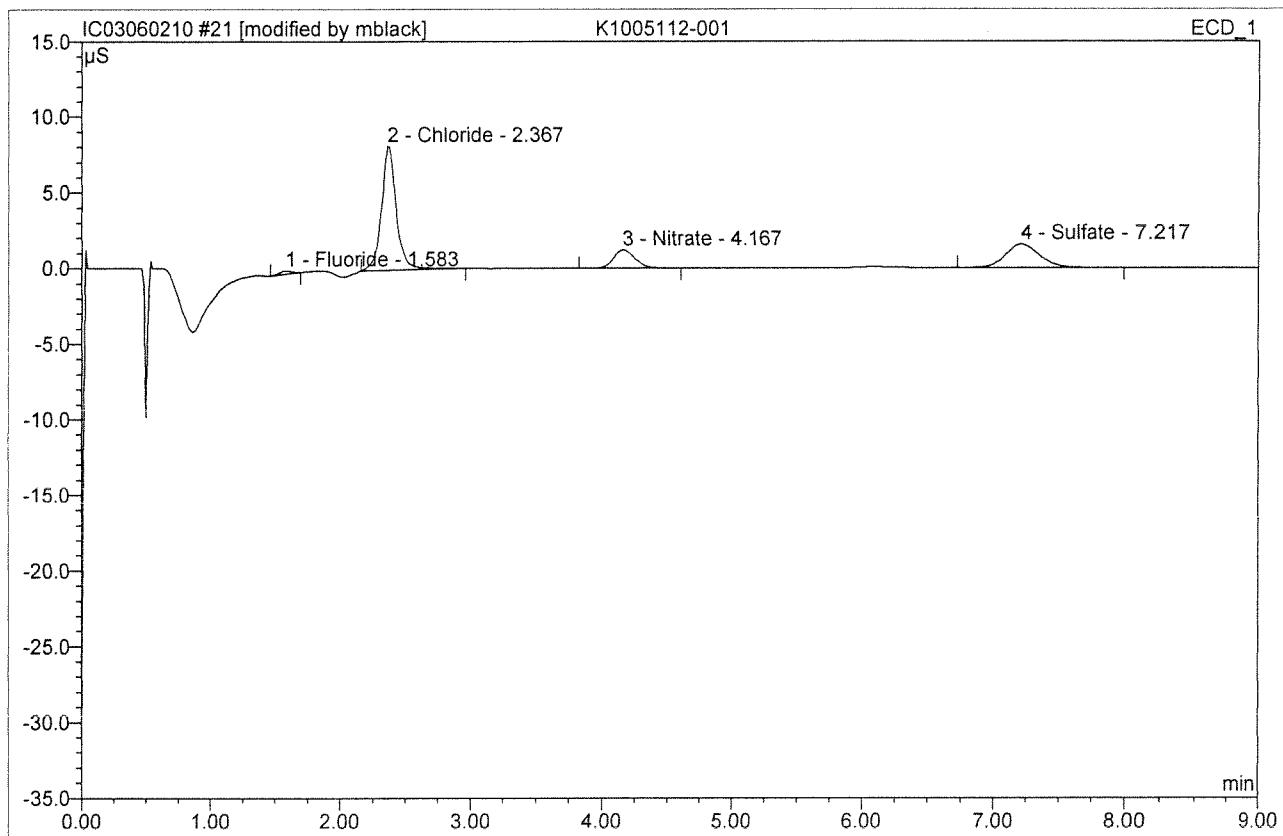
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.755	1.023	100.00	0.656	BMB
Total:			0.755	1.023	100.00	0.656	

Before

JUN 03 2010

21 K1005112-001

Sample Name:	K1005112-001	Injection Volume:	200.0
Vial Number:	19	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 11:35	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride $\bar{x} = 0.20$ $RD = 2\%$	0.211	0.022	1.21	0.023	BMB*
2	2.37	Chloride $\bar{x} = 1.38$ $RD = 3\%$	8.188	1.090	59.98	1.397	BMB*
3	4.17	Nitrate	1.217	0.230	12.66	0.125	BMB*
4	7.22	Sulfate $\bar{x} = 0.96$ $RD = 2\%$	1.579	0.475	26.15	0.965	BMB
Total:			11.195	1.817	100.00	2.510	

After Initials

MB

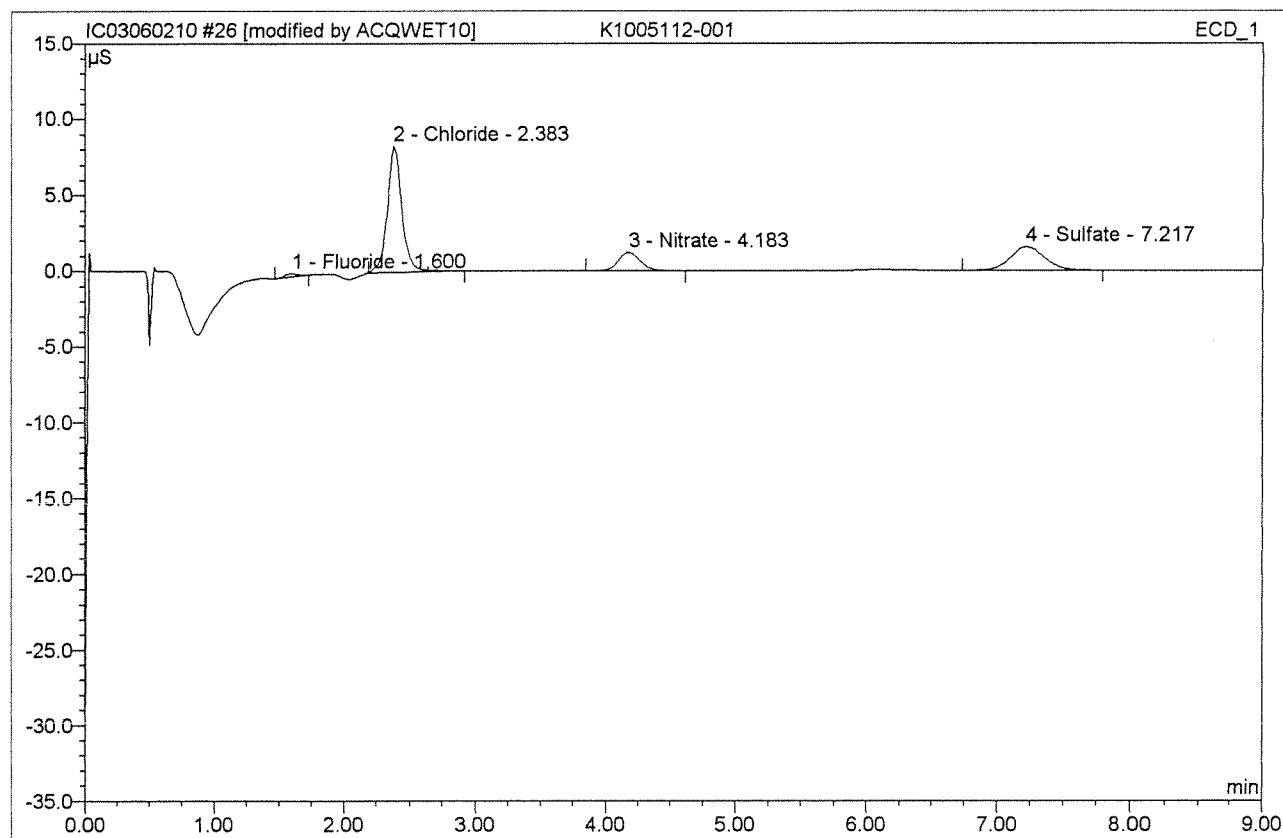
6/4/10

JUN 02 2010

Wrong Peak/Peak not found
 Shoulder incorrect

Chromeleon (c) Dionex 1996-2001
Version 6.80 SP1 Build 2238

26 K1005112-001			
5112-1D			
Sample Name:	K1005112-001	Injection Volume:	200.0
Vial Number:	24	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 12:32	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride <i>ca. 20</i>	0.222	0.025	1.41	0.026	BMB*
2	2.38	Chloride	8.299	1.062	59.52	1.362	BMB*
3	4.18	Nitrate	1.210	0.230	12.90	0.125	BMB*
4	7.22	Sulfate	1.554	0.467	26.16	0.949	BMB
Total:			11.284	1.784	100.00	2.462	

After Initials MB

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JUN 02 2010

default/Integration

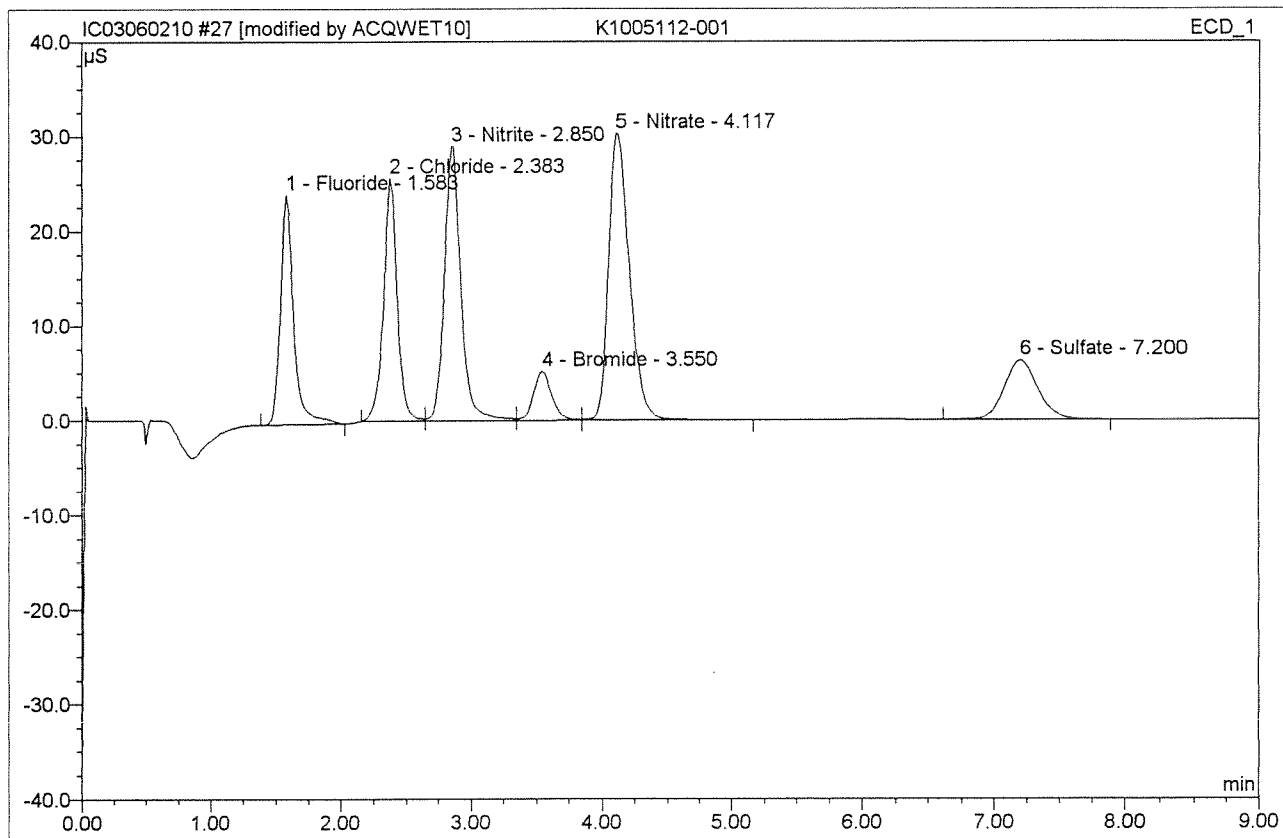
Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

27 K1005112-001

5112-1MS

Sample Name:	K1005112-001	Injection Volume:	200.0
Vial Number:	25	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 12:44	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.58	Fluoride	24.218	2.888	15.58	3.019 <i>1012</i>	BMB*
2	2.38	Chloride	25.577	3.129	16.88	4.013 <i>872</i>	BM *
3	2.85	Nitrite	28.915	4.288	23.13	2.970 <i>992</i>	M *
4	3.55	Bromide	5.149	0.834	4.50	3.114 <i>1042</i>	M *
5	4.12	Nitrate	30.271	5.556	29.97	3.016 <i>962</i>	MB*
6	7.20	Sulfate	6.253	1.842	9.94	3.743 <i>422</i>	BMB
Total:			120.384	18.538	100.00	19.876	

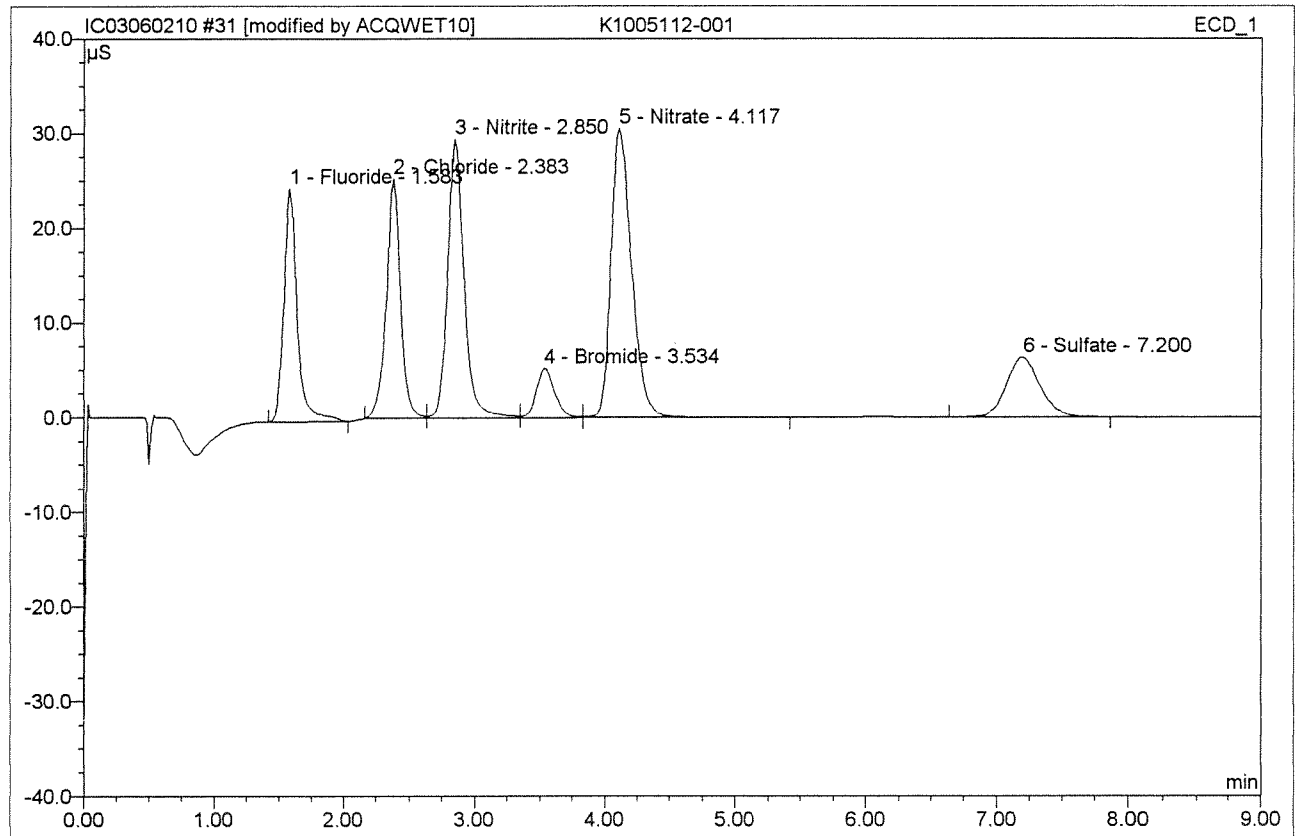
TV = 3.02

After Initials *MS*

JUN 02 2010

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31 K1005112-001			
5112-1MSD			
Sample Name:	K1005112-001	Injection Volume:	200.0
Vial Number:	29	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 13:30	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.58	Fluoride	24.617	2.935	15.76	3.0671022	BMB*
2	2.38	Chloride	25.245	3.115	16.73	3.994862	BM *
3	2.85	Nitrite	29.364	4.314	23.17	2.9881002	M *
4	3.53	Bromide	5.129	0.835	4.49	3.1181042	M *
5	4.12	Nitrate	30.488	5.568	29.90	3.023962	MB*
6	7.20	Sulfate	6.267	1.853	9.95	3.766932	BMB
Total:			121.110	18.619	100.00	19.957	

N=3.00

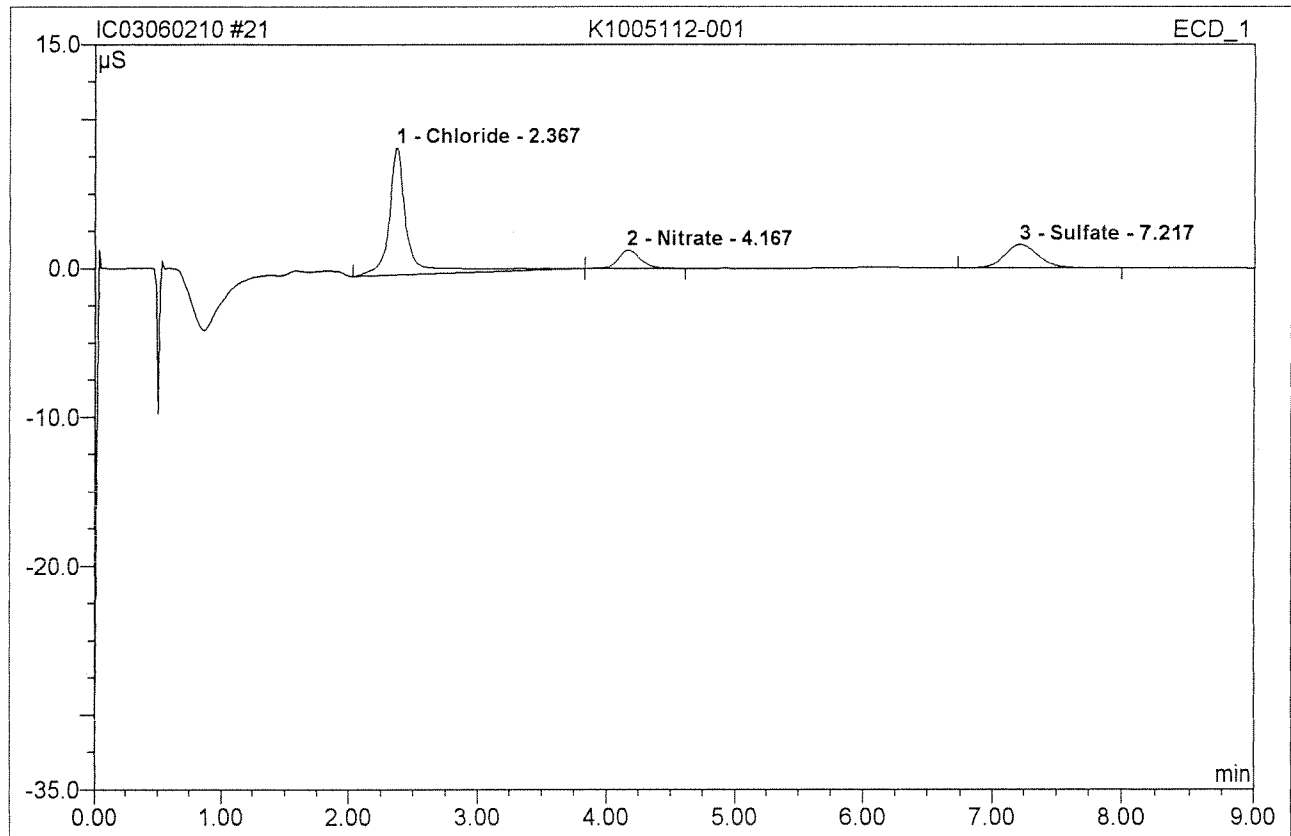
After Initials

MB

JUN 02 2010

6/4/10

21 K1005112-001			
Sample Name:	K1005112-001	Injection Volume:	200.0
Vial Number:	19	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 11:35	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

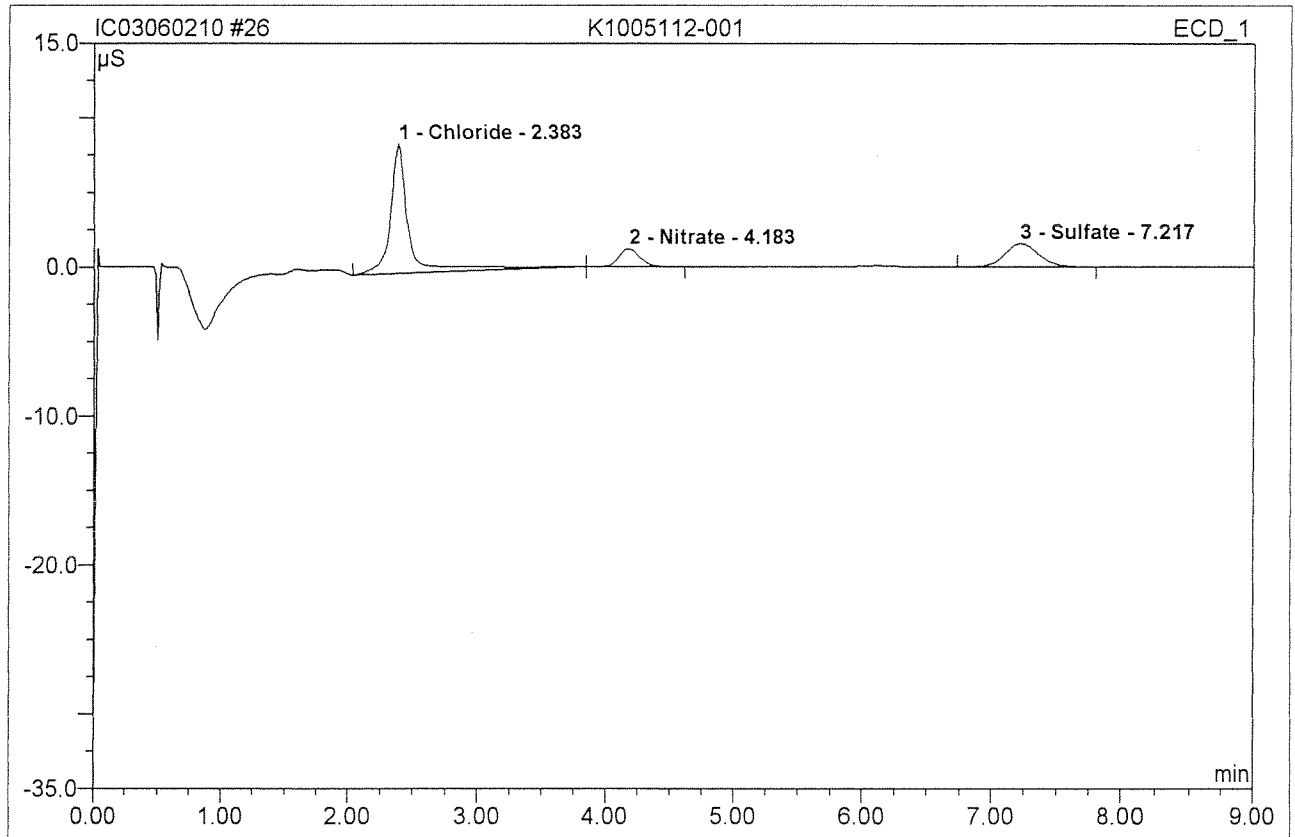


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.37	Chloride	8.510	1.462	67.47	1.875	BMB
2	4.17	Nitrate	1.217	0.230	10.61	0.125	bMB
3	7.22	Sulfate	1.579	0.475	21.92	0.965	BMB
Total:			11.306	2.167	100.00	2.965	

Before

JUN 02 2010

26 K1005112-001			
5112-1D			
Sample Name:	K1005112-001	Injection Volume:	200.0
Vial Number:	24	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 12:32	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.38	Chloride	8.654	1.460	67.69	1.872	BMB
2	4.18	Nitrate	1.210	0.230	10.67	0.125	bMB
3	7.22	Sulfate	1.554	0.467	21.64	0.949	BMB
Total:			11.418	2.157	100.00	2.946	

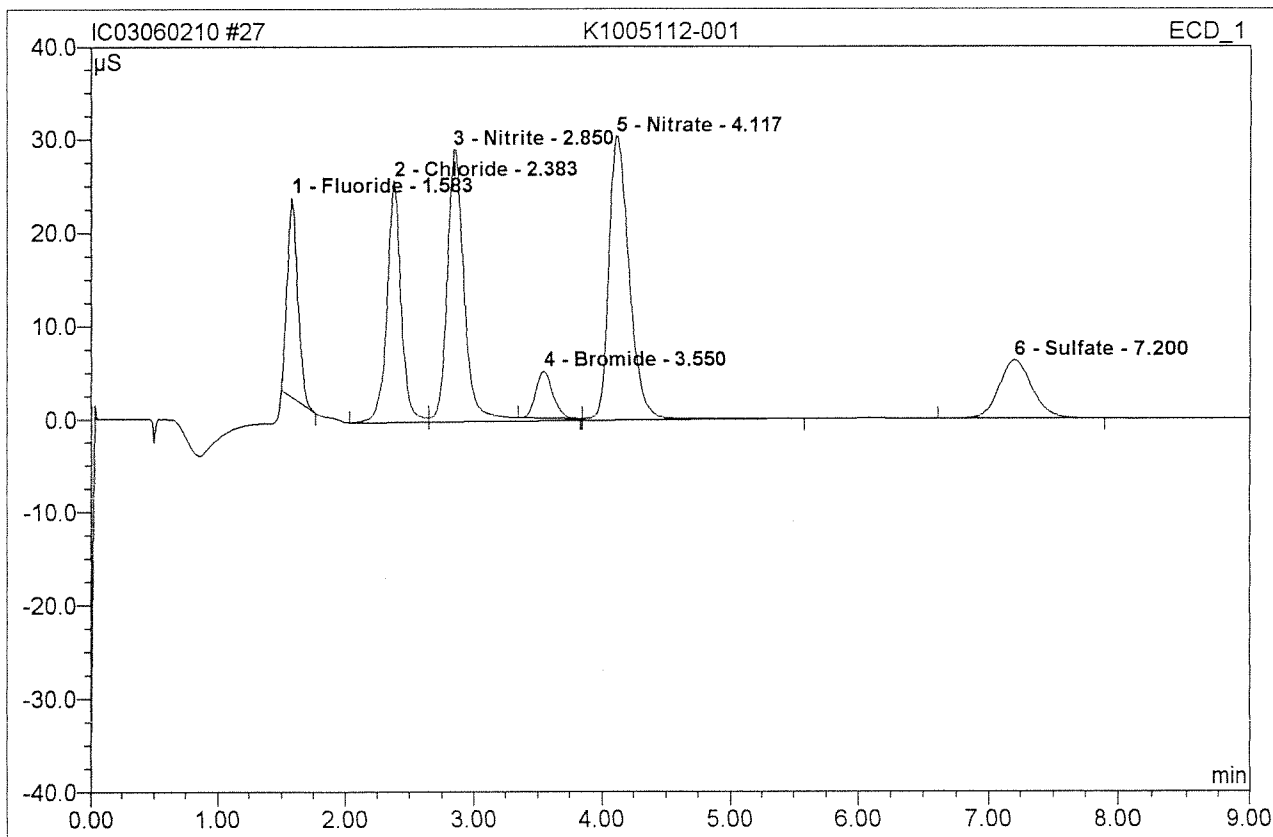
Before

JUN 02 2010

27 K1005112-001

5112-1MS

Sample Name:	K1005112-001	Injection Volume:	200.0
Vial Number:	25	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 12:44	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

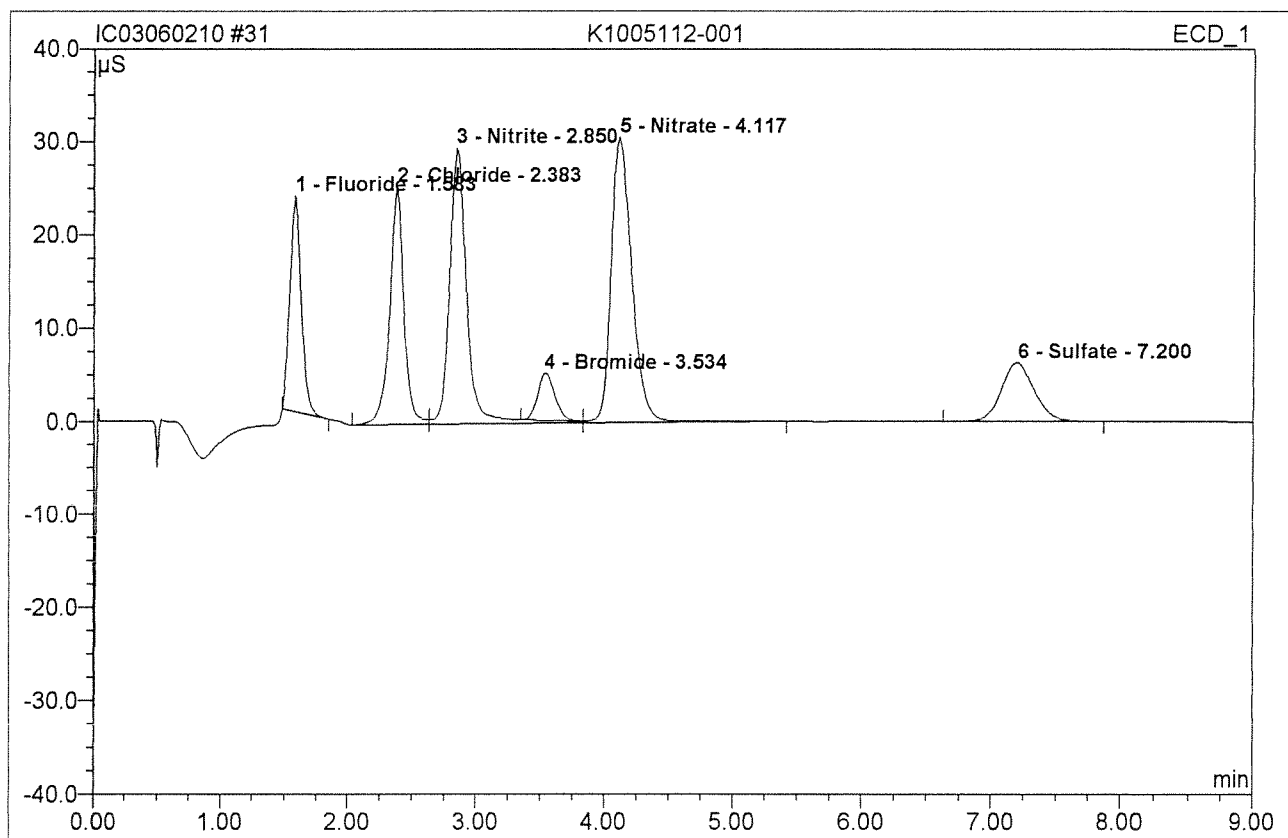


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	21.414	2.066	11.30	2.160	BMB
2	2.38	Chloride	25.876	3.288	17.98	4.216	BM
3	2.85	Nitrite	29.172	4.613	25.22	3.195	M
4	3.55	Bromide	5.016	0.773	4.23	2.887	Rd
5	4.12	Nitrate	30.413	5.706	31.20	3.098	MB
6	7.20	Sulfate	6.253	1.842	10.07	3.743	BMB
Total:			118.144	18.289	100.00	19.300	

Before

JUN 02 2010

31 K1005112-001			
5112-1MSD			
Sample Name:	K1005112-001	Injection Volume:	200.0
Vial Number:	29	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 13:30	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	23.150	2.399	12.86	2.507	BMB
2	2.38	Chloride	25.561	3.278	17.57	4.203	BM
3	2.85	Nitrite	29.633	4.648	24.92	3.219	M
4	3.53	Bromide	4.991	0.775	4.16	2.893	Rd
5	4.12	Nitrate	30.624	5.699	30.55	3.094	MB
6	7.20	Sulfate	6.267	1.853	9.94	3.766	BMB
Total:			120.226	18.651	100.00	19.683	

Before

JUN 02 2010

- 1. Holding times met for all samples analyzed? yes/no/NA
- 2. Are dilutions within upper limits of the curve? yes/no/NA
- 3. Are analysis/extraction stickers included on report? yes/no/NA
- 4. Are detection limits reported correctly? yes/no/NA
- 5. Are all quality control criteria met? yes/no/NA
 - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
 - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
 - c. Are results for Method Blanks all ND? yes/no/NA
 - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
 - e. Are all exceptions explained? yes/no/NA
- 6. Are all samples labelled correctly? yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis.

LCS

Fluoride	True Value = 13.5 ppm	CAS ID # = <u>AN1-33-D</u>	Expires: <u>7/19/10</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0107-10-02</u>	Expires: <u>8/10</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>AN11-28-D</u>	Expires: <u>6/2/10</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-L</u>	Expires: <u>10/28/10</u>
Nitrate	True Value = 21.0 ppm	CAS ID # = <u>AN1-33-E</u>	Expires: <u>7/21/10</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0107-10-02</u>	Expires: <u>8/10</u>

CCV

	CAS ID # = <u>AN11-20-Q</u>	Expires <u>6/2/10</u>	
Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>10/28/10</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-F</u>	Expires: <u>8/5/10</u>
Nitrite	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-N</u>	Expires: <u>10/28/10</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-20-DD</u>	Expires: <u>6/21/10</u>
Nitrate	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-I</u>	Expires: <u>9/9/10</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-G</u>	Expires: <u>8/5/10</u>

Spike

1.5ppm X dilution factor	CAS ID# = <u>AN11-10-V</u>	Expires <u>6/2/10</u>	
Fluoride	10K CAS ID # = <u>AN1-33-M</u>	Expires: _____	} See 10K CCV ID's
Chloride	10K CAS ID # = <u>AN1-33-F</u>	Expires: _____	
Nitrite	10K CAS ID # = <u>AN1-33-N</u>	Expires: _____	
Bromide	10K CAS ID # = <u>AN1-20-DD</u>	Expires: _____	
Nitrate	10K CAS ID # = <u>AN1-33-I</u>	Expires: _____	
Sulfate	10K CAS ID # = <u>AN1-33-G</u>	Expires: _____	

Analyst: AMB Date: 6/2/10

First Review: AMB Date: 6/2/10

Final Review: _____ Date: 6/4/10

T103060210

203208

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K 4814-3	III				F				
Exponent					CL		0.25/5		✓
					NO2				
					Br				
					NO3				
					SO4				
K 5600-1	I		6/3	6/13	F				
Dale McGhee					CL				
					NO2				
					Br				
					NO3	2.5/5			✓
					SO4				
K 5112-1	II	X		6/5	F	2.5/5		2.5/5	✓
P.G.G					CL				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4				✓
-2					F	2.5/5			✓
					CL				✓
					NO2				
					Br				
					NO3				
					SO4				✓
-3					F	2.5/5			✓
					CL				✓
					NO2				
					Br				
					NO3				
					SO4				✓
-4					F	2.5/5			✓
					CL				✓
					NO2				
					Br				
					NO3				
					SO4				✓
-5					F	2.5/5			✓
					CL				✓
					NO2				
					Br				
					NO3				
					SO4				✓
K 4870-1	III			6/5	F	2.5/5			✓
Exponent					CL				✓
					NO2				
					Br				
					NO3				
					SO4				✓
-2		X			F	2.5/5			✓
					CL				✓
					NO2				
					Br				
					NO3				
					SO4				✓
-3					F	2.5/5			✓
					CL		1/5		✓
					NO2				
					Br				
					NO3				
					SO4	100		1/5	✓

CL=25 SO4=23

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?			
K4870-4	III			6/5	F	2.5/5			✓			
(MIX) -5					CL	}			✓			
					NO2							
					Br							
					NO3							
					SO4							
					F	}		0.1/5.	✓			
					CL							
					NO2							
					Br							
					NO3							
					SO4	}		0.5/5.	✓			
					F					}		
					CL							
					NO2							
					Br							
NO3												
K4348-1					F	}			✓			
					CL							
					NO2							
					Br							
					NO3							
P.G.E					SO4	}			✓			
					F					}		
					CL							
					NO2							
					Br							
NO3												
K4934-1	III			6/6	F	}		0.5/5.	✓			
					CL							
					NO2							
					Br							
					NO3							
Exponent					SO4	}		0.5/5.	✓			
					F					}		
					CL							
					NO2							
					Br							
NO3												
-2					SO4	}		0.5/5.	✓			
					F					}		
					CL							
					NO2							
					Br							
NO3												
-3					SO4	}		0.1/5.	✓			
					F					}		
					CL							
					NO2							
					Br							
NO3												
-4					SO4	}		0.5/5.	✓			
					F					}		
					CL							
					NO2							
					Br							
NO3												
-5					SO4	}			✓			
					F					}		
					CL							
					NO2							
					Br							
NO3												
-6					SO4	}			✓			
					F					}		
					CL							
					NO2							
					Br							
NO3												

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K4934-7	III				(F) CL NO2 Br NO3 SO4	2.5/5			✓
					(F) CL NO2 Br NO3 SO4	5/5			✓
K5641-2	I		6/4	6/19	F CL NO2 Br NO3 SO4	2.5/5			✓
K5645-1	II		6/3	6/19	F CL NO2 Br NO3 SO4	2.5/5			✓
K5648-1	II		6/3	6/13	F CL NO2 Br NO3 SO4	2.5/5			✓
K5251-2	III			6/7	F CL NO2 Br NO3 SO4	0.5/5	0.5/5		✓
					F CL NO2 Br NO3 SO4	0.5/5	0.5/5		✓

MDC

-8

SEH

City of Ridgefield

-2

-3

Clark P.U.

-2

PSC

MDC

-4

SO4102

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K 5214-1	I			5/28	F				
CAL Portland (Rush)					CL	0.5/5			
					NO2				
					Br				
					NO3				
					SO4	0.5/5			
K 5249-1	II			6/7	F				
Alcon					CL	2.5/5			✓
					NO2				
					Br				
					NO3				
					SO4				
					F				
					CL	2.5/5			✓
					NO2				
					Br				
					NO3				
					SO4				
K 5533-1	II			6/8	F				
Barr					CL	1/5			✓
					NO2				
					Br				
					NO3				
					SO4	1/5			✓
					F				
					CL	1/200			✓
					NO2				
					Br				
					NO3				
					SO4	1/5			
					F				
					CL	2.5/5			✓
					NO2				
					Br				
					NO3				
					SO4				
K 4856-1					F				
Confirmation only					CL				
					NO2				
					Br				
					NO3				
					SO4				
					F				
					CL				
					NO2				
					Br				
					NO3				
					SO4				
					F				
					CL				
					NO2				
					Br				
					NO3				
					SO4				

Sequence: IC03060210
Operator: mblack

Page 1 of 6
Printed: 6/3/2010 9:47:35 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 90

Created: 6/2/2010 8:16:47 AM by ACQWET10
Last Update: 6/2/2010 5:42:24 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/iv2	Standard	1	200.0	epa300	epa300	Finished	4/26/2010 8:54:58 AM
2	std3/iv3	Standard	2	200.0	epa300	epa300	Finished	4/26/2010 9:12:26 AM
3	std4/iv4	Standard	3	200.0	epa300	epa300	Finished	4/26/2010 9:25:24 AM
4	std5/iv5	Standard	4	200.0	epa300	epa300	Finished	4/26/2010 9:38:21 AM
5	std6/iv6	Standard	5	200.0	epa300	epa300	Finished	4/26/2010 9:51:19 AM
6	std7/iv7	Standard	6	200.0	epa300	epa300	Finished	4/26/2010 10:04:17 AM
7	std1/iv1	Standard	7	200.0	epa300	epa300	Finished	4/26/2010 10:17:14 AM
8	CCV AN11-20-Q	Unknown	8	200.0	epa300	epa300	Finished	6/2/2010 8:40:13 AM
9	CCB	Unknown	9	200.0	epa300	epa300	Finished	6/2/2010 8:51:41 AM
10	NO2 AN11-28-D	Unknown	10	200.0	epa300	epa300	Finished	6/2/2010 9:03:09 AM
11	MB	Unknown	11	200.0	epa300	epa300	Finished	6/2/2010 9:14:36 AM
12	NO3 AN1-33-E	Unknown	11	200.0	epa300	epa300	Finished	6/2/2010 9:26:04 AM
13	CLSO4 ERA# 0107-10-02	Unknown	12	200.0	epa300	epa300	Finished	6/2/2010 9:37:31 AM
14	F AN1-33-D	Unknown	13	200.0	epa300	epa300	Finished	6/2/2010 9:48:59 AM
15	Br AN1-33-L	Unknown	14	200.0	epa300	epa300	Finished	6/2/2010 10:00:27 AM
16	SPK AN11-10-V	Unknown	16	200.0	epa300	epa300	Finished	6/2/2010 10:11:55 AM
17	CCV2	Unknown	15	200.0	epa300	epa300	Finished	6/2/2010 10:49:49 AM
18	CCB2	Unknown	16	200.0	epa300	epa300	Finished	6/2/2010 11:01:16 AM
19	K1005600-001	Unknown	17	200.0	epa300	epa300	Finished	6/2/2010 11:12:44 AM
20	K1004814-003	Unknown	18	200.0	epa300	epa300	Finished	6/2/2010 11:24:12 AM
21	K1005112-001	Unknown	19	200.0	epa300	epa300	Finished	6/2/2010 11:35:40 AM
22	K1005112-002	Unknown	20	200.0	epa300	epa300	Finished	6/2/2010 11:47:08 AM
23	K1005112-003	Unknown	21	200.0	epa300	epa300	Finished	6/2/2010 11:58:36 AM
24	K1005112-004	Unknown	22	200.0	epa300	epa300	Finished	6/2/2010 12:10:03 PM
25	K1005112-005	Unknown	23	200.0	epa300	epa300	Finished	6/2/2010 12:21:31 PM
26	K1005112-001	Unknown	24	200.0	epa300	epa300	Finished	6/2/2010 12:32:59 PM
27	K1005112-001	Unknown	25	200.0	epa300	epa300	Finished	6/2/2010 12:44:26 PM
28	RB	Unknown	26	200.0	epa300	epa300	Finished	6/2/2010 12:55:54 PM
29	CCV3	Unknown	27	200.0	epa300	epa300	Finished	6/2/2010 1:07:22 PM
30	CCB3	Unknown	28	200.0	epa300	epa300	Finished	6/2/2010 1:18:50 PM
31	K1005112-001	Unknown	29	200.0	epa300	epa300	Finished	6/2/2010 1:30:17 PM
32	K1004870-001	Unknown	30	200.0	epa300	epa300	Finished	6/2/2010 1:41:45 PM
33	K1004870-002	Unknown	31	200.0	epa300	epa300	Finished	6/2/2010 1:53:13 PM
34	K1004870-003	Unknown	32	200.0	epa300	epa300	Finished	6/2/2010 2:04:41 PM
35	K1004870-004	Unknown	33	200.0	epa300	epa300	Finished	6/2/2010 2:16:08 PM
36	K1004870-005	Unknown	34	200.0	epa300	epa300	Finished	6/2/2010 2:27:37 PM
37	K1004934-001	Unknown	35	200.0	epa300	epa300	Finished	6/2/2010 2:59:14 PM
38	K1004934-002	Unknown	36	200.0	epa300	epa300	Finished	6/2/2010 3:10:42 PM
39	K1004934-003	Unknown	37	200.0	epa300	epa300	Finished	6/2/2010 3:22:09 PM
40	RB	Unknown	38	200.0	epa300	epa300	Finished	6/2/2010 3:33:37 PM
41	CCV4	Unknown	39	200.0	epa300	epa300	Finished	6/2/2010 3:45:05 PM
42	CCB4	Unknown	40	200.0	epa300	epa300	Finished	6/2/2010 3:56:33 PM

Sequence: IC03060210
Operator: mblack

Page 2 of 6
Printed: 6/3/2010 9:47:35 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 90

Created: 6/2/2010 8:16:47 AM by ACQWET10
Last Update: 6/2/2010 5:42:24 PM by ACQWET10

No.	Name	Dil. Factor	Comment
1	std2/lvl2	1.0000	
2	std3/lvl3	1.0000	
3	std4/lvl4	1.0000	
4	std5/lvl5	1.0000	
5	std6/lvl6	1.0000	
6	std7/lvl7	1.0000	
7	std1/lvl1	1.0000	
8	CCV AN11-20-Q	1.0000	CCV1
9	CCB	1.0000	CCB1
10	NO2 AN11-28-D	25.0000	NO2
11	MB	1.0000	MB
12	NO3 AN1-33-E	20.0000	NO3
13	CLSO4 ERA# 0107-10-02	1.0000	CLSO4
14	F AN1-33-D	2.0000	F
15	Br AN1-33-L	1.0000	Br
16	SPK AN11-10-V	1.0000	SPK
17	CCV2	1.0000	CCV2
18	CCB2	1.0000	CCB2
19	K1005600-001	2.0000	
20	K1004814-003	20.0000	
21	K1005112-001	2.0000	
22	K1005112-002	2.0000	
23	K1005112-003	2.0000	
24	K1005112-004	2.0000	
25	K1005112-005	2.0000	
26	K1005112-001	2.0000	5112-1D
27	K1005112-001	2.0000	5112-1MS
28	RB	1.0000	
29	CCV3	1.0000	CCV3
30	CCB3	1.0000	CCB3
31	K1005112-001	2.0000	5112-1MSD
32	K1004870-001	2.0000	
33	K1004870-002	2.0000	
34	K1004870-003	2.0000	
35	K1004870-004	2.0000	
36	K1004870-005	2.0000	
37	K1004934-001	2.0000	
38	K1004934-002	2.0000	
39	K1004934-003	2.0000	
40	RB	1.0000	
41	CCV4	1.0000	CCV4
42	CCB4	1.0000	CCB4

Sequence: IC03060210
Operator: mblack

Page 3 of 6
Printed: 6/3/2010 9:47:35 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 90

Created: 6/2/2010 8:16:47 AM by ACQWET10
Last Update: 6/2/2010 5:42:24 PM by ACQWET10











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	MB 2	Unknown	41	200.0	epa300	epa300	Finished	6/2/2010 4:08:01 PM
44	CLSO4 2	Unknown	42	200.0	epa300	epa300	Finished	6/2/2010 4:19:29 PM
45	F 2	Unknown	43	200.0	epa300	epa300	Finished	6/2/2010 4:30:57 PM
46	K1005641-002	Unknown	44	200.0	epa300	epa300	Finished	6/2/2010 4:42:24 PM
47	K1005645-001	Unknown	45	200.0	epa300	epa300	Finished	6/2/2010 4:53:52 PM
48	K1005645-002	Unknown	46	200.0	epa300	epa300	Finished	6/2/2010 5:05:20 PM
49	K1005645-003	Unknown	47	200.0	epa300	epa300	Finished	6/2/2010 5:16:47 PM
50	K1005648-001	Unknown	48	200.0	epa300	epa300	Finished	6/2/2010 5:28:16 PM
51	K1005648-002	Unknown	49	200.0	epa300	epa300	Finished	6/2/2010 5:39:44 PM
52	RB	Unknown	50	200.0	epa300	epa300	Finished	6/2/2010 5:51:11 PM
53	CCV5	Unknown	51	200.0	epa300	epa300	Finished	6/2/2010 6:02:40 PM
54	CCB5	Unknown	52	200.0	epa300	epa300	Finished	6/2/2010 6:14:07 PM
55	K1004934-008	Unknown	53	200.0	epa300	epa300	Finished	6/2/2010 6:25:35 PM
56	K1004934-004	Unknown	54	200.0	epa300	epa300	Finished	6/2/2010 6:37:03 PM
57	K1004934-005	Unknown	55	200.0	epa300	epa300	Finished	6/2/2010 6:48:31 PM
58	K1004934-006	Unknown	56	200.0	epa300	epa300	Finished	6/2/2010 6:59:58 PM
59	K1004934-007	Unknown	57	200.0	epa300	epa300	Finished	6/2/2010 7:11:26 PM
60	K1004870-002	Unknown	58	200.0	epa300	epa300	Finished	6/2/2010 7:22:53 PM
61	K1004870-002	Unknown	59	200.0	epa300	epa300	Finished	6/2/2010 7:34:21 PM
62	K1004870-002	Unknown	60	200.0	epa300	epa300	Finished	6/2/2010 7:45:49 PM
63	K1004348-001	Unknown	61	200.0	epa300	epa300	Finished	6/2/2010 7:57:17 PM
64	RB	Unknown	62	200.0	epa300	epa300	Finished	6/2/2010 8:08:45 PM
65	CCV6	Unknown	63	200.0	epa300	epa300	Finished	6/2/2010 8:20:12 PM
66	CCB6	Unknown	64	200.0	epa300	epa300	Finished	6/2/2010 8:31:40 PM
67	K1004870-003	Unknown	65	200.0	epa300	epa300	Finished	6/2/2010 8:43:07 PM
68	K1004870-005	Unknown	66	200.0	epa300	epa300	Finished	6/2/2010 8:54:35 PM
69	K1004870-005	Unknown	67	200.0	epa300	epa300	Finished	6/2/2010 9:06:04 PM
70	K1004934-001	Unknown	68	200.0	epa300	epa300	Finished	6/2/2010 9:17:31 PM
71	K1004934-002	Unknown	69	200.0	epa300	epa300	Finished	6/2/2010 9:28:58 PM
72	K1004934-003	Unknown	70	200.0	epa300	epa300	Finished	6/2/2010 9:40:25 PM
73	K1004934-003	Unknown	71	200.0	epa300	epa300	Finished	6/2/2010 9:51:54 PM
74	K1005214-001	Unknown	72	200.0	epa300	epa300	Finished	6/2/2010 10:03:22 PM
75	K1004856-001	Unknown	73	200.0	epa300	epa300	Finished	6/2/2010 10:14:50 PM
76	RB	Unknown	74	200.0	epa300	epa300	Finished	6/2/2010 10:26:18 PM
77	CCV7	Unknown	75	200.0	epa300	epa300	Finished	6/2/2010 10:37:45 PM
78	CCB7	Unknown	76	200.0	epa300	epa300	Finished	6/2/2010 10:49:13 PM
79	K1005249-001	Unknown	77	200.0	epa300	epa300	Finished	6/2/2010 11:00:41 PM
80	K1005249-002	Unknown	78	200.0	epa300	epa300	Finished	6/2/2010 11:12:09 PM
81	K1005251-002	Unknown	79	200.0	epa300	epa300	Finished	6/2/2010 11:23:36 PM
82	K1005251-004	Unknown	80	200.0	epa300	epa300	Finished	6/2/2010 11:35:04 PM
83	K1005533-001	Unknown	81	200.0	epa300	epa300	Finished	6/2/2010 11:46:32 PM
84	K1005533-003	Unknown	82	200.0	epa300	epa300	Finished	6/2/2010 11:58:00 PM

Sequence: IC03060210
Operator: mblack

Page 4 of 6
Printed: 6/3/2010 9:47:35 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 90

Created: 6/2/2010 8:16:47 AM by ACQWET10
Last Update: 6/2/2010 5:42:24 PM by ACQWET10

No.	Name	Dil. Factor	Comment
43	 MB 2	1.0000	MB 2
44	 CLSO4 2	1.0000	CLSO4 2
45	 F 2	2.0000	F 2
46	 K1005641-002	2.0000	
47	 K1005645-001	2.0000	
48	 K1005645-002	2.0000	
49	 K1005645-003	2.0000	
50	 K1005648-001	2.0000	
51	 K1005648-002	2.0000	
52	 RB	1.0000	
53	 CCV5	1.0000	CCV5
54	 CCB5	1.0000	CCB5
55	 K1004934-008	1.0000	
56	 K1004934-004	2.0000	
57	 K1004934-005	2.0000	
58	 K1004934-006	2.0000	
59	 K1004934-007	2.0000	
60	 K1004870-002	2.0000	4870-2D
61	 K1004870-002	2.0000	4870-2MS
62	 K1004870-002	2.0000	4870-2MSD
63	 K1004348-001	2.0000	
64	 RB	1.0000	
65	 CCV6	1.0000	CCV6
66	 CCB6	1.0000	CCB6
67	 K1004870-003	5.0000	
68	 K1004870-005	50.0000	
69	 K1004870-005	10.0000	
70	 K1004934-001	10.0000	
71	 K1004934-002	10.0000	
72	 K1004934-003	50.0000	
73	 K1004934-003	10.0000	
74	 K1005214-001	10.0000	
75	 K1004856-001	2.0000	
76	 RB	1.0000	
77	 CCV7	1.0000	CCV7
78	 CCB7	1.0000	CCB7
79	 K1005249-001	2.0000	
80	 K1005249-002	2.0000	
81	 K1005251-002	10.0000	
82	 K1005251-004	10.0000	
83	 K1005533-001	5.0000	
84	 K1005533-003	2.0000	







Sequence: IC03060210
Operator: mblack

Page 5 of 6
Printed: 6/3/2010 9:47:35 AM

Title:

Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 90

Created: 6/2/2010 8:16:47 AM by ACQWET10
Last Update: 6/2/2010 5:42:24 PM by ACQWET10







No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
85	 K1005533-002	Unknown	83	200.0	epa300	epa300	Finished	6/3/2010 12:09:28 AM
86	 K1005533-002	Unknown	84	200.0	epa300	epa300	Finished	6/3/2010 12:20:56 AM
87	 RB	Unknown	85	200.0	epa300	epa300	Finished	6/3/2010 12:32:24 AM
88	 CCV8	Unknown	86	200.0	epa300	epa300	Finished	6/3/2010 12:43:51 AM
89	 CCB8	Unknown	87	200.0	epa300	epa300	Finished	6/3/2010 12:55:19 AM
90	 SHUTDOWN	Unknown	88	200.0	shutdown 120	epa300	Finished	6/3/2010 1:06:46 AM

Sequence: IC03060210
Operator: mblack

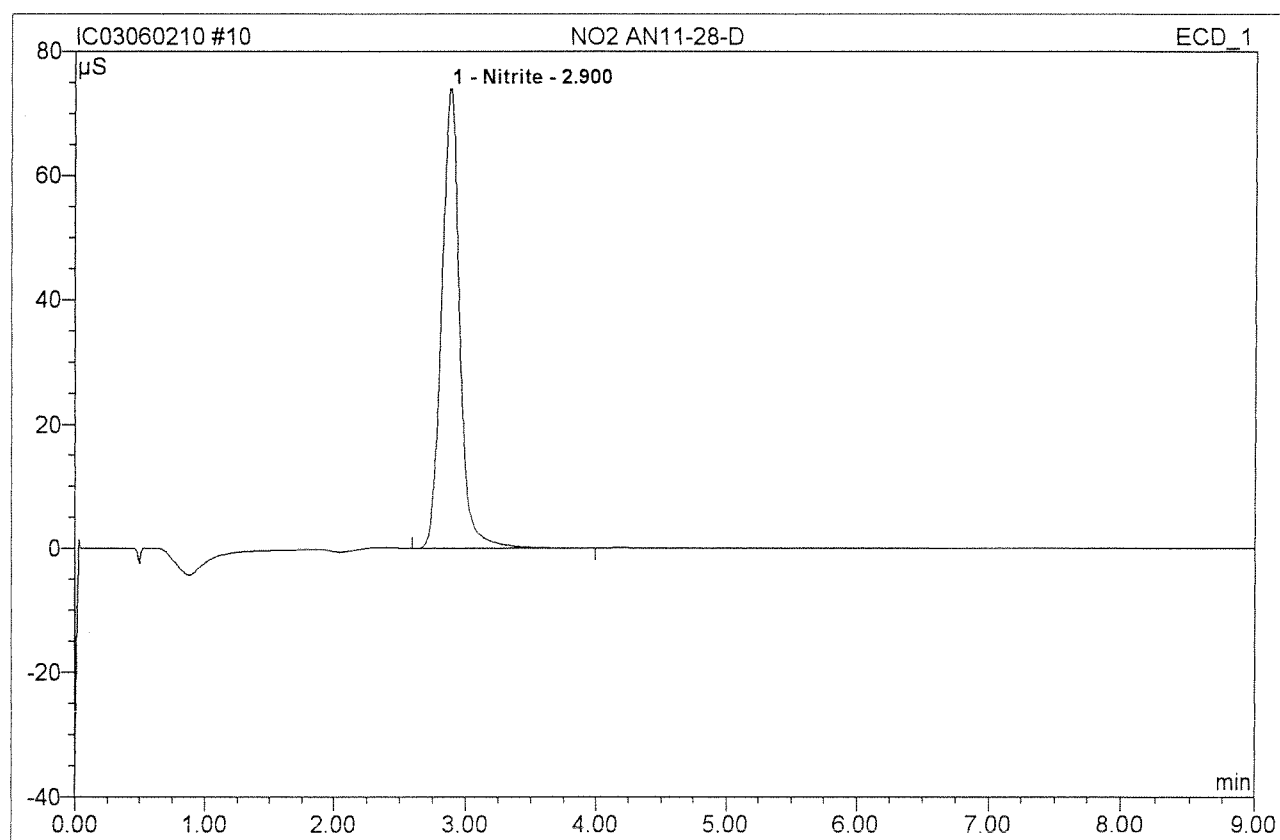
Page 6 of 6
Printed: 6/3/2010 9:47:35 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 90

Created: 6/2/2010 8:16:47 AM by ACQWET10
Last Update: 6/2/2010 5:42:24 PM by ACQWET10

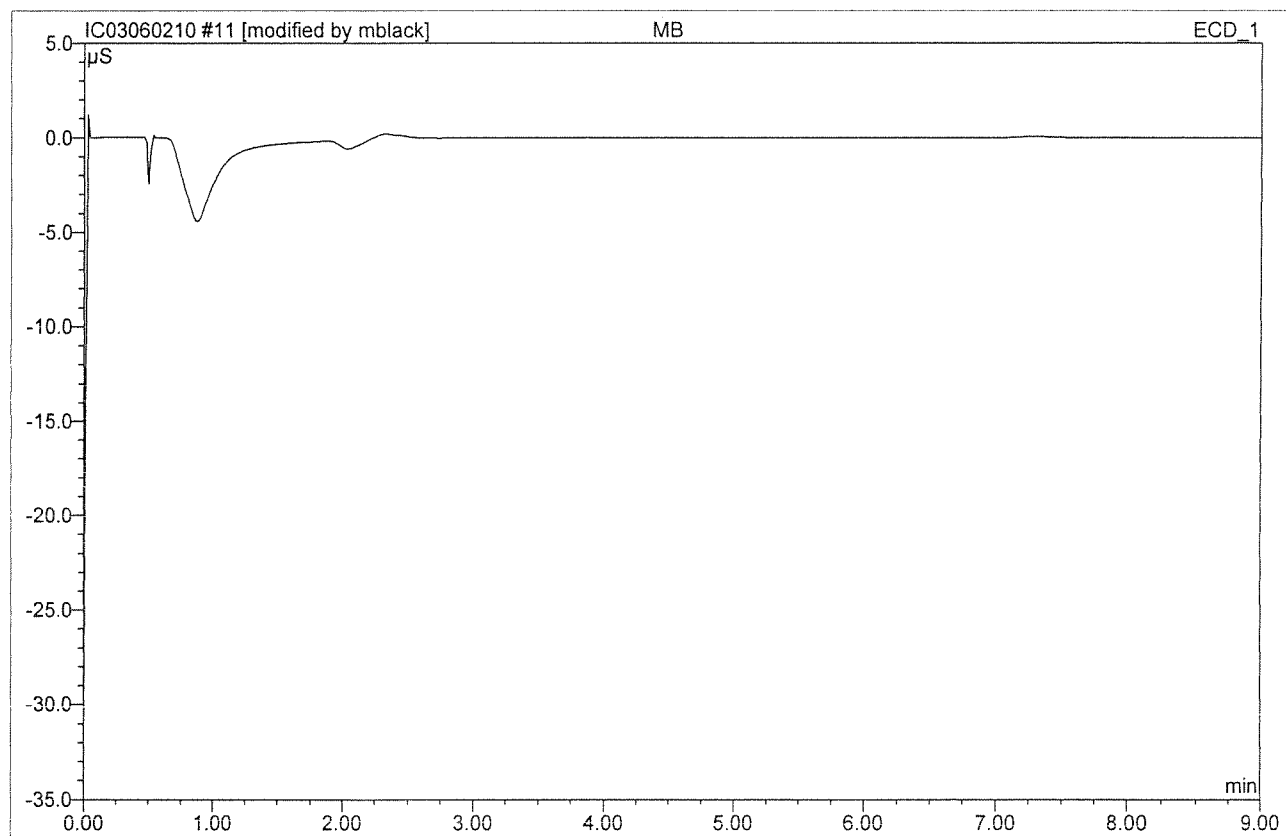
No.	Name	Dil. Factor	Comment
85	 K1005533-002	200.0000	
86	 K1005533-002	5.0000	
87	 RB	1.0000	
88	 CCV8	1.0000	CCV8
89	 CCB8	1.0000	CCB8
90	 SHUTDOWN	1.0000	

10 NO2 AN11-28-D			
NO2			
Sample Name:	NO2 AN11-28-D	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	6/2/2010 9:03	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.90	Nitrite	74.018	11.761	100.00	101.834	102% BMB
Total:			74.018	11.761	100.00	101.834	

11 MB			
MB			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 9:14	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



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

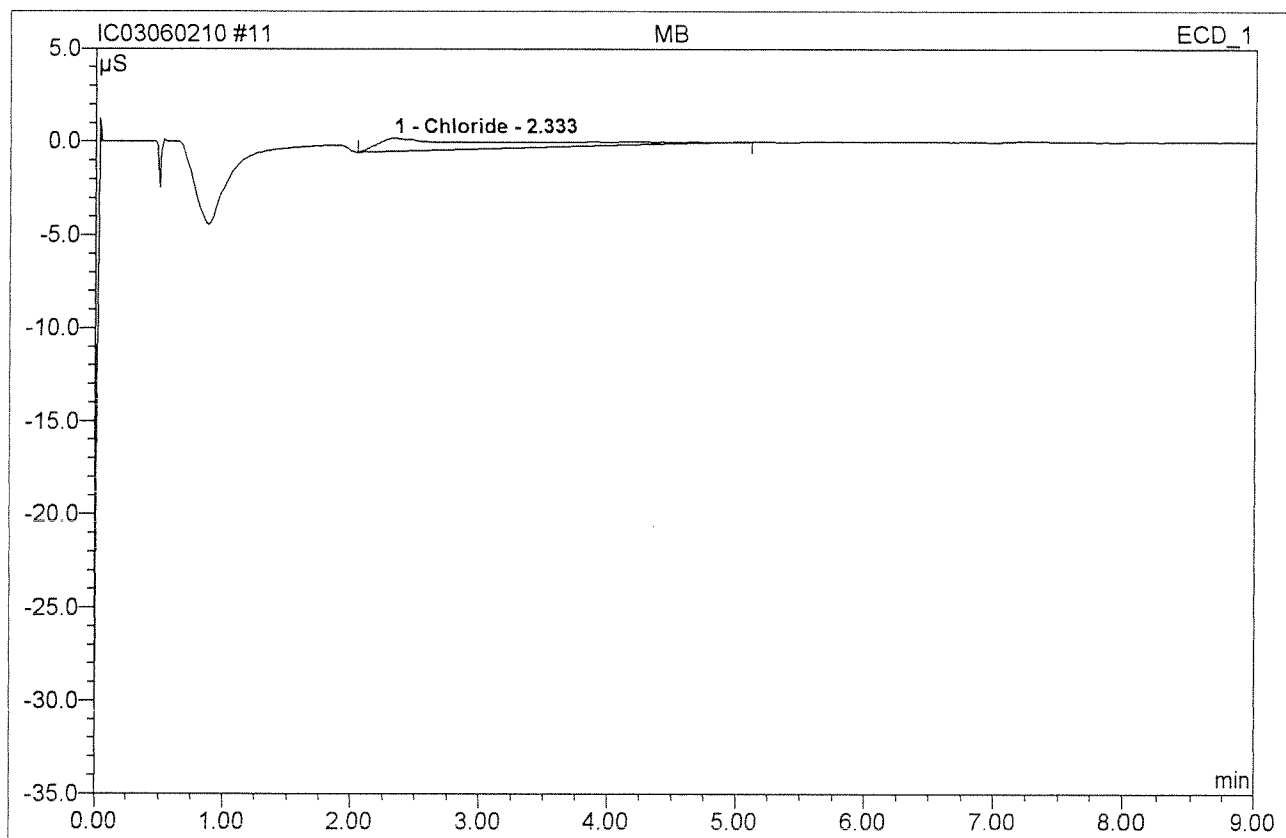
After Initials

MB

206/4/10

JUN 02 2010

11 MB			
MB			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 9:14	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

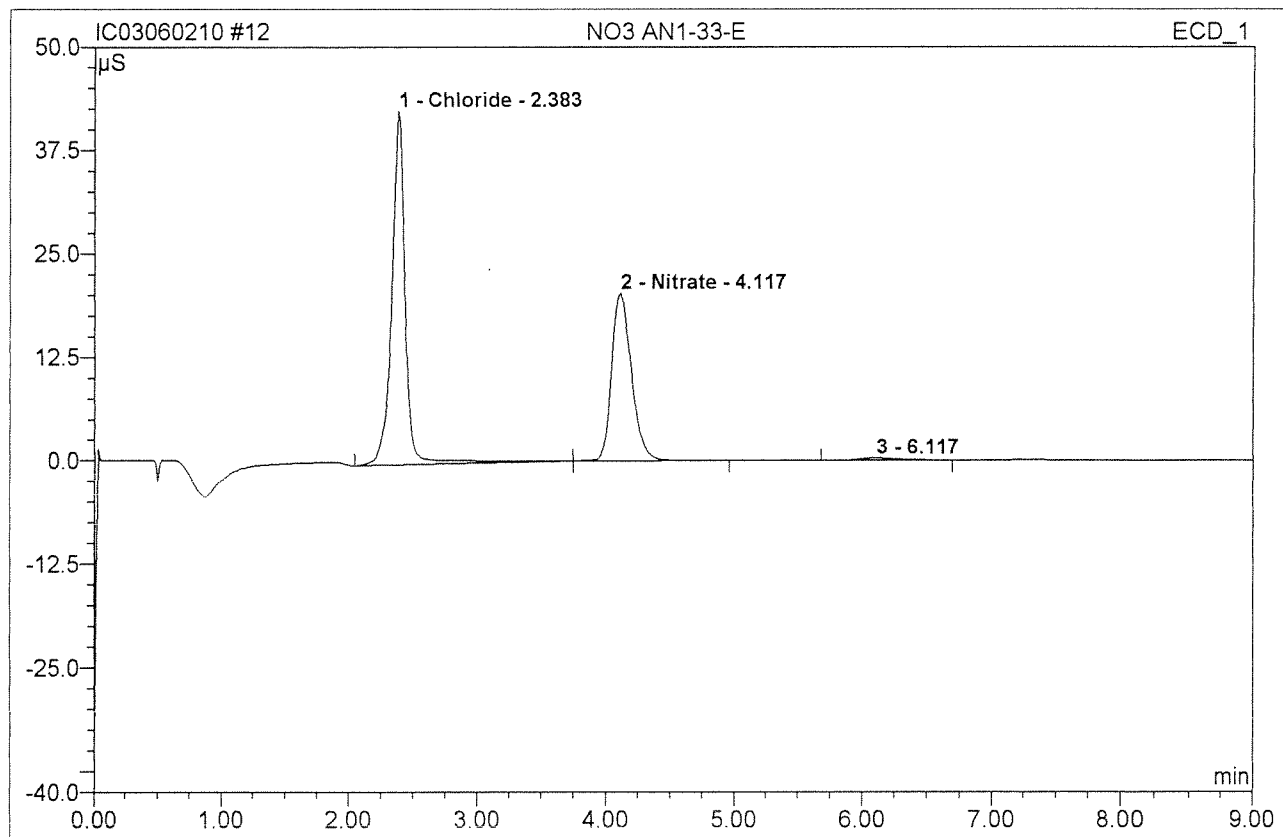


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.33	Chloride	0.722	0.850	100.00	0.545	BMB
Total:			0.722	0.850	100.00	0.545	

Before

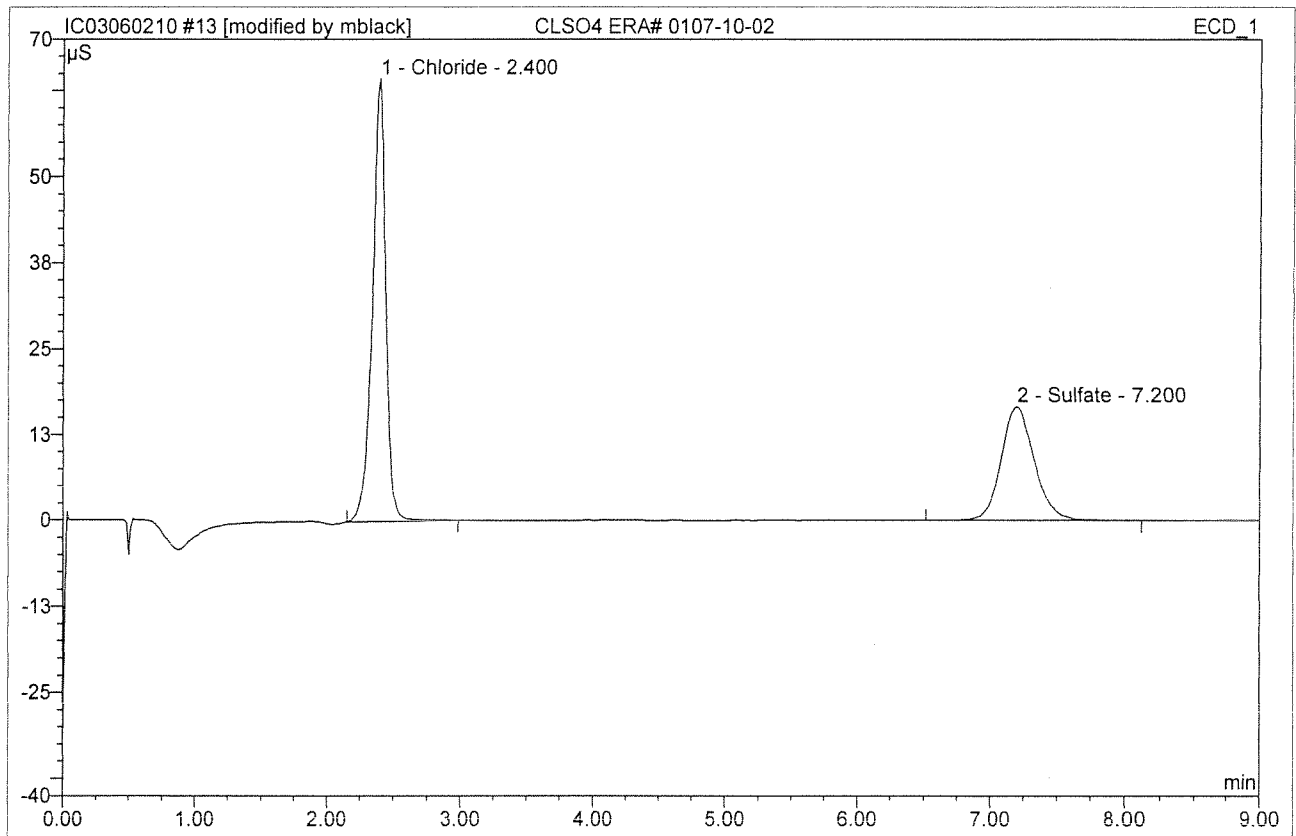
JUN 02 2010

12 NO3 AN1-33-E			
NO3			
Sample Name:	NO3 AN1-33-E	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	6/2/2010 9:26	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.38	Chloride	42.687	5.267	58.84	67.541	BMB
2	4.12	Nitrate	20.229	3.574	39.93	19.40292%	bMB
3	6.12	n.a.	0.317	0.110	1.23	n.a.	BMB
Total:			63.233	8.950	100.00	86.943	

13 CLSO4 ERA# 0107-10-02			
CLSO4			
Sample Name:	CLSO4 ERA# 0107-10-02	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 9:37	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.40	Chloride	64.396	7.561	61.23	4.84897	BMB*
2	7.20	Sulfate	16.556	4.788	38.77	4.86517	BMB
Total:			80.952	12.349	100.00	9.714	

After initials

MB

MB 6/4/10

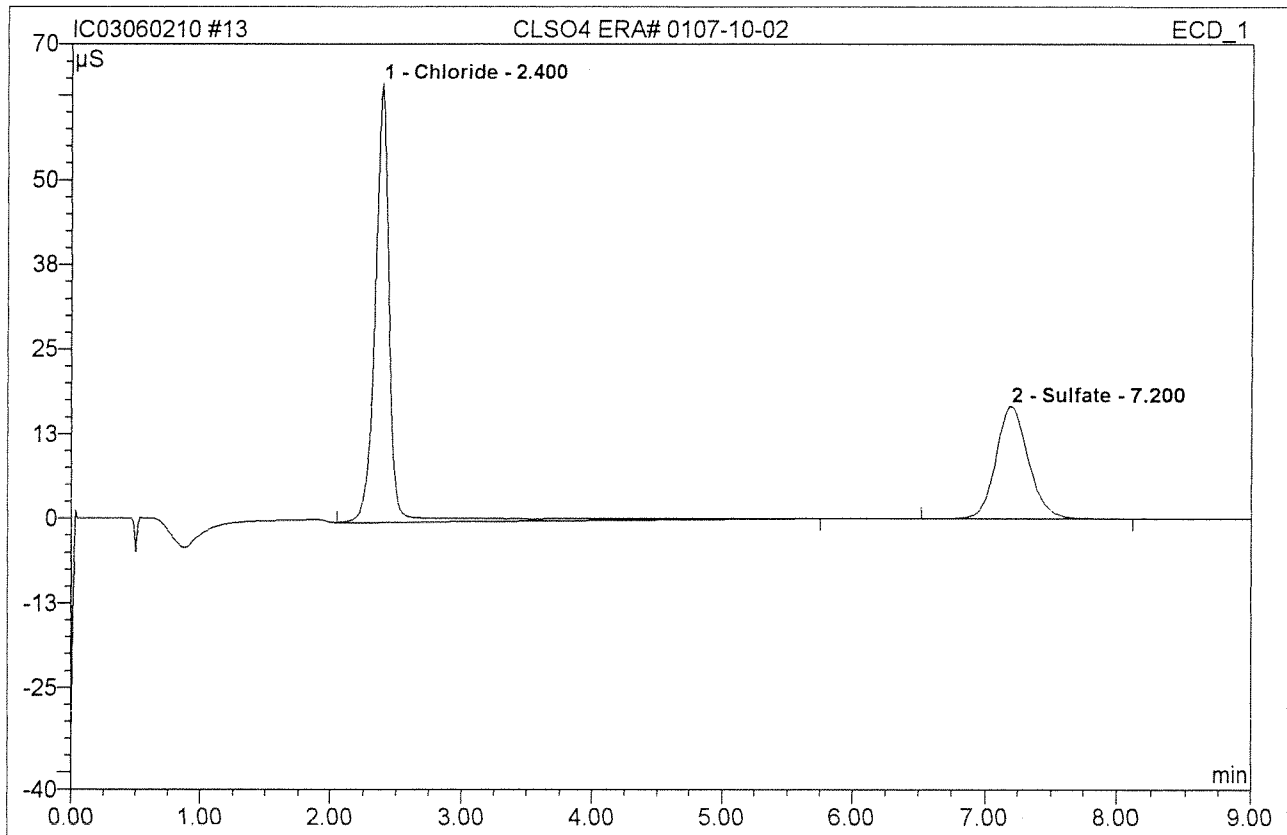
JUN 02 2010

Wrong Peak/Peak not Found
 Peak Area is Correct
 Other

13 CLSO4 ERA# 0107-10-02

CLSO4

Sample Name:	CLSO4 ERA# 0107-10-02	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 9:37	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

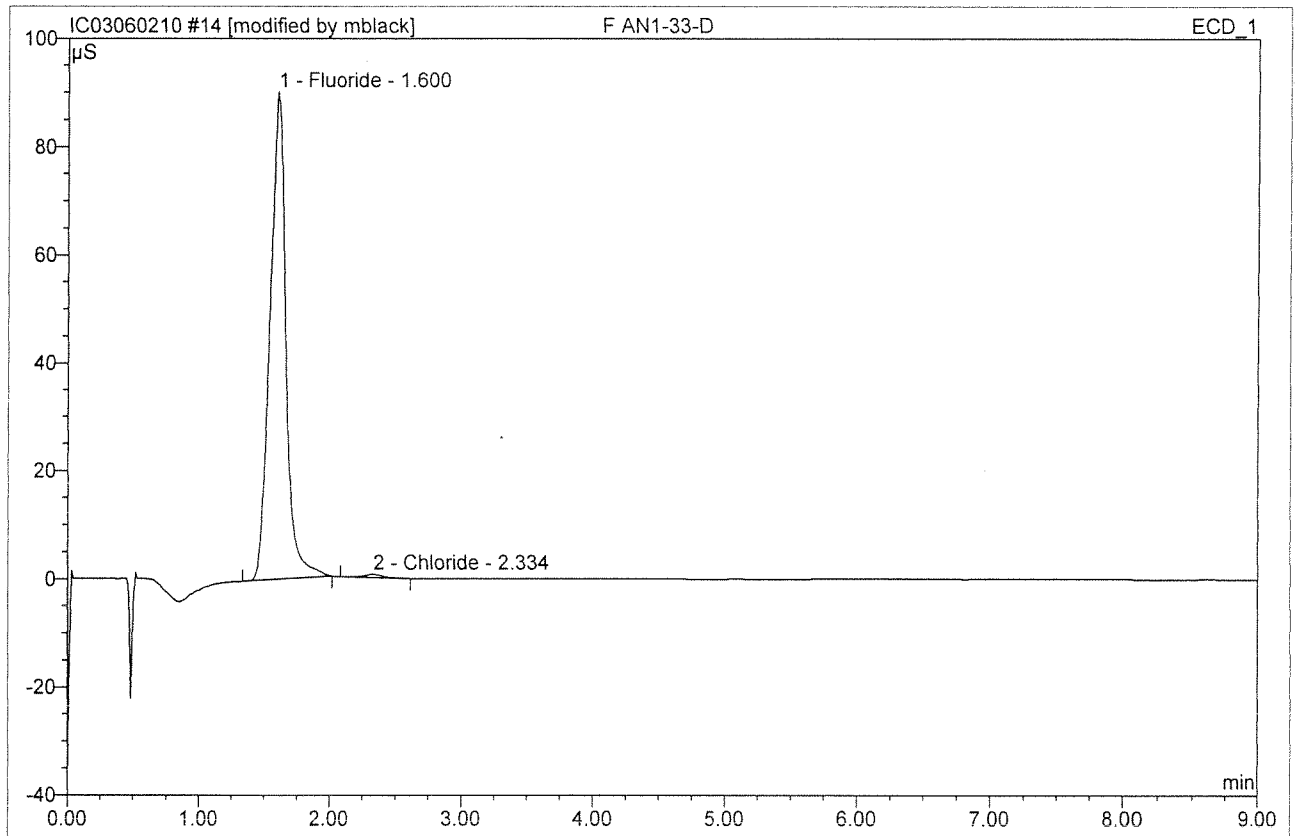


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.40	Chloride	64.746	8.467	63.88	5.429	BMB
2	7.20	Sulfate	16.556	4.788	36.12	4.865	BMB
Total:			81.303	13.255	100.00	10.295	

Before

JUN 02 2010

14 F AN1-33-D			
F			
Sample Name:	F AN1-33-D	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 9:48	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	90.209	12.713	99.20	13.288	BMB*
2	2.33	Chloride	0.627	0.102	0.80	0.131	BMB
Total:			90.836	12.814	100.00	13.418	

After initials MB

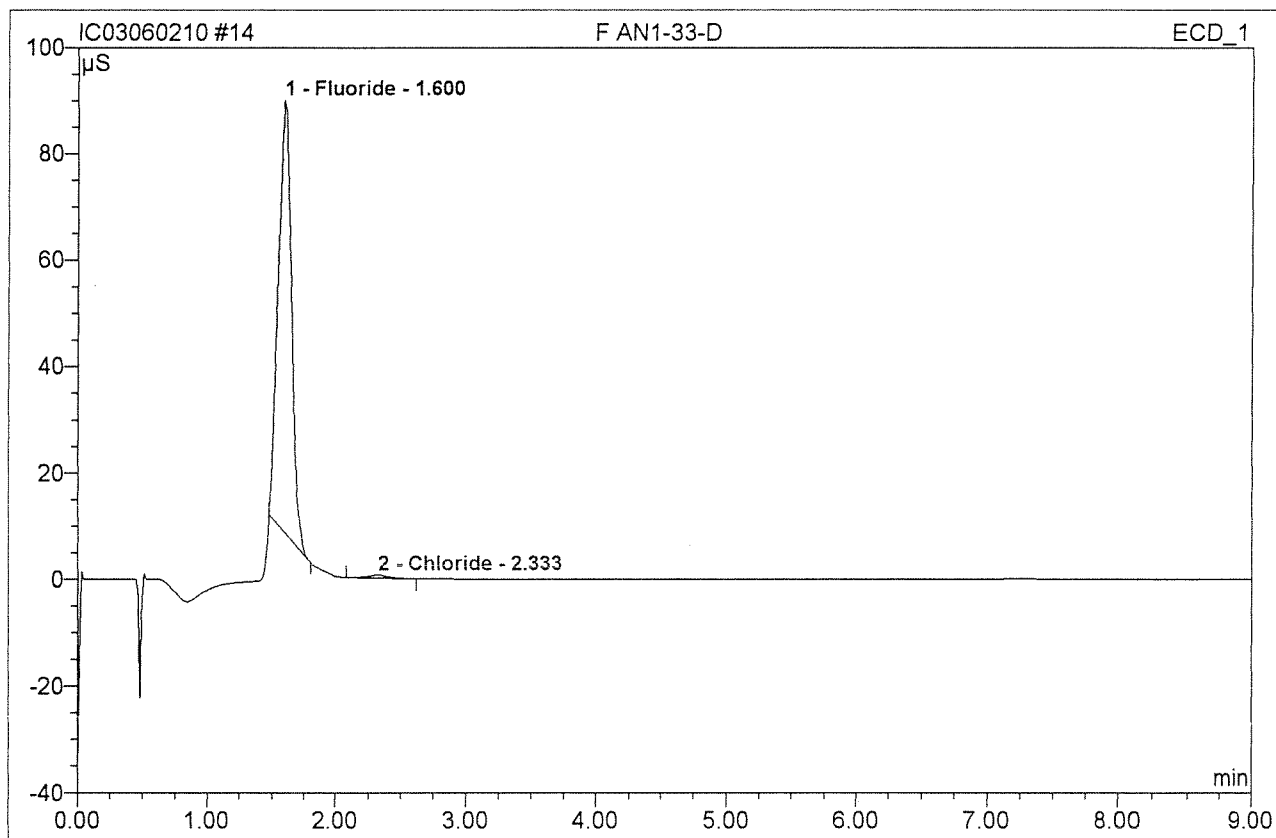
Handwritten signature/initials

JUN 02 2010

14 F AN1-33-D

F

Sample Name:	F AN1-33-D	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 9:48	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.60	Fluoride	81.246	9.718	98.96	10.158	BMB
2	2.33	Chloride	0.627	0.102	1.04	0.131	BMB
Total:			81.873	9.820	100.00	10.288	

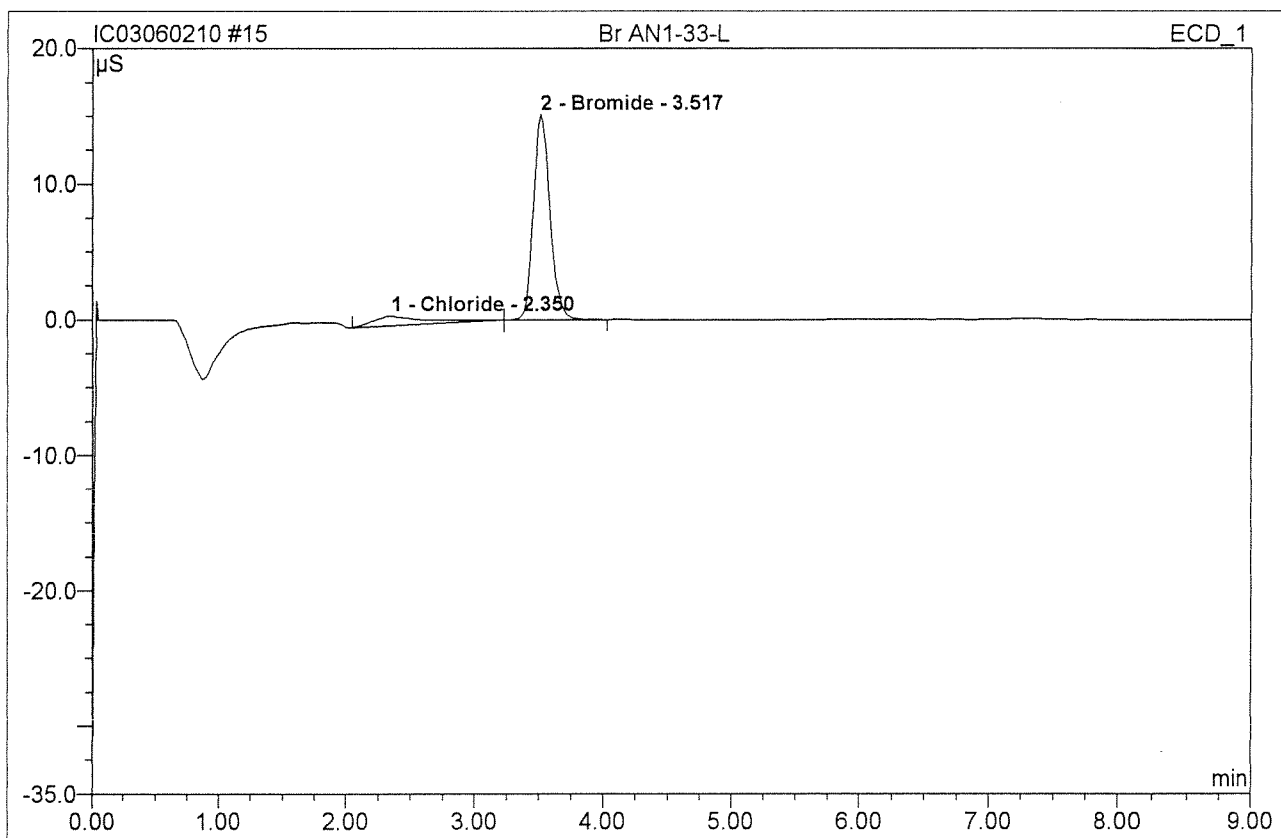
Before

JUN 02 2010

15 Br AN1-33-L

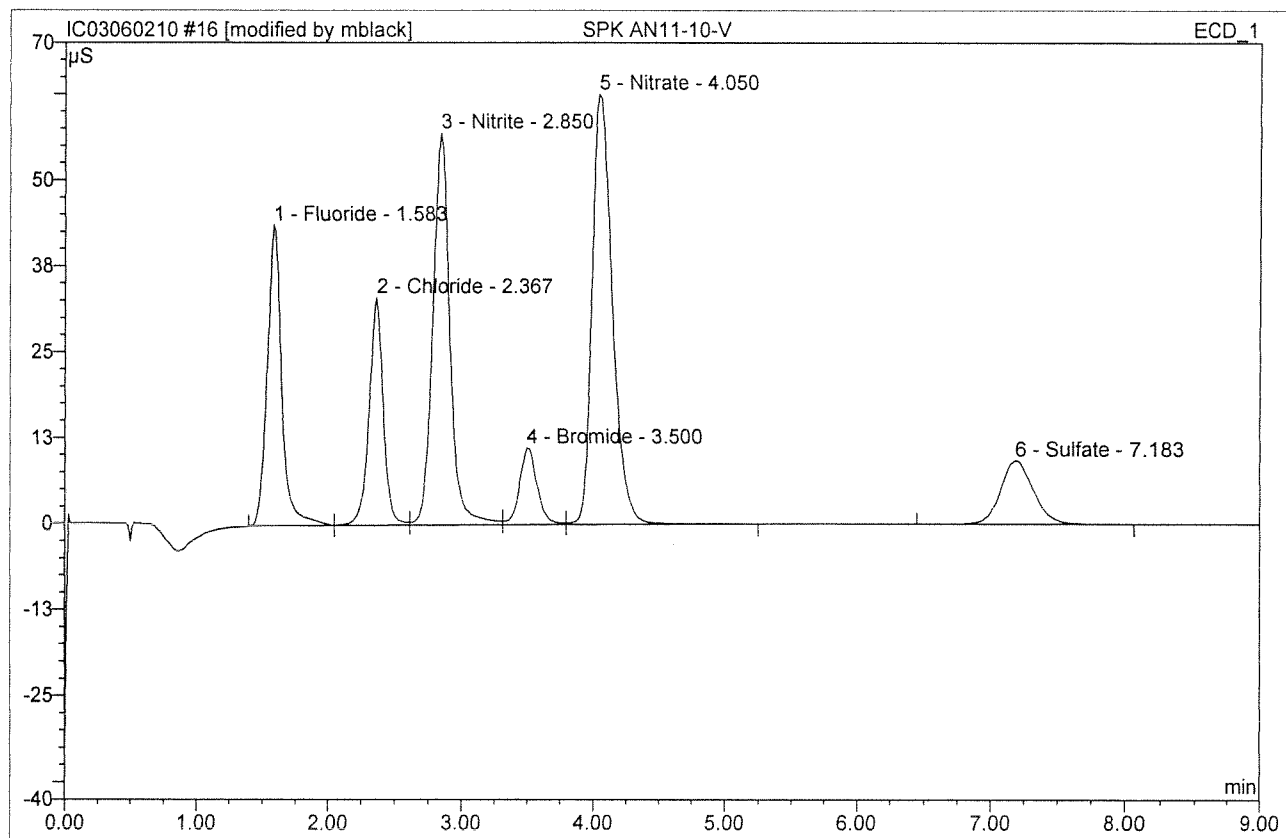
Br

Sample Name:	Br AN1-33-L	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 10:00	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.35	Chloride	0.723	0.339	13.05	0.217	BMB
2	3.52	Bromide	15.147	2.256	86.95	4.211/057	bMB
Total:			15.870	2.595	100.00	4.428	

16 SPK AN11-10-V			
SPK			
Sample Name:	SPK AN11-10-V	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 10:11	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	43.756	5.585	16.52	2.919	BMb*
2	2.37	Chloride	33.117	4.036	11.94	2.588	bM *
3	2.85	Nitrite	57.048	8.556	25.30	2.963	M *
4	3.50	Bromide	11.130	1.740	5.15	3.247	M *
5	4.05	Nitrate	62.608	11.216	33.17	3.044	MB
6	7.18	Sulfate	9.297	2.680	7.92	2.723	BMB
Total:			216.955	33.811	100.00	17.484	

n = 3.00

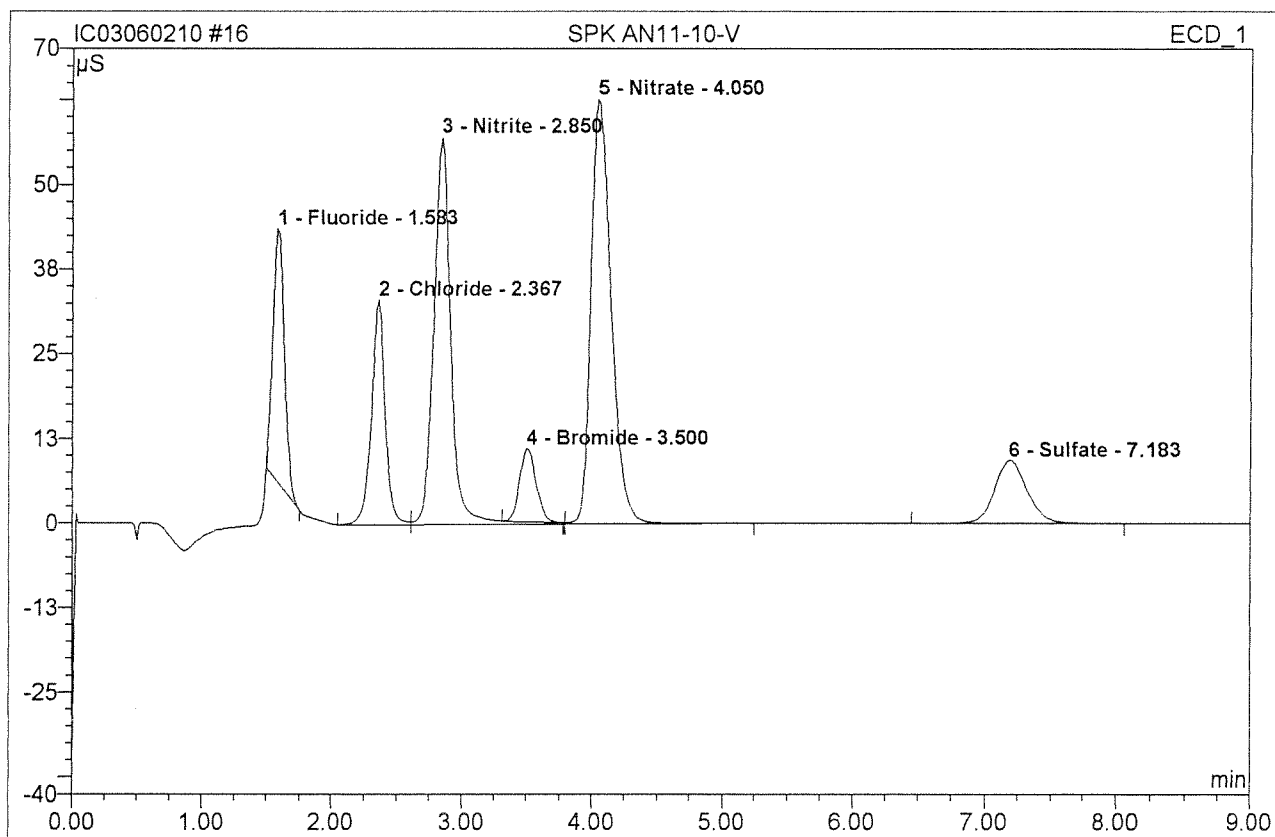
After Initials MB

6/4/10

JUN 02 2010

16 SPK AN11-10-V**SPK**

Sample Name:	SPK AN11-10-V	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 10:11	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

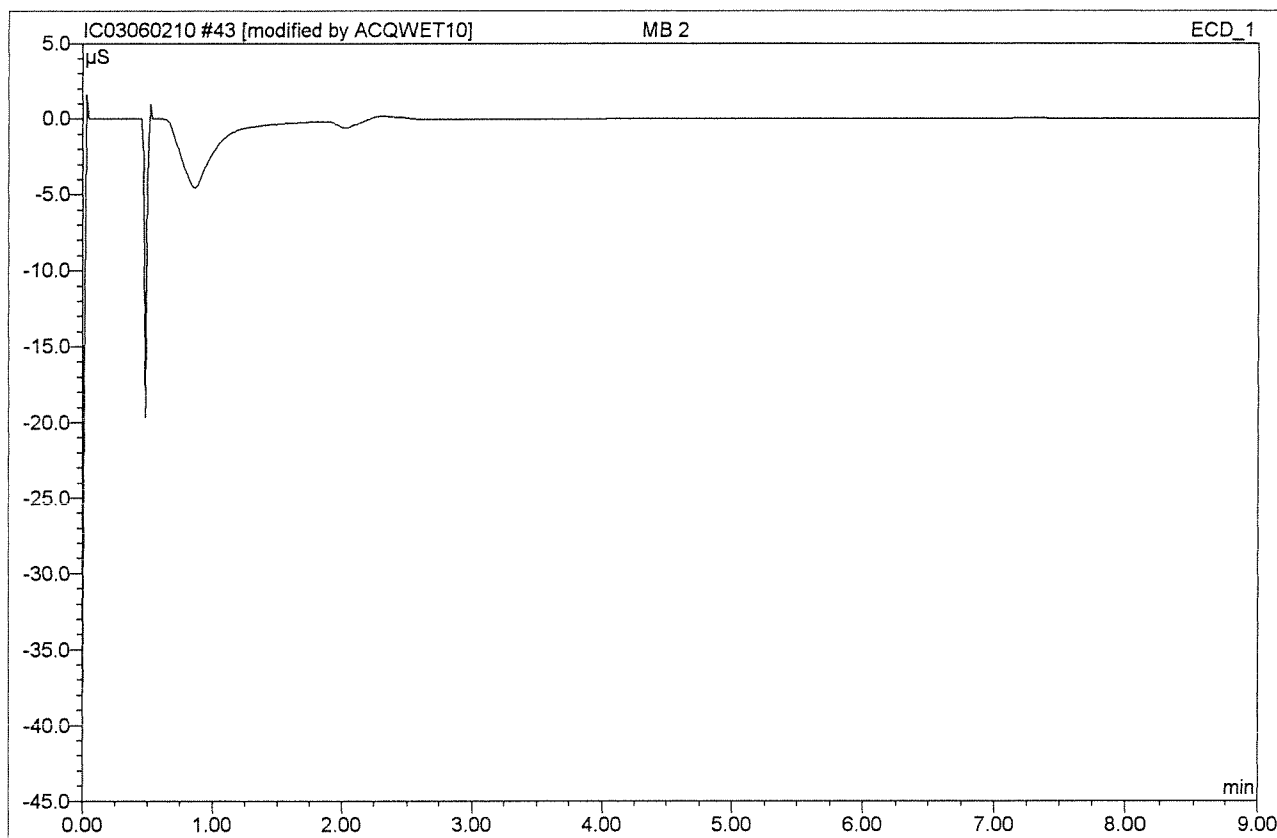


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	37.279	3.789	11.84	1.980	BMB
2	2.37	Chloride	33.117	4.036	12.61	2.588	BM
3	2.85	Nitrite	57.048	8.726	27.25	3.022	M
4	3.50	Bromide	10.744	1.570	4.90	2.930	Rd
5	4.05	Nitrate	62.608	11.216	35.03	3.044	MB
6	7.18	Sulfate	9.297	2.680	8.37	2.723	BMB
Total:			210.093	32.016	100.00	16.288	

Before

JUN 02 2010

43 MB 2			
MB 2			
Sample Name:	MB 2	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 16:08	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



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

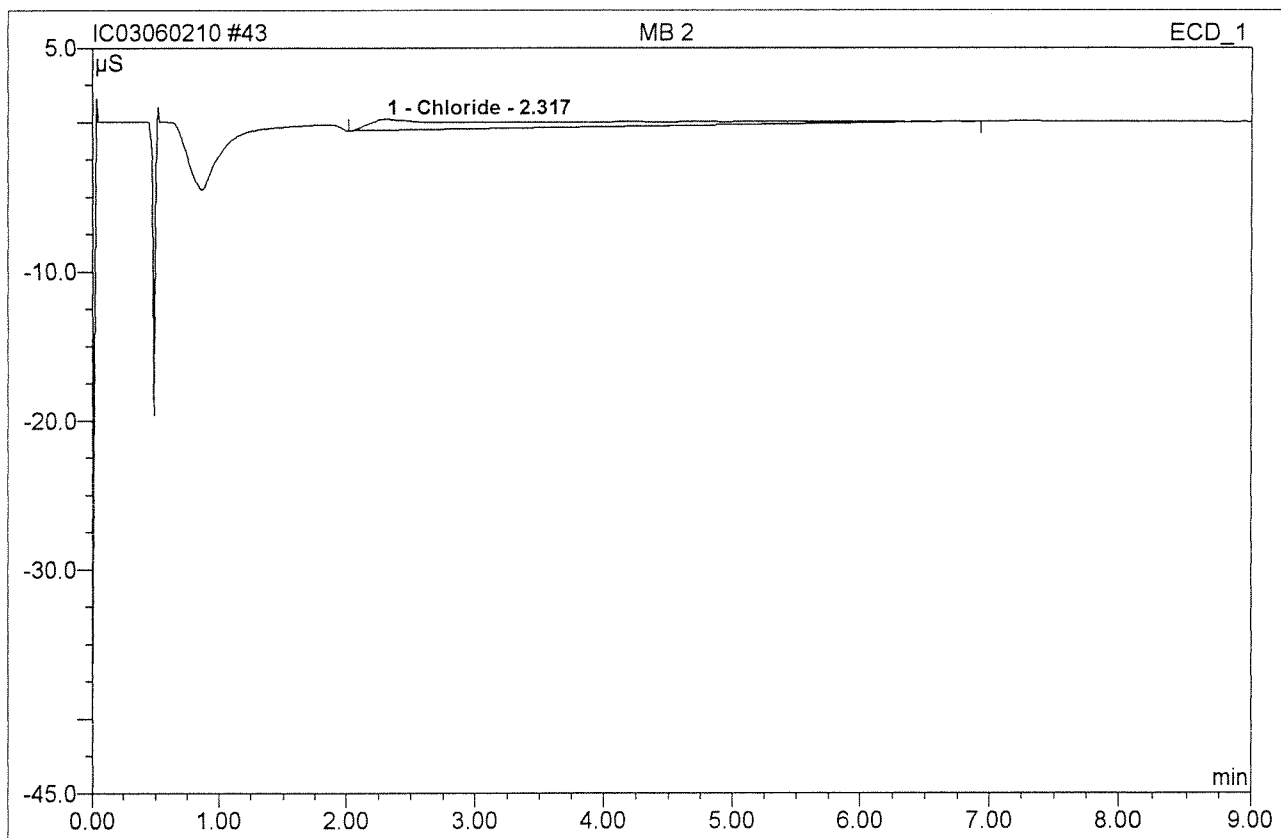
After Initials

43

Handwritten signature/initials

JUN 02 2010

43 MB 2			
MB 2			
Sample Name:	MB 2	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 16:08	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

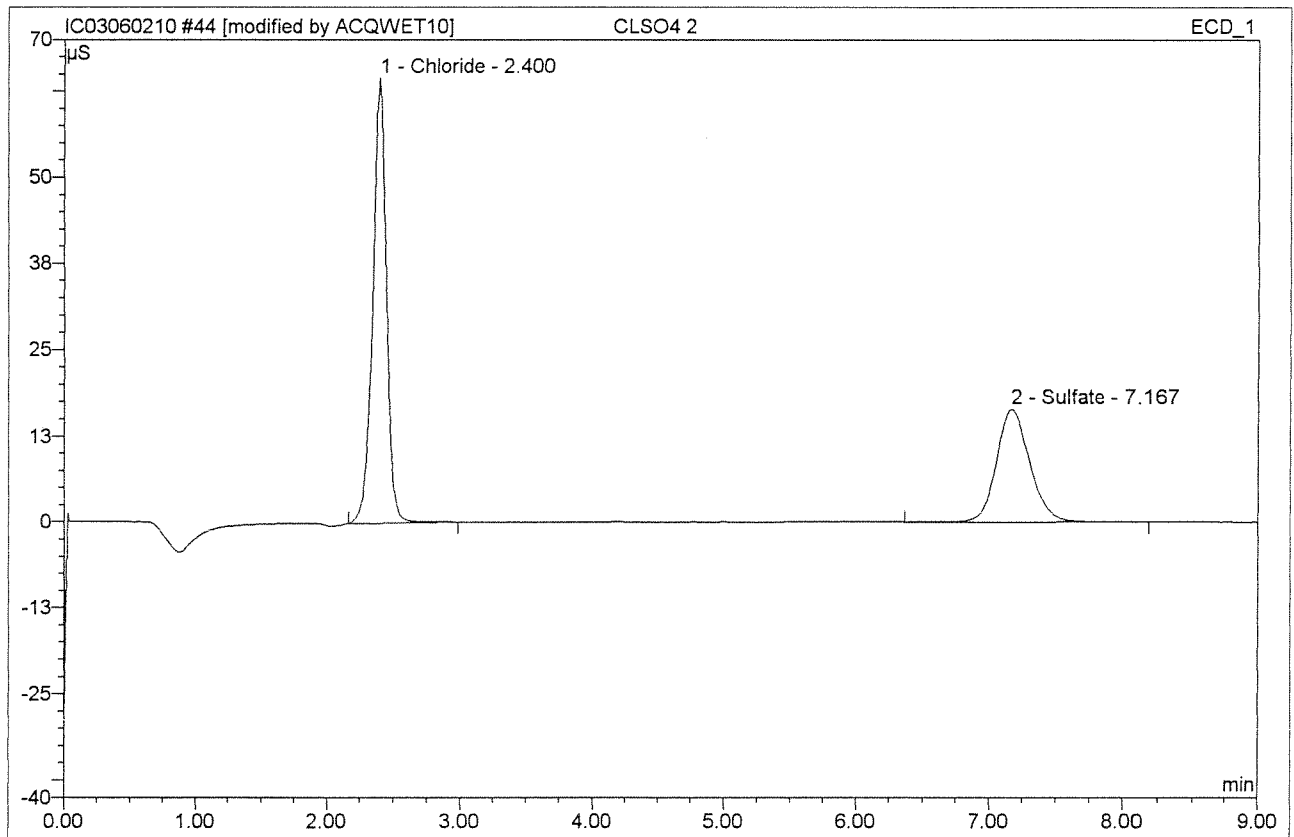


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.32	Chloride	0.742	1.401	100.00	0.898	BMB
Total:			0.742	1.401	100.00	0.898	

Before

JUN 02 2010

44 CLSO4 2			
CLSO4 2			
Sample Name:	CLSO4 2	Injection Volume:	200.0
Vial Number:	42	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 16:19	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.40	Chloride	64.546	7.613	61.65	4.882 98%	BMB*
2	7.17	Sulfate	16.384	4.736	38.35	4.813 96%	BMB*
Total:			80.930	12.349	100.00	9.694	

After Initials

LB

EM 6/4/10

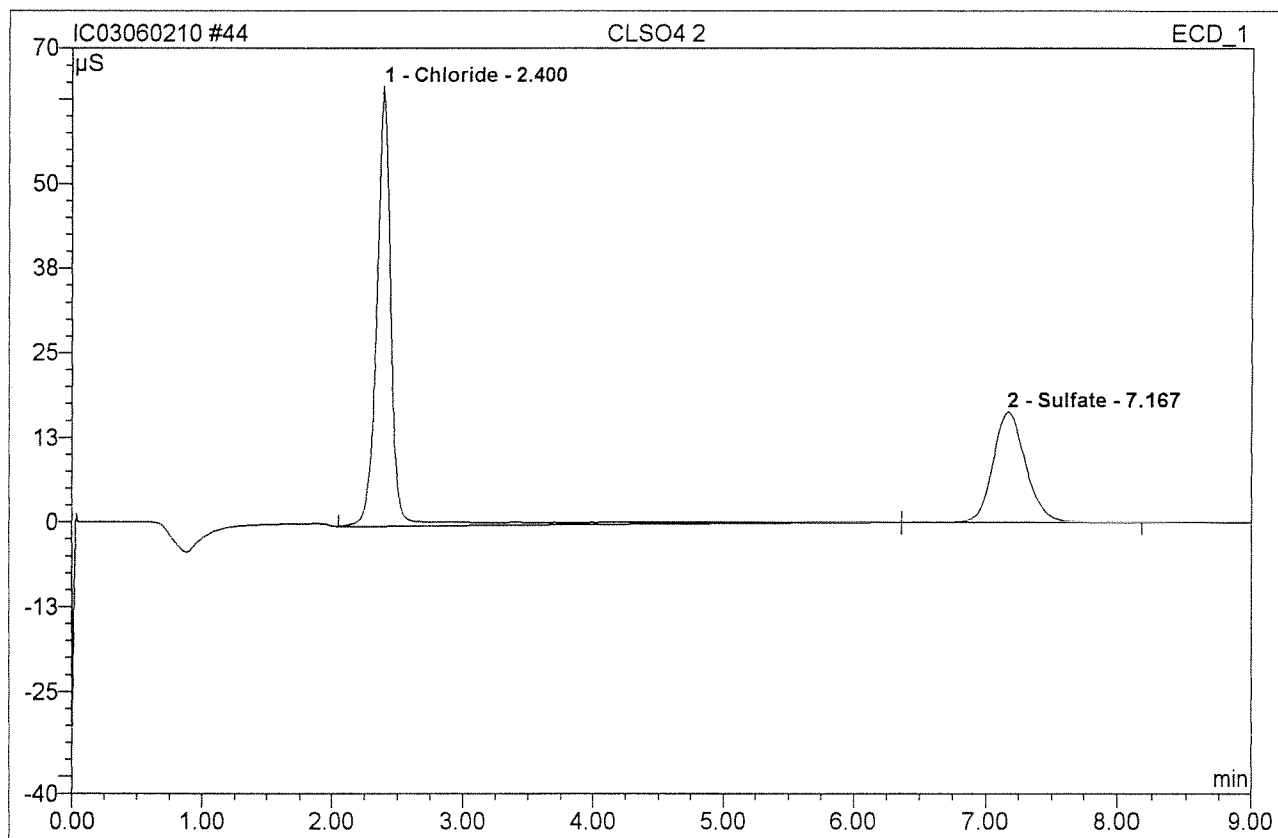
JUN 02 2010

Wrong Peak/Peak not found
 Peak volume should be incorrect
 Other

44 CLSO4 2

CLSO4 2

Sample Name:	CLSO4 2	Injection Volume:	200.0
Vial Number:	42	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 16:19	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

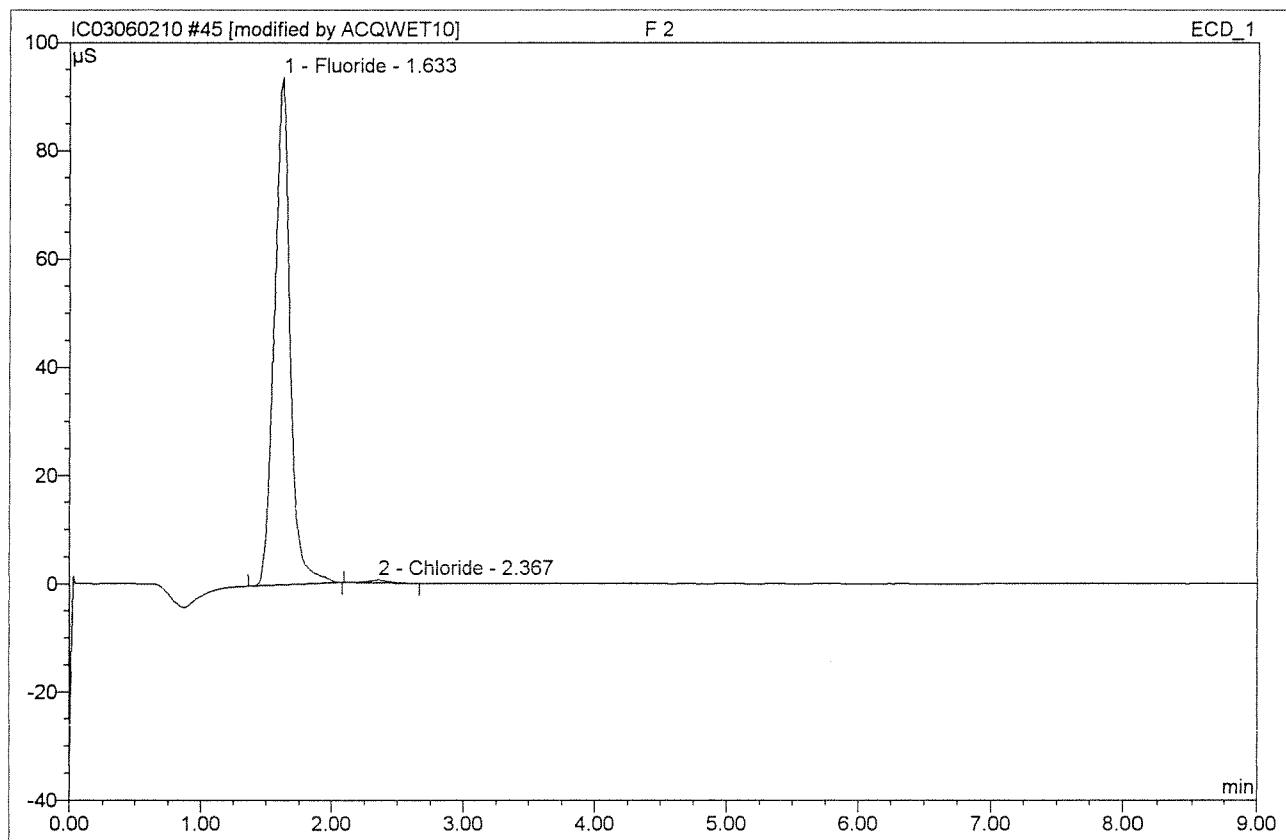


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.40	Chloride	64.958	8.761	64.91	5.618	BMB
2	7.17	Sulfate	16.384	4.736	35.09	4.813	bMB
Total:			81.342	13.497	100.00	10.430	

Before

JUN 02 2010

45 F 2			
F 2			
Sample Name:	F 2	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 16:30	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



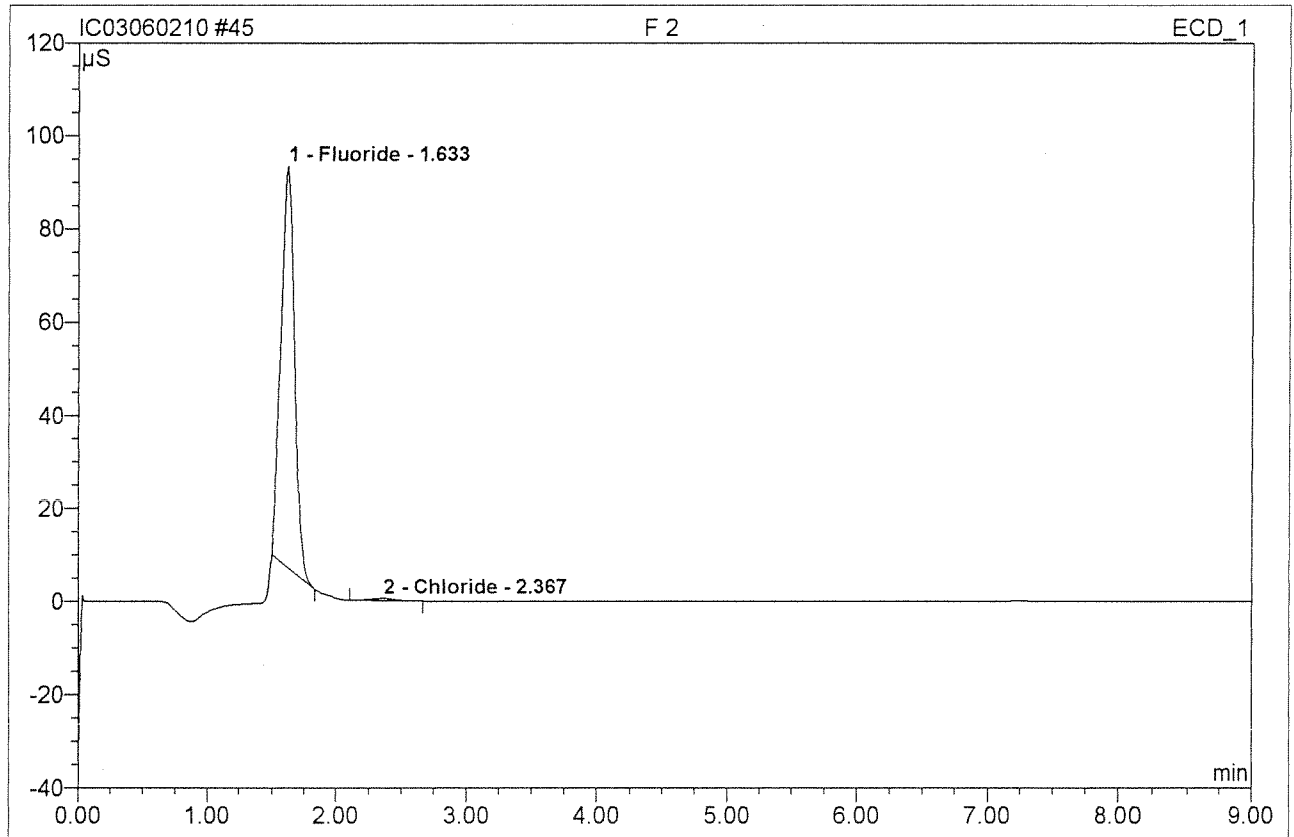
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.63	Fluoride	93.685	13.147	99.24	13.742	BMB*
2	2.37	Chloride	0.556	0.101	0.76	0.129	BMB
Total:			94.241	13.248	100.00	13.871	

After Initials PA

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JUN 02 2010

45 F 2			
F 2			
Sample Name:	F 2	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/2/2010 16:30	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.63	Fluoride	86.347	10.480	99.05	10.954	BMB
2	2.37	Chloride	0.556	0.101	0.95	0.129	BMB
Total:			86.902	10.581	100.00	11.083	

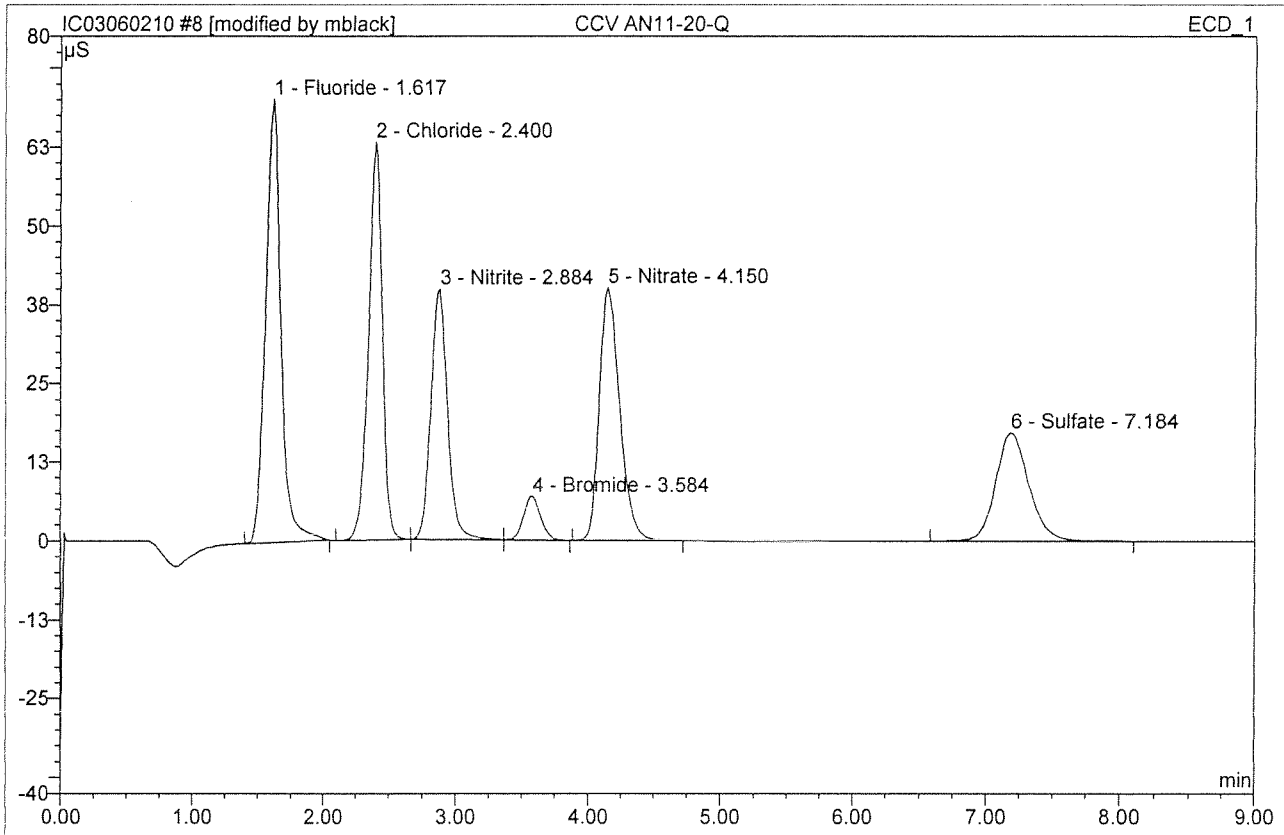
Before

JUN 02 2010

8 CCV AN11-20-Q

CCV1

Sample Name:	CCV AN11-20-Q	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 8:40	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	70.342	9.448	26.25	4.938992	BMB*
2	2.40	Chloride	63.085	7.604	21.13	4.876982	BMB
3	2.88	Nitrite	39.753	5.709	15.86	1.977492	bMB
4	3.58	Bromide	6.884	1.046	2.91	1.952982	bMB
5	4.15	Nitrate	40.152	7.208	20.02	1.957982	BMB
6	7.18	Sulfate	17.246	4.982	13.84	5.063012	BMB
Total:			237.461	35.997	100.00	20.762	

After Initials

MB

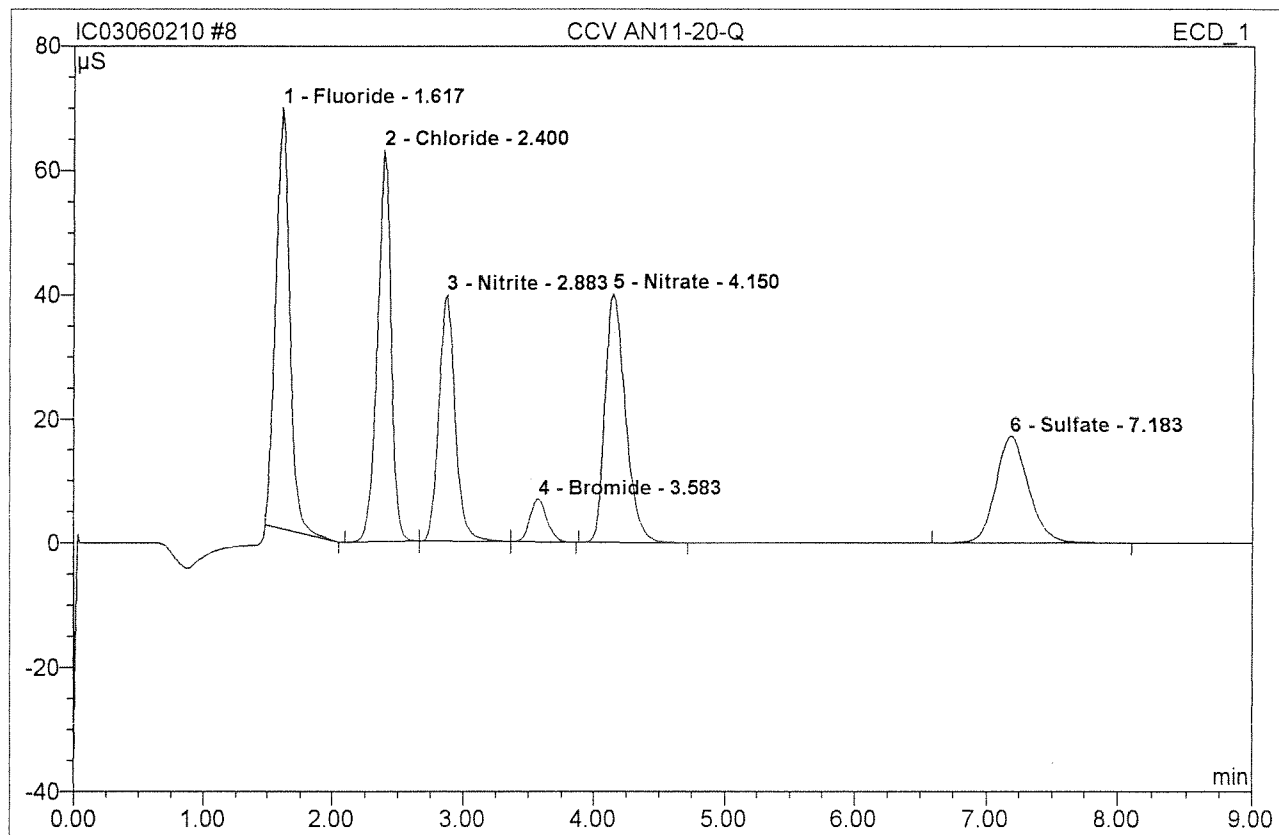
6/4/10

JUN 02 2010

8 CCV AN11-20-Q

CCV1

Sample Name:	CCV AN11-20-Q	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 8:40	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

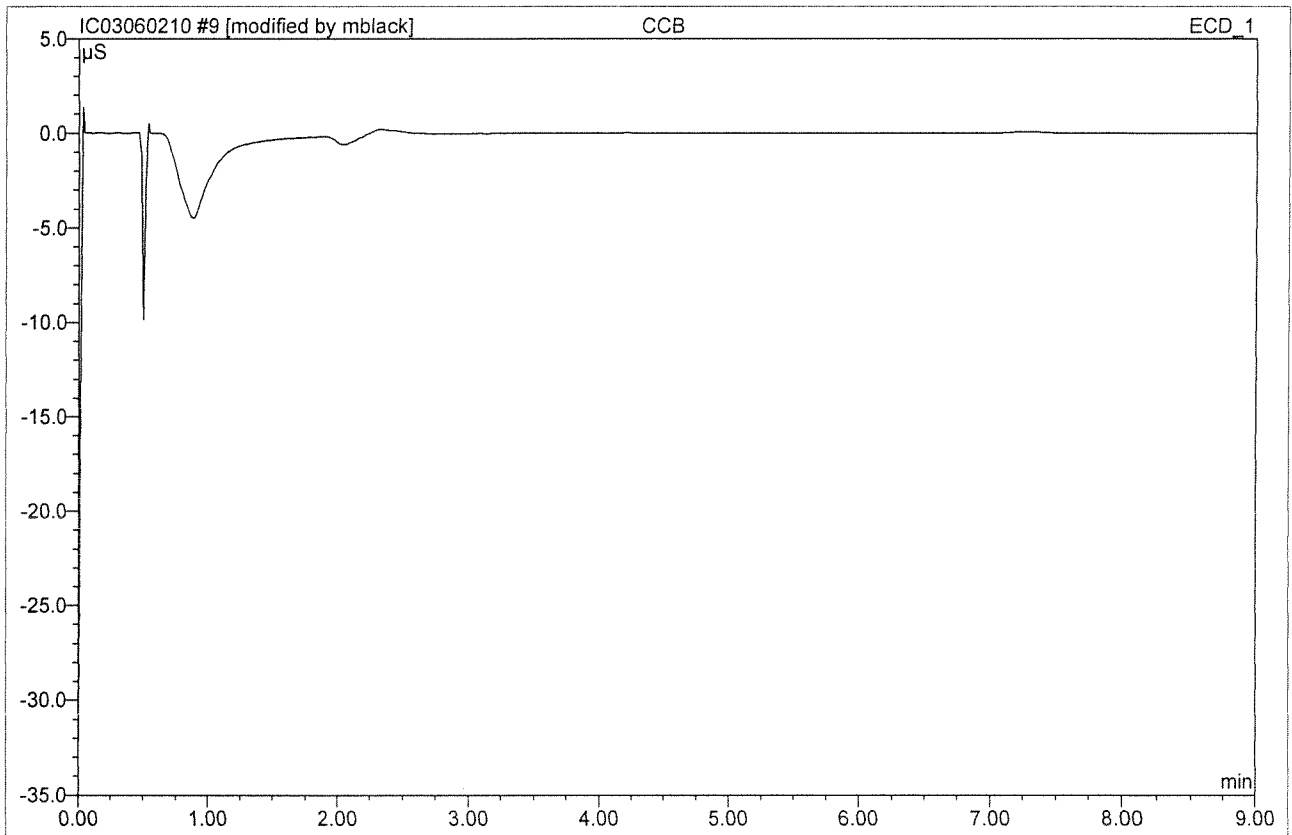


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	67.886	8.483	24.22	4.434	BMB
2	2.40	Chloride	63.085	7.604	21.71	4.876	BMb
3	2.88	Nitrite	39.753	5.709	16.30	1.977	bMb
4	3.58	Bromide	6.884	1.046	2.99	1.952	bMB
5	4.15	Nitrate	40.152	7.208	20.57	1.957	BMB
6	7.18	Sulfate	17.246	4.982	14.22	5.063	BMB
Total:			235.006	35.032	100.00	20.258	

Before

JUN 02 2010

9 CCB			
CCB1			
Sample Name:	CCB	Injection Volume:	200.0
Vial Number:	9	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 8:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



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

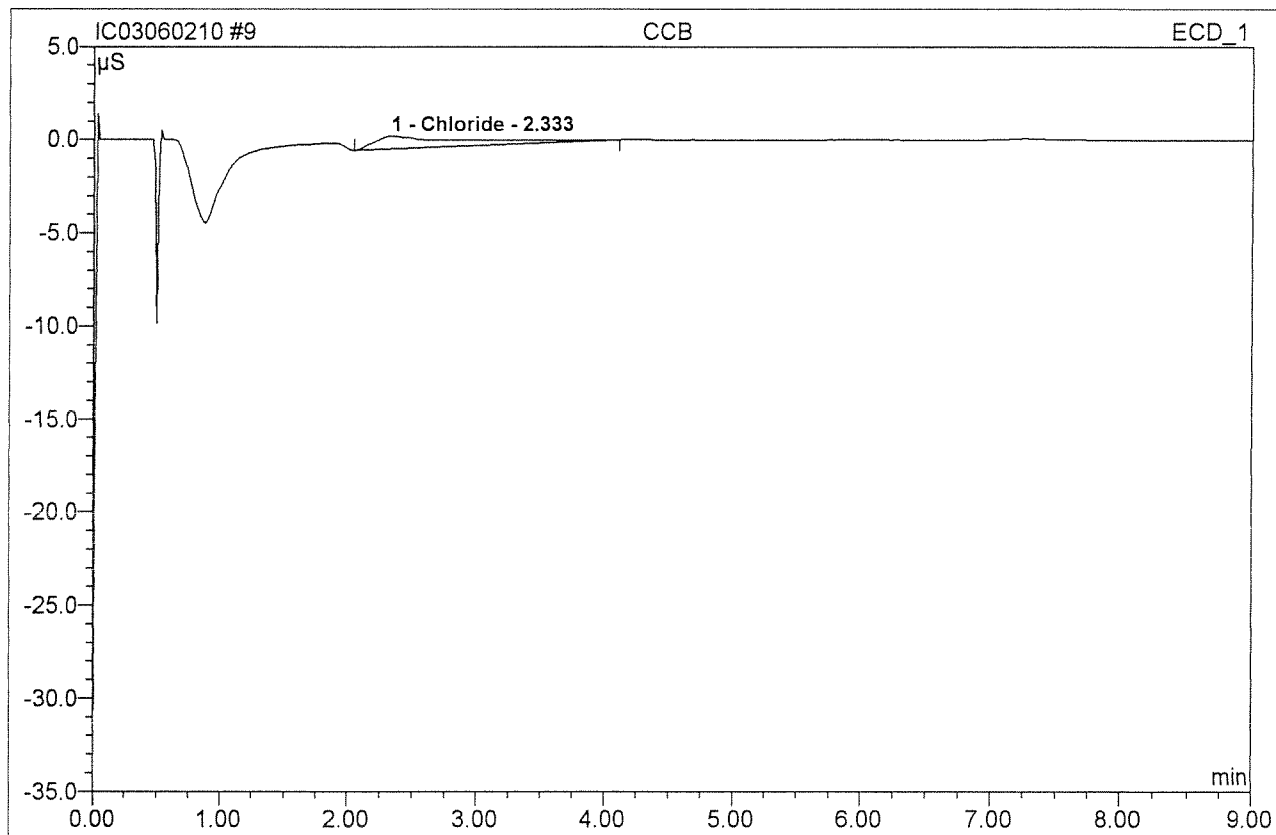
After Initials MB

MB 6/4/10

JUN 02 2010

Wrong Peak/Peak not Found
 Integration shoulder incorrect
 Other

9 CCB			
CCB1			
Sample Name:	CCB	Injection Volume:	200.0
Vial Number:	9	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 8:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

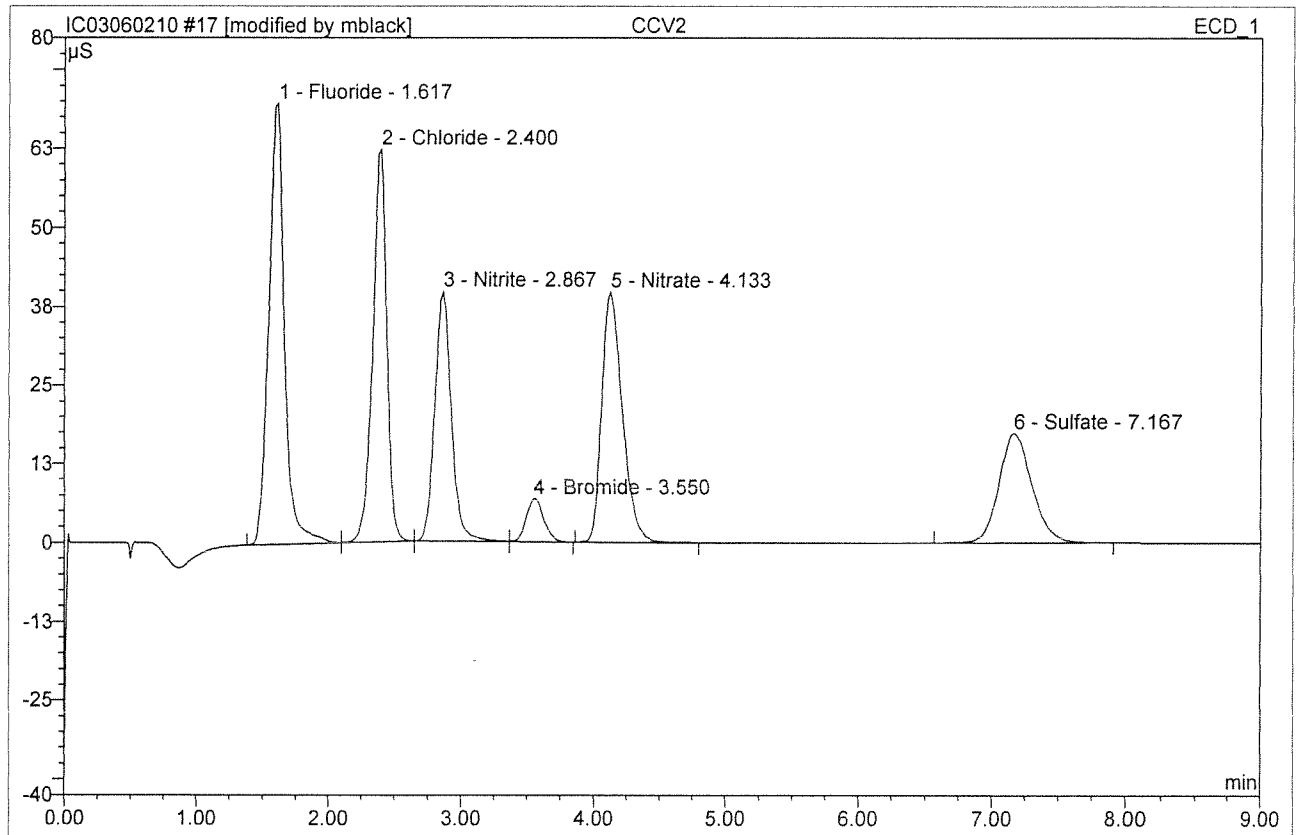


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.706	0.563	100.00	0.361	BMB
Total:			0.706	0.563	100.00	0.361	

Before

JUN 02 2010

17 CCV2			
CCV2			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 10:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	69.919	9.573	26.50	5.003 ^{100%}	BMB*
2	2.40	Chloride	62.247	7.594	21.02	4.869 ^{97%}	bMB*
3	2.87	Nitrite	39.619	5.694	15.76	1.972 ^{97%}	bMB
4	3.55	Bromide	6.829	1.043	2.89	1.946 ^{98%}	bMB
5	4.13	Nitrate	39.709	7.209	19.95	1.957 ^{98%}	BMB
6	7.17	Sulfate	17.417	5.017	13.89	5.098 ^{102%}	BMB
Total:			235.740	36.129	100.00	20.845	

After Initials

MS

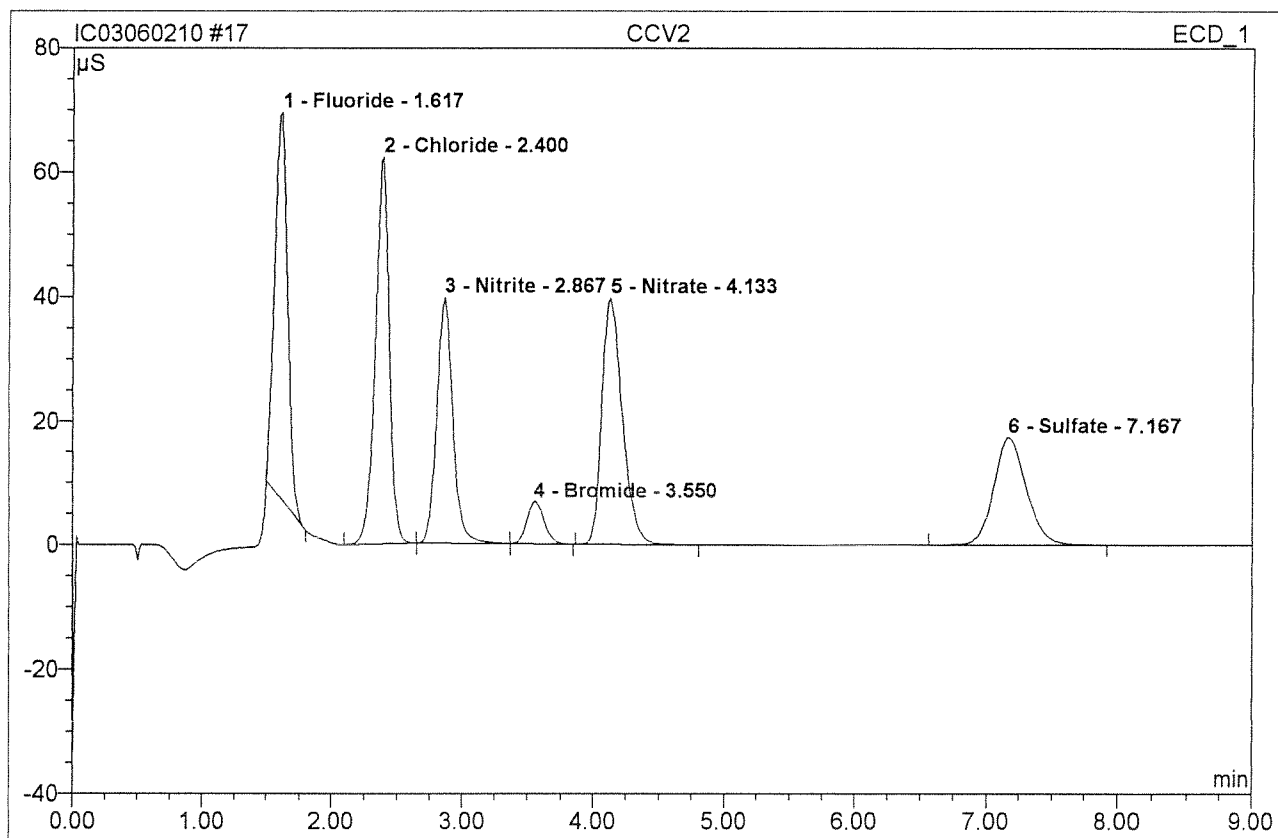
JUN 02 2010

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17 CCV2

CCV2

Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 10:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

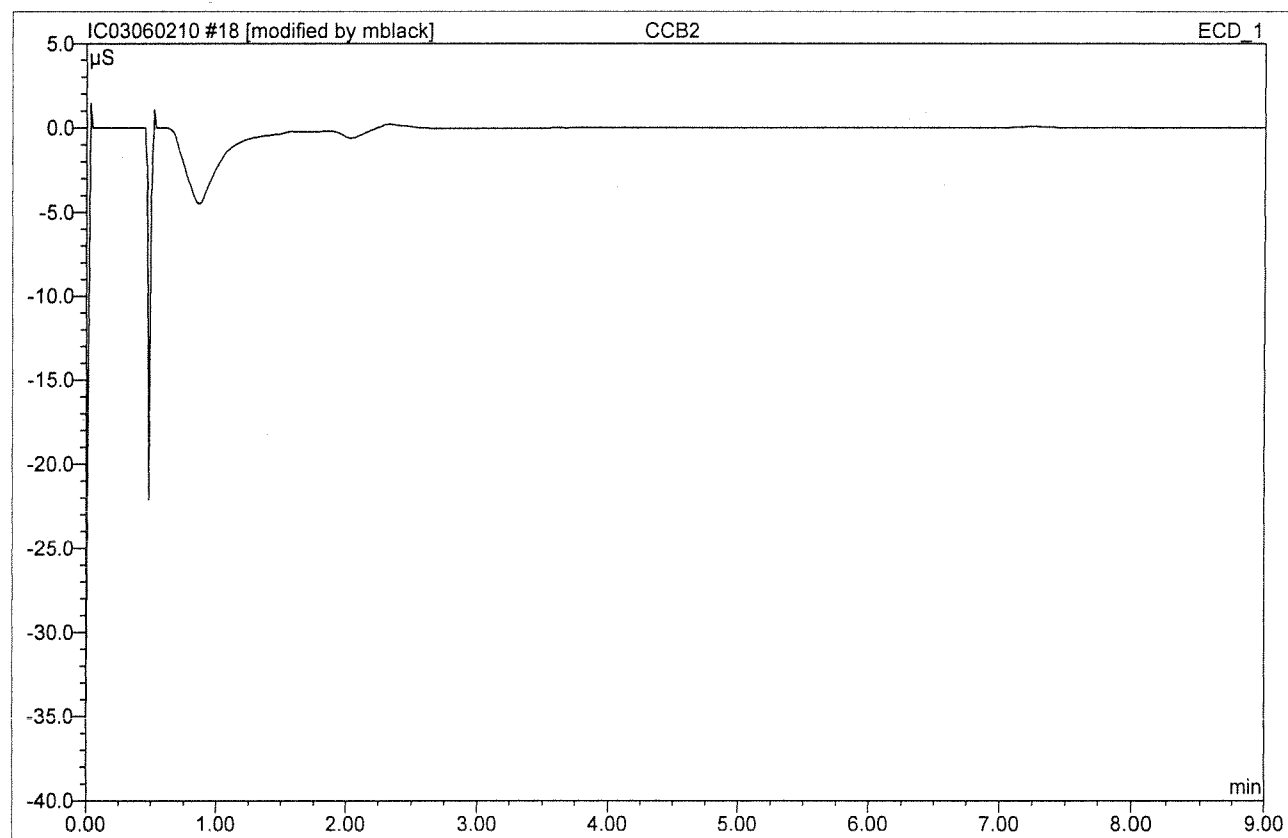


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	62.400	7.084	21.06	3.703	BMB
2	2.40	Chloride	62.247	7.594	22.57	4.869	BMb
3	2.87	Nitrite	39.619	5.694	16.93	1.972	bMb
4	3.55	Bromide	6.829	1.043	3.10	1.946	bMB
5	4.13	Nitrate	39.709	7.209	21.43	1.957	BMB
6	7.17	Sulfate	17.417	5.017	14.91	5.098	BMB
Total:			228.221	33.641	100.00	19.545	

Before

JUN 02 2010

18 CCB2			
CCB2			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 11:01	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



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

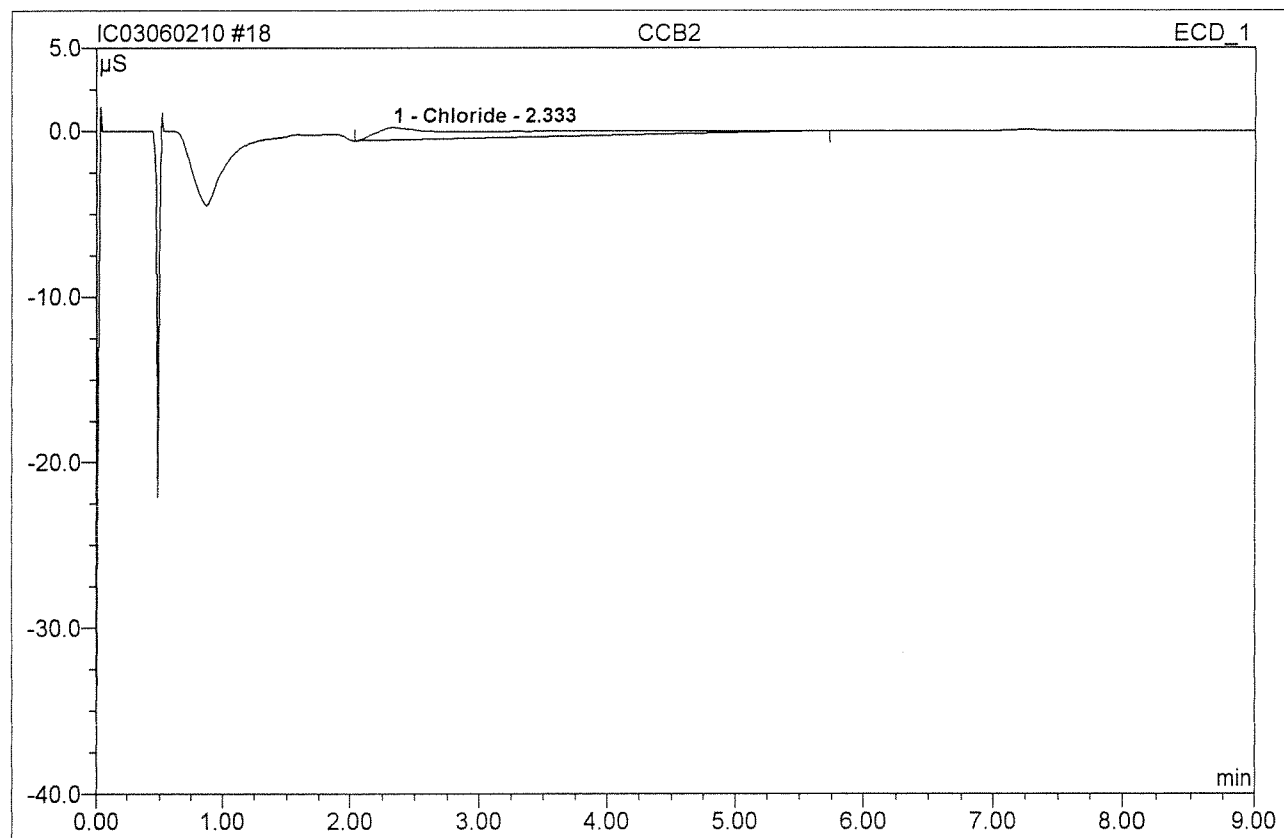
After Initials MB

6/4/10

JUN 02 2010

Along Peak/Peak not Found
 Baseline/Shoulder/Incorrect
 Other

18 CCB2			
CCB2			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 11:01	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.769	1.047	100.00	0.671	BMB
Total:			0.769	1.047	100.00	0.671	

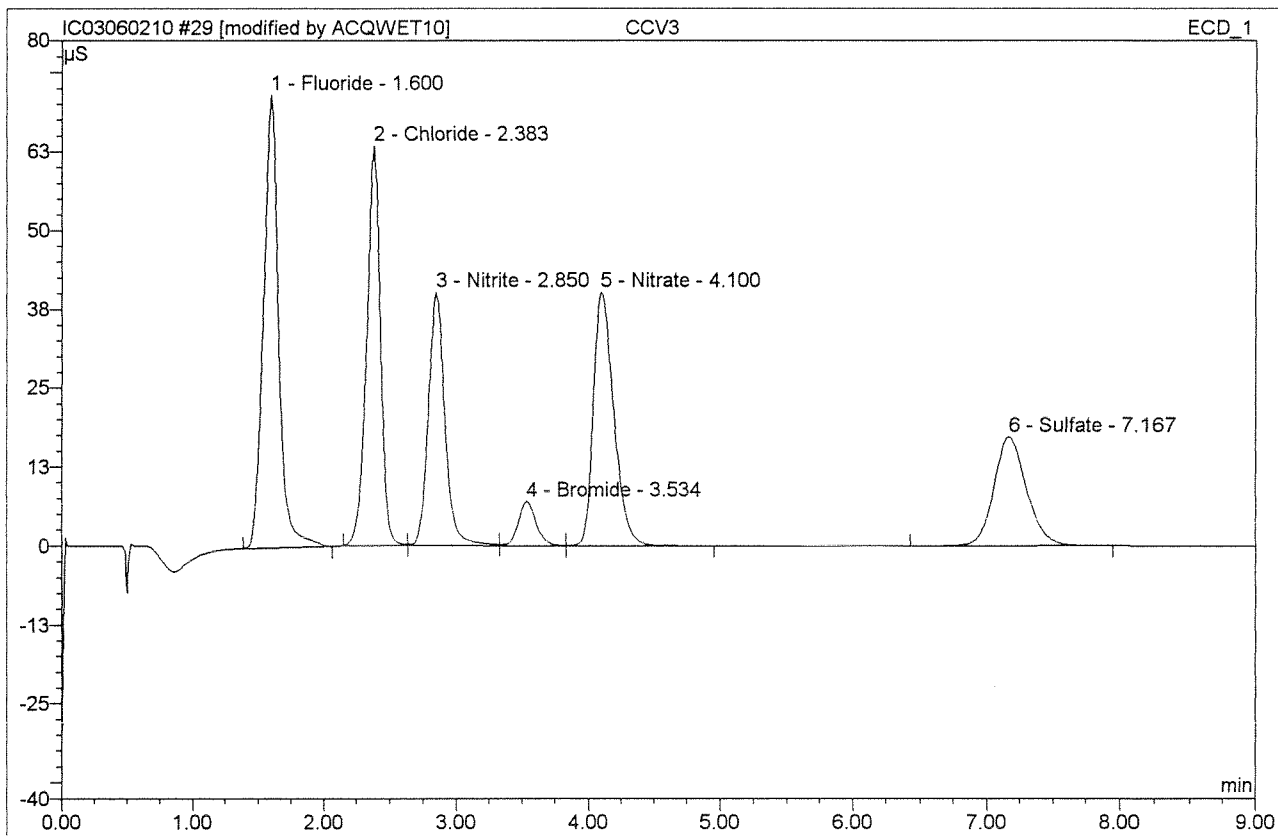
Before

JUN 02 2010

29 CCV3

CCV3

Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	27	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 13:07	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	71.670	9.576	26.51	5.004 ^{100%}	BMB*
2	2.38	Chloride	63.332	7.549	20.90	4.840 ^{97%}	BM *
3	2.85	Nitrite	40.107	5.790	16.03	2.005 ^{101%}	M *
4	3.53	Bromide	7.040	1.082	3.00	2.020 ^{101%}	M *
5	4.10	Nitrate	40.125	7.196	19.92	1.953 ^{98%}	MB*
6	7.17	Sulfate	17.270	4.933	13.65	5.012 ^{100%}	BMB
Total:			239.544	36.125	100.00	20.835	

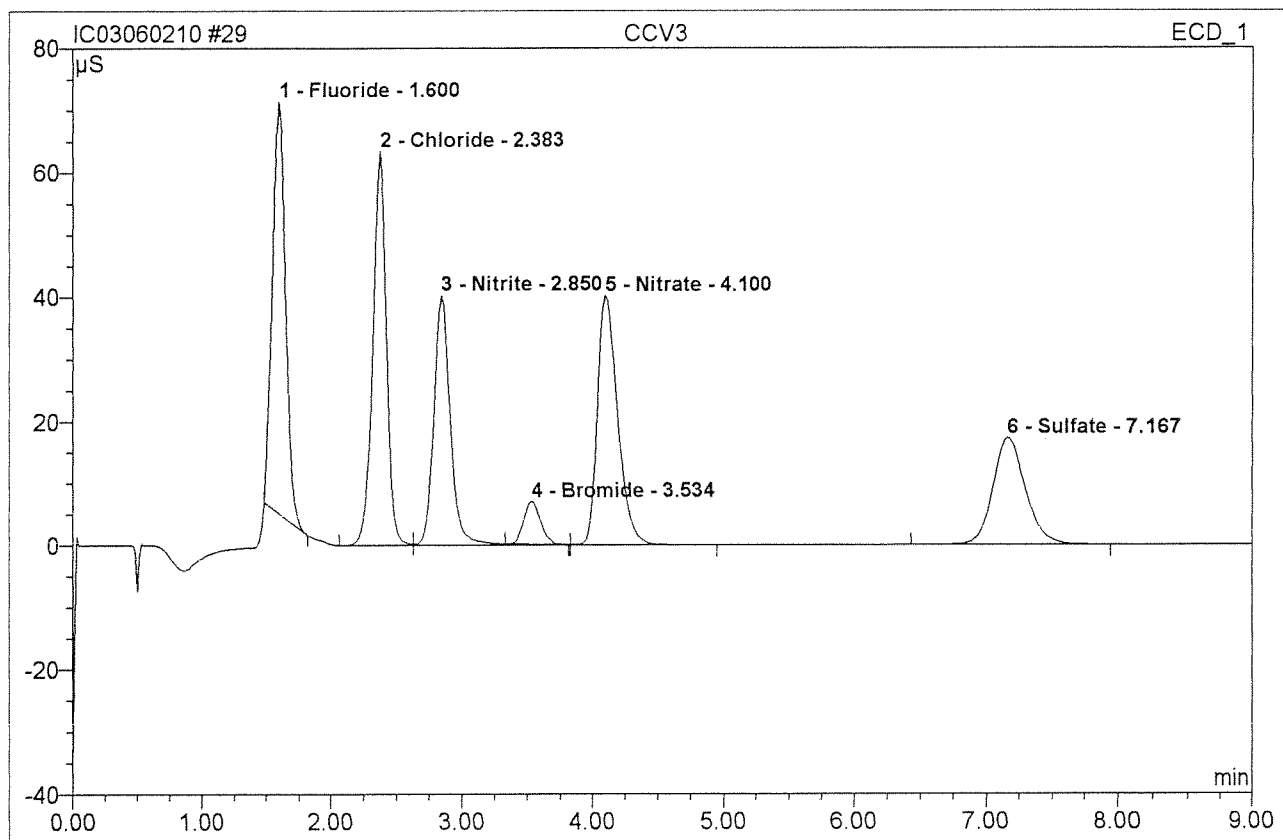
After Initials

MB

6/4/10

JUN 02 2010

29 CCV3			
CCV3			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	27	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 13:07	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

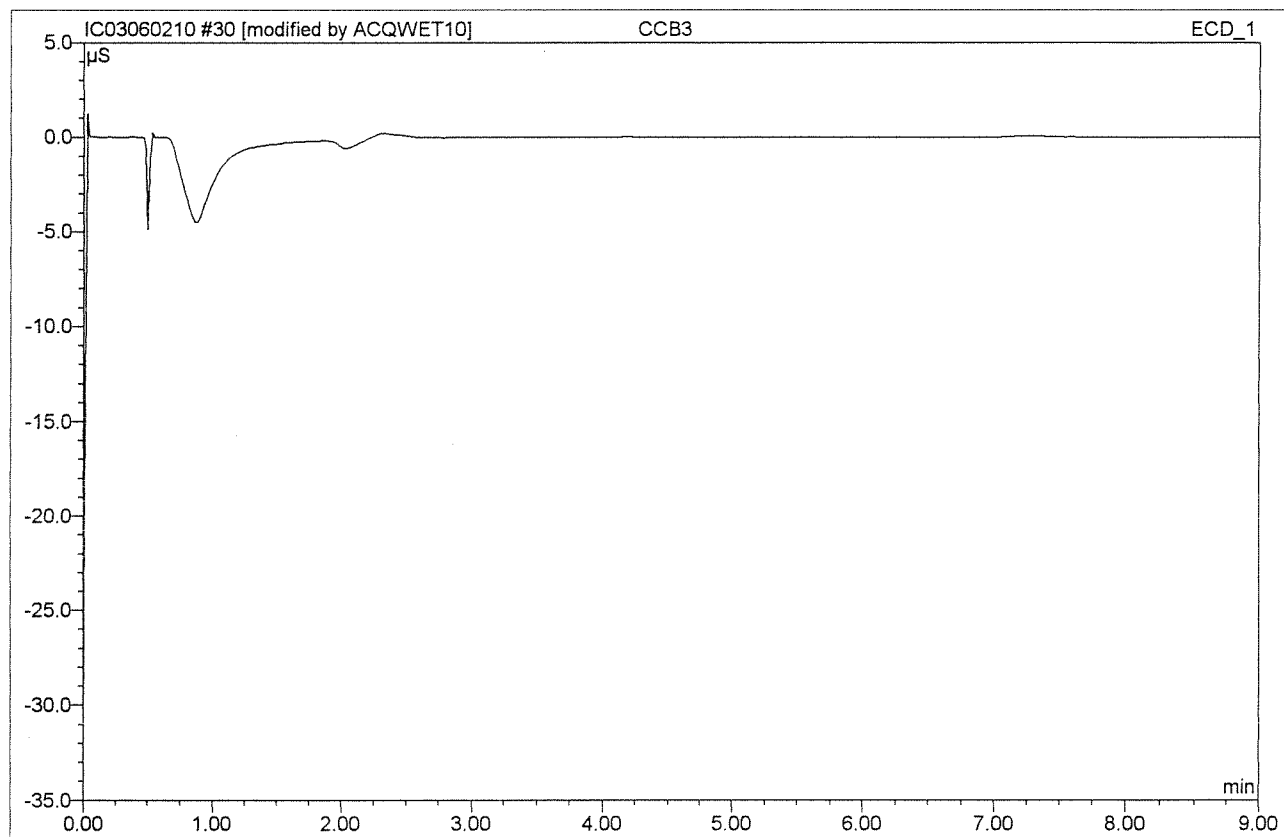


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	66.245	7.700	22.34	4.024	BMB
2	2.38	Chloride	63.474	7.621	22.11	4.887	BM
3	2.85	Nitrite	40.223	5.946	17.25	2.059	M
4	3.53	Bromide	6.941	1.040	3.02	1.940	Rd
5	4.10	Nitrate	40.172	7.231	20.98	1.963	MB
6	7.17	Sulfate	17.270	4.933	14.31	5.012	BMB
Total:			234.325	34.470	100.00	19.886	

Before

JUN 02 2010

30 CCB3			
CCB3			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 13:18	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



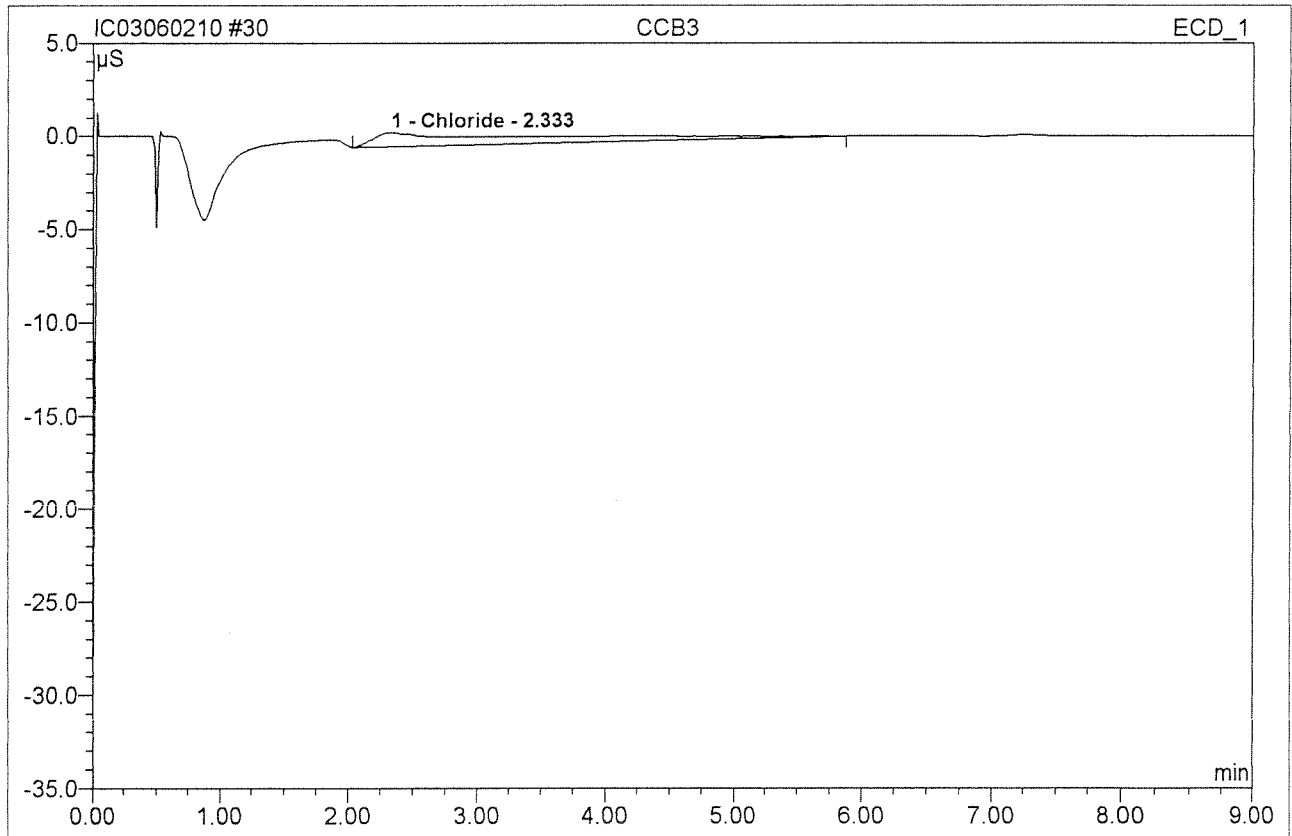
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

After Initials AB

6/4/10

JUN 02 2010

30 CCB3			
CCB3			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 13:18	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

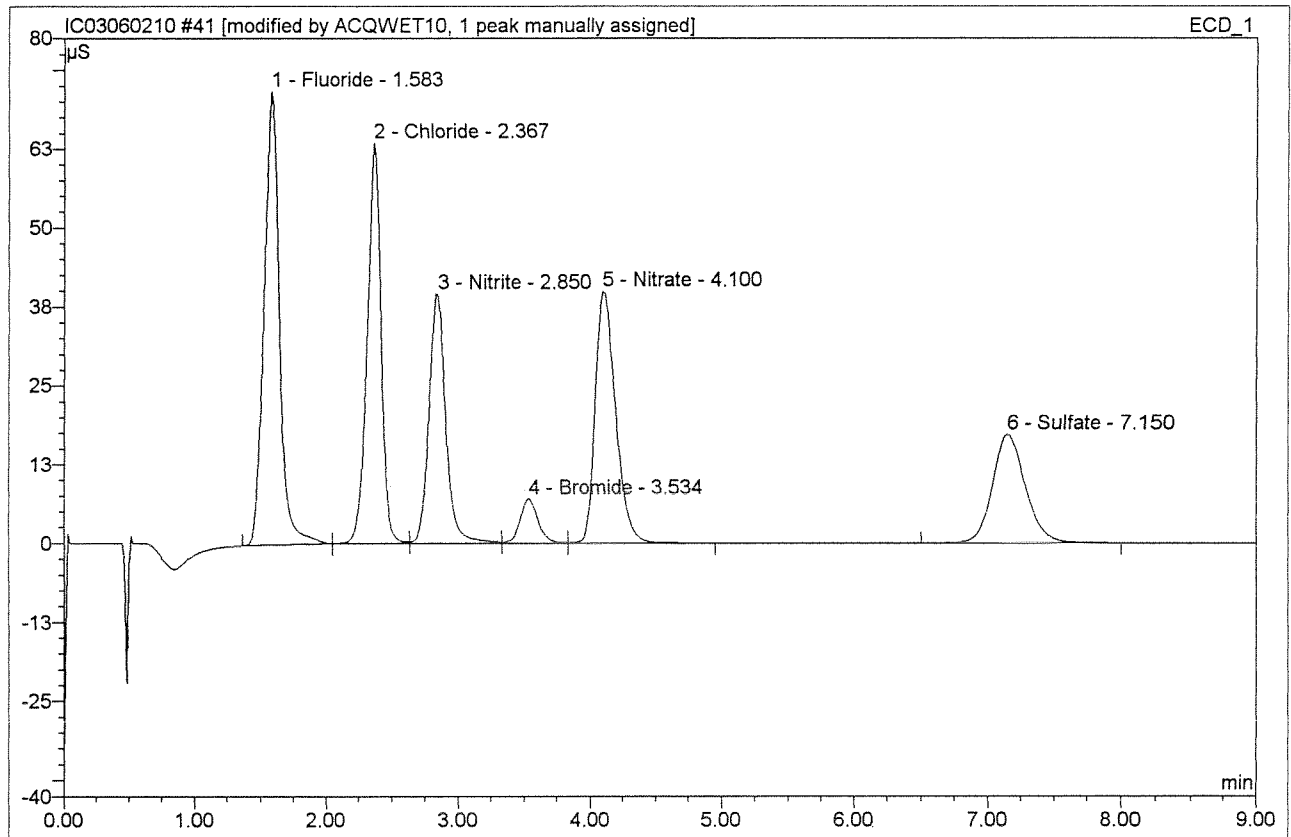


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.754	1.117	100.00	0.716	BMB
Total:			0.754	1.117	100.00	0.716	

Before

JUN 02 2010

41 CCV4			
CCV4			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	39	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 15:45	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	71.905	9.643	26.38	5.039167	BMb*
2	2.37	Chloride	63.476	7.717	21.12	4.949997	bM *^
3	2.85	Nitrite	39.516	5.857	16.02	2.028162	M *
4	3.53	Bromide	7.096	1.125	3.08	2.100108	M *
5	4.10	Nitrate	39.967	7.247	19.83	1.967997	MB
6	7.15	Sulfate	17.285	4.959	13.57	5.039101	BMB
Total:			239.244	36.549	100.00	21.123	

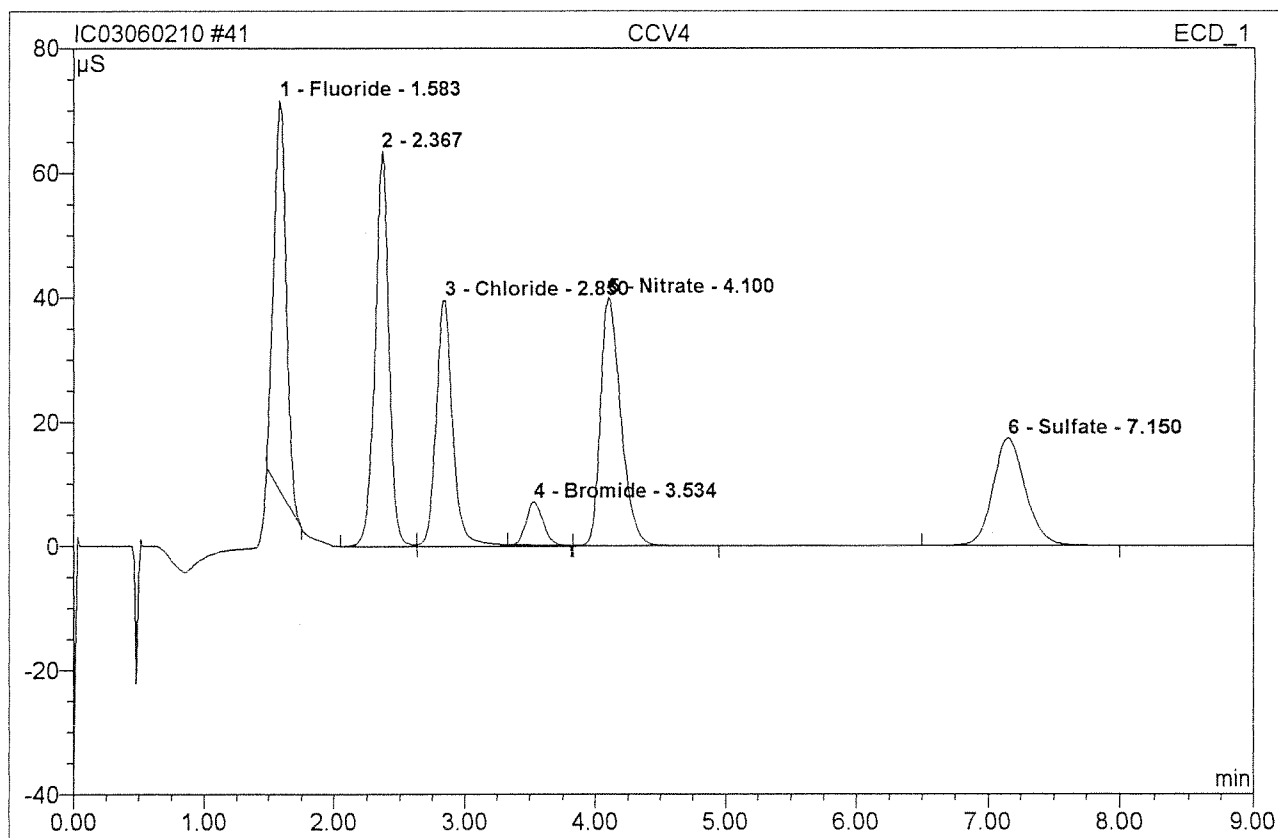
After Initials EB

6/4/10

JUN 02 2010

41 CCV4**CCV4**

Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	39	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 15:45	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

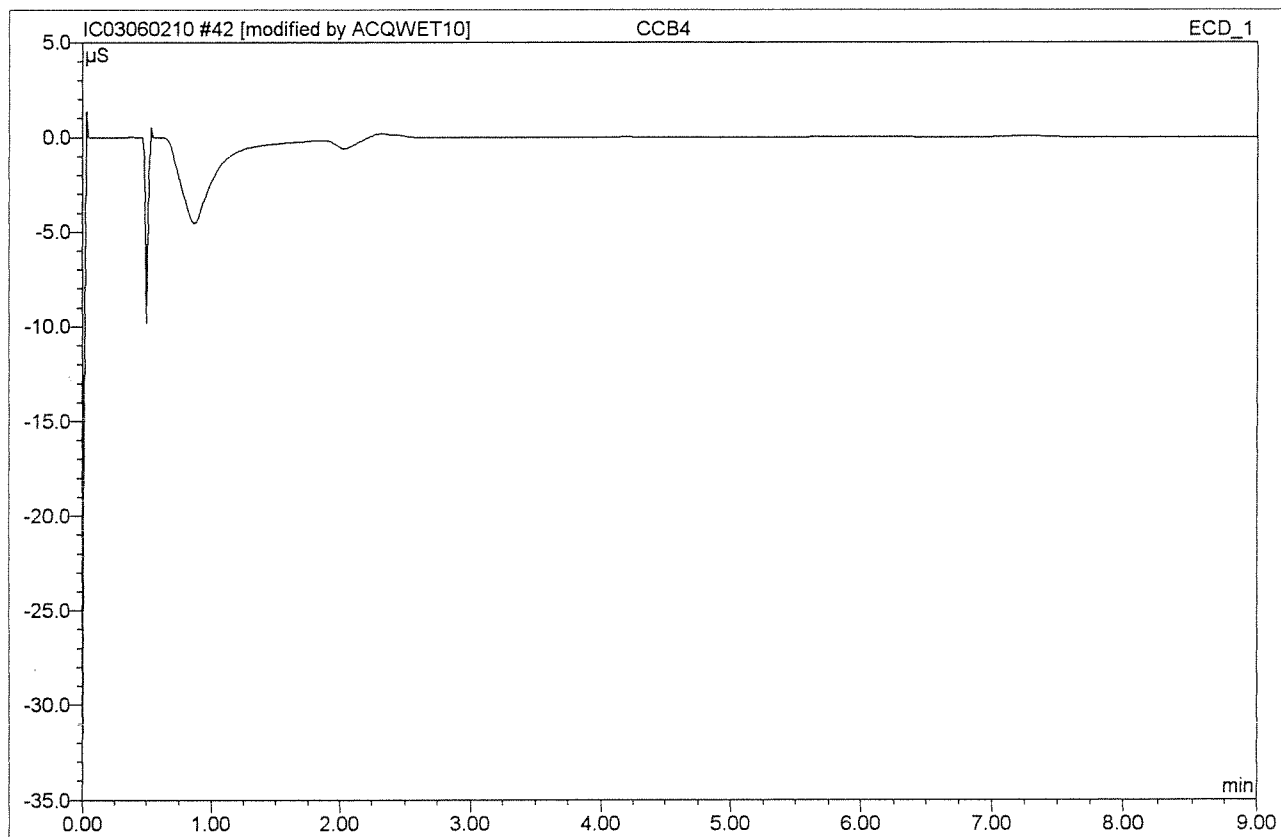


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.58	Fluoride	62.622	6.880	20.36	3.596	BMB
2	2.37	n.a.	63.476	7.717	22.84	n.a.	BM
3	2.85	Chloride	39.516	5.939	17.58	3.808	M
4	3.53	Bromide	6.916	1.044	3.09	1.948	Rd
5	4.10	Nitrate	39.967	7.247	21.45	1.967	MB
6	7.15	Sulfate	17.285	4.959	14.68	5.039	BMB
Total:			229.781	33.786	100.00	16.358	

Before

JUN 02 2010

42 CCB4			
CCB4			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 15:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



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

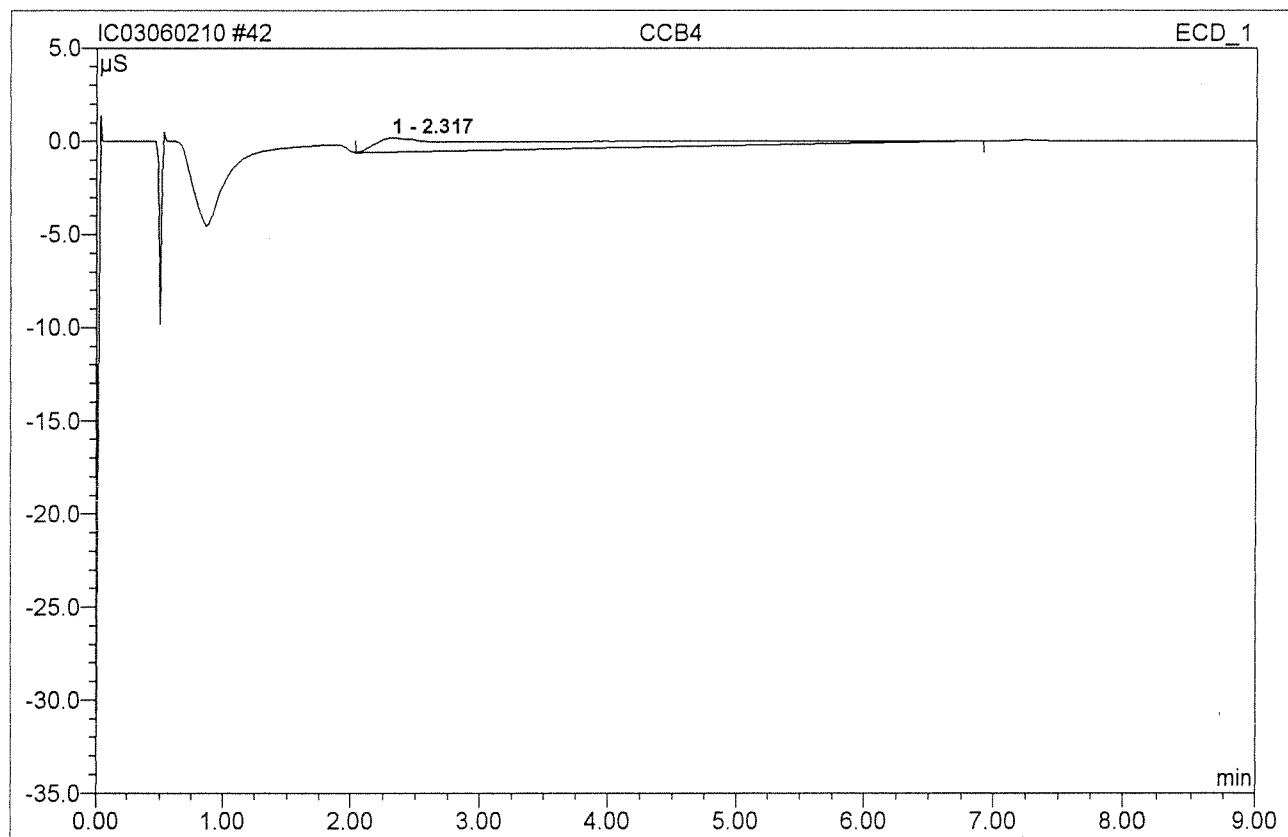
After Initials

MB

JUN 02 2010

JR 6/4/10

42 CCB4			
CCB4			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 15:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

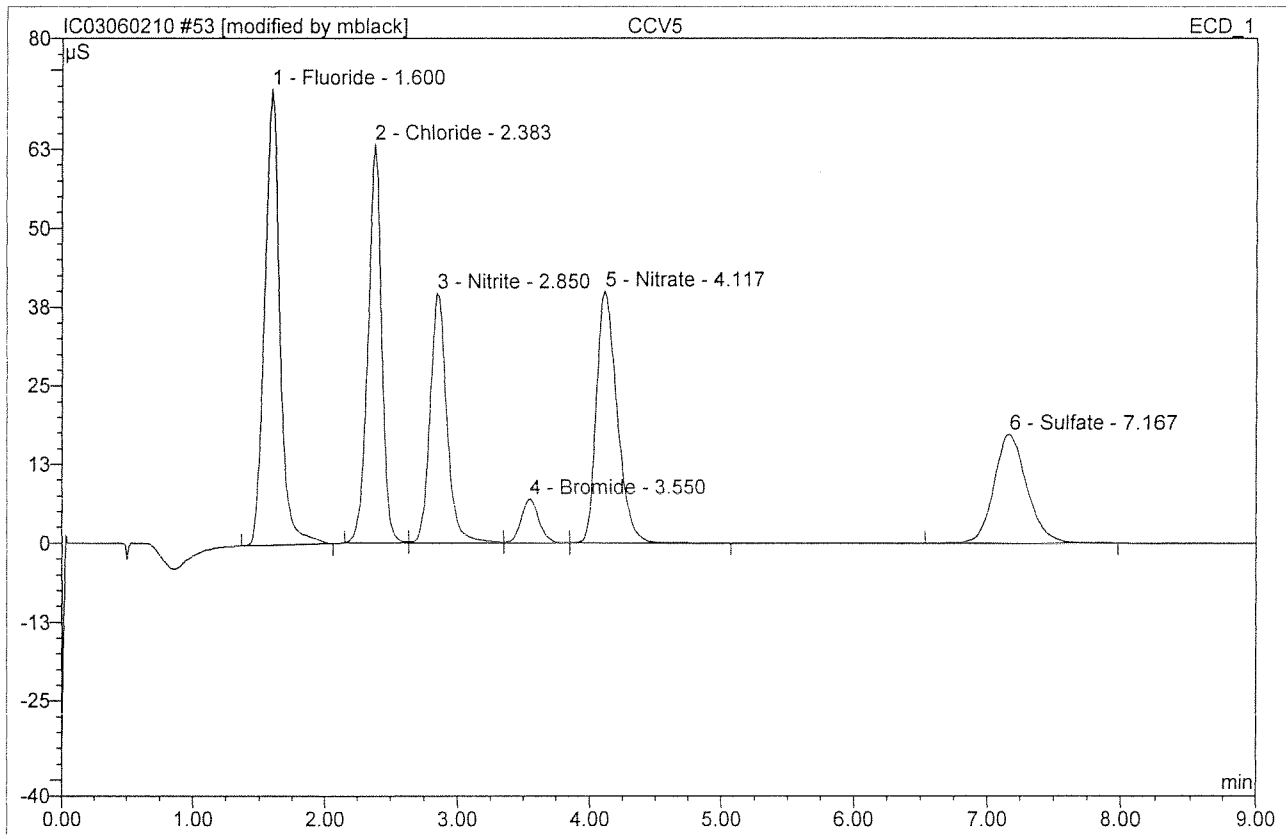


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.32	n.a.	0.750	1.435	100.00	n.a.	BMB
Total:			0.750	1.435	100.00	0.000	

Before

JUN 02 2010

53 CCV5			
CCV5			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	51	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 18:02	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

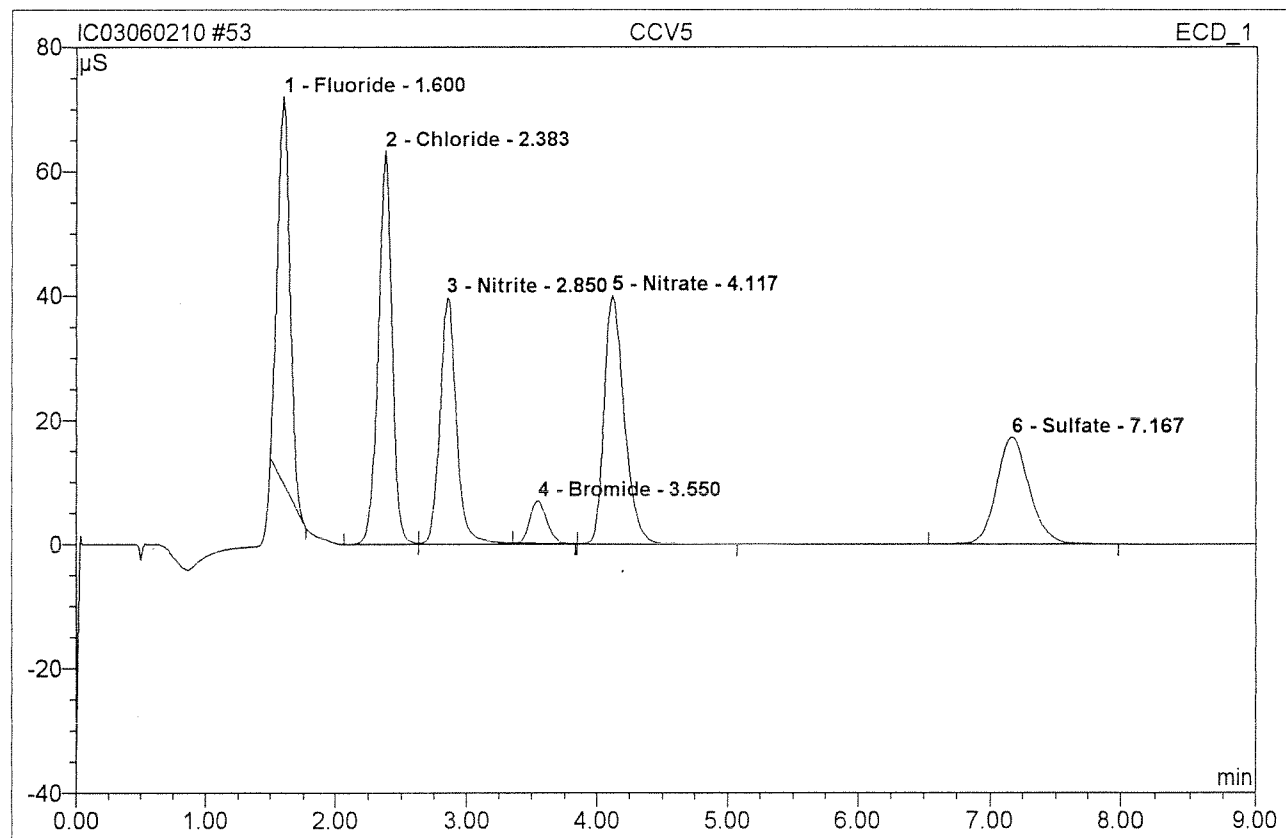


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	72.348	9.664	26.61	5.05101%	BMB*
2	2.38	Chloride	63.211	7.572	20.85	4.85697%	BM *
3	2.85	Nitrite	39.580	5.797	15.97	2.008101%	M *
4	3.55	Bromide	6.988	1.085	2.99	2.024101%	M *
5	4.12	Nitrate	39.978	7.220	19.88	1.96078%	MB*
6	7.17	Sulfate	17.269	4.973	13.69	5.053161%	BMB
Total:			239.374	36.312	100.00	20.951	

MB

6/4/10

53 CCV5			
CCV5			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	51	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 18:02	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

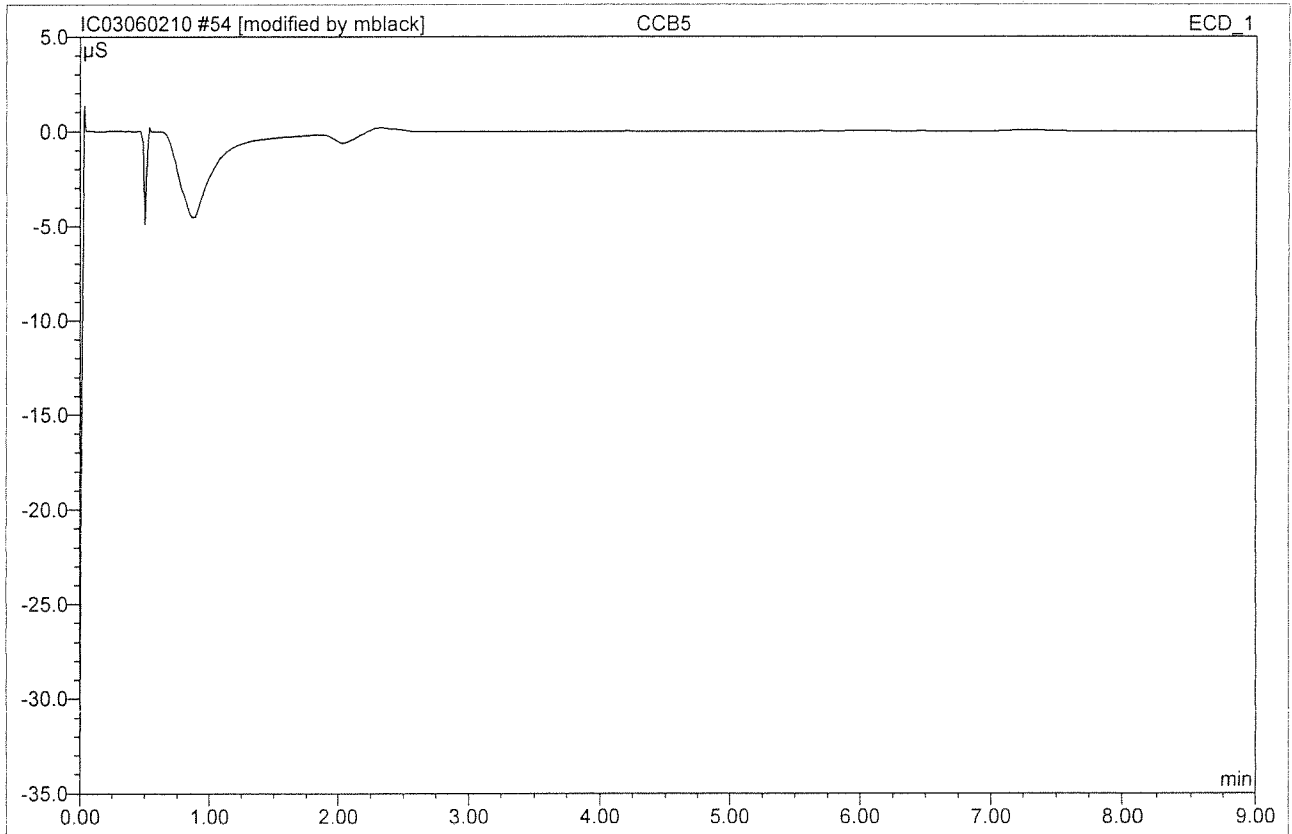


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	62.238	6.696	19.95	3.499	BMB
2	2.38	Chloride	63.350	7.644	22.77	4.901	BM
3	2.85	Nitrite	39.695	5.954	17.74	2.062	M
4	3.55	Bromide	6.892	1.043	3.11	1.947	Rd
5	4.12	Nitrate	40.027	7.259	21.62	1.970	MB
6	7.17	Sulfate	17.269	4.973	14.81	5.053	BMB
Total:			229.470	33.568	100.00	19.433	

Before

JUN 03 2010

54 CCB5			
CCB5			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 18:14	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



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

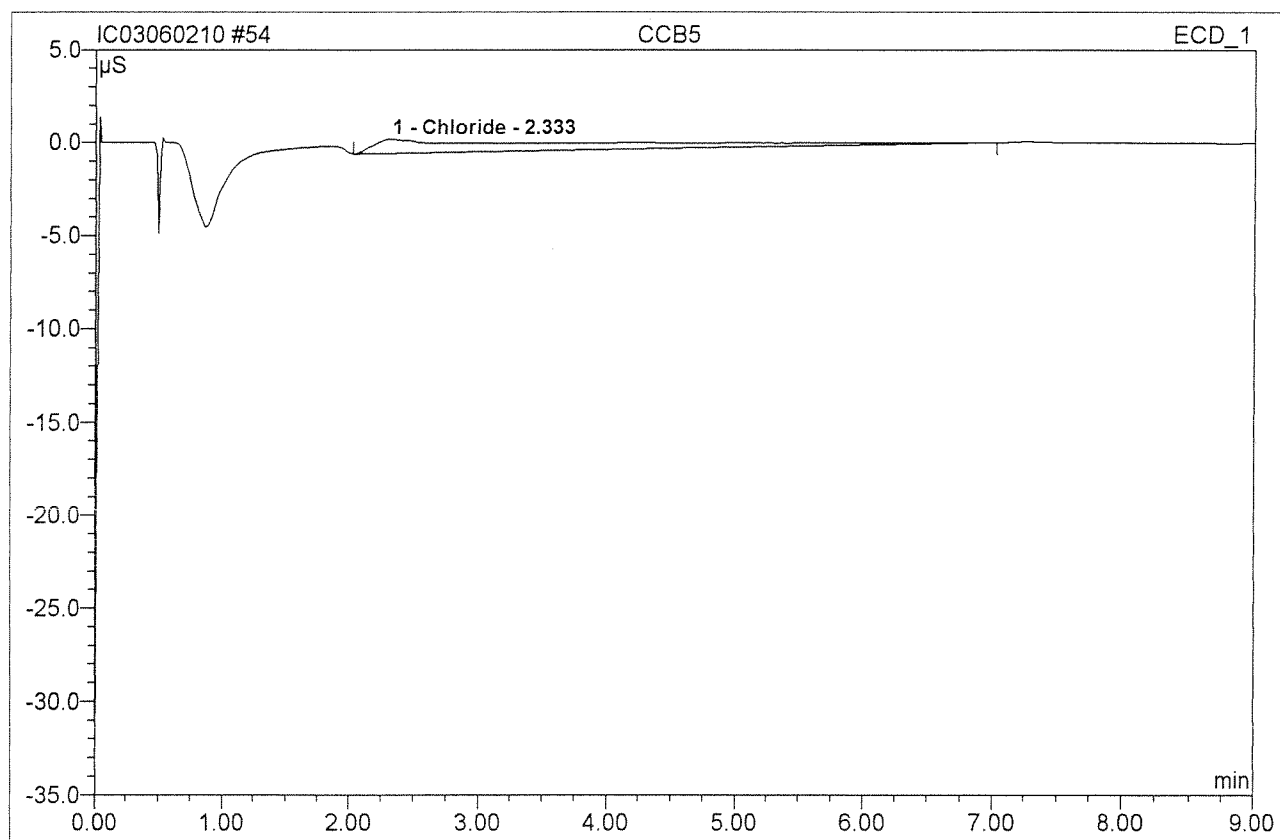
18

03060210

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54 CCB5**CCB5**

Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 18:14	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

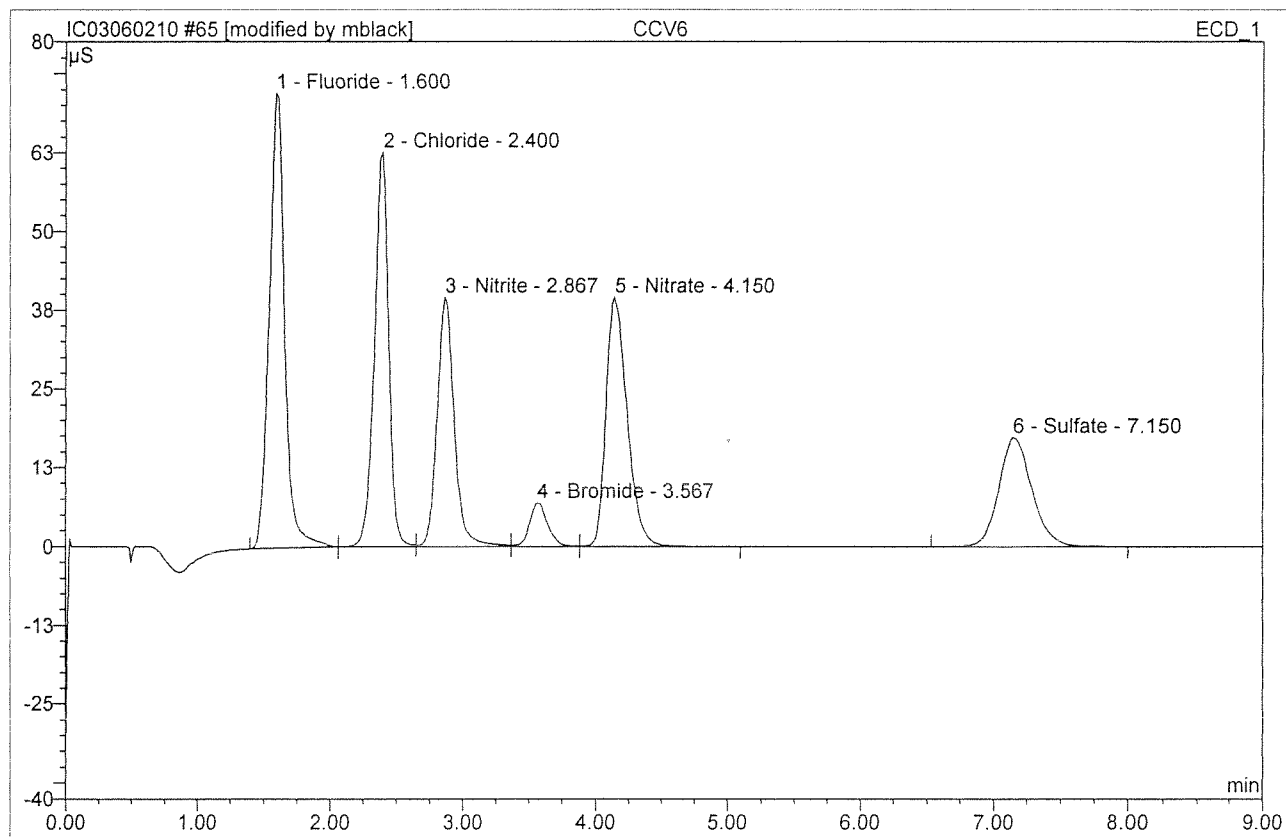


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.762	1.465	100.00	0.939	BMB
Total:			0.762	1.465	100.00	0.939	

Before

JUN 03 2010

65 CCV6			
CCV6			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	63	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 20:20	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

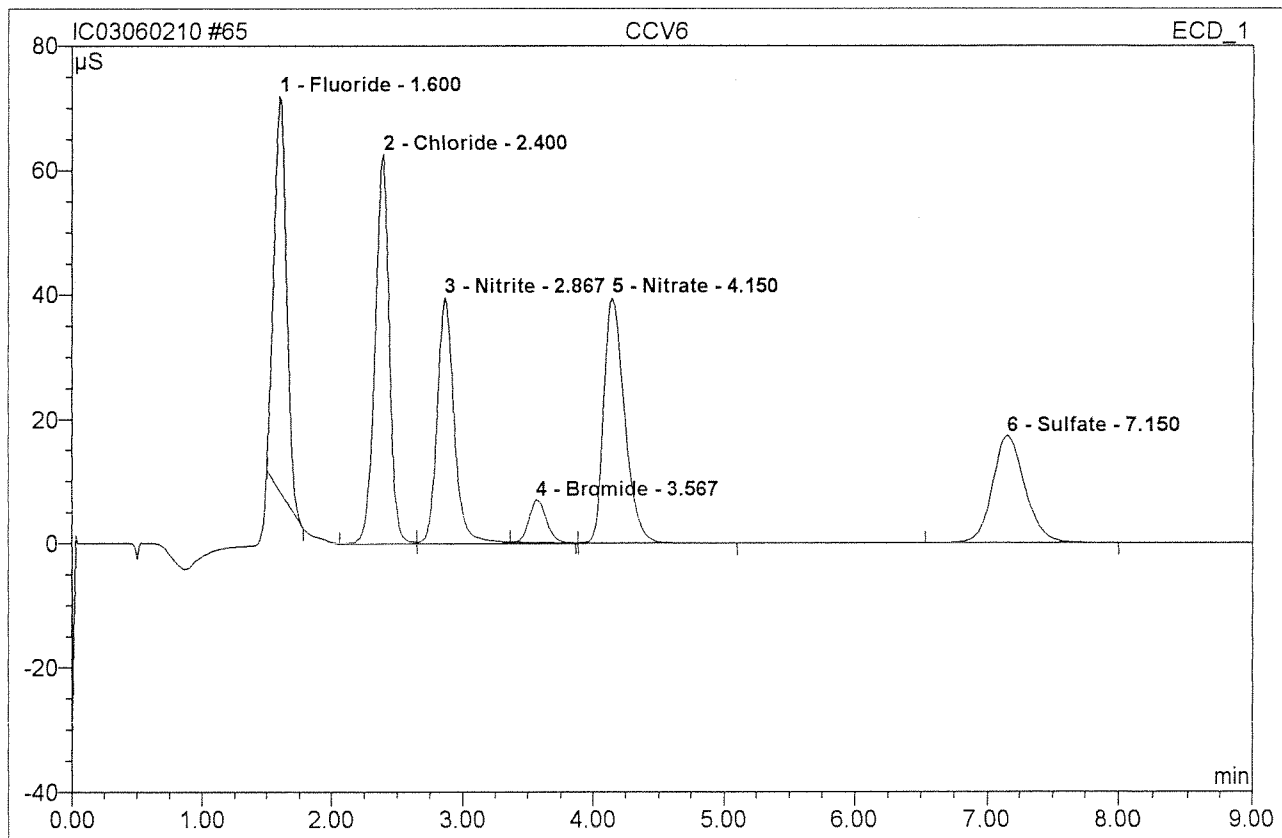


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	72.239	9.735	26.44	5.088 ^{102%}	BMb*
2	2.40	Chloride	62.648	7.743	21.03	4.965 ^{94%}	bM *
3	2.87	Nitrite	39.566	5.910	16.05	2.047 ^{103%}	M *
4	3.57	Bromide	7.034	1.127	3.06	2.104 ^{105%}	M *
5	4.15	Nitrate	39.528	7.311	19.86	1.985 ^{100%}	MB
6	7.15	Sulfate	17.281	4.990	13.55	5.071 ^{101%}	BMB
Total:			238.294	36.816	100.00	21.259	

MS

6/4/10

65 CCV6			
CCV6			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	63	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 20:20	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

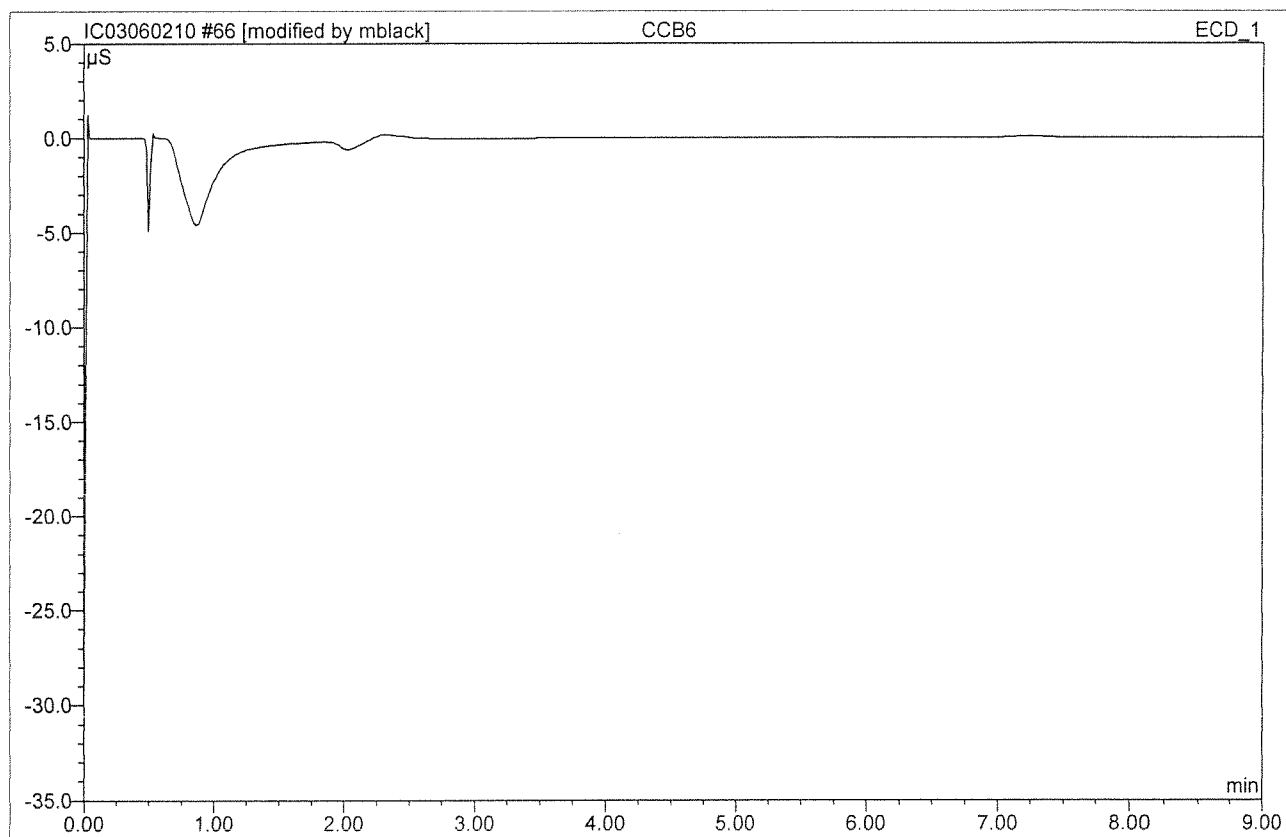


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.60	Fluoride	63.470	7.102	20.78	3.712	BMB
2	2.40	Chloride	62.648	7.743	22.65	4.965	BM
3	2.87	Nitrite	39.566	5.997	17.54	2.077	M
4	3.57	Bromide	6.847	1.040	3.04	1.942	Rd
5	4.15	Nitrate	39.528	7.311	21.39	1.985	MB
6	7.15	Sulfate	17.281	4.990	14.60	5.071	BMB
Total:			229.339	34.183	100.00	19.751	

Before

JUN 03 2010

66 CCB6			
CCB6			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 20:31	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

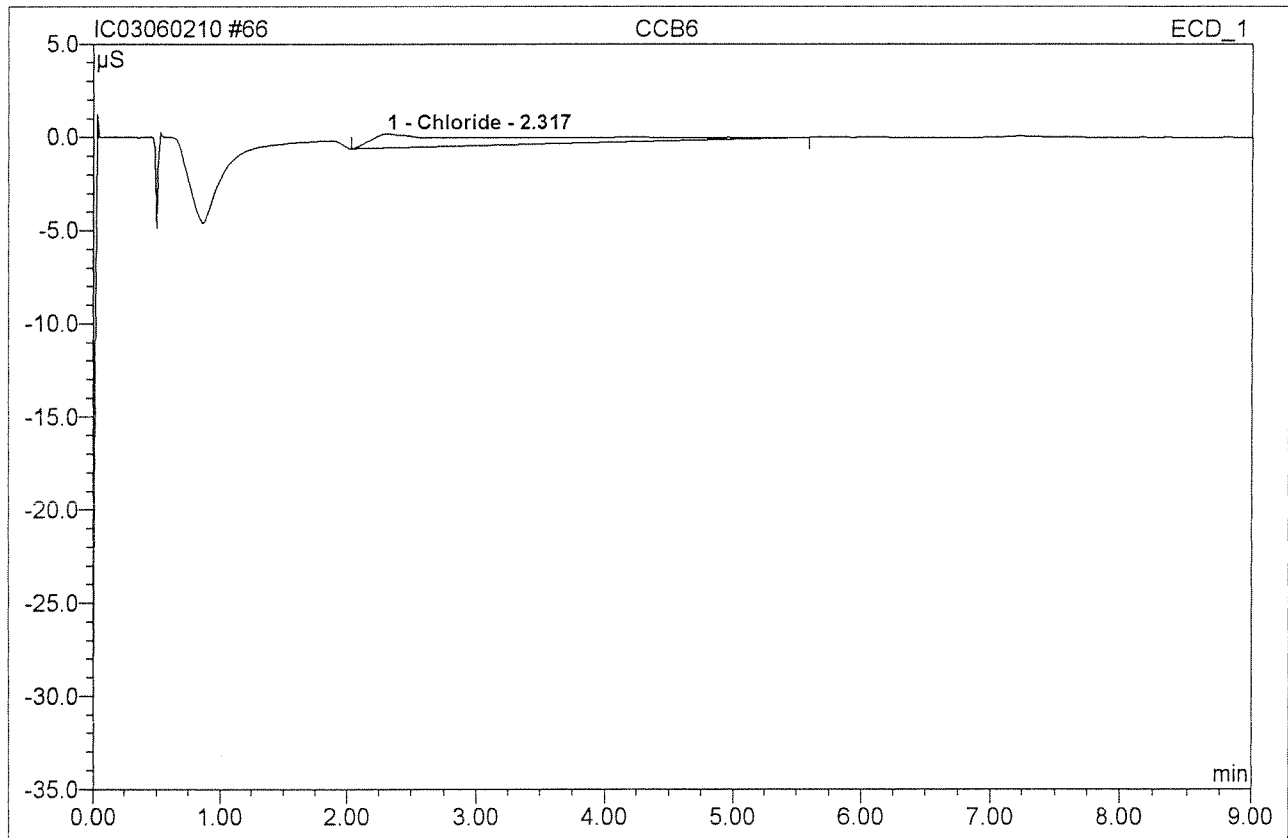


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

mblack
 JUN 03 2010
 142

BL 6/4/10

66 CCB6			
CCB6			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 20:31	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

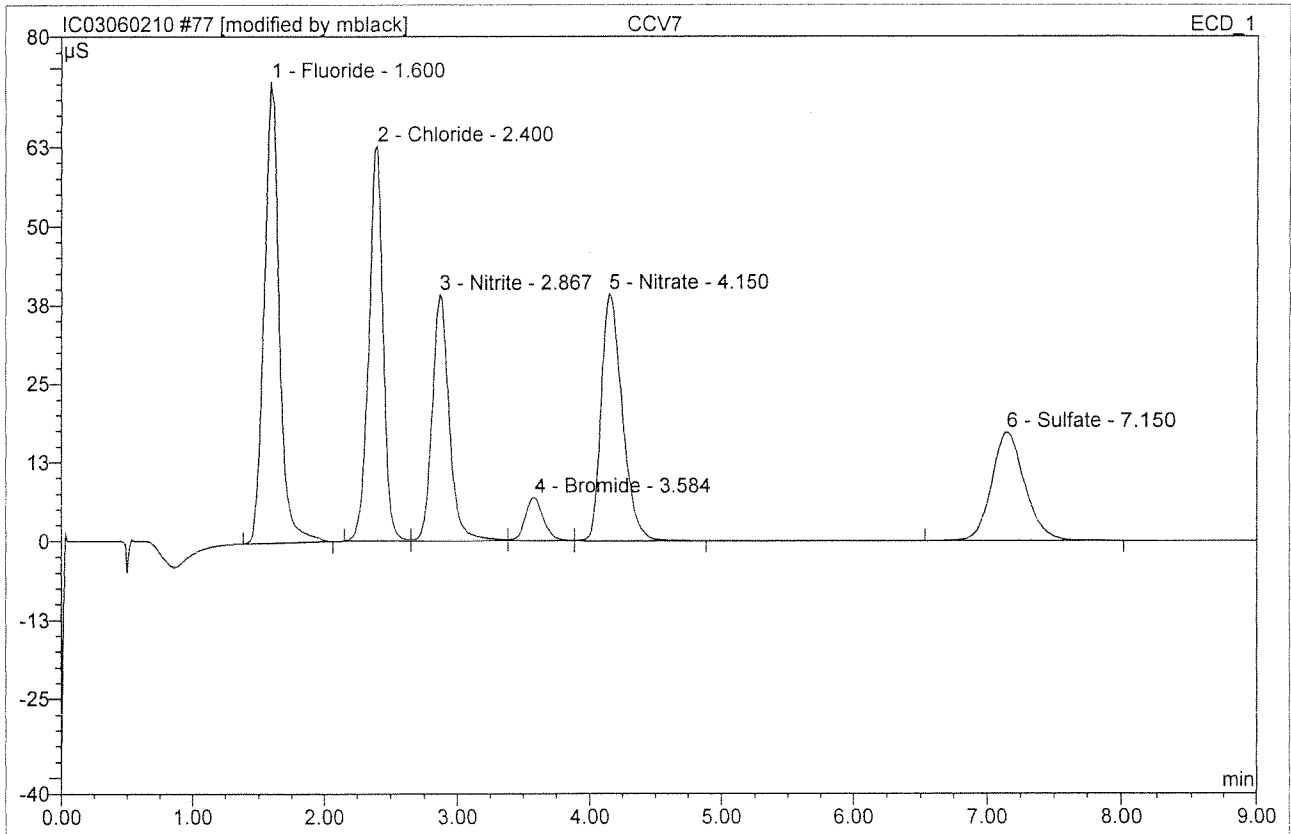


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.32	Chloride	0.744	1.015	100.00	0.651	BMB
Total:			0.744	1.015	100.00	0.651	

Before

JUN 03 2010

77 CCV7			
CCV7			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	75	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 22:37	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

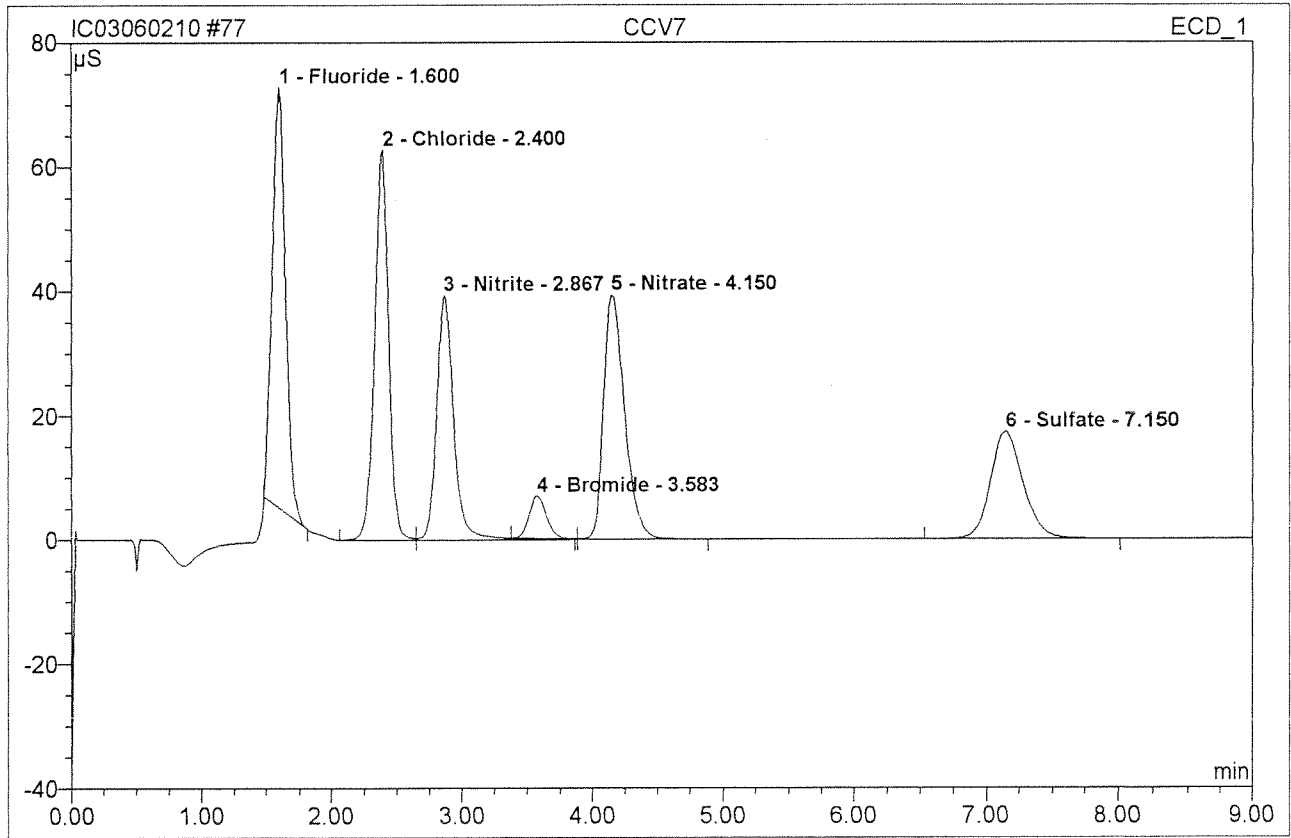


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	73.104	9.783	26.69	5.1131027	BMB*
2	2.40	Chloride	62.614	7.699	21.00	4.936997	BM *
3	2.87	Nitrite	39.177	5.834	15.91	2.0211017	M *
4	3.58	Bromide	6.912	1.103	3.01	2.0581037	M *
5	4.15	Nitrate	39.225	7.275	19.85	1.975997	MB*
6	7.15	Sulfate	17.276	4.966	13.55	5.0461012	BMB
Total:			238.308	36.660	100.00	21.149	

LB

JK 6/4/10

77 CCV7			
CCV7			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	75	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 22:37	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

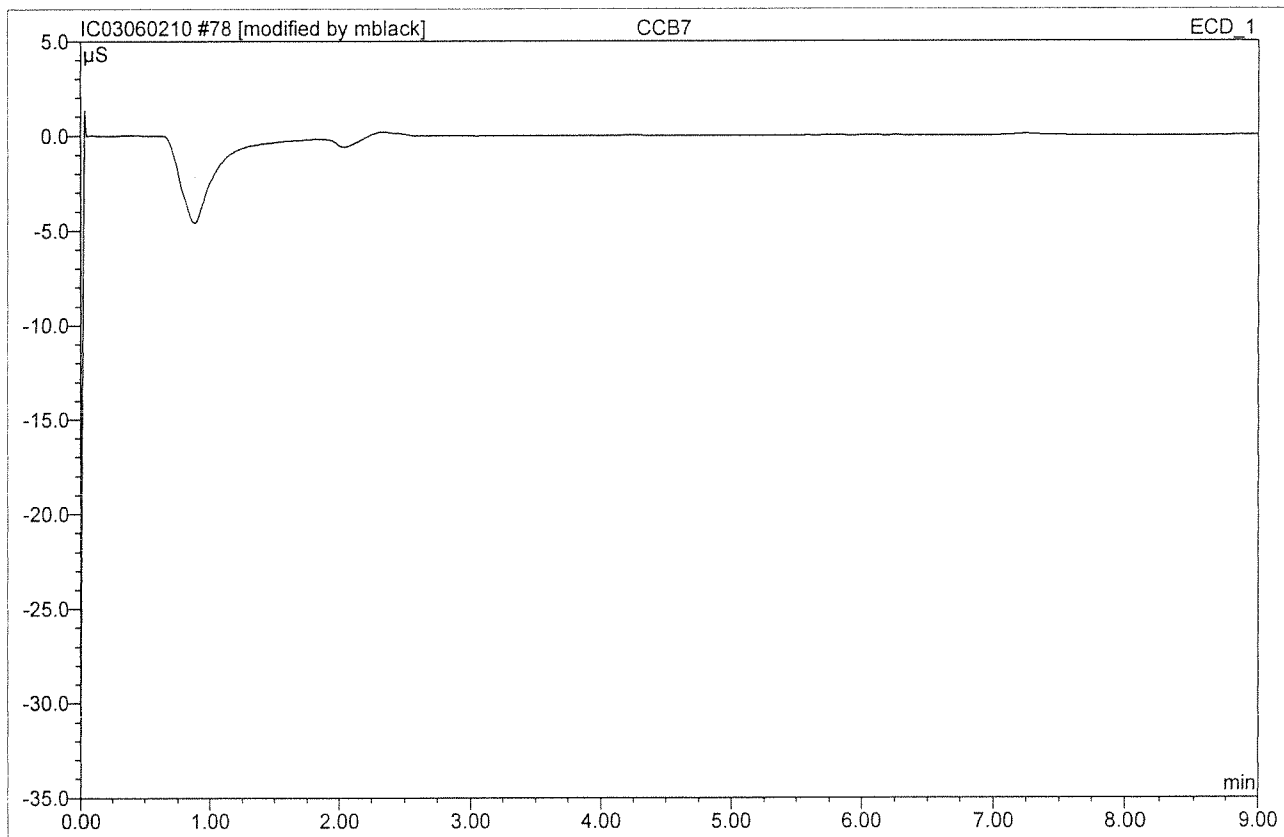


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	67.665	7.902	22.60	4.130	BMB
2	2.40	Chloride	62.733	7.762	22.20	4.977	BM
3	2.87	Nitrite	39.274	5.984	17.11	2.072	M
4	3.58	Bromide	6.792	1.049	3.00	1.958	Rd
5	4.15	Nitrate	39.260	7.299	20.88	1.981	MB
6	7.15	Sulfate	17.276	4.966	14.20	5.046	BMB
Total:			233.001	34.962	100.00	20.165	

Before

JUN 03 2010

78 CCB7			
CCB7			
Sample Name:	CCB7	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 22:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



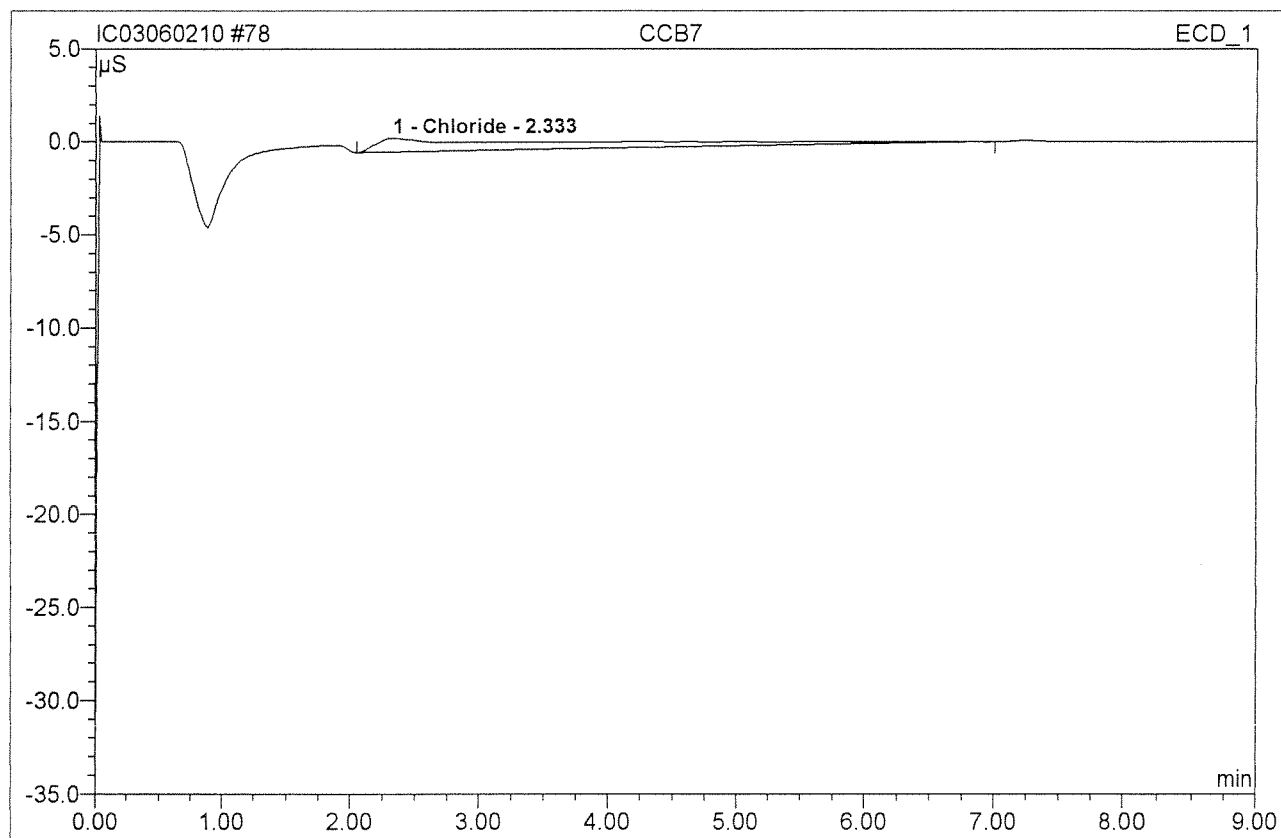
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

MB

6/4/10

78 CCB7**CCB7**

Sample Name:	CCB7	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/2/2010 22:49	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

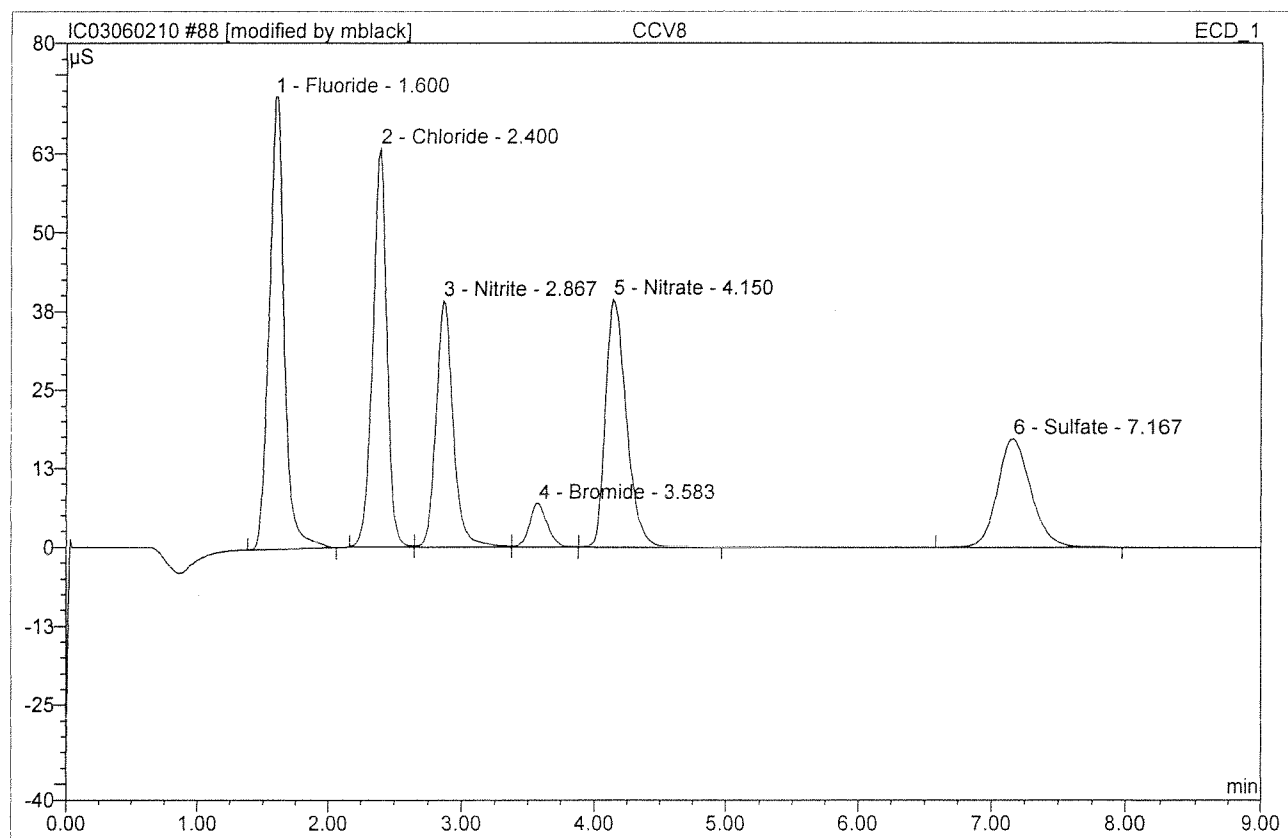


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.752	1.431	100.00	0.917	BMB
Total:			0.752	1.431	100.00	0.917	

Before

JUN 03 2010

88 CCV8			
CCV8			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	86	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 0:43	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

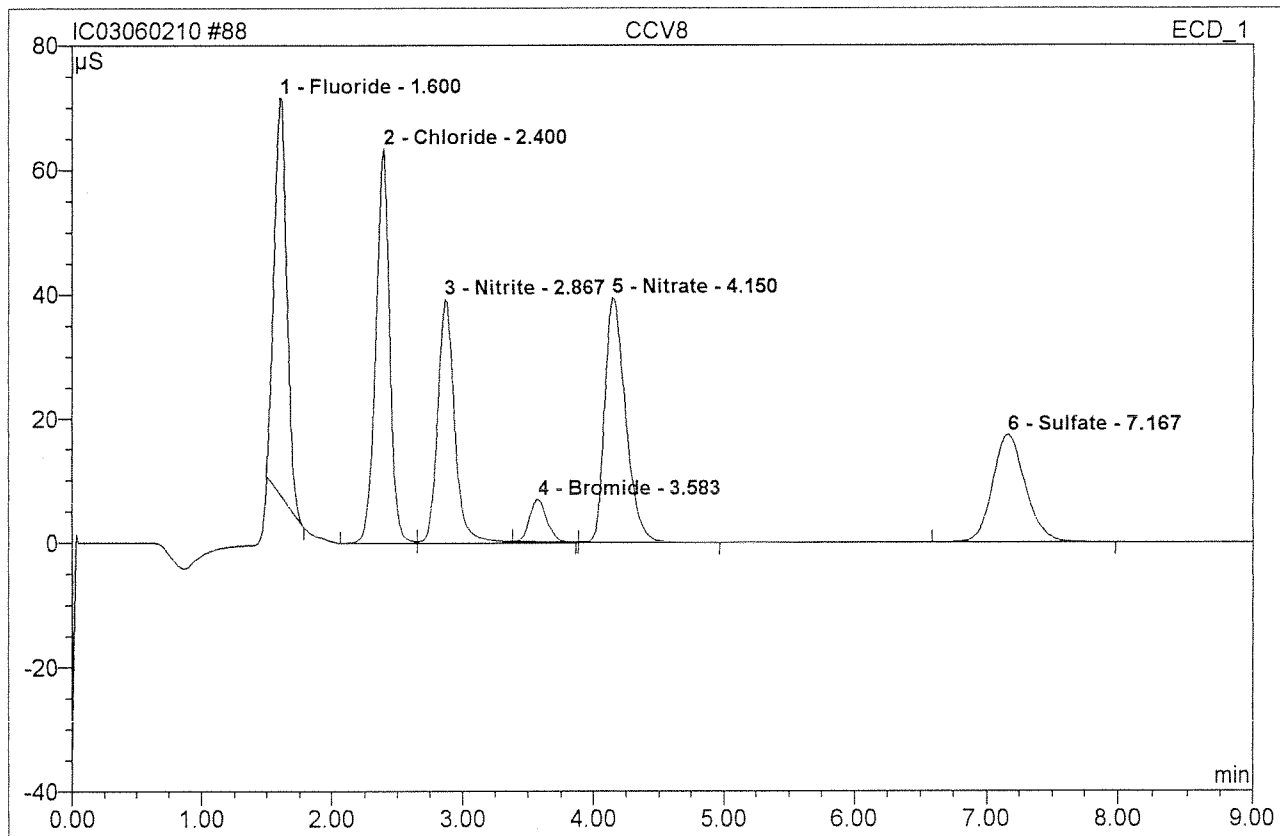


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	71.841	9.702	26.60	5.071101?	BMB*
2	2.40	Chloride	63.324	7.667	21.02	4.91648?	BM *
3	2.87	Nitrite	39.118	5.792	15.88	2.006101?	M *
4	3.58	Bromide	6.874	1.084	2.97	2.024101?	M *
5	4.15	Nitrate	39.378	7.231	19.82	1.96348?	MB*
6	7.17	Sulfate	17.282	5.003	13.71	5.084162?	BMB
Total:			237.819	36.481	100.00	21.064	

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06/11/10

88 CCV8			
CCV8			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	86	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 0:43	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

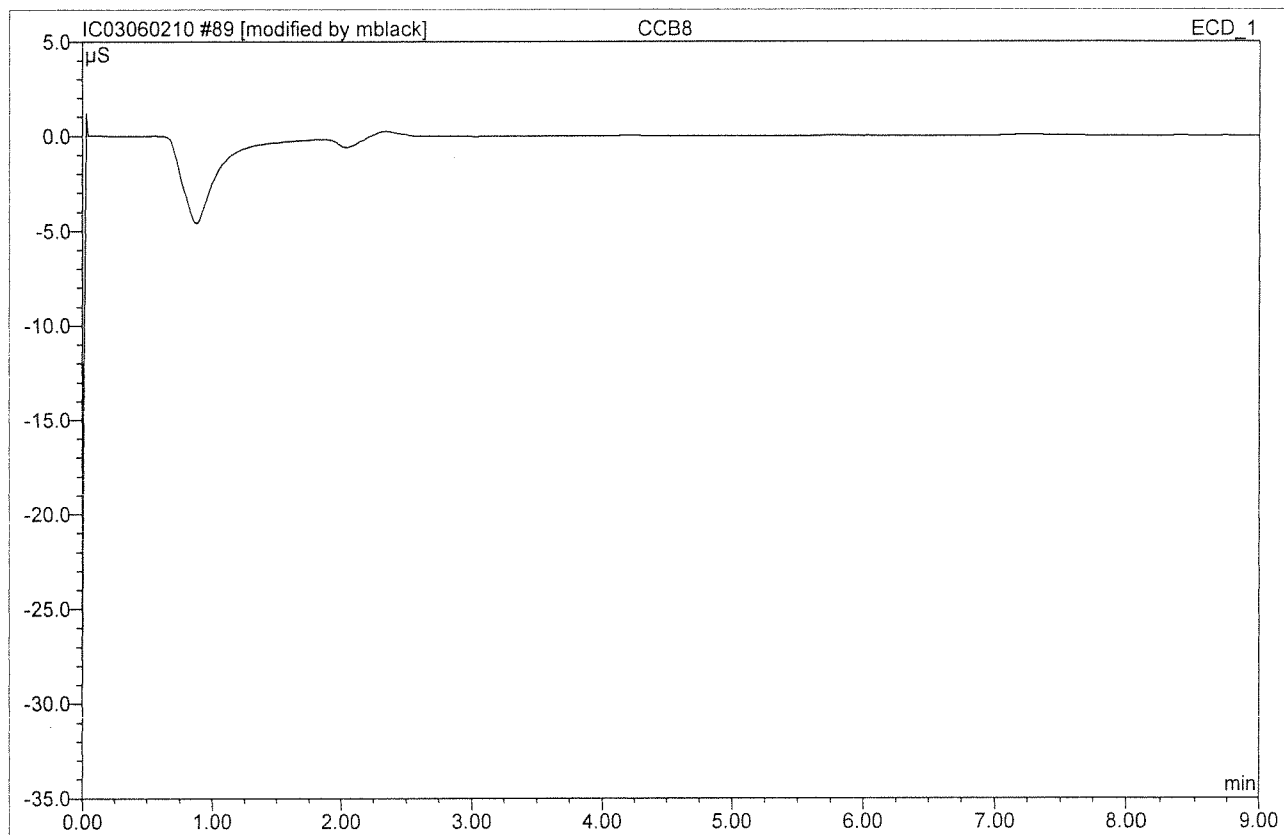


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	63.682	7.218	21.06	3.773	BMB
2	2.40	Chloride	63.500	7.758	22.64	4.975	BM
3	2.87	Nitrite	39.263	5.973	17.43	2.069	M
4	3.58	Bromide	6.788	1.047	3.06	1.955	Rd
5	4.15	Nitrate	39.435	7.271	21.22	1.974	MB
6	7.17	Sulfate	17.282	5.003	14.60	5.084	BMB
Total:			229.949	34.272	100.00	19.829	

Before

JUN 03 2010

89 CCB8			
CCB8			
Sample Name:	CCB8	Injection Volume:	200.0
Vial Number:	87	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 0:55	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

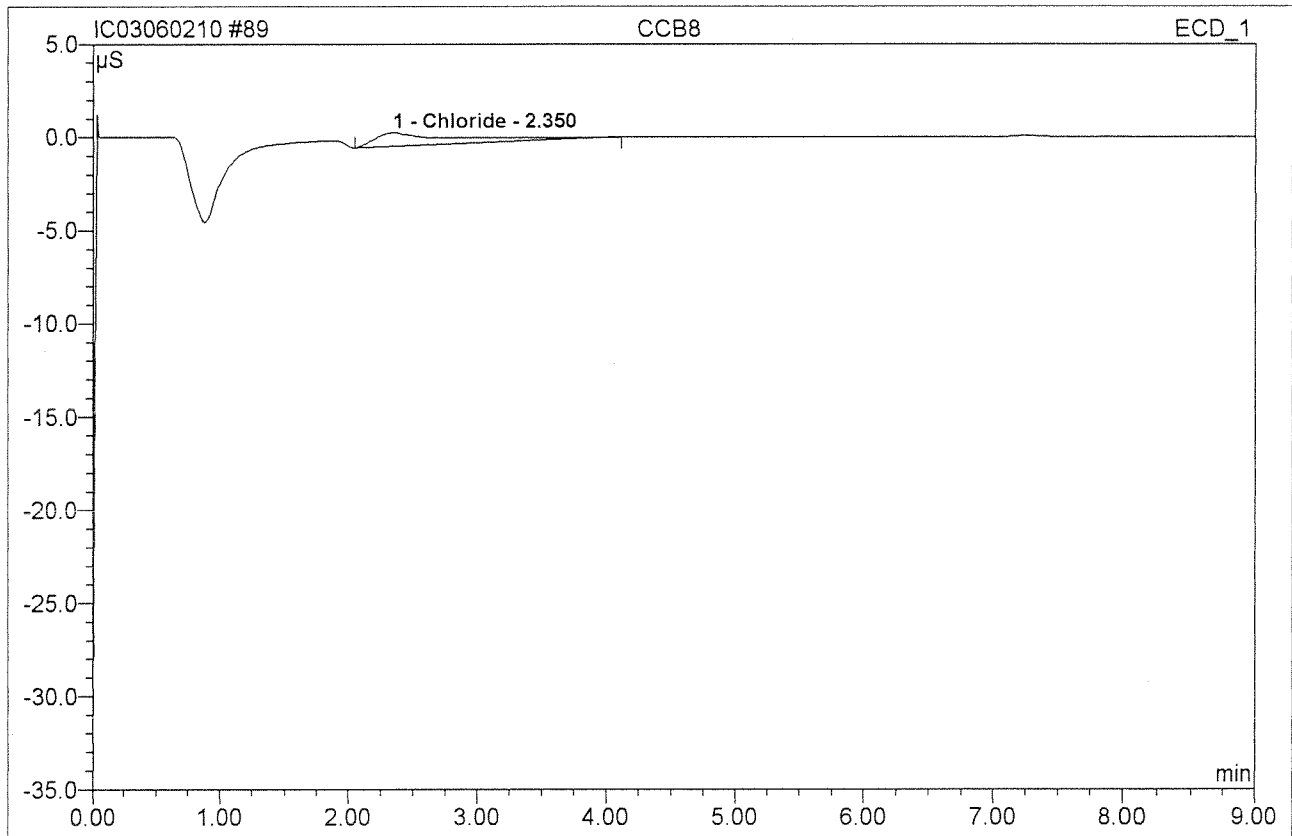


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

AB

6/4/10

89 CCB8			
CCB8			
Sample Name:	CCB8	Injection Volume:	200.0
Vial Number:	87	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 0:55	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.35	Chloride	0.755	0.577	100.00	0.370	BMB
Total:			0.755	0.577	100.00	0.370	

Before

JUN 03 2010

COLUMBIA ANALYTICAL SERVICES, INC.

Ion Chromatography Calibration Data

Sequence: IC03042610

Date: 04/26/10

Anion	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Corr.Coeff.	Slope
F	0.0	0.2	0.5	1.0	5.0	7.5	10.0	99.9846	1.9134
Cl	0.0	0.2	0.5	1.0	5.0	7.5	10.0	99.9661	1.5595
NO2	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9925	2.8873
Br	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9591	0.5358
NO3	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9043	3.6839
SO4	0.0	0.2	0.5	1.0	5.0	7.5	10.0	99.9690	0.9841

All calibration standard concentrations are in mg/L unless otherwise noted.
Zero point forced through zero.

6/11/10

COLUMBIA ANALYTICAL SERVICES, INC.

Ion Chromatography Calibration Data

Sequence: IC03042610

Date: 04/26/10

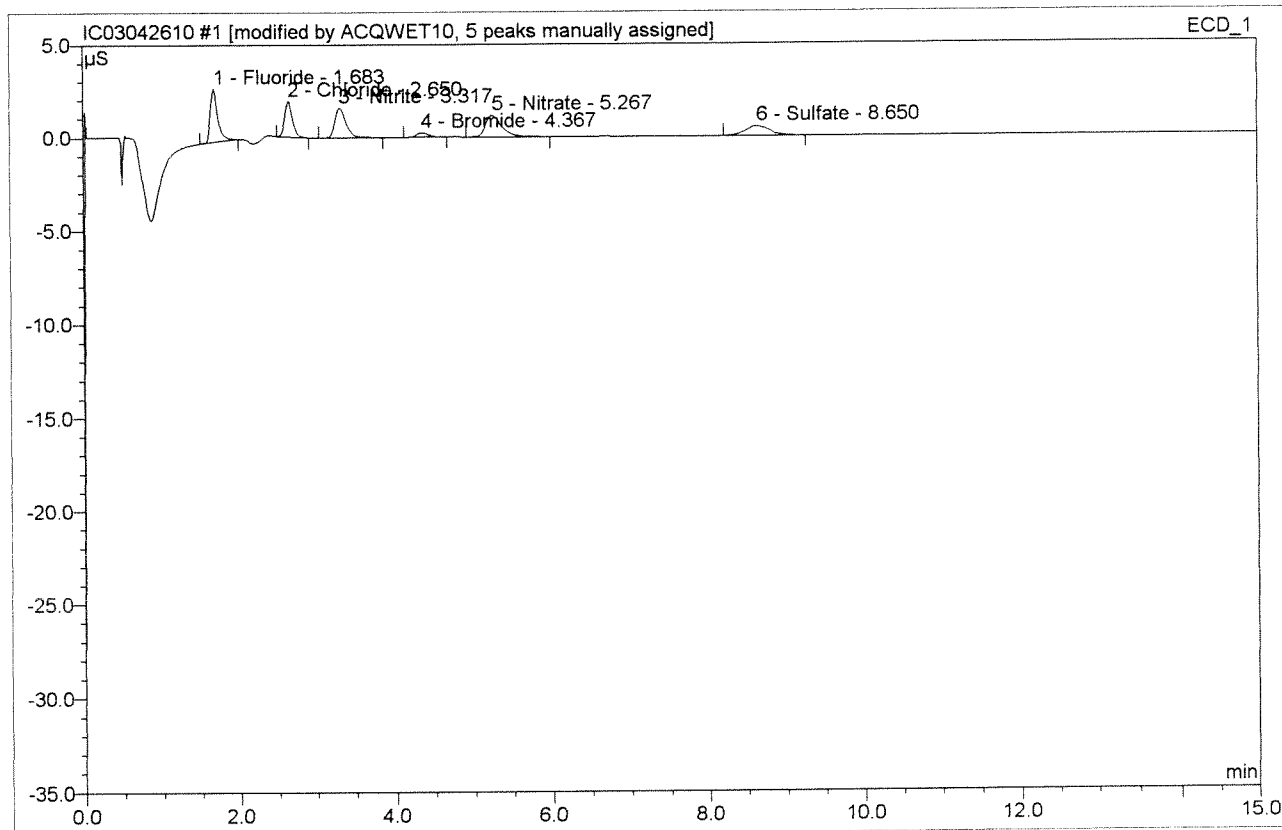
Anion	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Corr.Coeff.	Slope
F	0.0	0.2	0.5	1.0	5.0	7.5	10.0	99.9846	1.9134
Cl	0.0	0.2	0.5	1.0	5.0	7.5	10.0	99.9661	1.5595
NO2	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9925	2.8873
Br	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9591	0.5358
NO3	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9043	3.6839
SO4	0.0	0.2	0.5	1.0	5.0	7.5	10.0	99.9690	0.9841

All calibration standard concentrations are in mg/L unless otherwise noted.
Zero point forced through zero.

6/11/10

1 std2/lvl2

Sample Name:	std2/lvl2	Injection Volume:	200.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 8:54	Sample Weight:	1.0000
Run Time (min):	15.00	Sample Amount:	1.0000

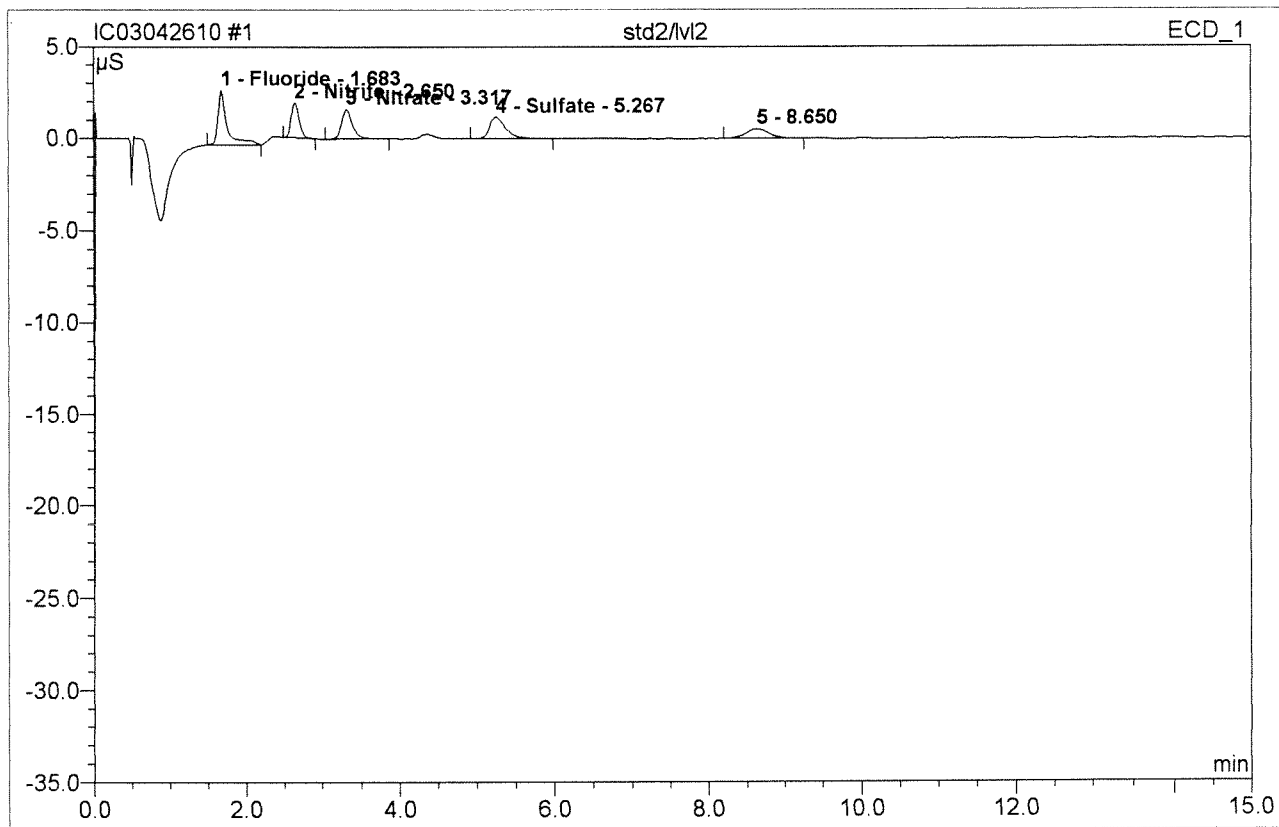


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %	Amount	Type
1	1.68	Fluoride	2.860	0.324	24.73	0.169	BMB*
2	2.65	Chloride	1.892	0.229	17.47	0.147	BMB^
3	3.32	Nitrite	1.586	0.259	19.78	0.090	BMB^
4	4.37	Bromide	0.244	0.043	3.25	0.080	BMB*^
5	5.27	Nitrate	1.144	0.279	21.26	0.076	BMB^
6	8.65	Sulfate	0.507	0.177	13.51	0.180	BMB^
Total:			8.233	1.311	100.00	0.742	

APR 25 2010
MB

5/11/10

1 std2/lvl2			
Sample Name:	std2/lvl2	Injection Volume:	200.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 8:54	Sample Weight:	1.0000
Run Time (min):	15.00	Sample Amount:	1.0000

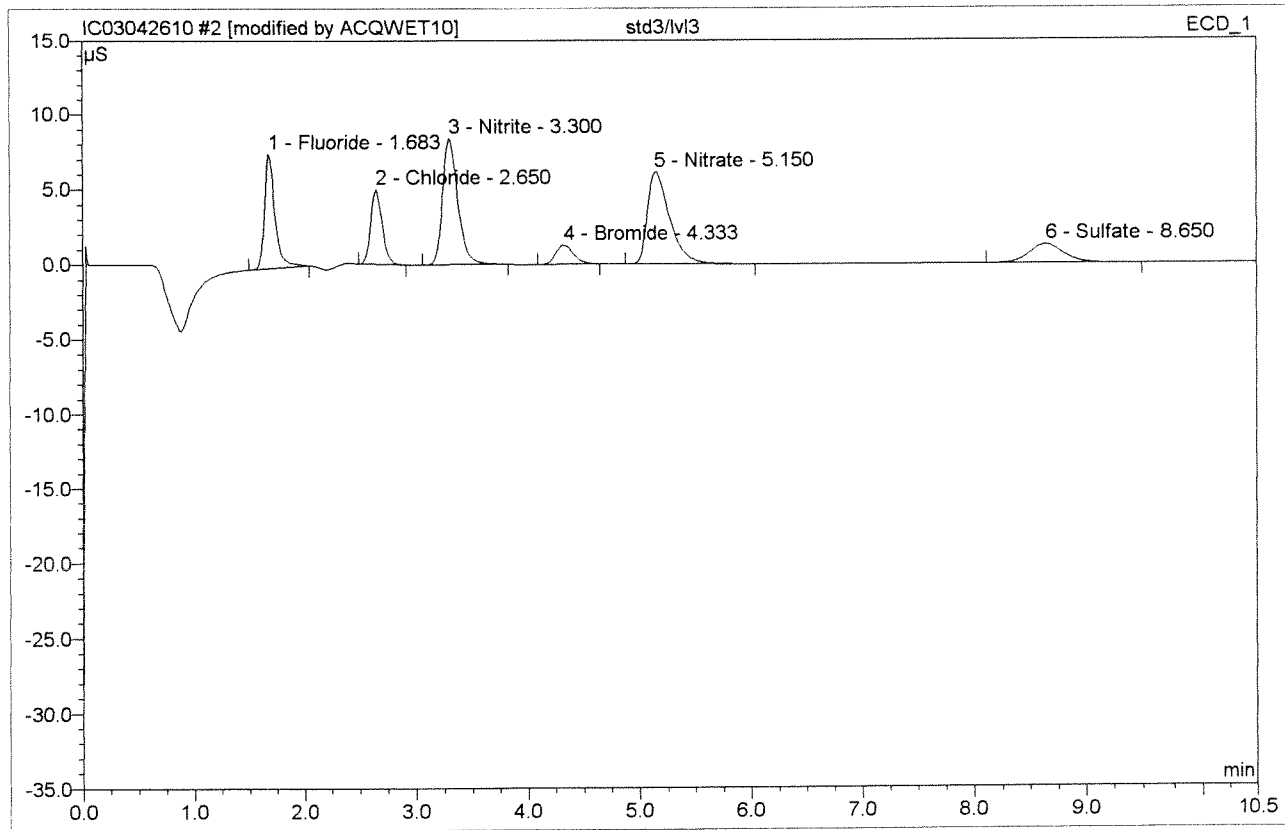


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	2.953	0.421	30.83	0.200	BMB
2	2.65	Nitrite	1.892	0.229	16.78	0.100	BMB
3	3.32	Nitrate	1.586	0.259	19.00	0.100	BMB
4	5.27	Sulfate	1.144	0.279	20.42	0.200	BMB
5	8.65	n.a.	0.507	0.177	12.97	n.a.	BMB
Total:			8.081	1.366	100.00	0.600	

Before

APR 26 2010

2 std3/lvl3			
Sample Name:	std3/lvl3	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:12	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000

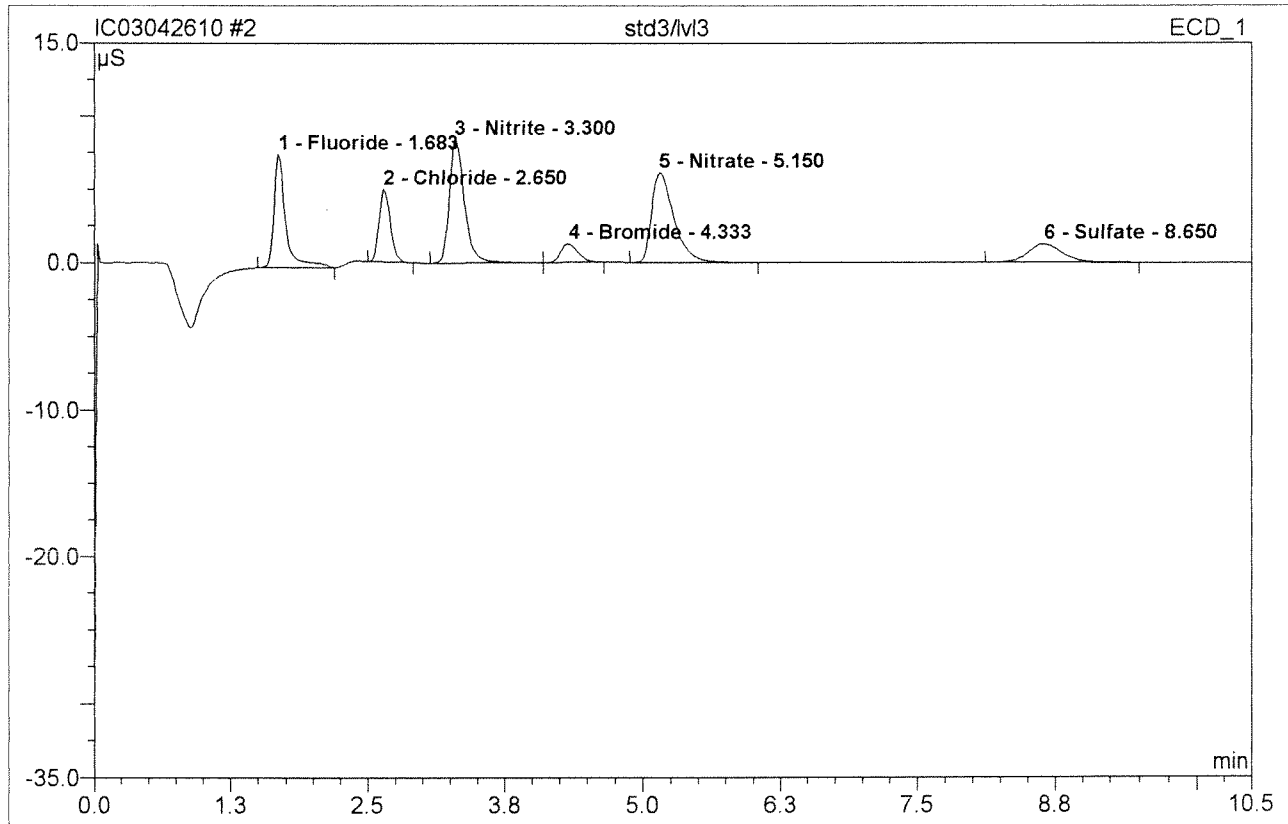


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	7.622	0.844	17.37	0.441	BMB*
2	2.65	Chloride	4.937	0.589	12.12	0.378	BMB
3	3.30	Nitrite	8.365	1.329	27.34	0.460	BMB*
4	4.33	Bromide	1.271	0.229	4.72	0.428	BMB*
5	5.15	Nitrate	6.087	1.425	29.30	0.387	BMB
6	8.65	Sulfate	1.253	0.445	9.16	0.452	BMB
Total:			29.536	4.862	100.00	2.547	

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Δ 11-11-08/16

2 std3/lvl3			
Sample Name:	std3/lvl3	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:12	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000

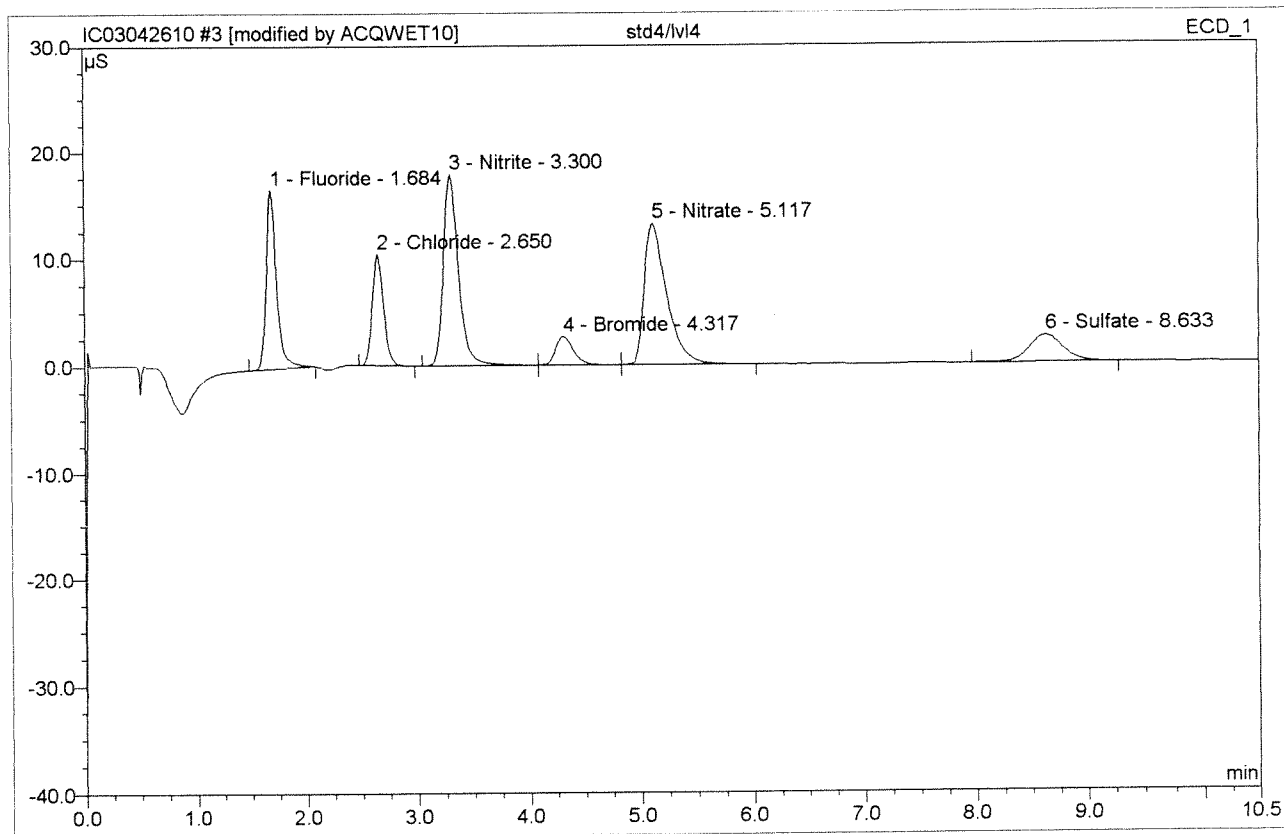


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	7.720	0.949	19.04	0.510	BMB
2	2.65	Chloride	4.937	0.589	11.82	0.502	BMB
3	3.30	Nitrite	8.377	1.347	27.02	0.501	BMB
4	4.33	Bromide	1.271	0.229	4.60	0.501	bMB
5	5.15	Nitrate	6.087	1.425	28.59	0.500	BMB
6	8.65	Sulfate	1.253	0.445	8.93	0.500	BMB
Total:			29.644	4.984	100.00	3.015	

Before

APR 26 2010

3 std4/lvl4			
Sample Name:	std4/lvl4	Injection Volume:	200.0
Vial Number:	3	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:25	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



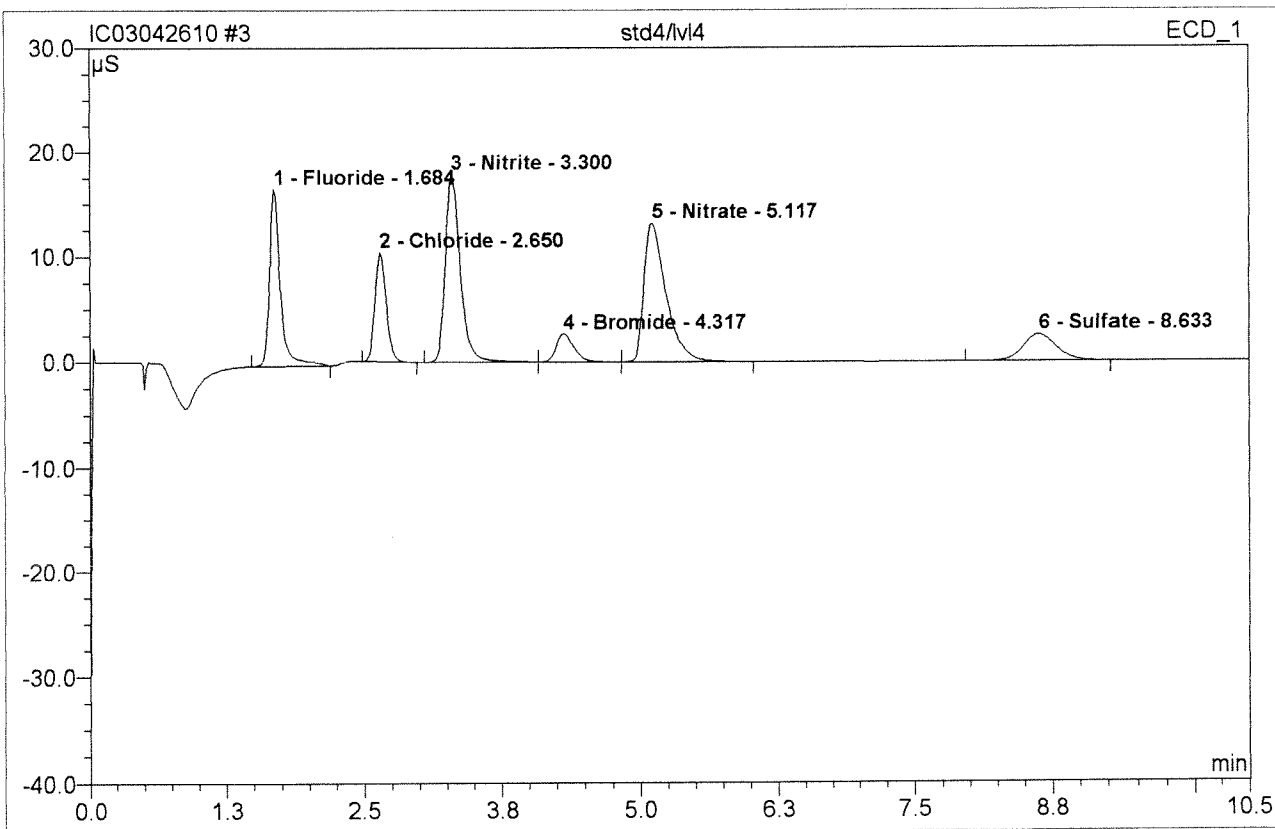
No.	Ret.Time min	Peak Name	Height μS	Area $\mu S \cdot min$	Rel.Area %	Amount	Type
1	1.68	Fluoride	16.676	1.811	17.64	0.947	BMB*
2	2.65	Chloride	10.365	1.223	11.91	0.784	BMB
3	3.30	Nitrite	17.874	2.814	27.40	0.975	BMB
4	4.32	Bromide	2.661	0.487	4.74	0.908	bMB
5	5.12	Nitrate	13.149	3.046	29.66	0.827	bMB
6	8.63	Sulfate	2.522	0.888	8.65	0.903	BMB
Total:			63.248	10.270	100.00	5.343	

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6-1125110

APR 26 2010

3 std4/lvl4			
Sample Name:	std4/lvl4	Injection Volume:	200.0
Vial Number:	3	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:25	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000

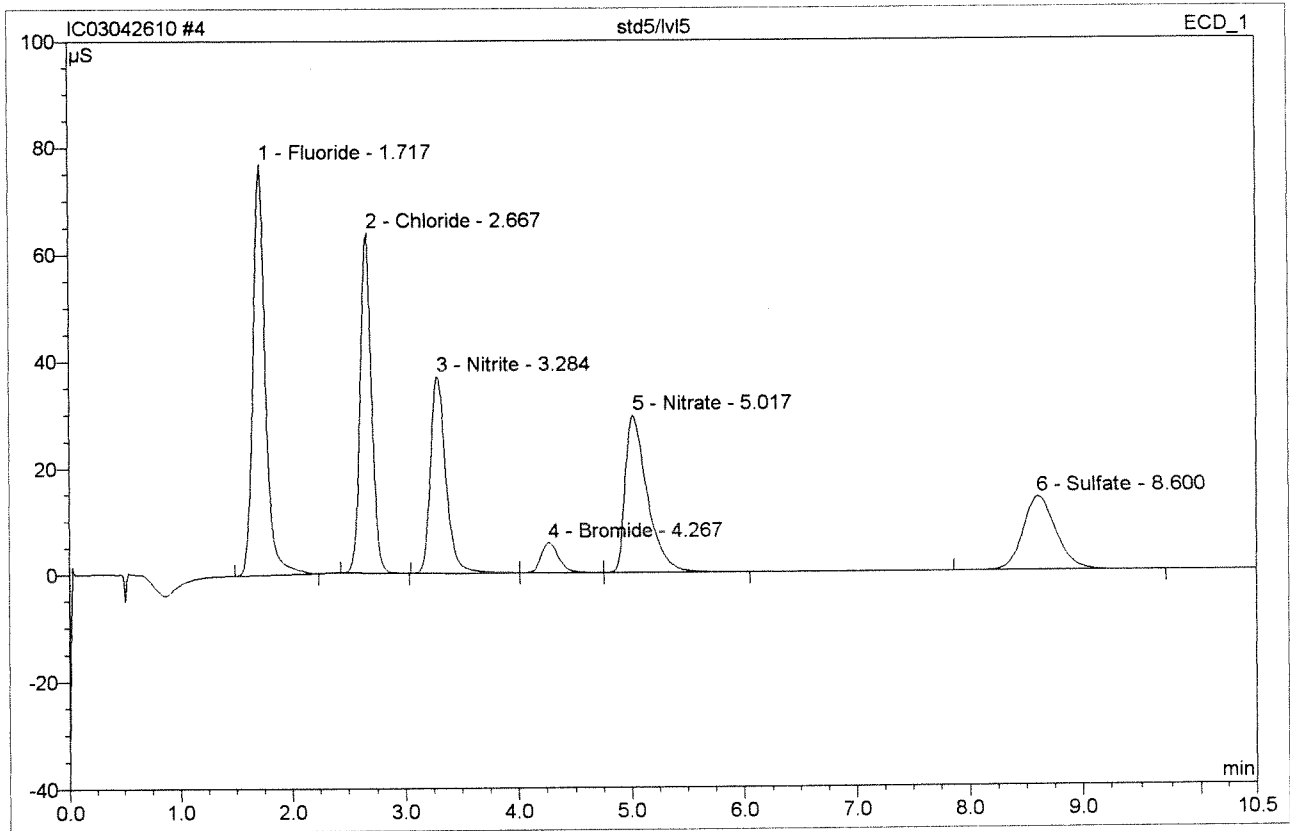


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	16.774	1.915	18.46	1.007	BMB
2	2.65	Chloride	10.365	1.223	11.79	1.009	BMB
3	3.30	Nitrite	17.874	2.814	27.13	1.009	BMb
4	4.32	Bromide	2.661	0.487	4.69	1.012	bMb
5	5.12	Nitrate	13.149	3.046	29.36	1.014	bMB
6	8.63	Sulfate	2.522	0.888	8.56	1.000	BMB
Total:			63.346	10.374	100.00	6.051	

Before

APR 26 2010

4 std5/lvl5			
Sample Name:	std5/lvl5	Injection Volume:	200.0
Vial Number:	4	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:38	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.72	Fluoride	76.994	9.731	27.38	5.086	BMB
2	2.67	Chloride	63.721	7.472	21.02	4.791	BMB
3	3.28	Nitrite	36.986	5.862	16.49	2.030	BMB
4	4.27	Bromide	5.677	1.007	2.83	1.879	bMB
5	5.02	Nitrate	29.541	6.754	19.00	1.833	bMB
6	8.60	Sulfate	13.884	4.718	13.27	4.795	BMB
Total:			226.803	35.544	100.00	20.415	

Alter Initiate *(signature)*

6-11-28/10

default/Integration

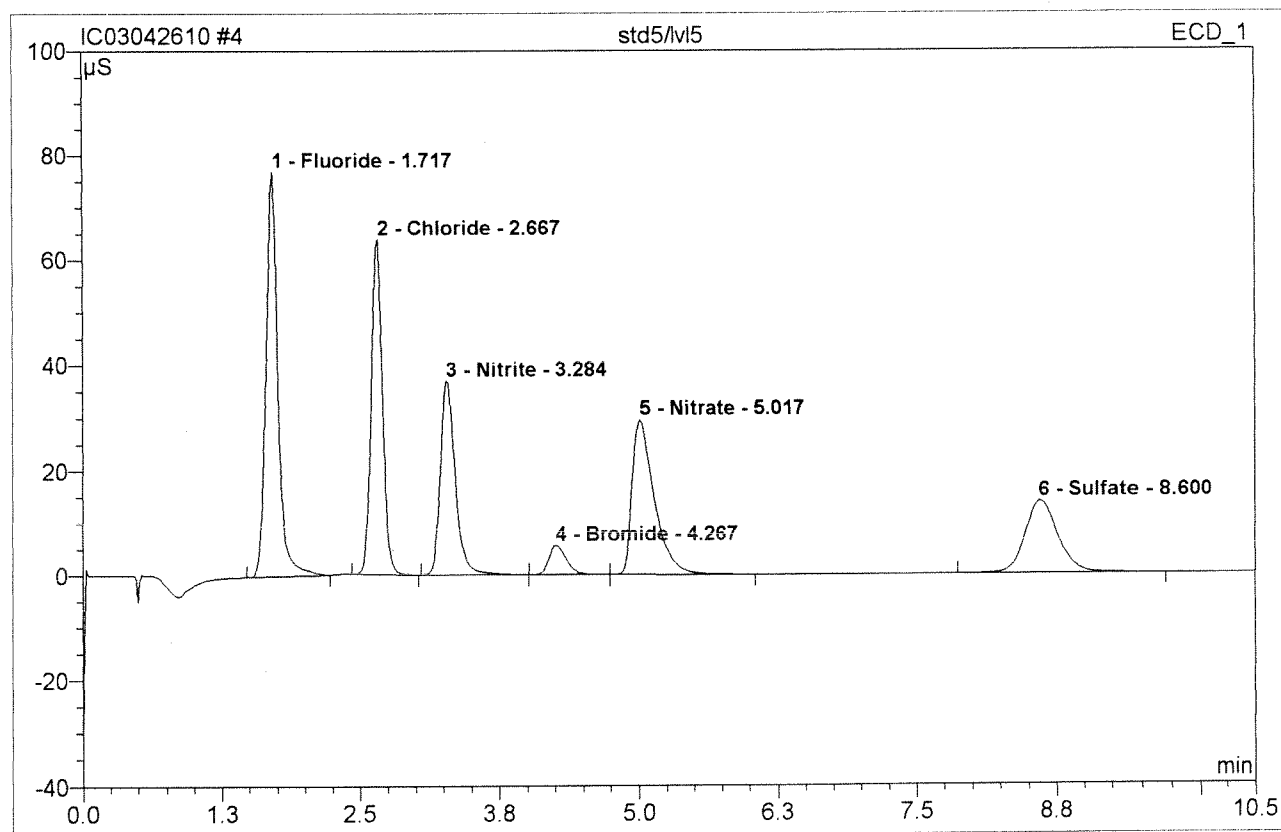
APR 29 2010

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

Chromatogram File: std5/lvl5
Sample Name: std5/lvl5
Sample Amount: 1.0000
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4 std5/lvl5

Sample Name:	std5/lvl5	Injection Volume:	200.0
Vial Number:	4	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:38	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.72	Fluoride	76.994	9.731	27.38	5.005	BMB
2	2.67	Chloride	63.721	7.472	21.02	5.047	BMB
3	3.28	Nitrite	36.986	5.862	16.49	2.024	BMb
4	4.27	Bromide	5.677	1.007	2.83	2.022	bMB
5	5.02	Nitrate	29.541	6.754	19.00	2.054	bMB
6	8.60	Sulfate	13.884	4.718	13.27	5.014	BMB
Total:			226.803	35.544	100.00	21.166	

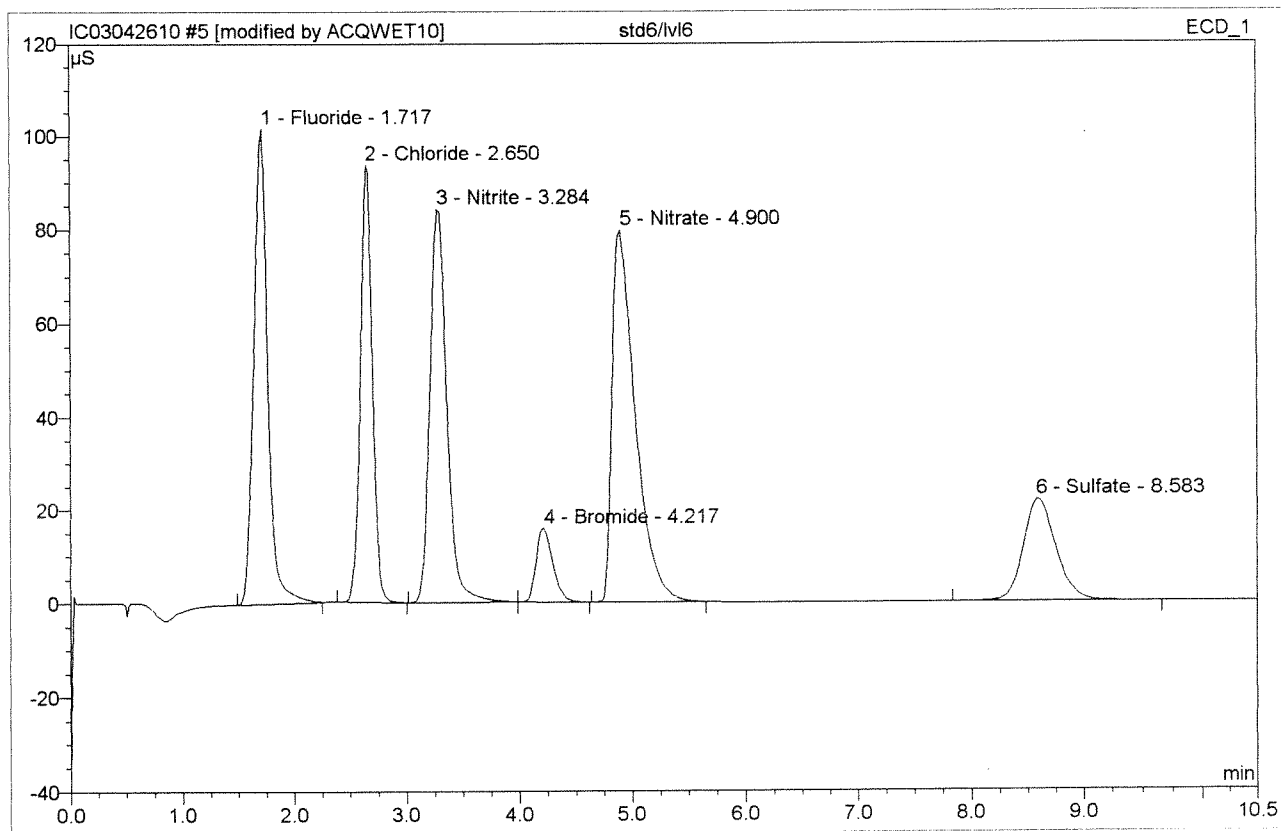
Before

APR 26 2010

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

default/Integration

5 std6/lvl6			
Sample Name:	std6/lvl6	Injection Volume:	200.0
Vial Number:	5	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:51	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000

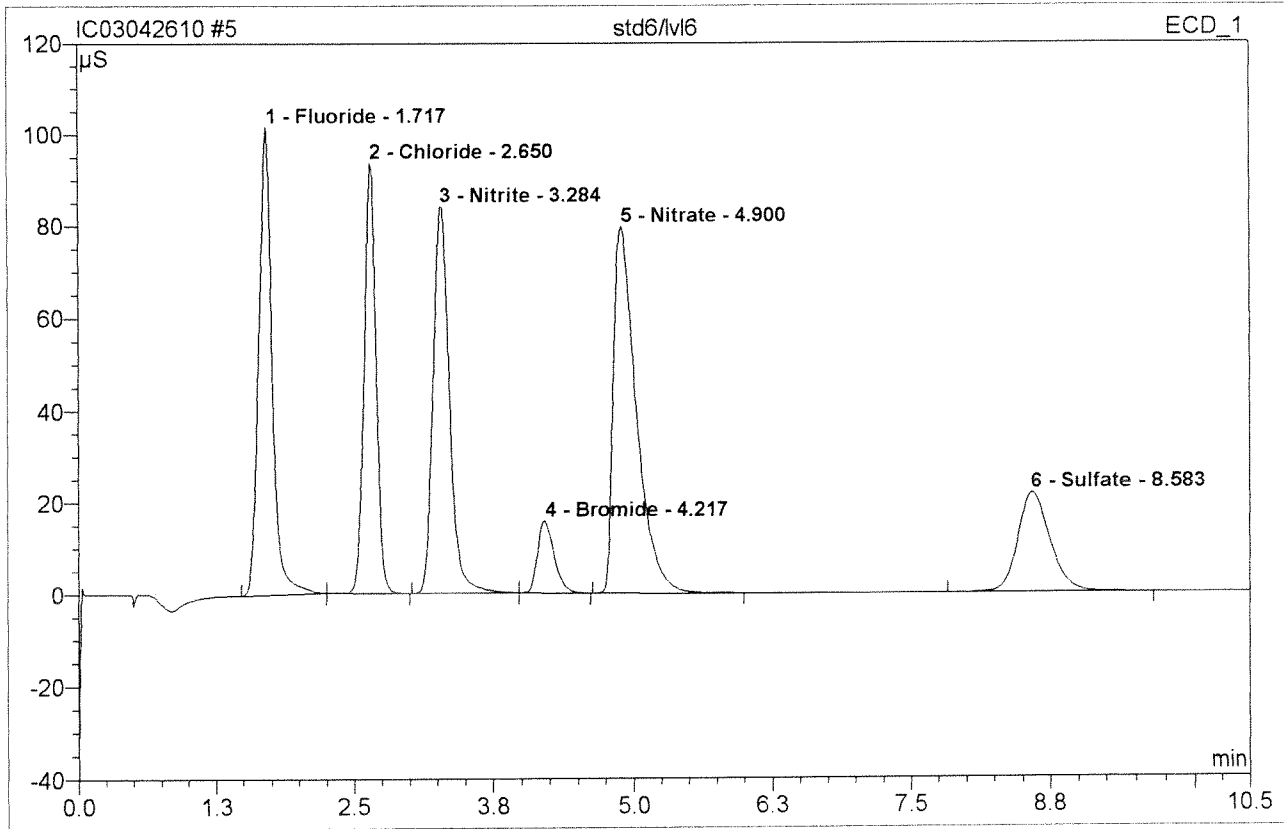


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.72	Fluoride	101.686	14.494	20.88	7.575	BMB*
2	2.65	Chloride	93.434	11.601	16.71	7.439	BMB*
3	3.28	Nitrite	84.060	14.428	20.79	4.997	BMB
4	4.22	Bromide	15.785	2.719	3.92	5.074	bMB
5	4.90	Nitrate	79.649	18.837	27.14	5.113	BMB*
6	8.58	Sulfate	21.861	7.333	10.56	7.452	BMB
Total:			396.475	69.412	100.00	37.650	

APR 26 2010
MB

61-118514

5 std6/lvl6			
Sample Name:	std6/lvl6	Injection Volume:	200.0
Vial Number:	5	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:51	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



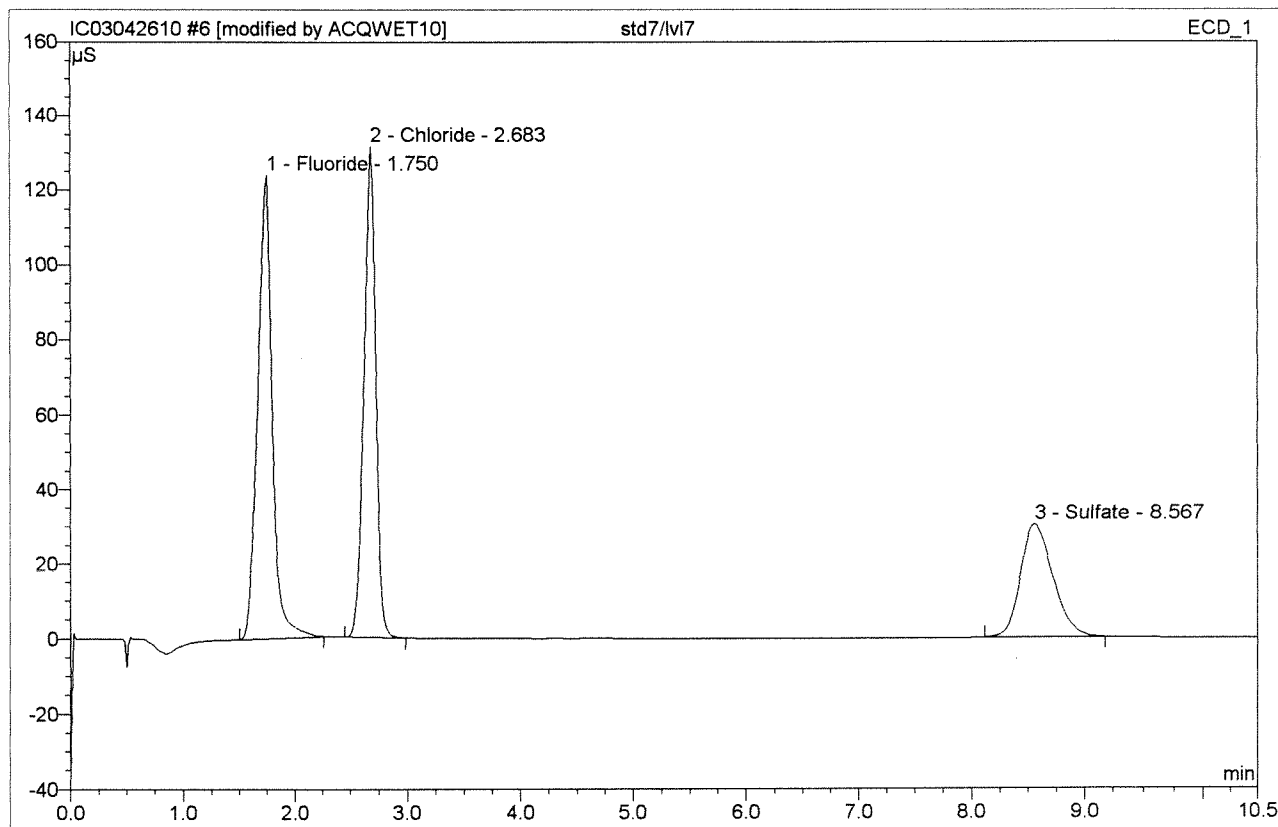
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.72	Fluoride	101.686	14.494	20.85	7.486	BMb
2	2.65	Chloride	93.503	11.647	16.75	7.613	bMB
3	3.28	Nitrite	84.060	14.428	20.76	4.997	BMb
4	4.22	Bromide	15.785	2.719	3.91	5.074	bMB
5	4.90	Nitrate	79.672	18.892	27.18	5.115	BMB
6	8.58	Sulfate	21.861	7.333	10.55	7.591	BMB
Total:			396.568	69.512	100.00	37.876	

Before

APR 26 2010

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

6 std7/lvl7			
Sample Name:	std7/lvl7	Injection Volume:	200.0
Vial Number:	6	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 10:04	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



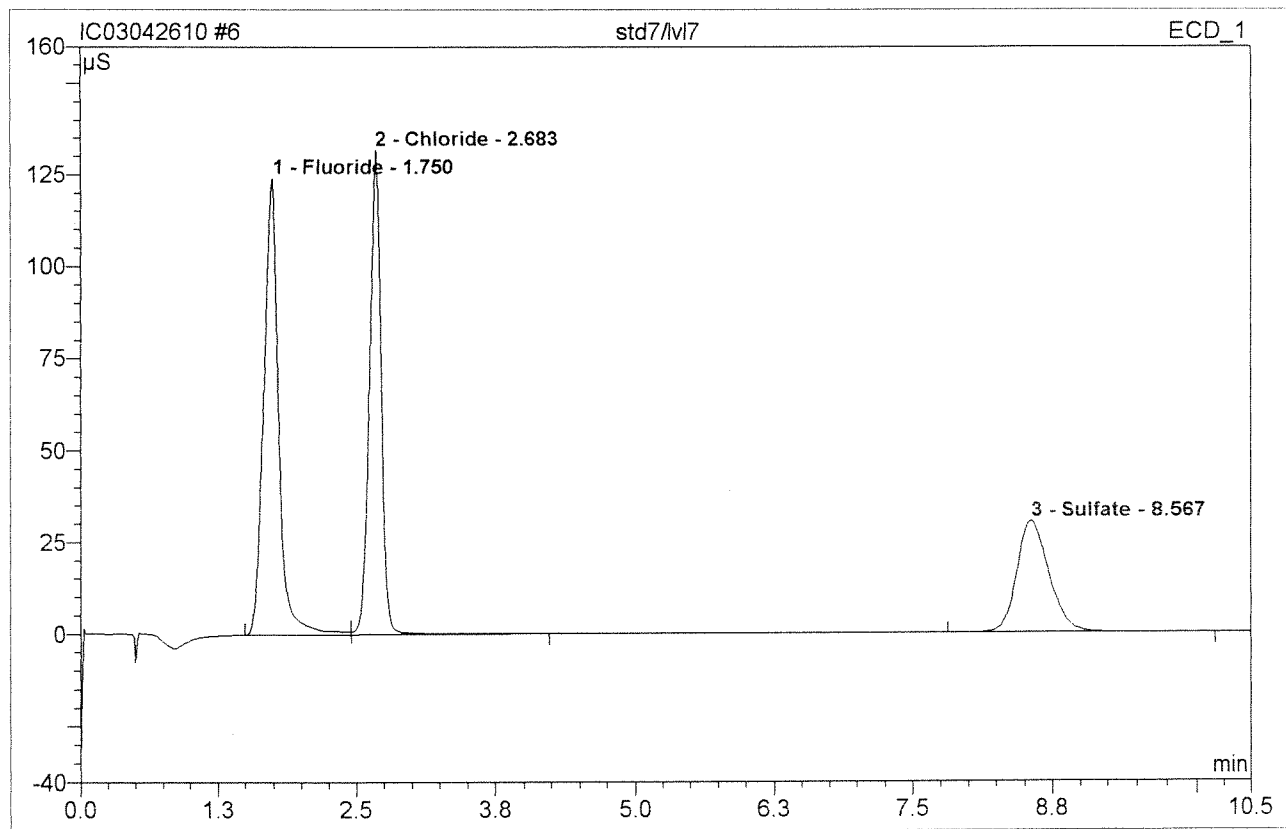
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.75	Fluoride	123.905	18.962	42.30	9.910	BMB*
2	2.68	Chloride	131.265	15.874	35.41	10.179	BMB*
3	8.57	Sulfate	30.278	9.990	22.29	10.151	BMB*
Total:			285.448	44.826	100.00	30.240	

After
1.0.0.0 MS

5-11-10

APR 26 2010

6 std7/lvl7			
Sample Name:	std7/lvl7	Injection Volume:	200.0
Vial Number:	6	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 10:04	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000

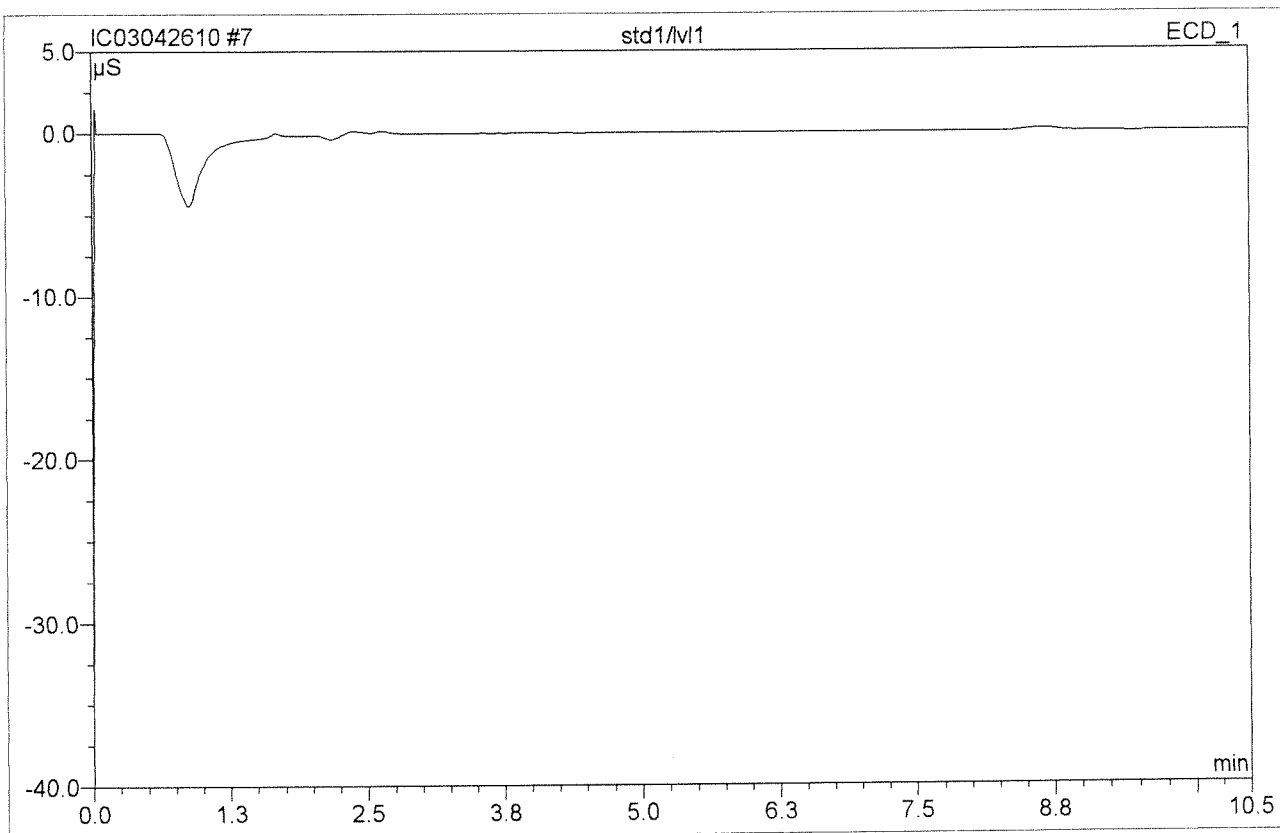


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.75	Fluoride	124.185	19.437	42.28	10.022	BM
2	2.68	Chloride	131.836	16.307	35.47	10.300	MB
3	8.57	Sulfate	30.454	10.233	22.26	10.259	BMB
Total:			286.475	45.977	100.00	30.581	

Before

APR 26 2010

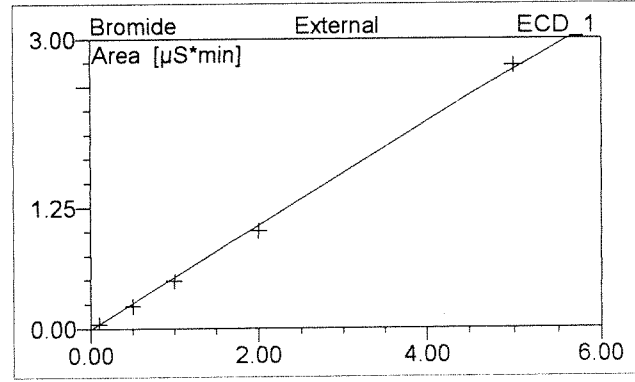
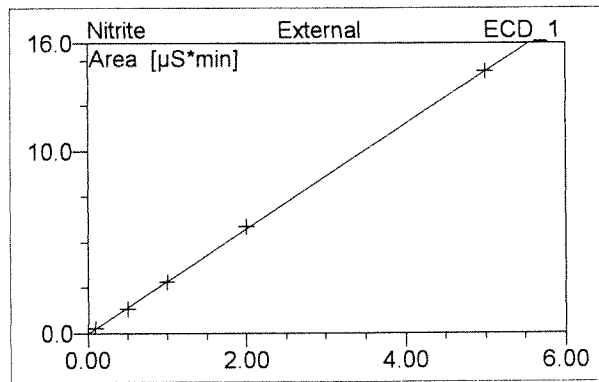
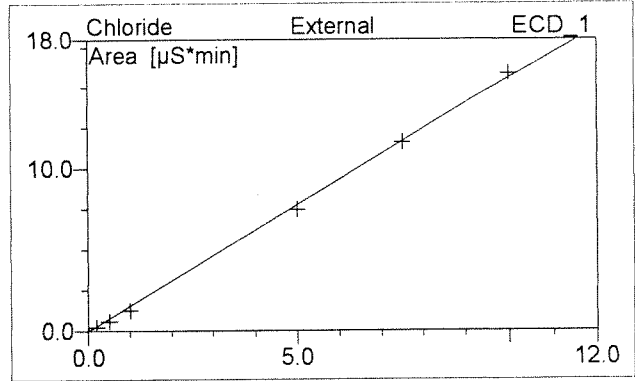
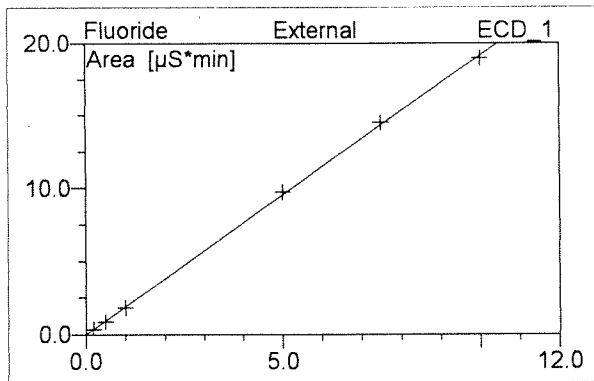
7 std1/lvl1			
Sample Name:	std1/lvl1	Injection Volume:	200.0
Vial Number:	7	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 10:17	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



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

644011

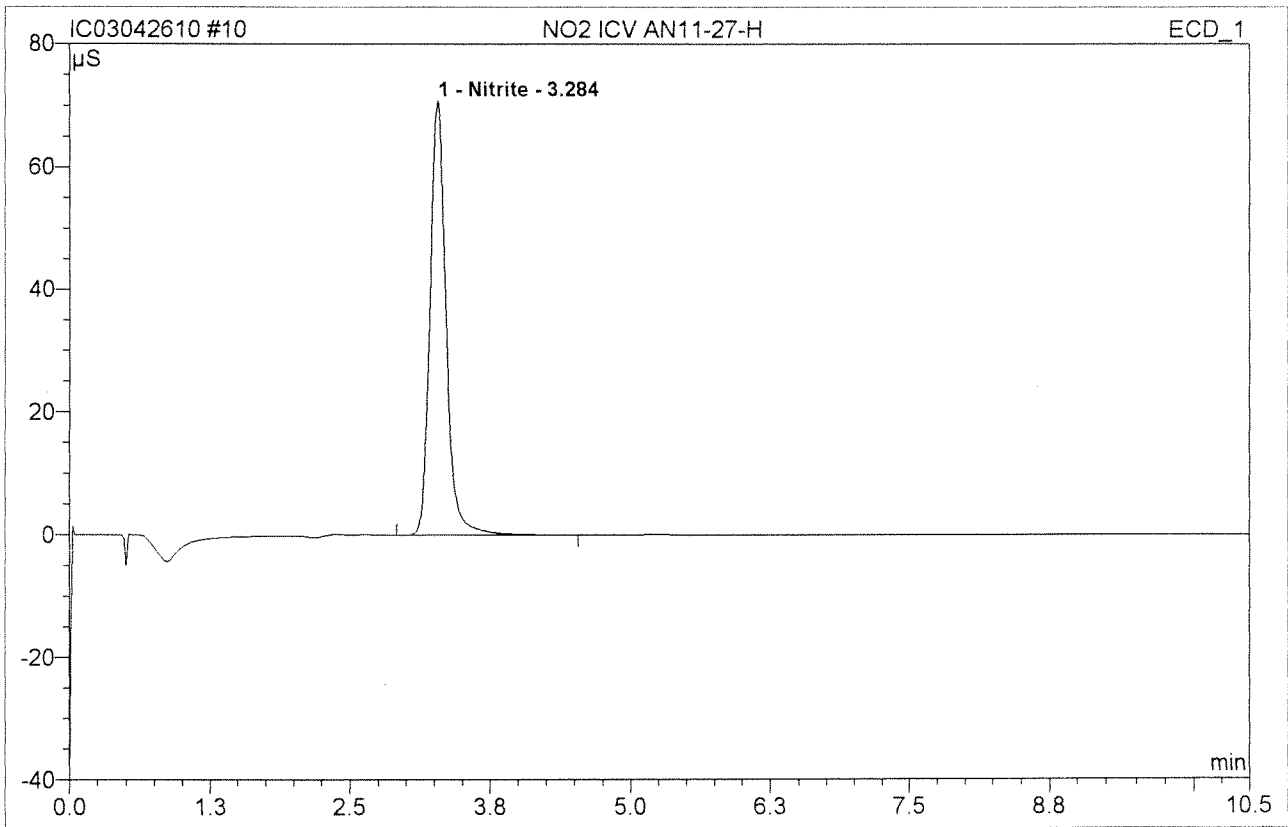
7 std1/lvl1	
Sample Name: std1/lvl1	Injection Volume: 200.0
Vial Number: 7	Channel: ECD_1
Sample Type: standard	Wavelength: n.a.
Control Program: epa300	Bandwidth: n.a.
Quantif. Method: epa300	Dilution Factor: 1.0000
Recording Time: 4/26/2010 10:17	Sample Weight: 1.0000
Run Time (min): 10.50	Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
Average:					n.a.	n.a.	n.a.	n.a.

4/26/10

10 NO2 ICV AN11-27-H			
NO2 ICV			
Sample Name:	NO2 ICV AN11-27-H	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	4/26/2010 11:05	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000

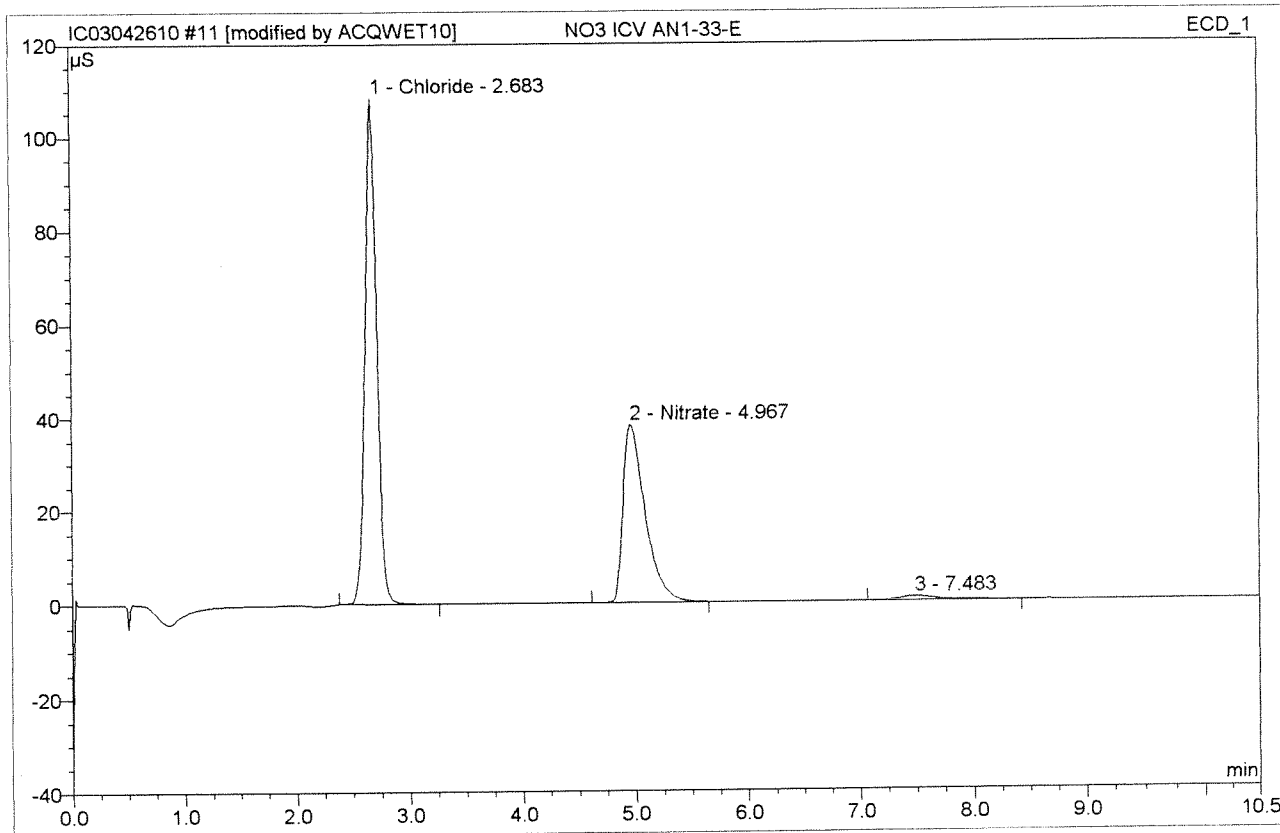


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.28	Nitrite	70.856	11.827	100.00	102.405	BMB
Total:			70.856	11.827	100.00	102.405	

11 NO3 ICV AN1-33-E

NO3 ICV

Sample Name:	NO3 ICV AN1-33-E	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	4/26/2010 11:18	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000

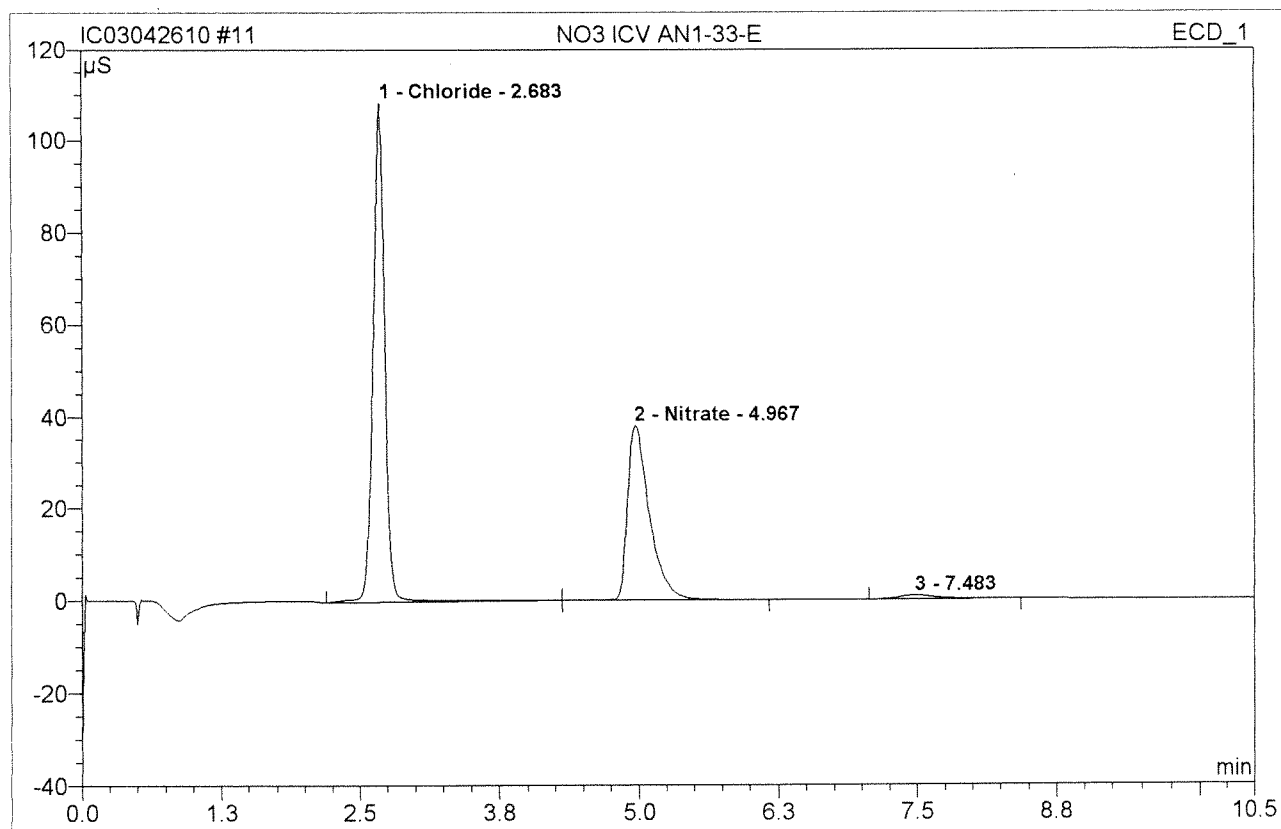


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.68	Chloride	108.172	12.864	59.17	82.484	BMB*
2	4.97	Nitrate	38.103	8.551	39.33	23.211 <i>110%</i>	BMB*
3	7.48	n.a.	0.823	0.326	1.50	n.a.	BMB
Total:			147.098	21.741	100.00	105.695	

After
analysis *MB*

APR 26 2010

11 NO3 ICV AN1-33-E			
NO3 ICV			
Sample Name:	NO3 ICV AN1-33-E	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	4/26/2010 11:18	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.68	Chloride	108.576	13.345	59.83	85.571	BMB
2	4.97	Nitrate	38.156	8.633	38.70	23.433	bMB
3	7.48	n.a.	0.823	0.326	1.46	n.a.	BMB
Total:			147.556	22.304	100.00	109.004	

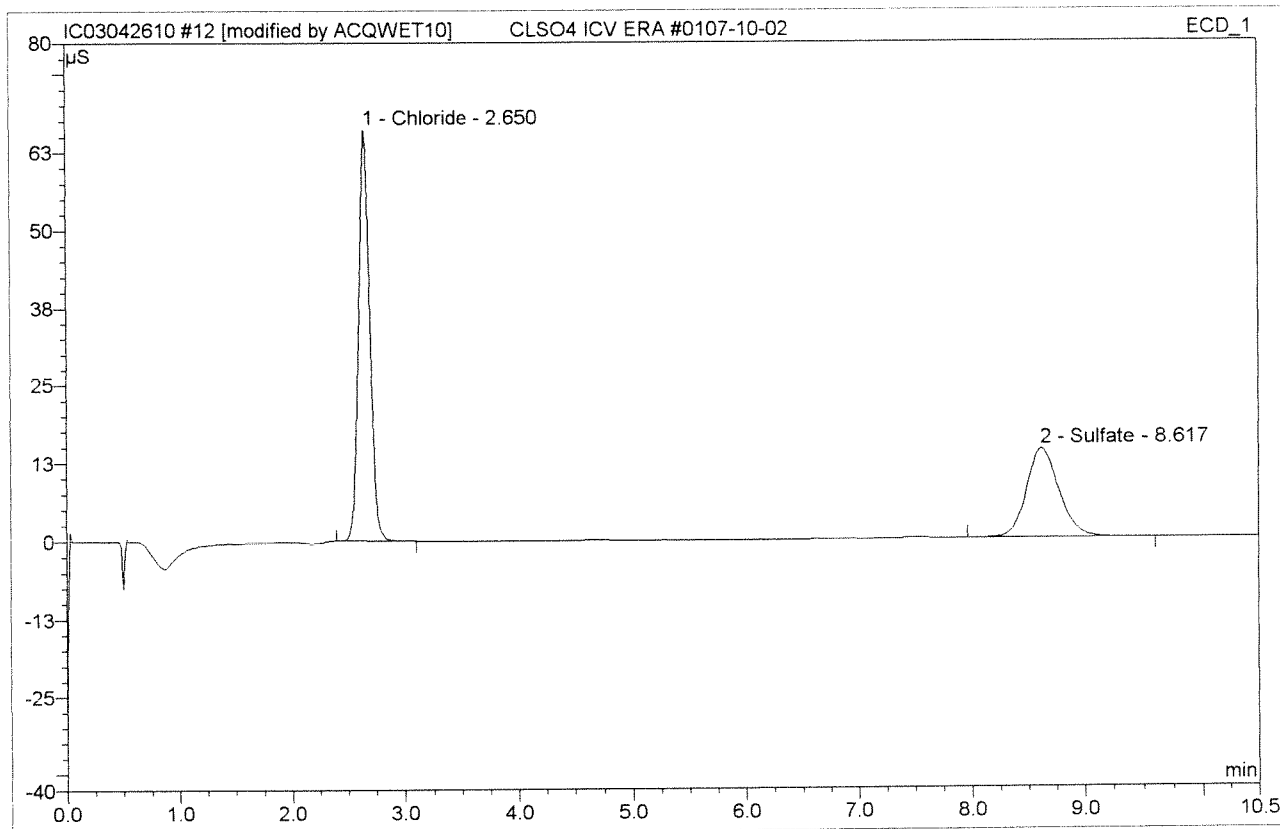
Before

APR 26 2010

12 CLSO4 ICV ERA #0107-10-02

CLSO4 ICV

Sample Name:	CLSO4 ICV ERA #0107-10-02	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 11:30	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.65	Chloride	65.962	7.498	61.00	4.808962	BMB*
2	8.62	Sulfate	14.257	4.794	39.00	4.871972	BMB
Total:			80.219	12.292	100.00	9.679	

APR 26 2010
12

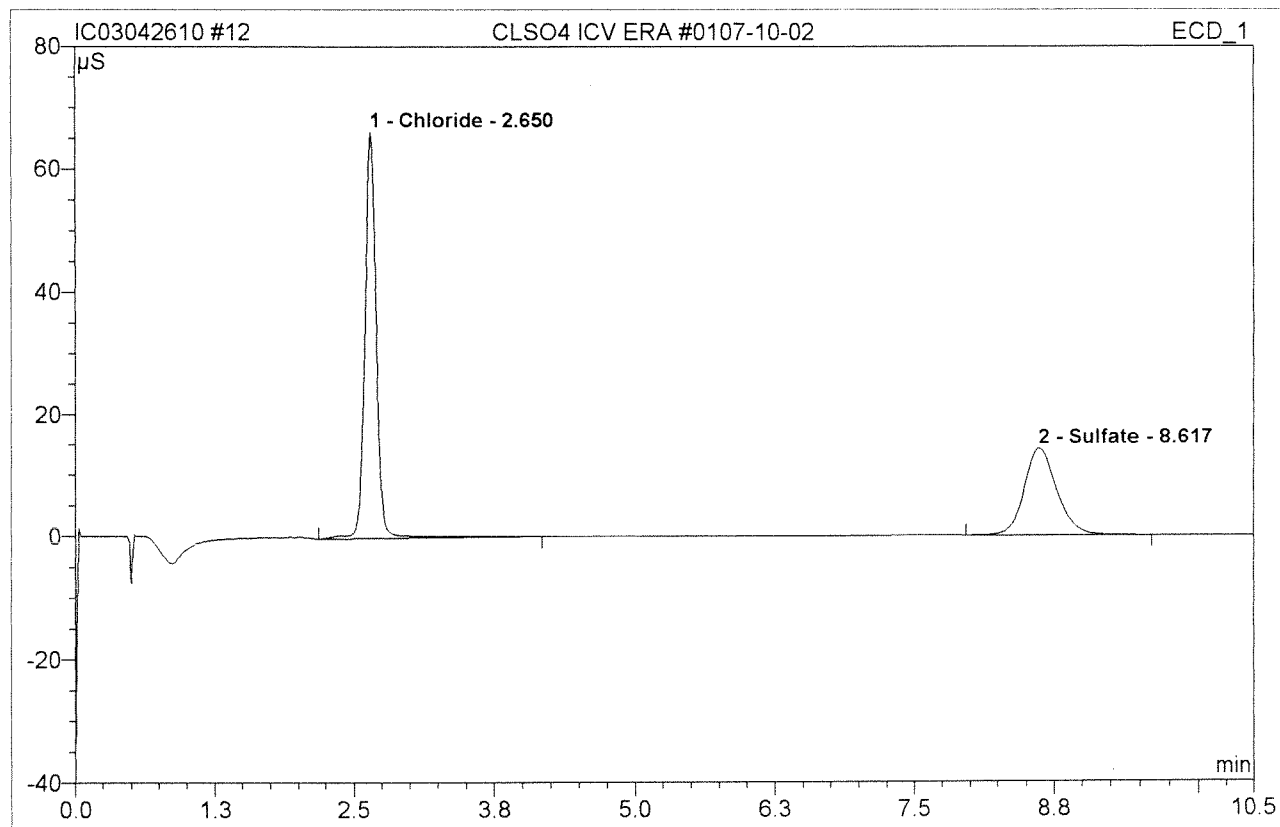
APR 26 2010

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

12 CLSO4 ICV ERA #0107-10-02

CLSO4 ICV

Sample Name:	CLSO4 ICV ERA #0107-10-02	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 11:30	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.65	Chloride	66.369	7.929	62.32	5.084	BMB
2	8.62	Sulfate	14.257	4.794	37.68	4.871	BMB
Total:			80.625	12.723	100.00	9.956	

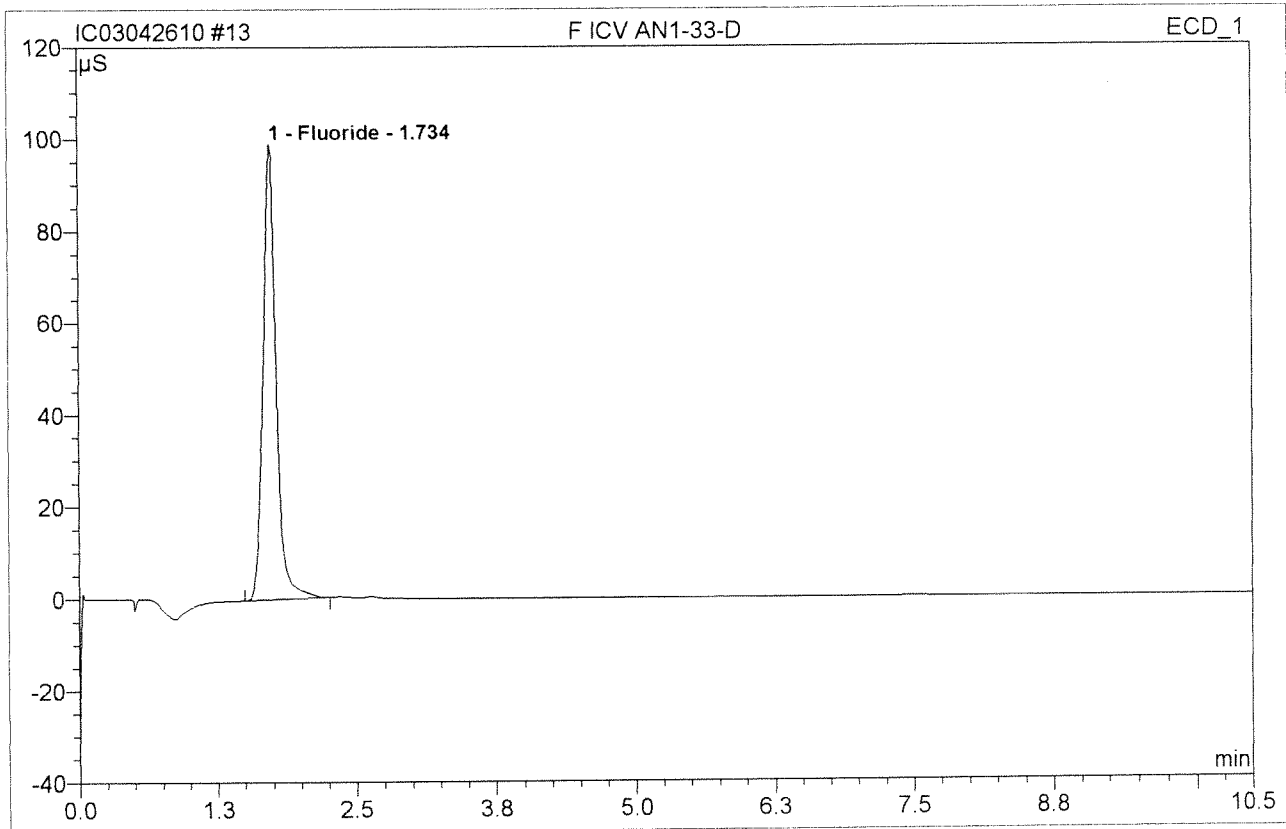
Before

APR 26 2010

13 F ICV AN1-33-D

F ICV

Sample Name:	F ICV AN1-33-D	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2010 11:43	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000

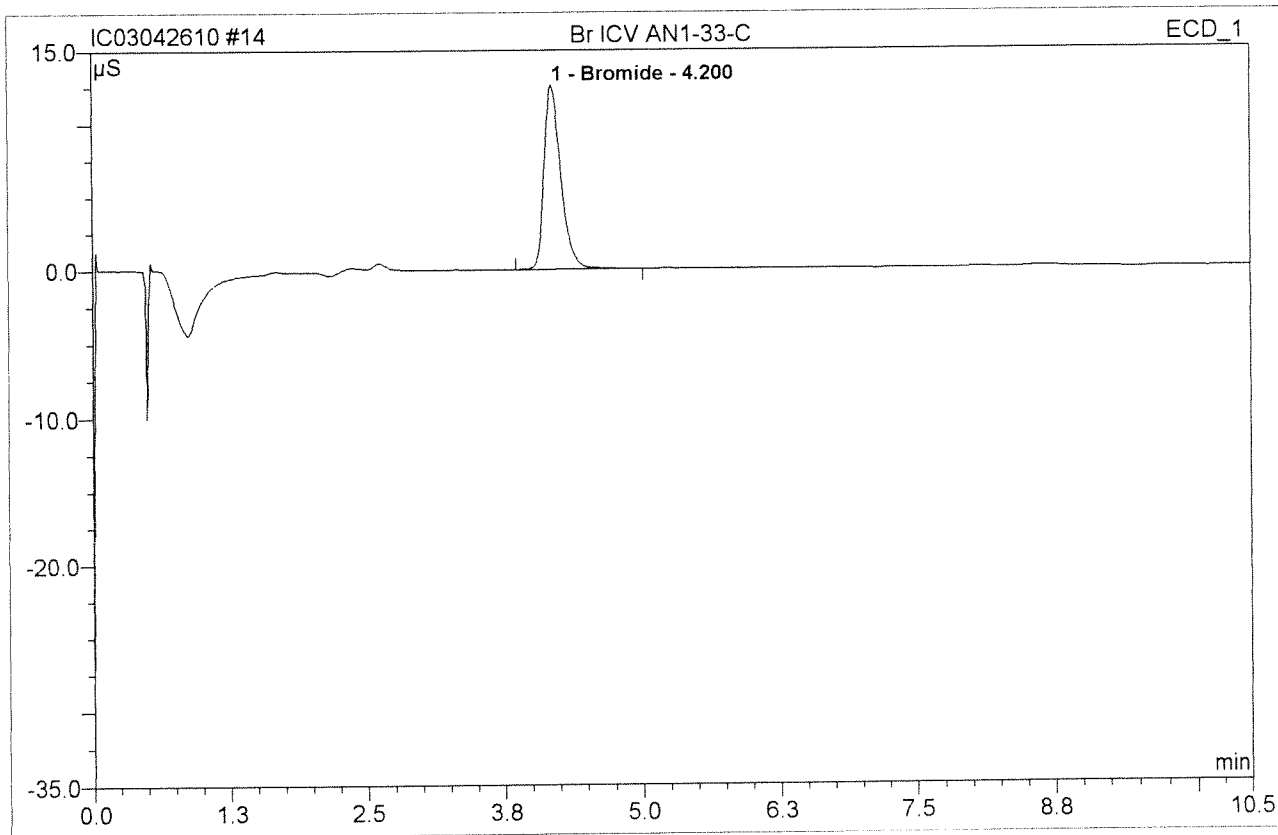


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.73	Fluoride	98.959	13.315	100.00	13.917103?	BMB
Total:			98.959	13.315	100.00	13.917	

14 Br ICV AN1-33-C

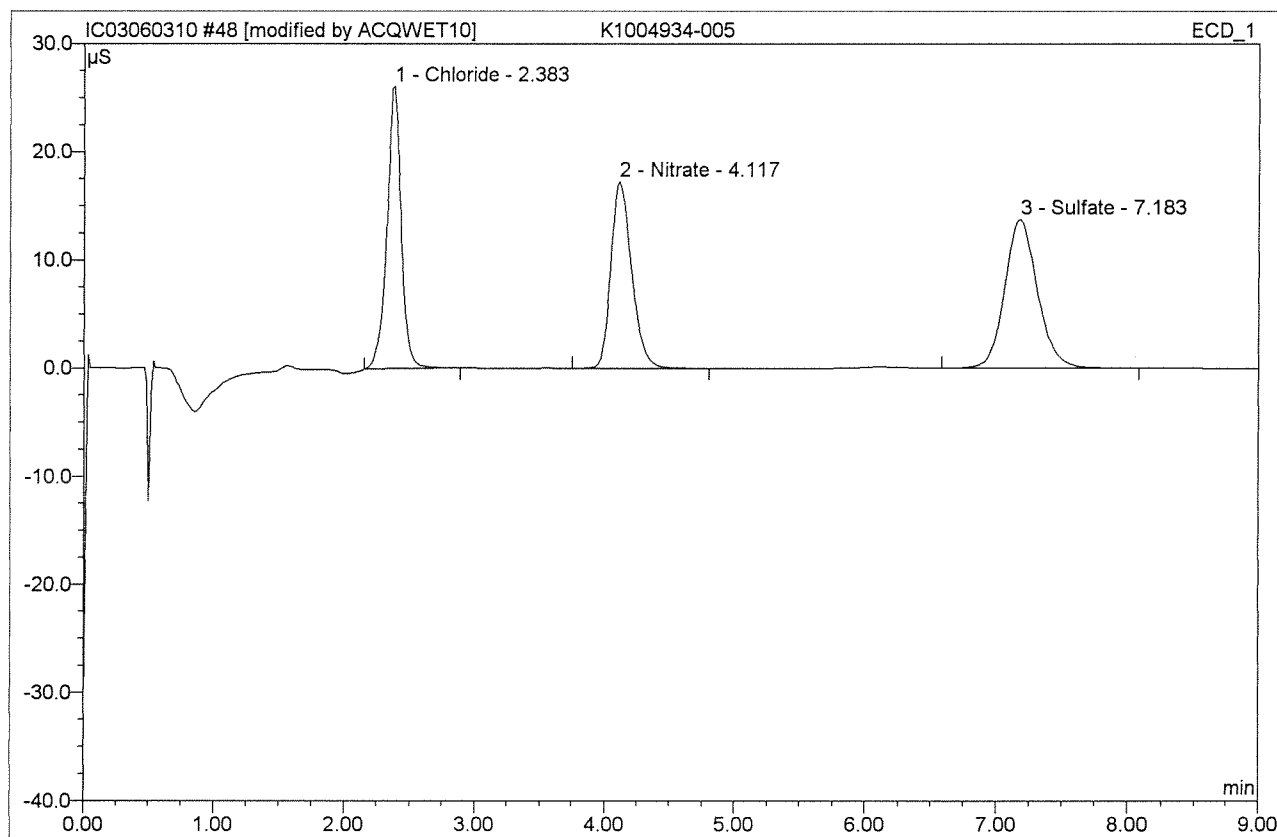
Br ICV

Sample Name:	Br ICV AN1-33-C	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 11:56	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.20	Bromide	12.583	2.210	100.00	4.124	100% BMB
Total:			12.583	2.210	100.00	4.124	

48 K1004934-005			
Sample Name:	K1004934-005	Injection Volume:	200.0
Vial Number:	45	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 16:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.38	Chloride	26.087	3.313	31.62	21.241	BMB*
2	4.12	Nitrate	17.214	3.189	30.44	8.656	BMB*
3	7.18	Sulfate	13.710	3.973	37.93	40.376	BMB
Total:			57.011	10.475	100.00	70.273	

Alter Initials

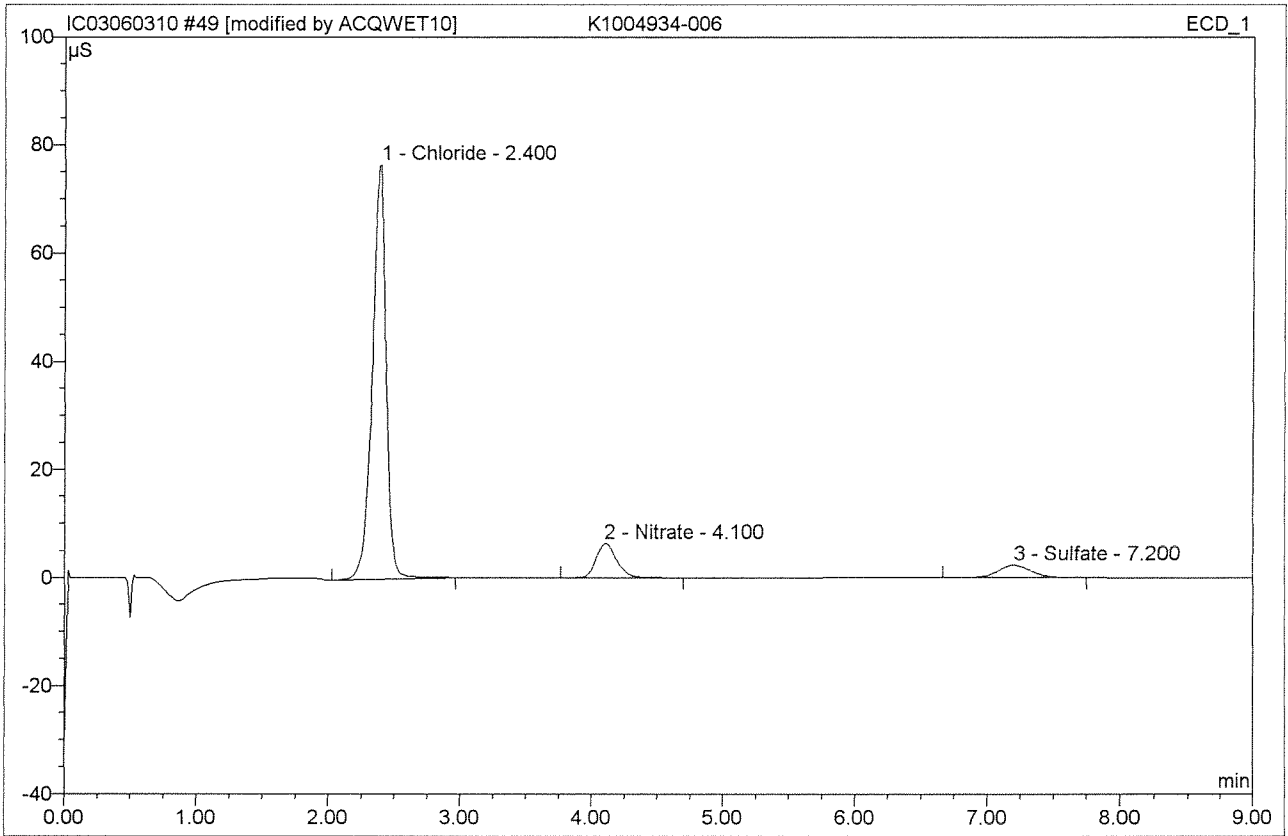
MB

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49 K1004934-006

Sample Name:	K1004934-006	Injection Volume:	200.0
Vial Number:	46	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	50.0000
Recording Time:	6/3/2010 16:50	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



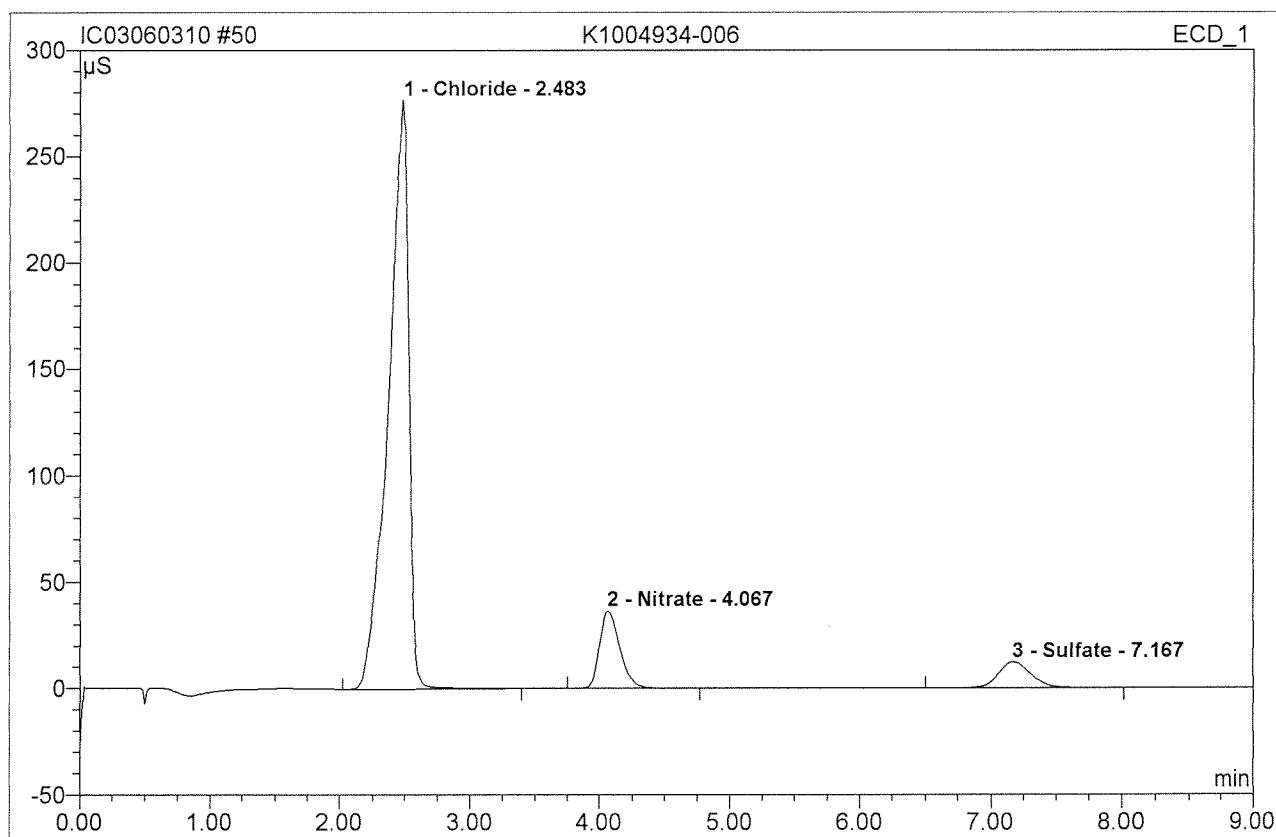
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.40	Chloride	76.612	9.398	83.70	301.302	BMB*
2	4.10	Nitrate	6.362	1.146	10.21	15.555	BMB*
3	7.20	Sulfate	2.329	0.684	6.09	34.762	BMB
Total:			85.302	11.228	100.00	351.619	

MB

6/4/10

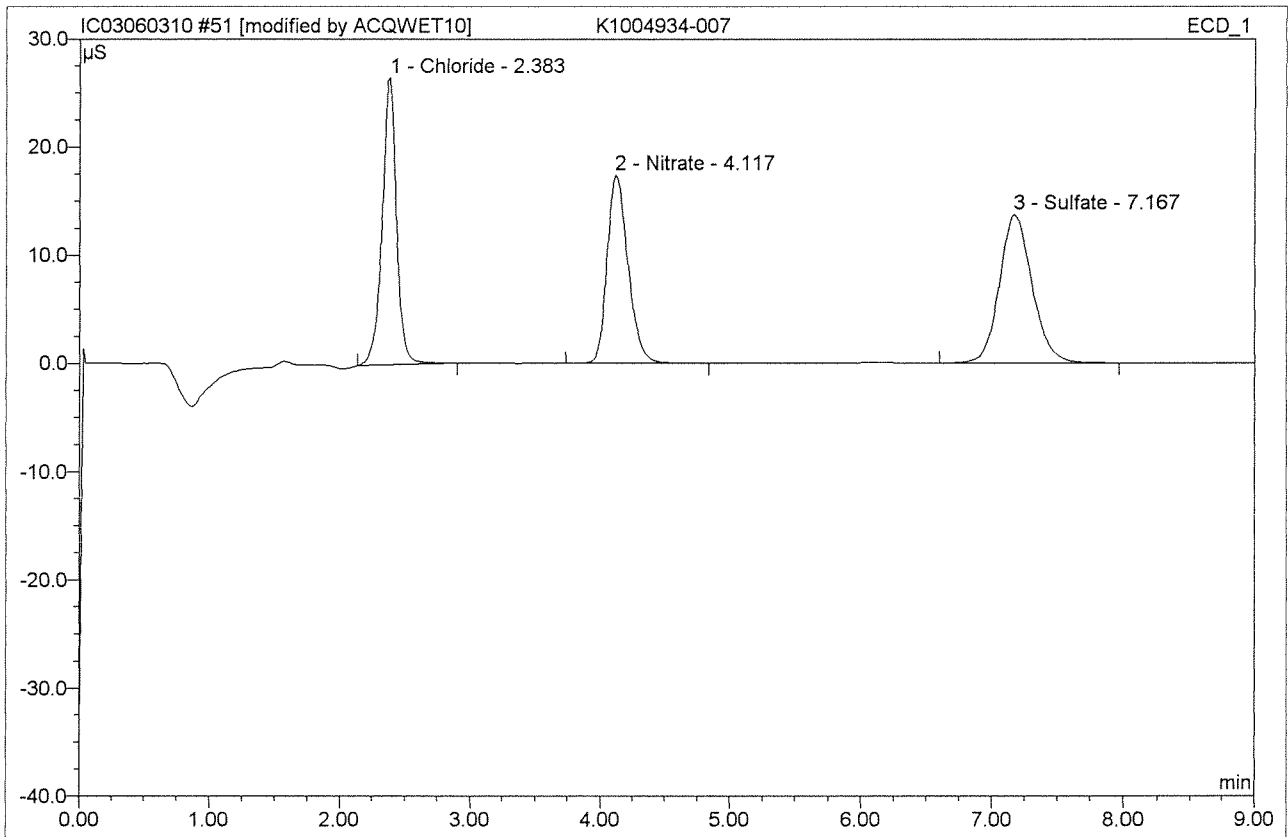
50 K1004934-006

Sample Name:	K1004934-006	Injection Volume:	200.0
Vial Number:	47	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 17:02	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	2.48	Chloride	276.722	50.031	83.08	320.806	BMB
2	4.07	Nitrate	36.705	6.622	11.00	17.975	BMB
3	7.17	Sulfate	12.356	3.570	5.93	36.278	BMB
Total:			325.783	60.223	100.00	375.059	

51 K1004934-007			
Sample Name:	K1004934-007	Injection Volume:	200.0
Vial Number:	48	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 17:13	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



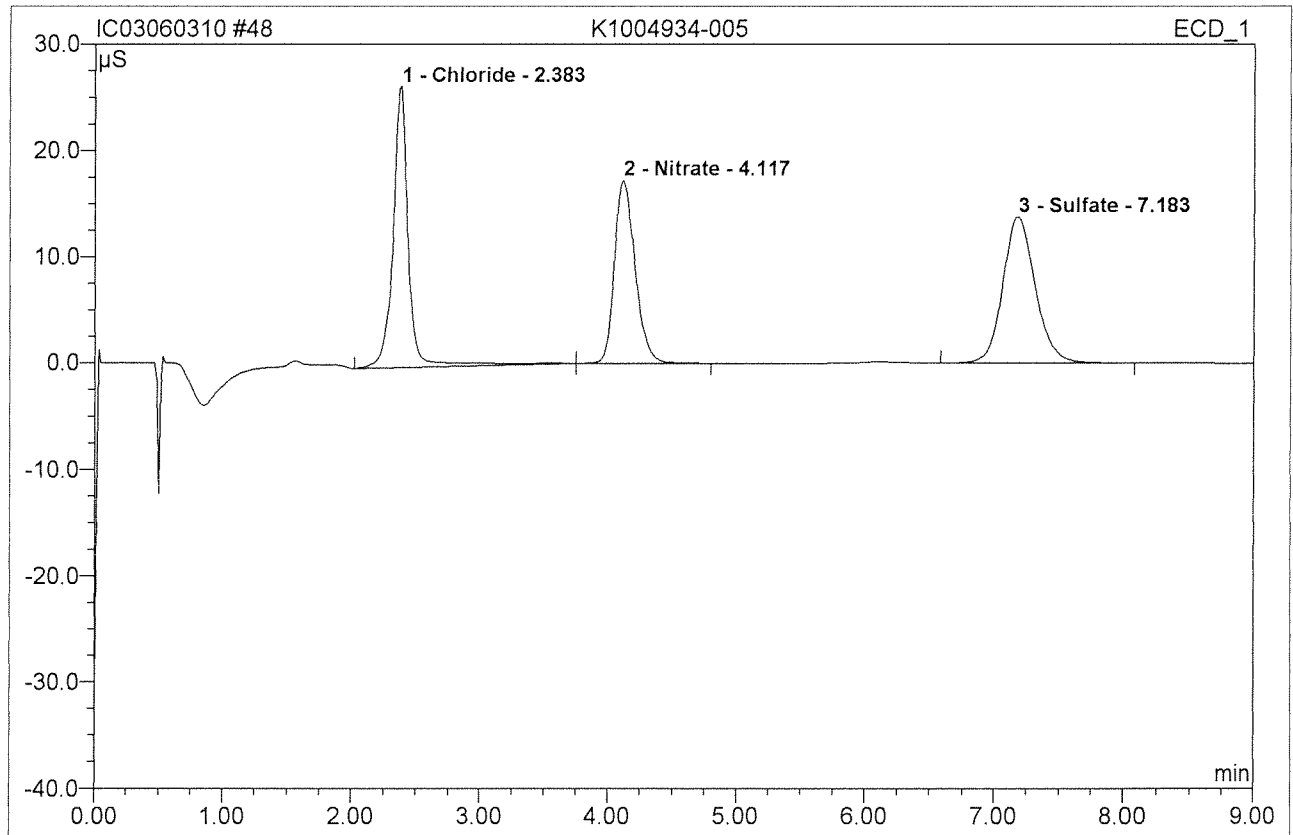
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.38	Chloride	26.512	3.391	32.12	21.747	BMB*
2	4.12	Nitrate	17.401	3.230	30.58	8.767	BMB*
3	7.17	Sulfate	13.684	3.939	37.30	40.026	BMB
Total:			57.597	10.560	100.00	70.540	

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Handwritten date: 6/4/10

Handwritten date: 6/3/2010

48 K1004934-005			
Sample Name:	K1004934-005	Injection Volume:	200.0
Vial Number:	45	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 16:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



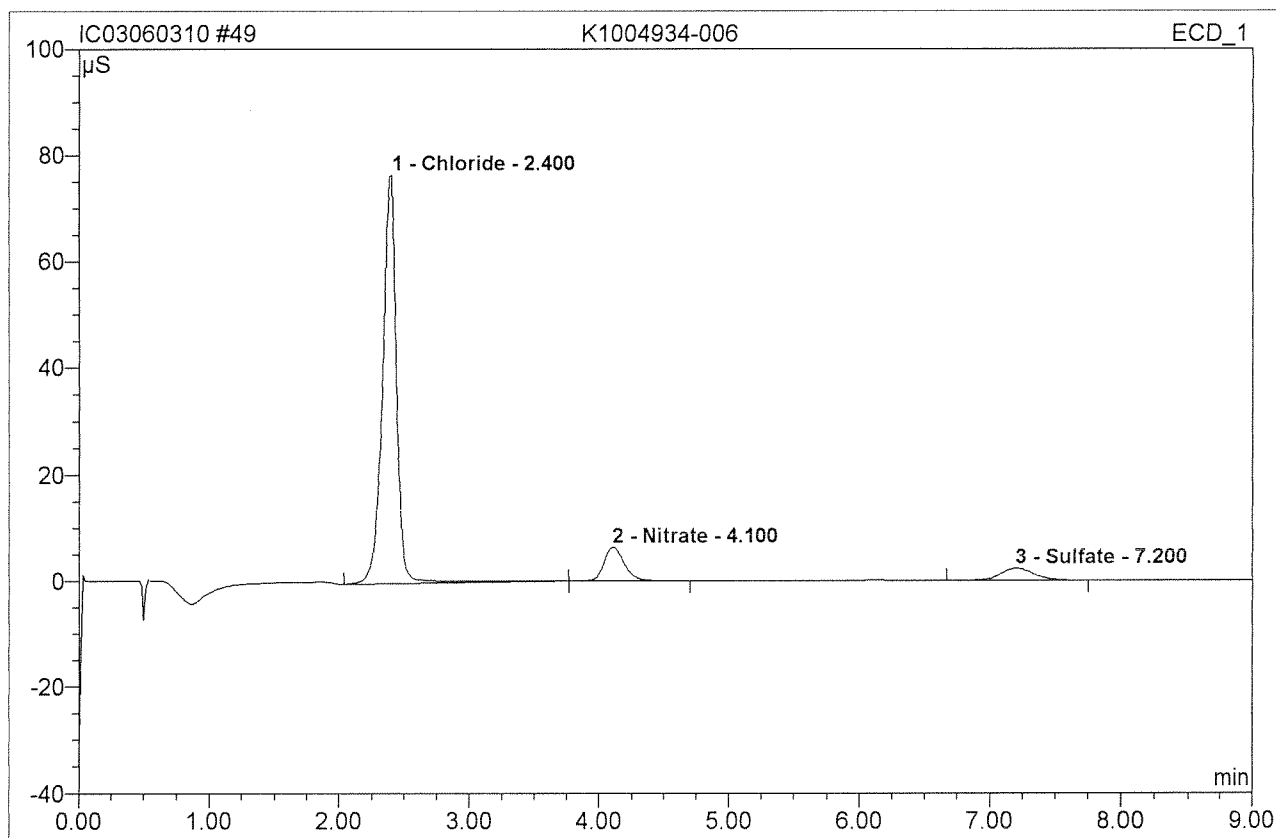
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.38	Chloride	26.426	3.689	34.00	23.654	BMB
2	4.12	Nitrate	17.214	3.189	29.39	8.656	bMB
3	7.18	Sulfate	13.710	3.973	36.62	40.376	BMB
Total:			57.350	10.851	100.00	72.687	

Before

JUN 03 2010

49 K1004934-006

Sample Name:	K1004934-006	Injection Volume:	200.0
Vial Number:	46	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	50.0000
Recording Time:	6/3/2010 16:50	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

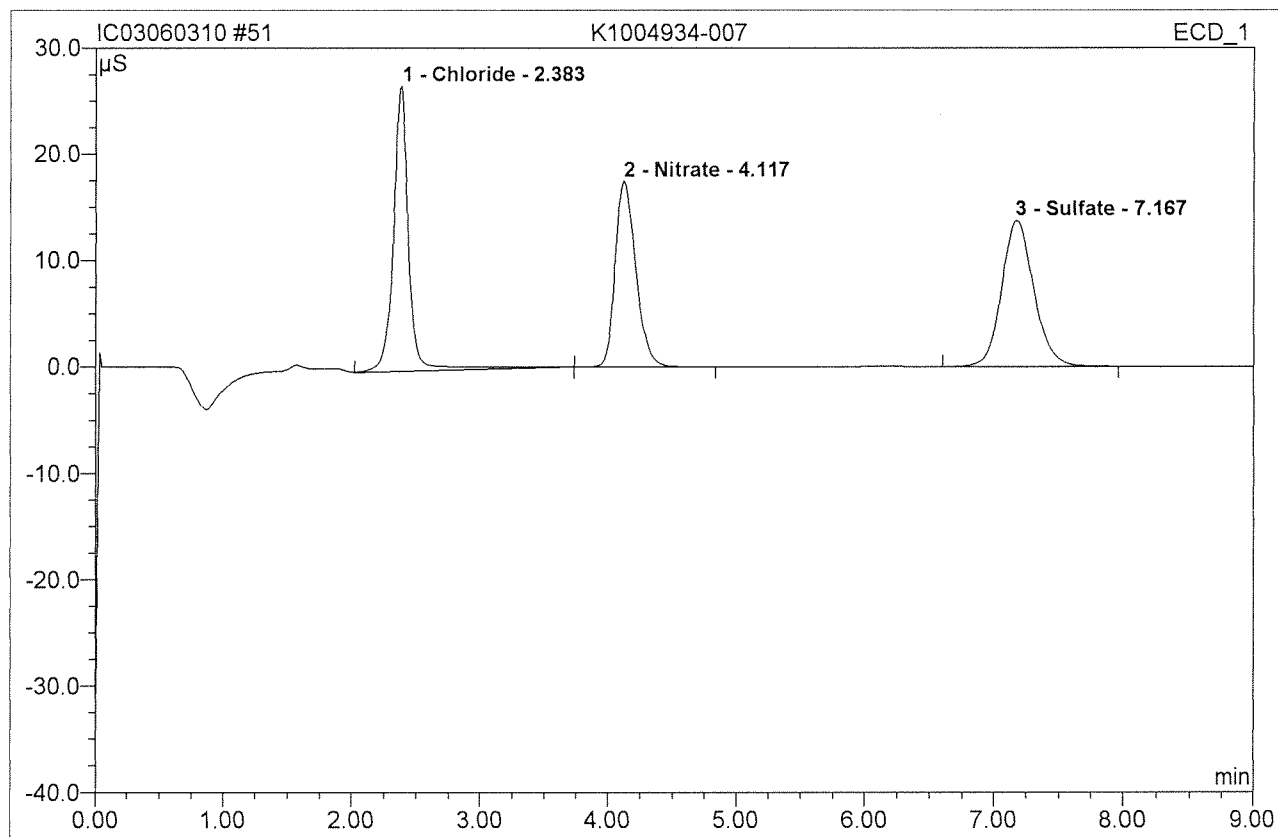


No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount	Type
1	2.40	Chloride	76.720	9.636	84.04	308.936	BMB
2	4.10	Nitrate	6.362	1.146	10.00	15.555	bMB
3	7.20	Sulfate	2.329	0.684	5.97	34.762	BMB
Total:			85.410	11.466	100.00	359.253	

Before

JUN 03 2010

51 K1004934-007			
Sample Name:	K1004934-007	Injection Volume:	200.0
Vial Number:	48	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 17:13	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



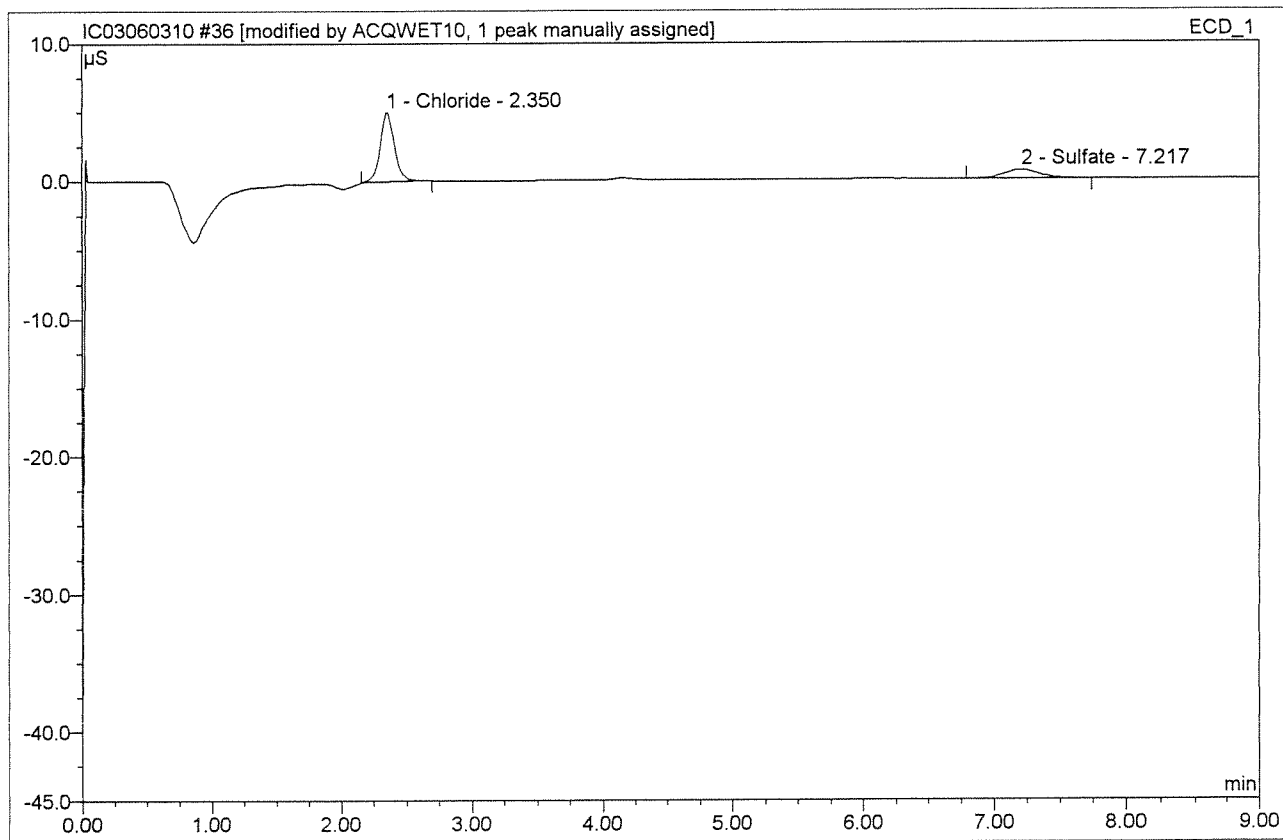
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.38	Chloride	26.773	3.710	34.10	23.789	BMB
2	4.12	Nitrate	17.401	3.230	29.69	8.767	bMB
3	7.17	Sulfate	13.684	3.939	36.21	40.026	BMB
Total:			57.858	10.879	100.00	72.582	

Before

JUN 03 2010

36 K1005346-001

Sample Name:	K1005346-001	Injection Volume:	200.0
Vial Number:	33	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/3/2010 14:21	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



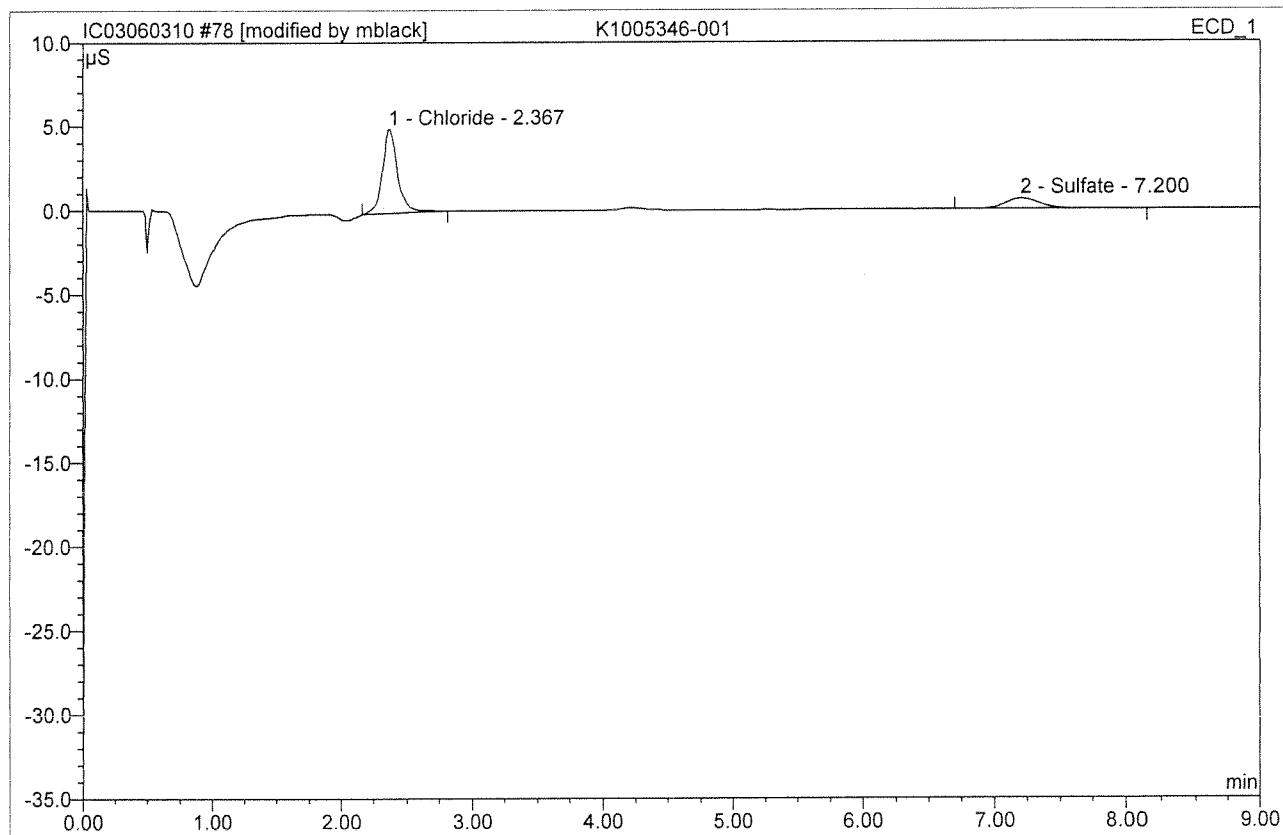
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.35	Chloride $\times 2.085 \times 10^{-6} \%$	5.028	0.643	77.40	0.824	BMB*^
2	7.22	Sulfate	0.621	0.188	22.60	0.381	BMB
Total:			5.649	0.830	100.00	1.206	

MB

2010/6/4/10

6/3/2010

78 K1005346-001			
5346-1D			
Sample Name:	K1005346-001	Injection Volume:	200.0
Vial Number:	75	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/3/2010 22:23	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.37	Chloride	4.993	0.678	77.66	0.870	BMB*
2	7.20	Sulfate	0.623	0.195	22.34	0.396	BMB
Total:			5.616	0.873	100.00	1.266	

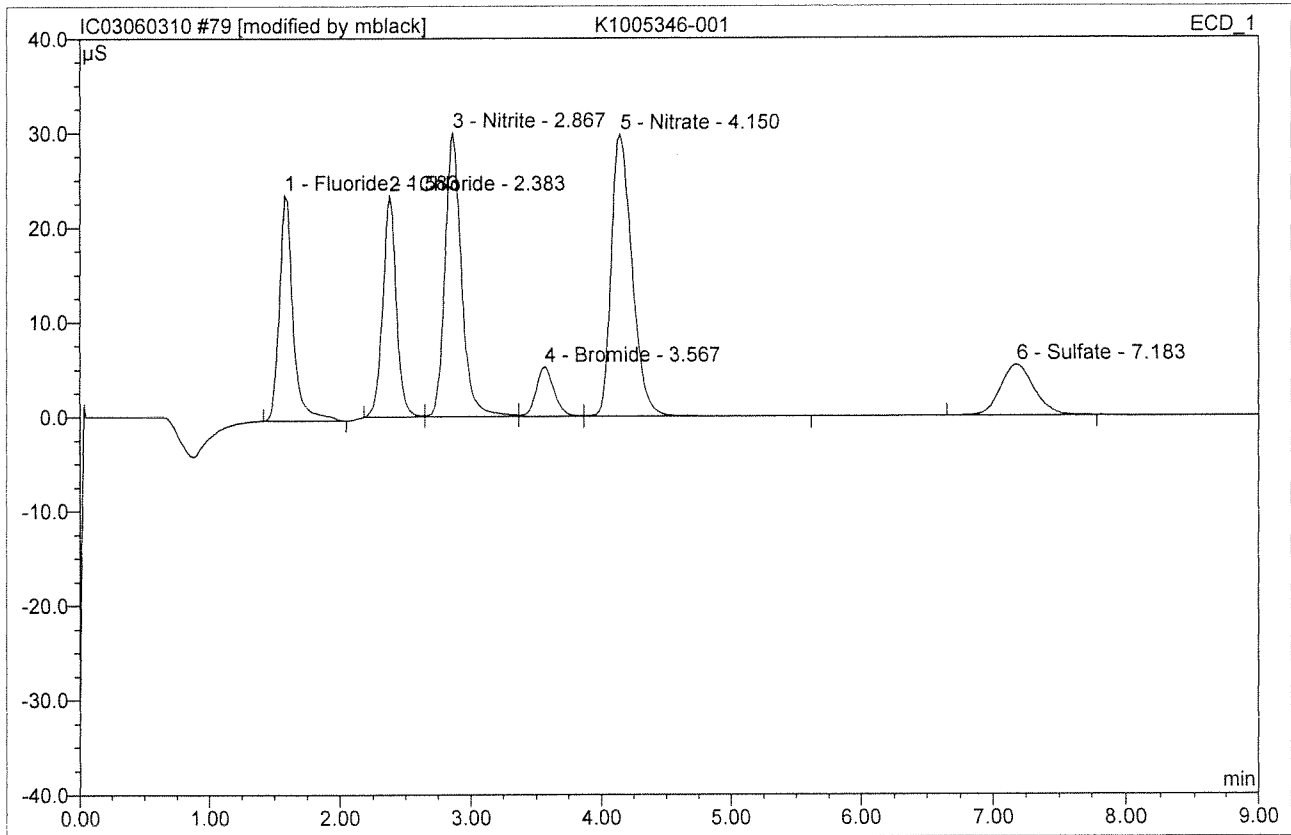
After
audit

MB

6/4/10

JUN 04 2010

79 K1005346-001			
5346-1MS			
Sample Name:	K1005346-001	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/3/2010 22:34	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	23.857	2.940	16.16	3.073102?	BMB*
2	2.38	Chloride	23.420	2.833	15.57	3.63344?	BM *
3	2.87	Nitrite	30.049	4.466	24.55	3.093103?	M *
4	3.57	Bromide	5.274	0.850	4.67	3.171106?	M *
5	4.15	Nitrate	29.843	5.504	30.26	2.988100?	MB*
6	7.18	Sulfate	5.399	1.599	8.79	3.25096?	BMB
Total:			117.842	18.190	100.00	19.207	

TV=3.00

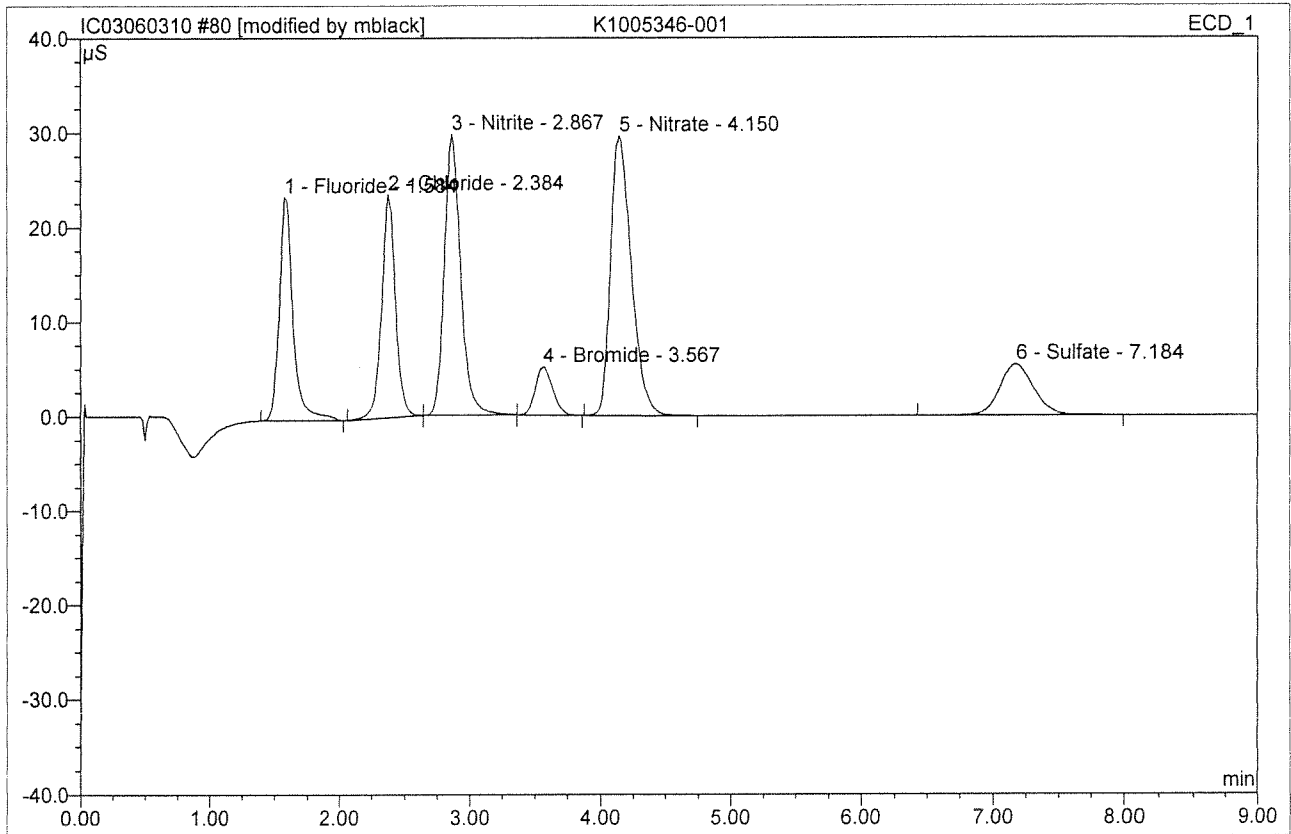
After
inicals

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6/4/10

JUN 04 2010

80 K1005346-001			
5346-1MSD			
Sample Name:	K1005346-001	Injection Volume:	200.0
Vial Number:	77	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/3/2010 22:46	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	23.631	2.932	16.32	3.064/162%	BMB*
2	2.38	Chloride	23.556	2.876	16.01	3.688/16%	BMB
3	2.87	Nitrite	29.700	4.332	24.11	3.000/100%	bMB
4	3.57	Bromide	5.093	0.787	4.38	2.939/98%	bMB
5	4.15	Nitrate	29.577	5.429	30.22	2.947/98%	BMB
6	7.18	Sulfate	5.396	1.609	8.96	3.270/96%	BMB
Total:			116.953	17.965	100.00	18.910	

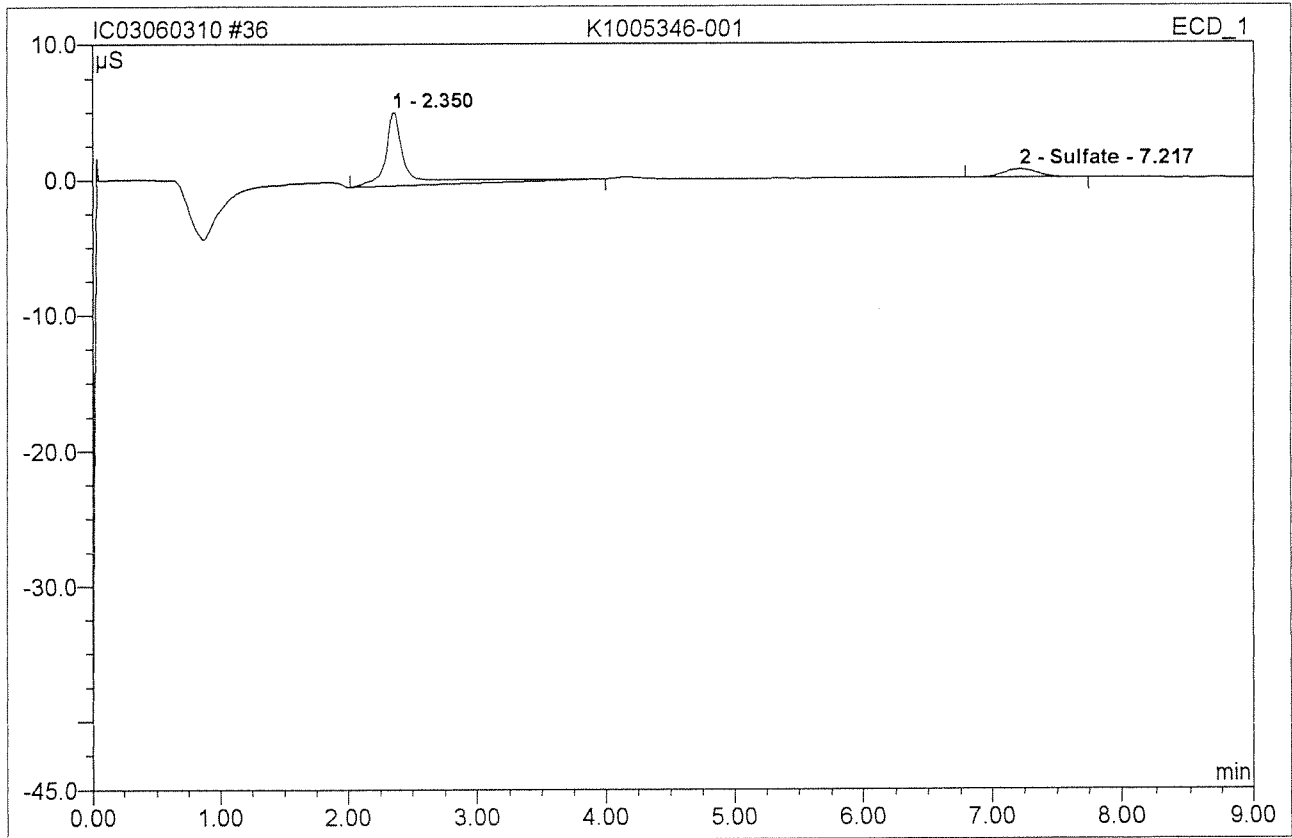
TV=3.00

After Initials *MB*

26/4/10

JUN 04 2010

36 K1005346-001			
Sample Name:	K1005346-001	Injection Volume:	200.0
Vial Number:	33	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/3/2010 14:21	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.35	n.a.	5.418	1.107	85.51	n.a.	BMB
2	7.22	Sulfate	0.621	0.188	14.49	0.381	BMB
Total:			6.038	1.295	100.00	0.381	

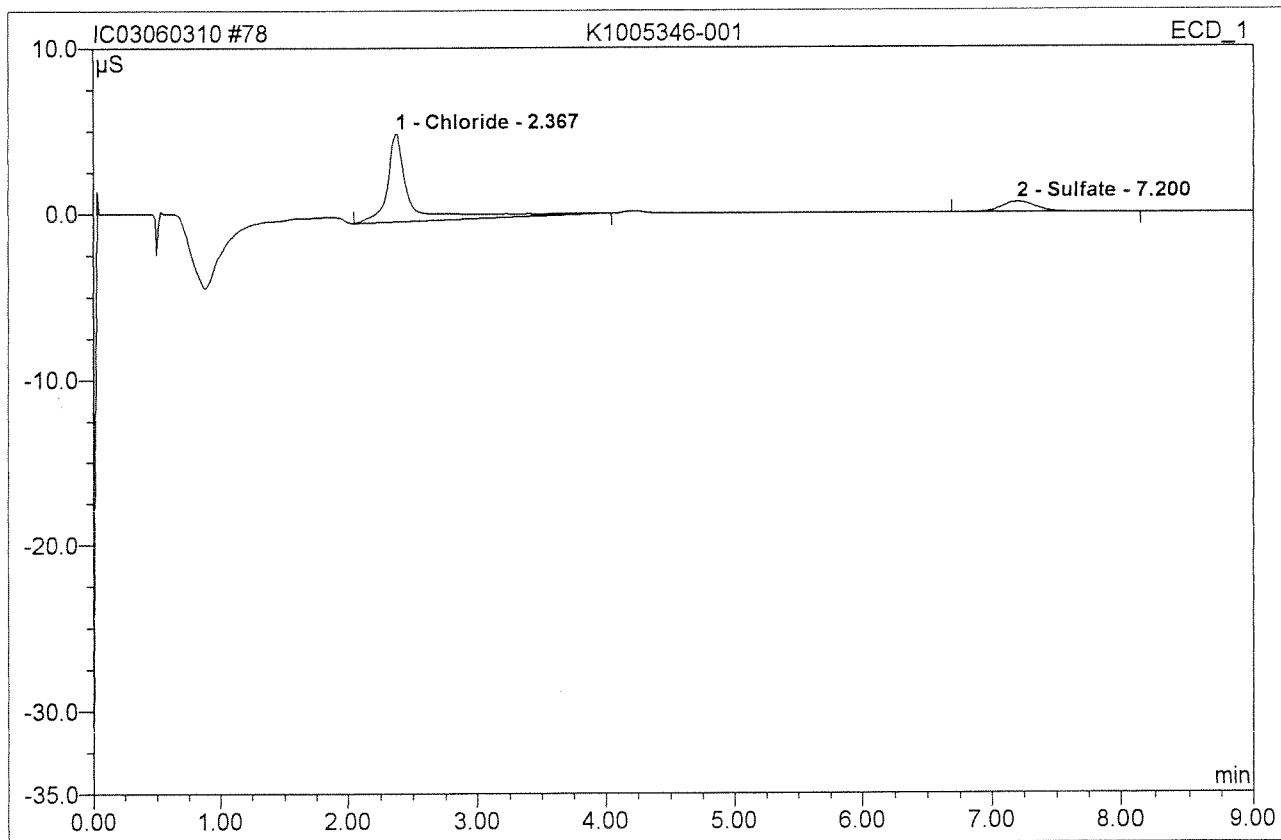
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JUN 03 2010

78 K1005346-001

5346-1D

Sample Name:	K1005346-001	Injection Volume:	200.0
Vial Number:	75	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/3/2010 22:23	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

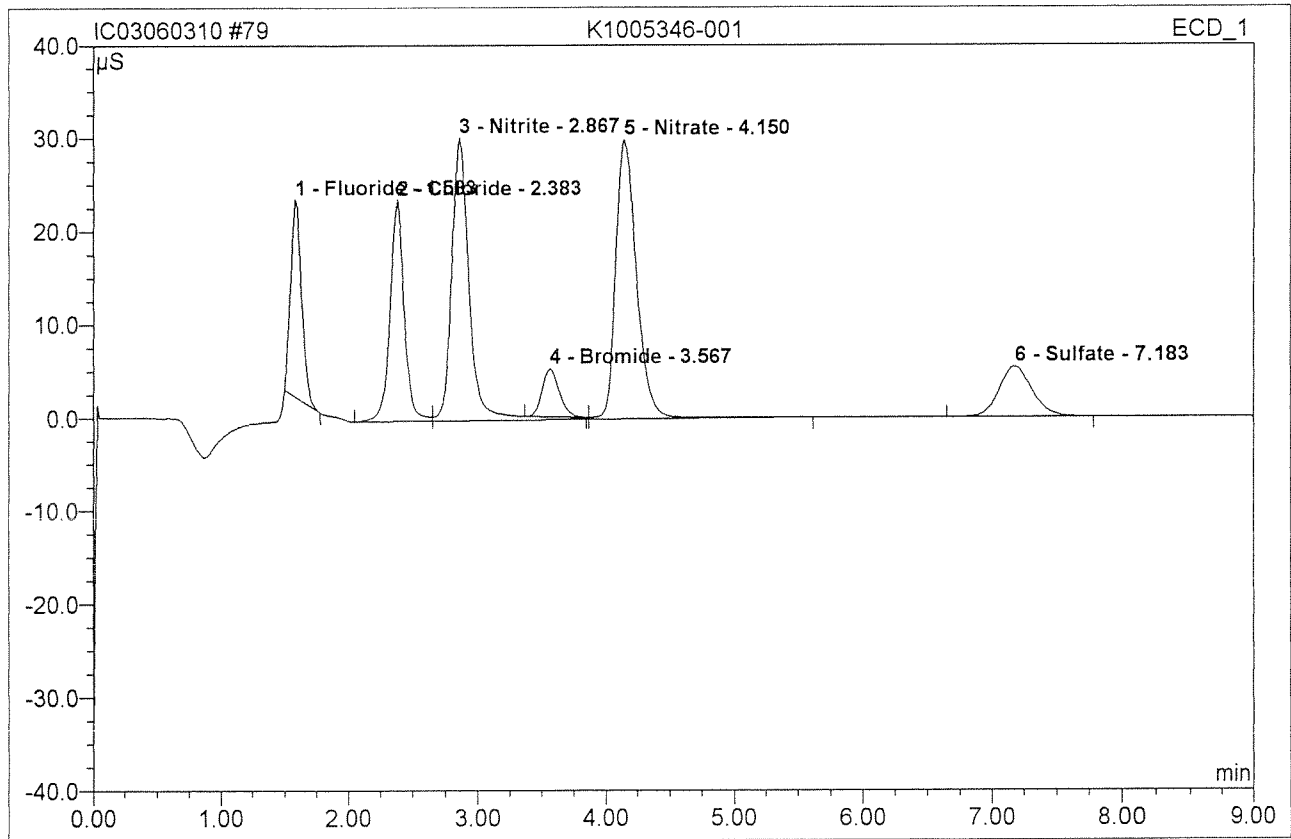


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.37	Chloride	5.318	1.114	85.10	1.428	BMB
2	7.20	Sulfate	0.623	0.195	14.90	0.396	BMB
Total:			5.941	1.309	100.00	1.825	

Before

JUN 04 2010

79 K1005346-001			
5346-1MS			
Sample Name:	K1005346-001	Injection Volume:	200.0
Vial Number:	76	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/3/2010 22:34	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

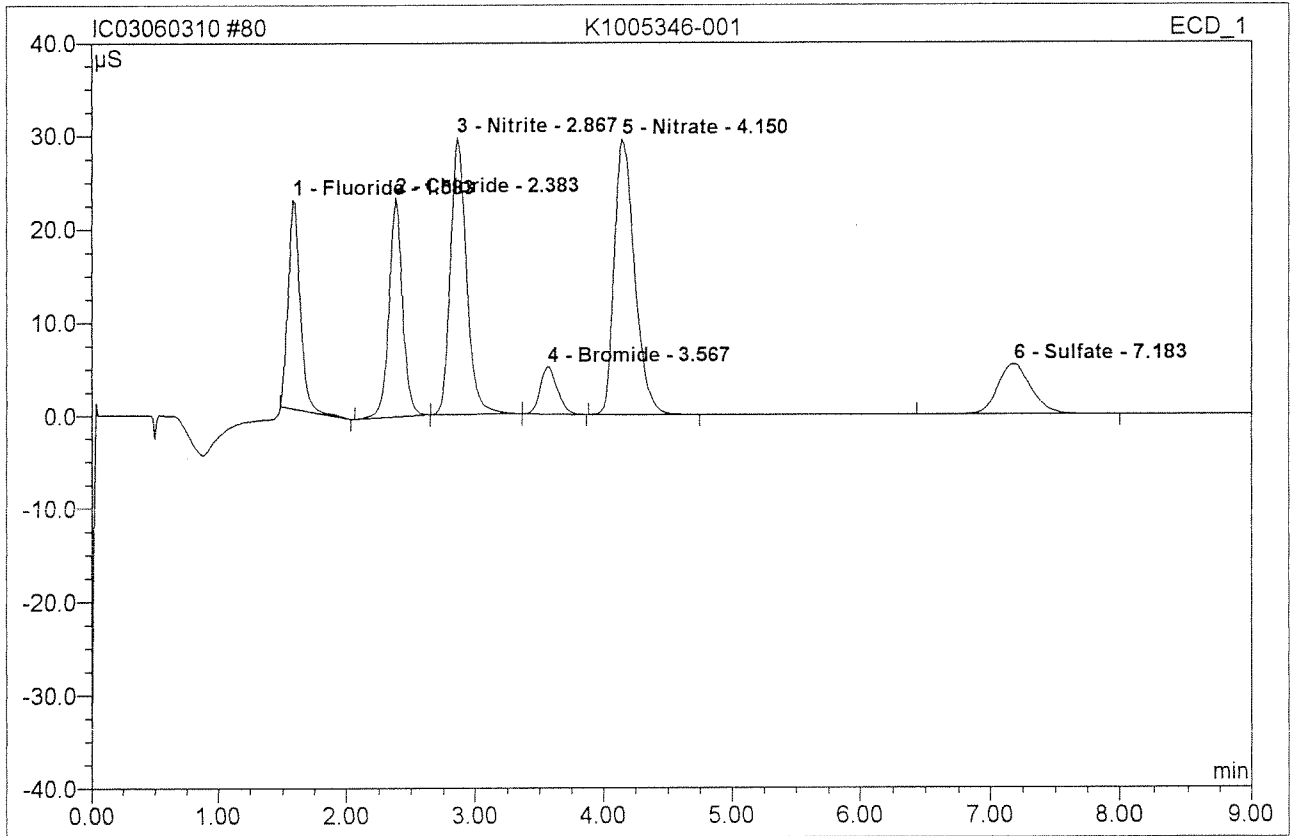


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.58	Fluoride	21.150	2.127	11.81	2.223	BMB
2	2.38	Chloride	23.759	3.007	16.69	3.857	BM
3	2.87	Nitrite	30.337	4.825	26.79	3.342	M
4	3.57	Bromide	5.146	0.791	4.39	2.954	Rd
5	4.15	Nitrate	29.997	5.665	31.45	3.075	MB
6	7.18	Sulfate	5.399	1.599	8.88	3.250	BMB
Total:			115.789	18.014	100.00	18.700	

Before

JUN 04 2010

80 K1005346-001			
5346-1MSD			
Sample Name:	K1005346-001	Injection Volume:	200.0
Vial Number:	77	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/3/2010 22:46	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

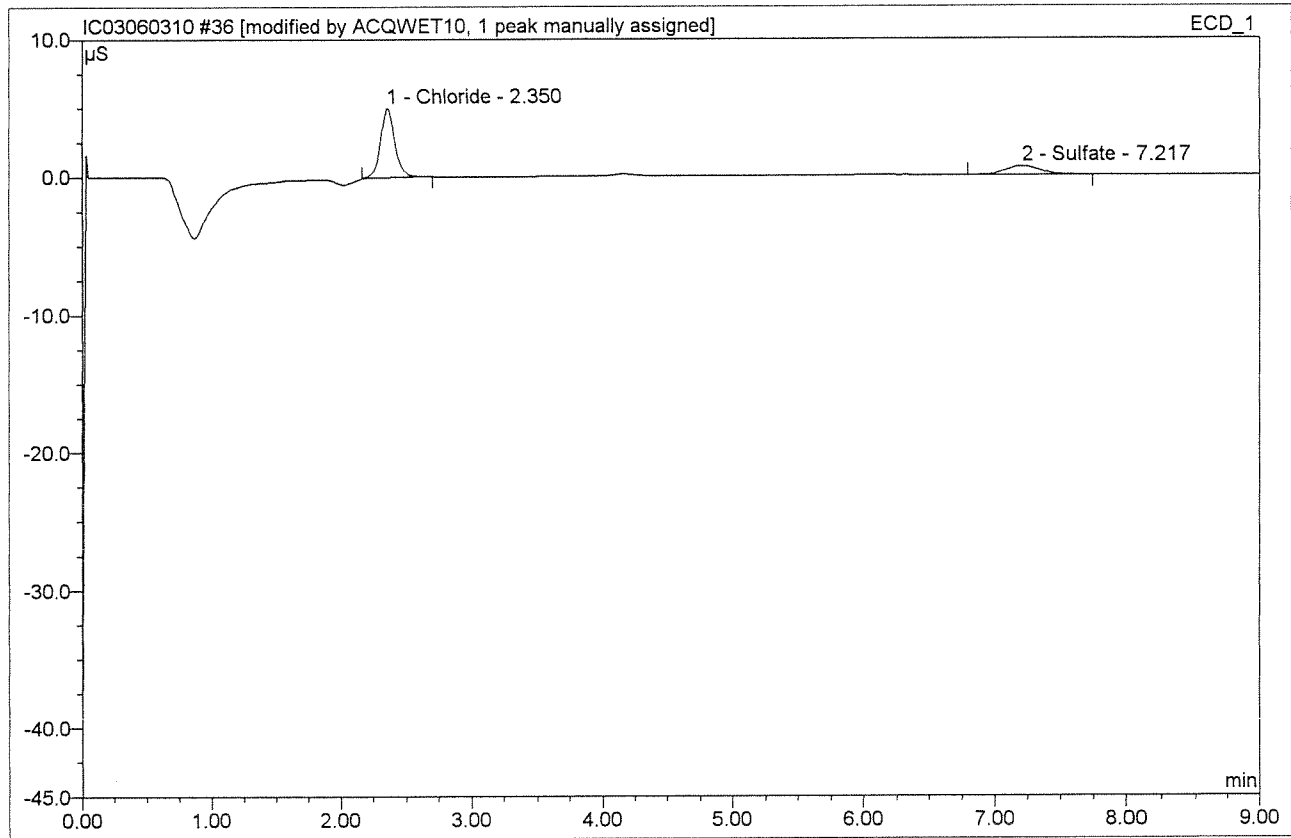


No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount	Type
1	1.58	Fluoride	22.460	2.513	14.32	2.627	BMB
2	2.38	Chloride	23.556	2.876	16.39	3.688	BMB
3	2.87	Nitrite	29.700	4.332	24.69	3.000	bMB
4	3.57	Bromide	5.093	0.787	4.49	2.939	bMB
5	4.15	Nitrate	29.577	5.429	30.94	2.947	BMB
6	7.18	Sulfate	5.396	1.609	9.17	3.270	BMB
Total:			115.782	17.547	100.00	18.472	

Before

JUN 04 2010

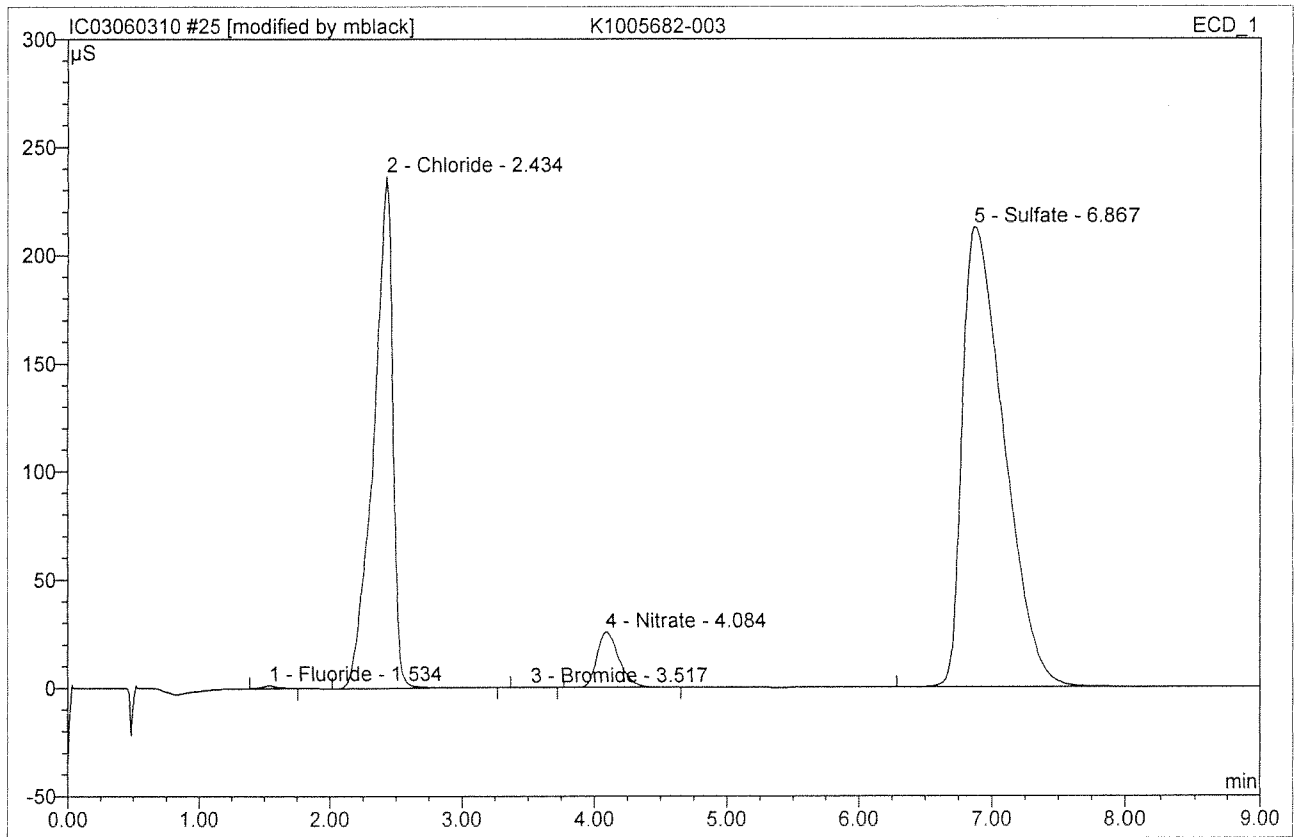
36 K1005346-001			
Sample Name:	K1005346-001	Injection Volume:	200.0
Vial Number:	33	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/3/2010 14:21	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.35	Chloride <i>x 20.85 #10 = 6%</i>	5.028	0.643	77.40	0.824	BMB*^
2	7.22	Sulfate	0.621	0.188	22.60	0.381	BMB
Total:			5.649	0.830	100.00	1.206	

MB *6/4/10*

25 K1005682-003			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	22	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 12:10	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.53	Fluoride	1.231	0.164	0.13	0.858	BMB*
2	2.43	Chloride	236.653	39.892	32.55	255.790	BMB*
3	3.52	Bromide	0.217	0.035	0.03	0.651	BMB*
4	4.08	Nitrate	25.726	4.974	4.06	13.502	BMB
5	6.87	Sulfate	212.650	77.487	63.23	787.408	BMB
Total:			476.477	122.552	100.00	1058.209	

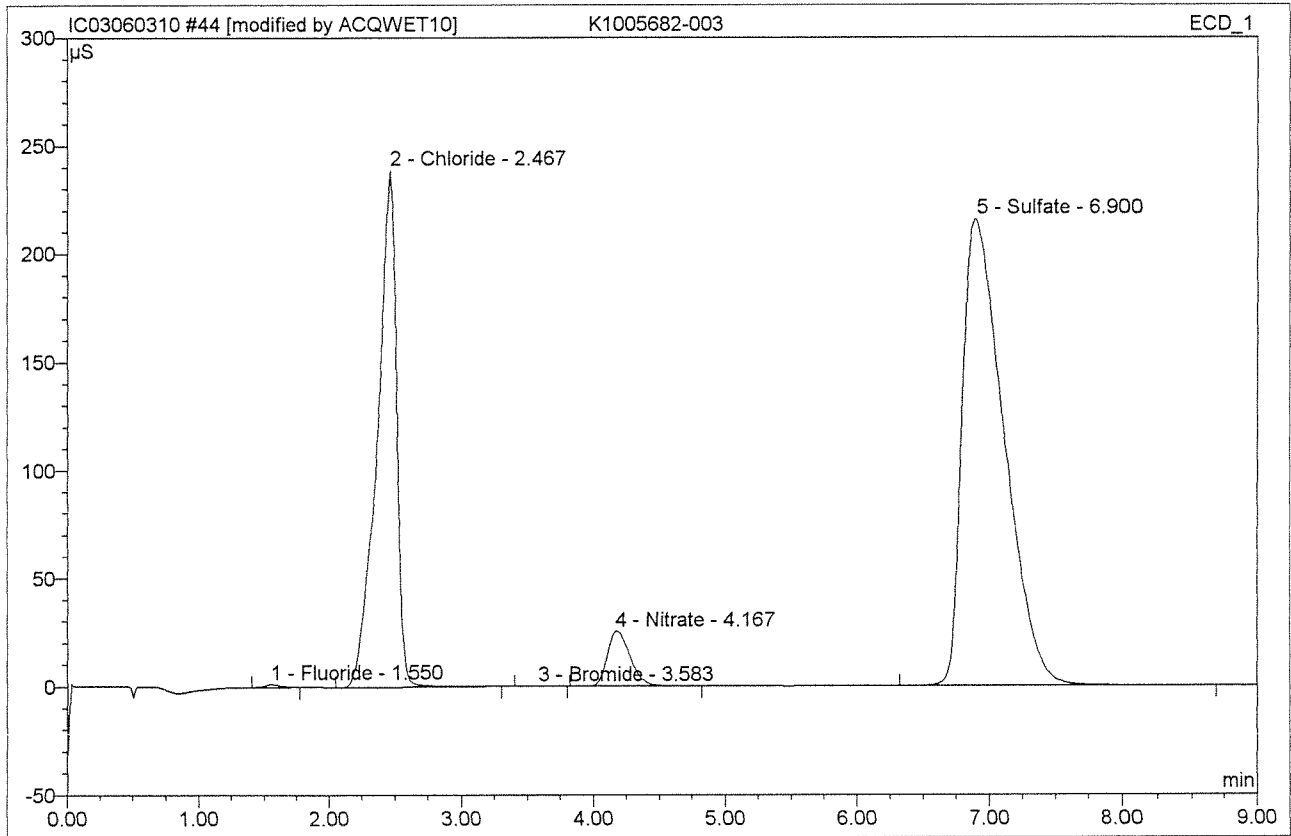
Nitrate = ND 4.00 Elevated MRL due to high Chloride and sulfate

x = ND RPD = —

MS

206/4/10

44 K1005682-003			
5682-3D			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 15:53	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



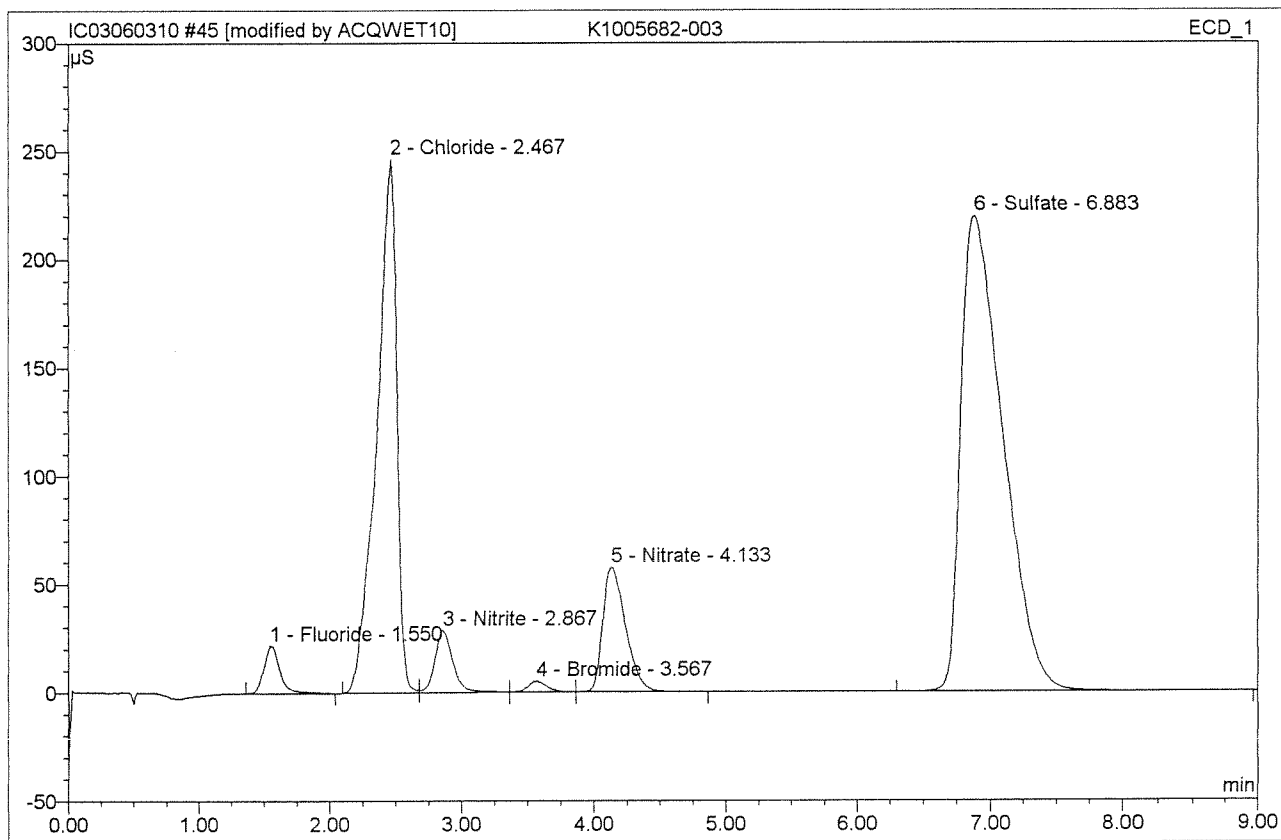
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.55	Fluoride <i>2.20</i>	1.256	0.167	0.13	0.871	BMB*
2	2.47	Chloride	238.727	40.614	32.56	260.423	BMB*
3	3.58	Bromide <i>2.100</i>	0.211	0.035	0.03	0.650	BMB*
4	4.17	Nitrate	25.418	5.065	4.06	13.749	BMB
5	6.90	Sulfate	215.652	78.853	63.22	801.289	BMB
Total:			481.265	124.733	100.00	1076.982	

Nitrate = ND 400

MB

26/4/10

45 K1005682-003			
5682-3MS			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	42	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 16:04	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



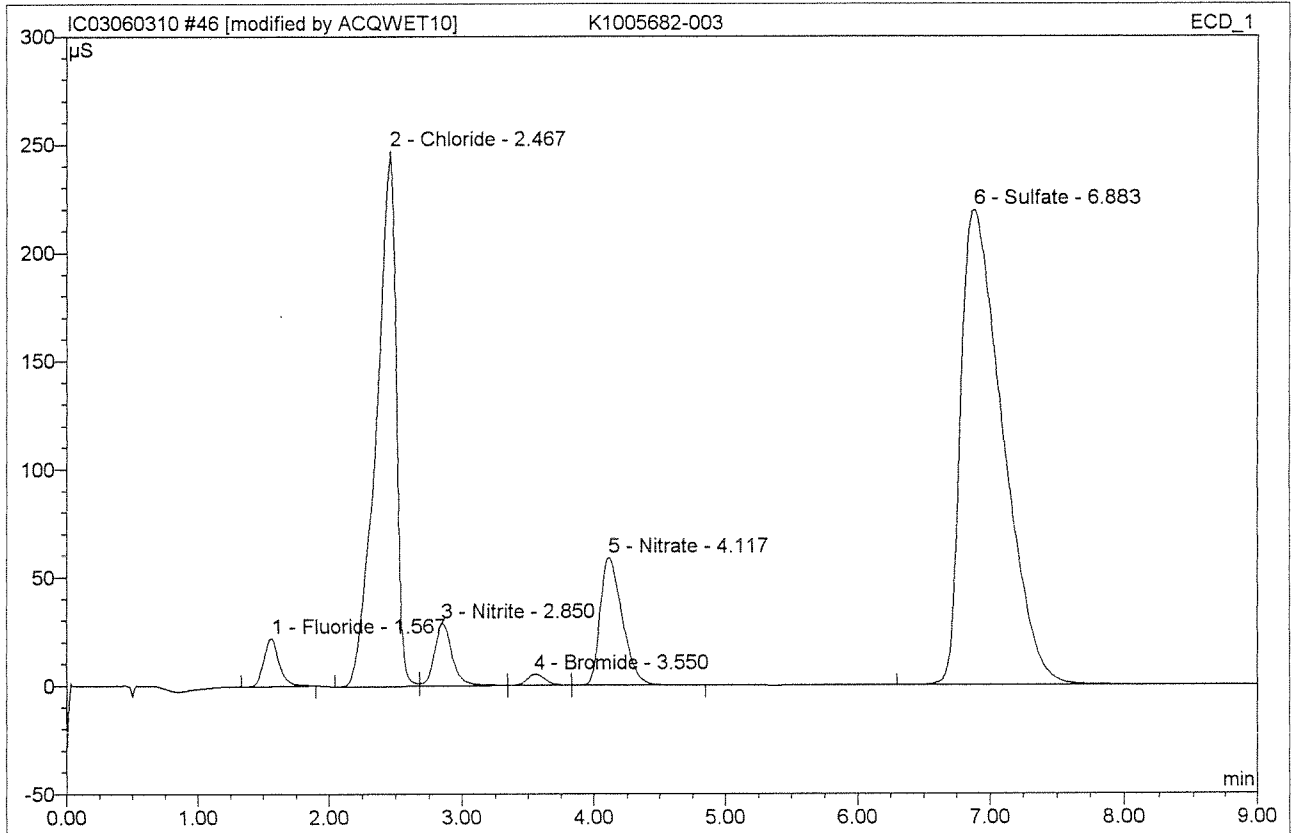
No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount	Type
1	1.55	Fluoride	21.959	3.146	2.20	16.442169%	BMB*
2	2.47	Chloride	246.406	42.891	30.01	275.026	BM *
3	2.87	Nitrite	28.432	4.472	3.13	15.489163%	Mb*
4	3.57	Bromide	4.925	0.821	0.57	15.328162%	bMB*
5	4.13	Nitrate	57.520	11.521	8.06	31.274119%	bMB*
6	6.88	Sulfate	219.603	80.086	56.03	813.818	BMB
Total:			578.845	142.938	100.00	1167.377	

TV=15.0

MB

206/4/10

46 K1005682-003			
5682-3MSD			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 16:16	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



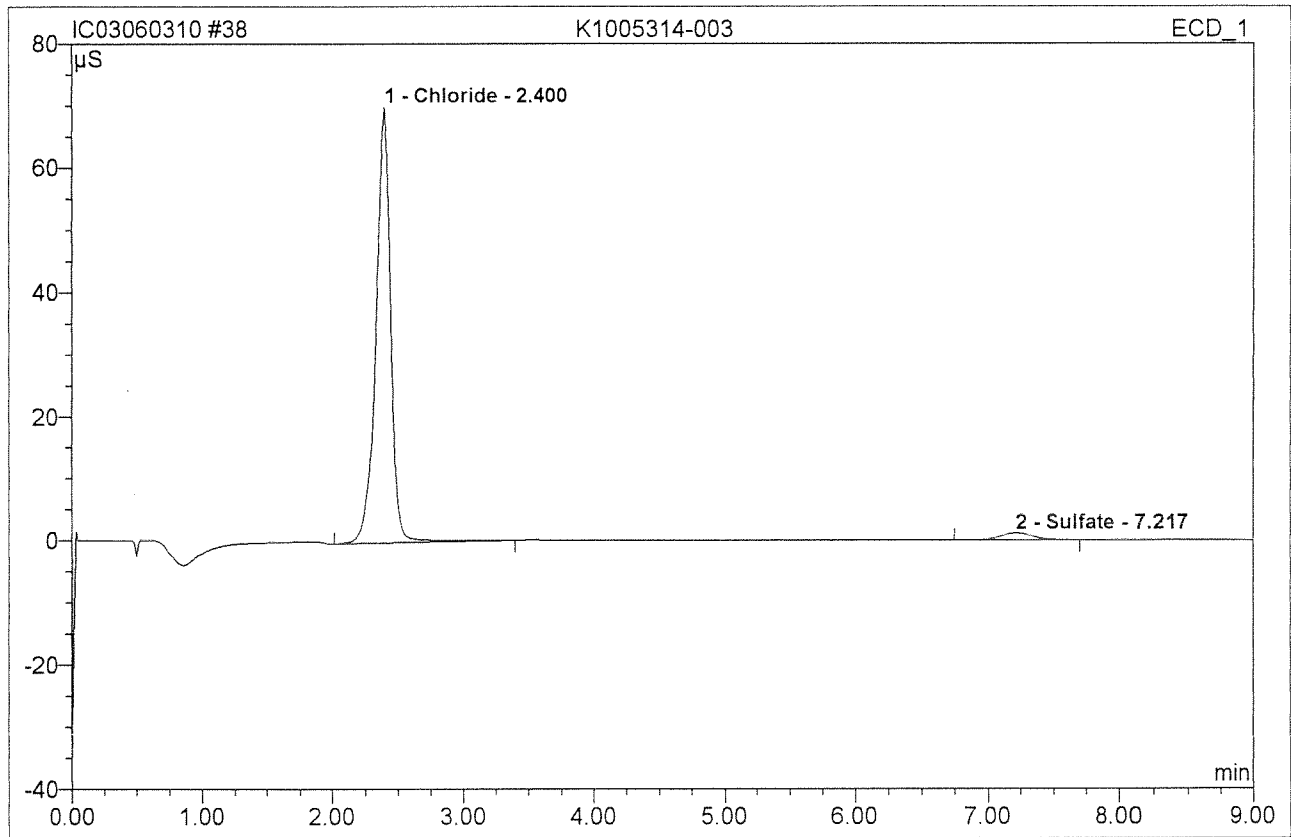
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.57	Fluoride	22.058	2.985	2.10	15.60104%	BMB*
2	2.47	Chloride	247.067	42.358	29.78	271.603	BM *
3	2.85	Nitrite	28.848	4.481	3.15	15.520163%	Mb*
4	3.55	Bromide	4.981	0.808	0.57	15.076101%	bM *
5	4.12	Nitrate	58.872	11.460	8.06	31.107117%	MB*
6	6.88	Sulfate	219.668	80.158	56.35	814.549	BMB
Total:			581.493	142.249	100.00	1163.457	

TV=15.0

43

6/4/10

38 K1005314-003			
Sample Name:	K1005314-003	Injection Volume:	200.0
Vial Number:	35	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	50.0000
Recording Time:	6/3/2010 14:44	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

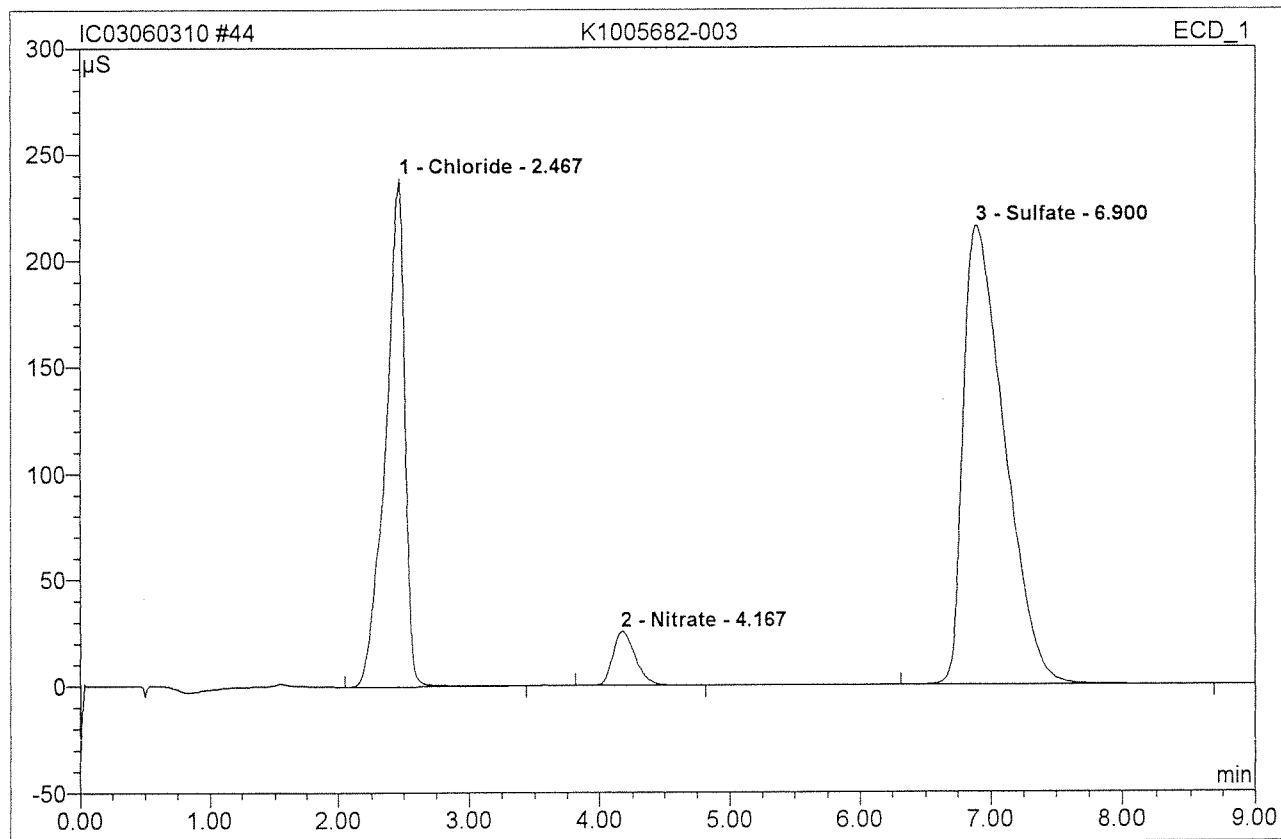


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.40	Chloride	70.133	9.075	96.42	290.965	BMB
2	7.22	Sulfate	1.131	0.337	3.58	17.113	BMB
Total:			71.264	9.412	100.00	308.078	

Before

JUN 03 2010

44 K1005682-003			
5682-3D			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 15:53	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

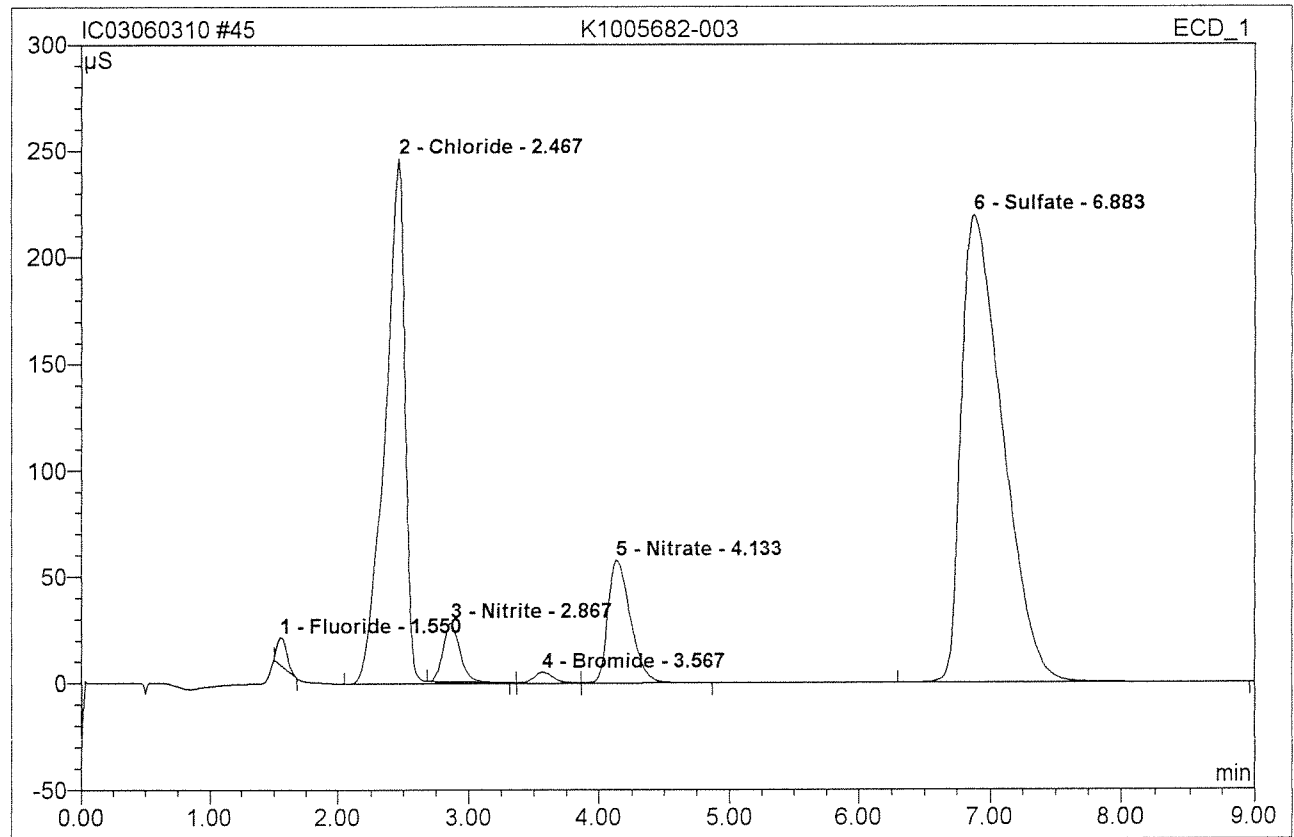


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.47	Chloride	238.744	40.648	32.63	260.643	BMB
2	4.17	Nitrate	25.418	5.065	4.07	13.749	BMB
3	6.90	Sulfate	215.652	78.853	63.30	801.289	BMB
Total:			479.814	124.566	100.00	1075.681	

Serial

JUN 03 2010

45 K1005682-003			
5682-3MS			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	42	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 16:04	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

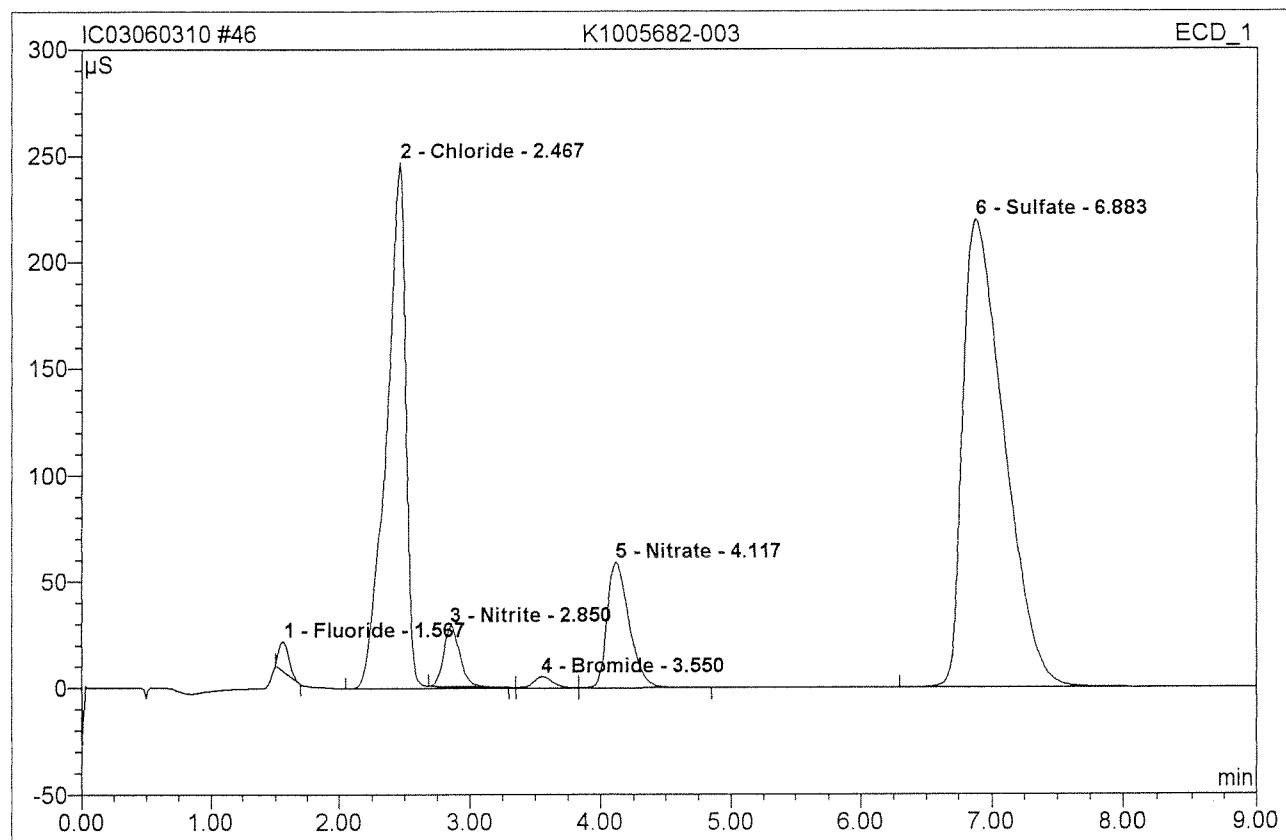


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.55	Fluoride	12.627	1.177	0.83	6.152	BMB
2	2.47	Chloride	246.632	43.585	30.79	279.471	BM
3	2.87	Nitrite	27.691	4.131	2.92	14.306	Rd
4	3.57	Bromide	5.244	0.972	0.69	18.132	M
5	4.13	Nitrate	57.672	11.625	8.21	31.556	MB
6	6.88	Sulfate	219.603	80.086	56.57	813.818	BMB
Total:			569.470	141.575	100.00	1163.436	

Before

JUN 03 2010

46 K1005682-003			
5682-3MSD			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/3/2010 16:16	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



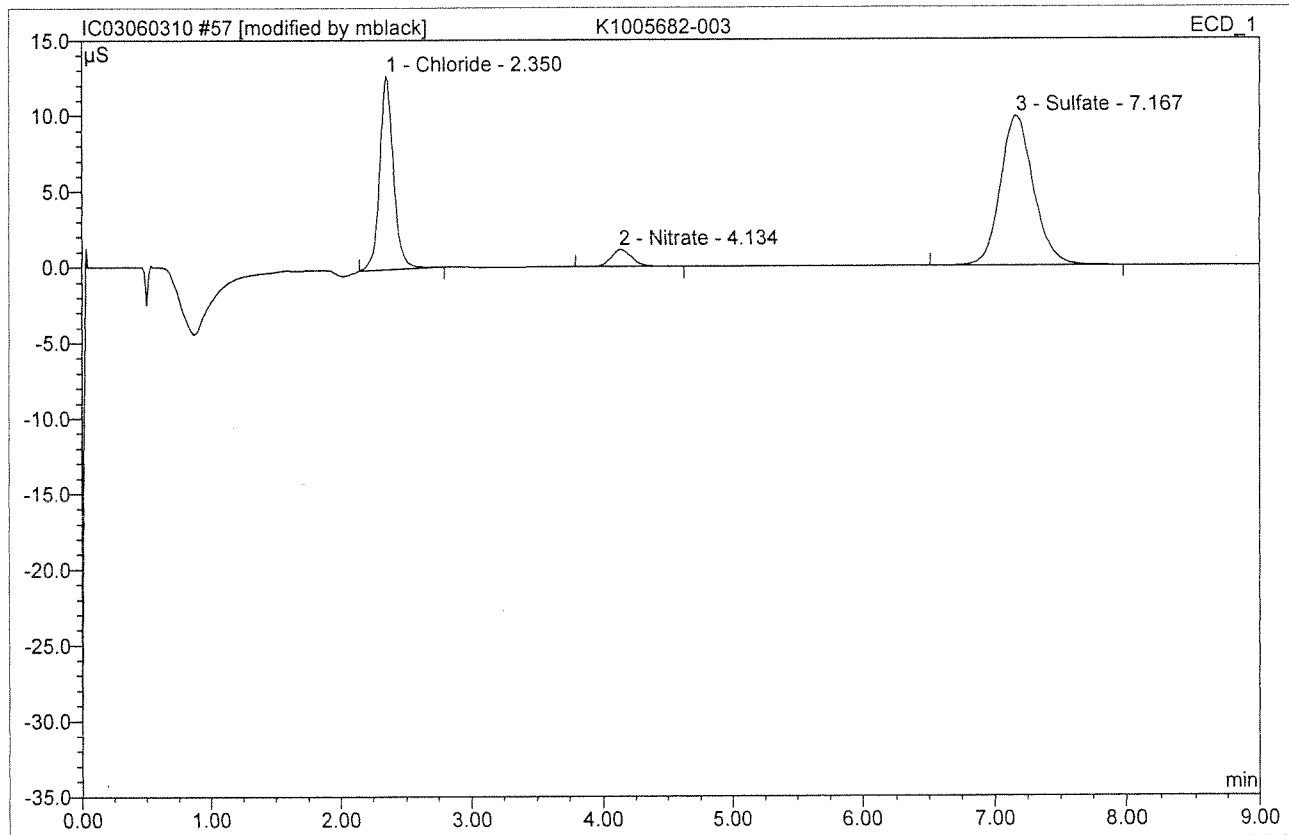
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.57	Fluoride	14.154	1.279	0.91	6.682	BMB
2	2.47	Chloride	247.192	42.969	30.46	275.522	BM
3	2.85	Nitrite	28.033	4.123	2.92	14.281	Rd
4	3.55	Bromide	5.318	0.966	0.68	18.026	M
5	4.12	Nitrate	59.062	11.594	8.22	31.471	MB
6	6.88	Sulfate	219.668	80.158	56.81	814.549	BMB
Total:			573.427	141.088	100.00	1160.532	

Before

JUN 03 2010

57 K1005682-003

Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	54	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	6/3/2010 18:22	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.35	Chloride $\bar{x} = 200$ $RPD = 11\%$	12.776	1.556	33.50	199.501	BMB*
2	4.13	Nitrate	1.119	0.211	4.55	11.481	BMB*
3	7.17	Sulfate $\bar{x} = 586$ $RPD = 11\%$	9.871	2.876	61.94	584.556	BMB
Total:			23.765	4.643	100.00	795.537	

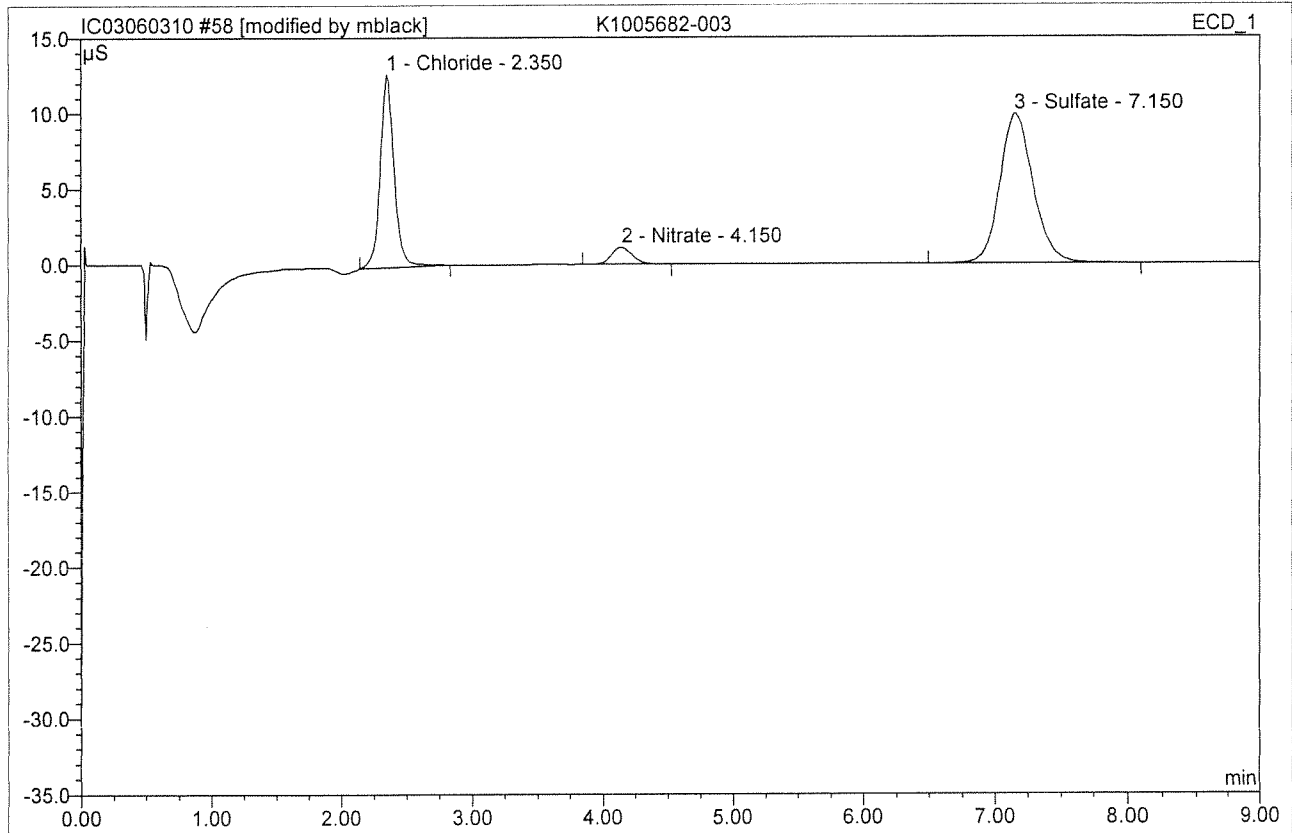
AP or
Initials

MB

6/4/10

JUN 04 2010

58 K1005682-003			
5682-3D			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	55	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	6/3/2010 18:33	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



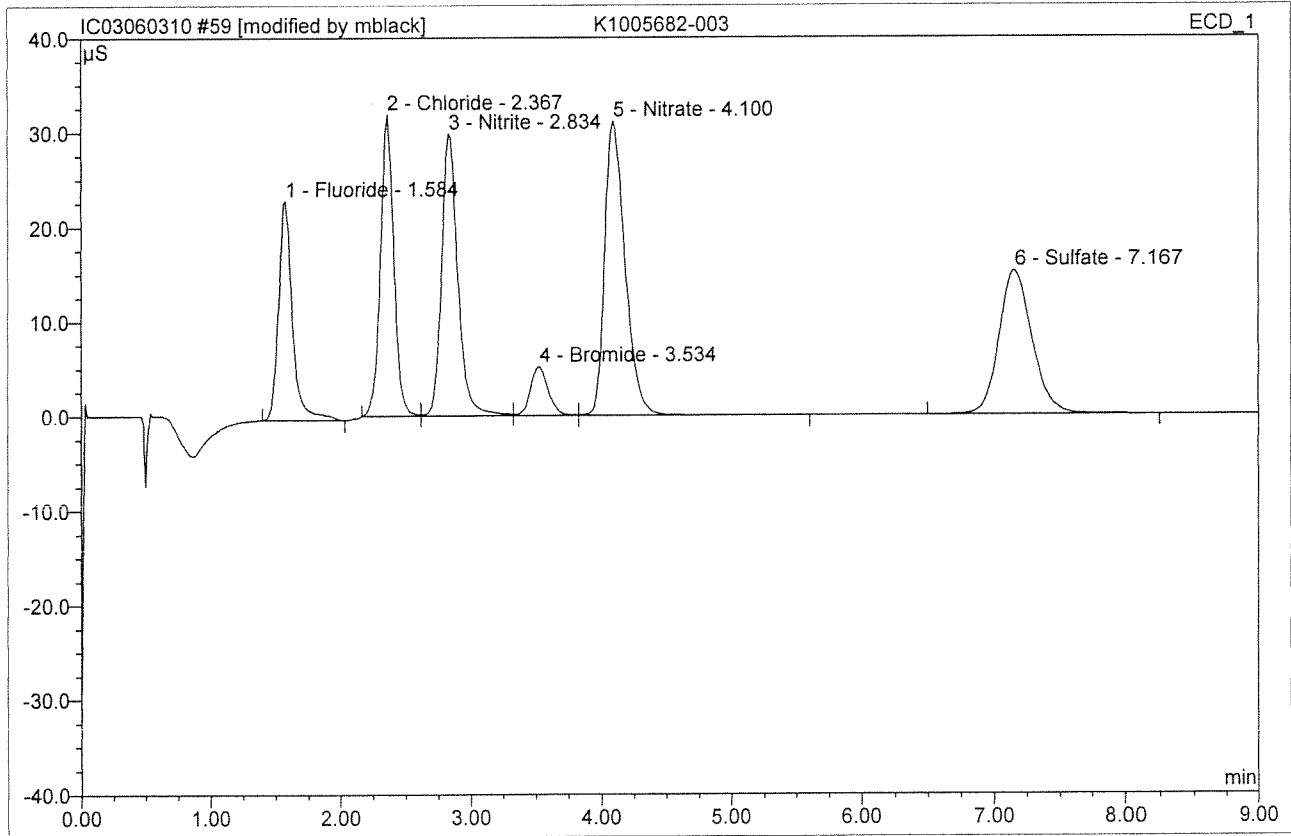
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.35	Chloride	12.746	1.553	33.47	199.175	BMB*
2	4.15	Nitrate	1.113	0.206	4.44	11.183	BMB*
3	7.15	Sulfate	9.886	2.882	62.10	585.707	BMB
Total:			23.745	4.641	100.00	796.065	

After initials

MB

MB 6/4/10

59 K1005682-003			
5682-3MS			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	56	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	6/3/2010 18:45	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	23.183	2.882	13.14	301.211	BMB*
2	2.37	Chloride	31.941	3.764	17.16	482.672 ^{94%}	BM *
3	2.83	Nitrite	29.873	4.373	19.93	302.897	M *
4	3.53	Bromide	5.222	0.837	3.82	312.411	M *
5	4.10	Nitrate	31.136	5.643	25.72	306.332	MB*
6	7.17	Sulfate	15.262	4.438	20.23	902.061 ^{106%}	BMB
Total:			136.617	21.936	100.00	2607.584	

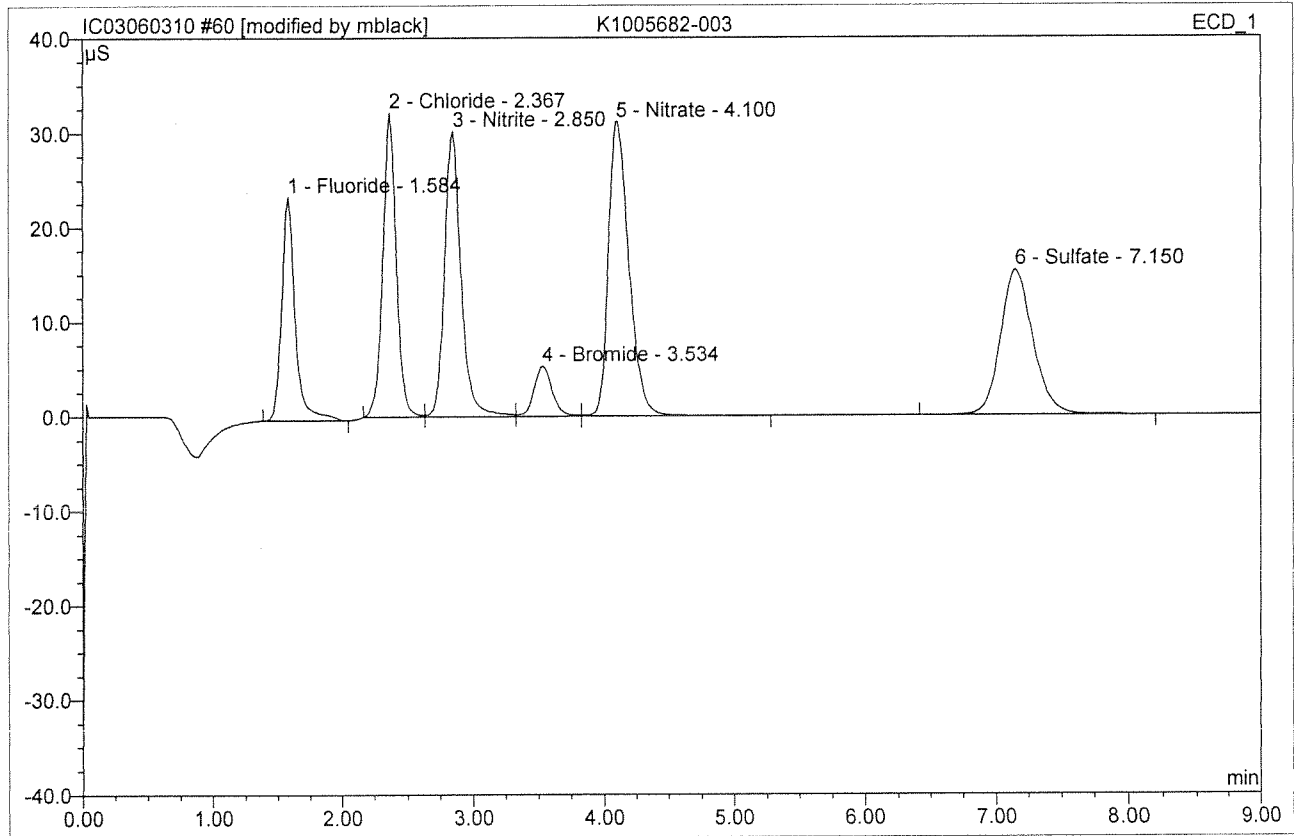
TV=300

After Initials MB

JUN 04 2010

6/4/10

60 K1005682-003			
5682-3MSD			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	57	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	6/3/2010 18:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	23.688	2.910	13.16	304.162	BMB*
2	2.37	Chloride	32.204	3.820	17.27	489.841977	BM *
3	2.85	Nitrite	30.189	4.429	20.03	306.808	M *
4	3.53	Bromide	5.302	0.853	3.86	318.449	M *
5	4.10	Nitrate	31.163	5.673	25.65	307.997	MB*
6	7.15	Sulfate	15.369	4.433	20.04	900.928107	BMB
Total:			137.915	22.118	100.00	2628.186	

TV=300

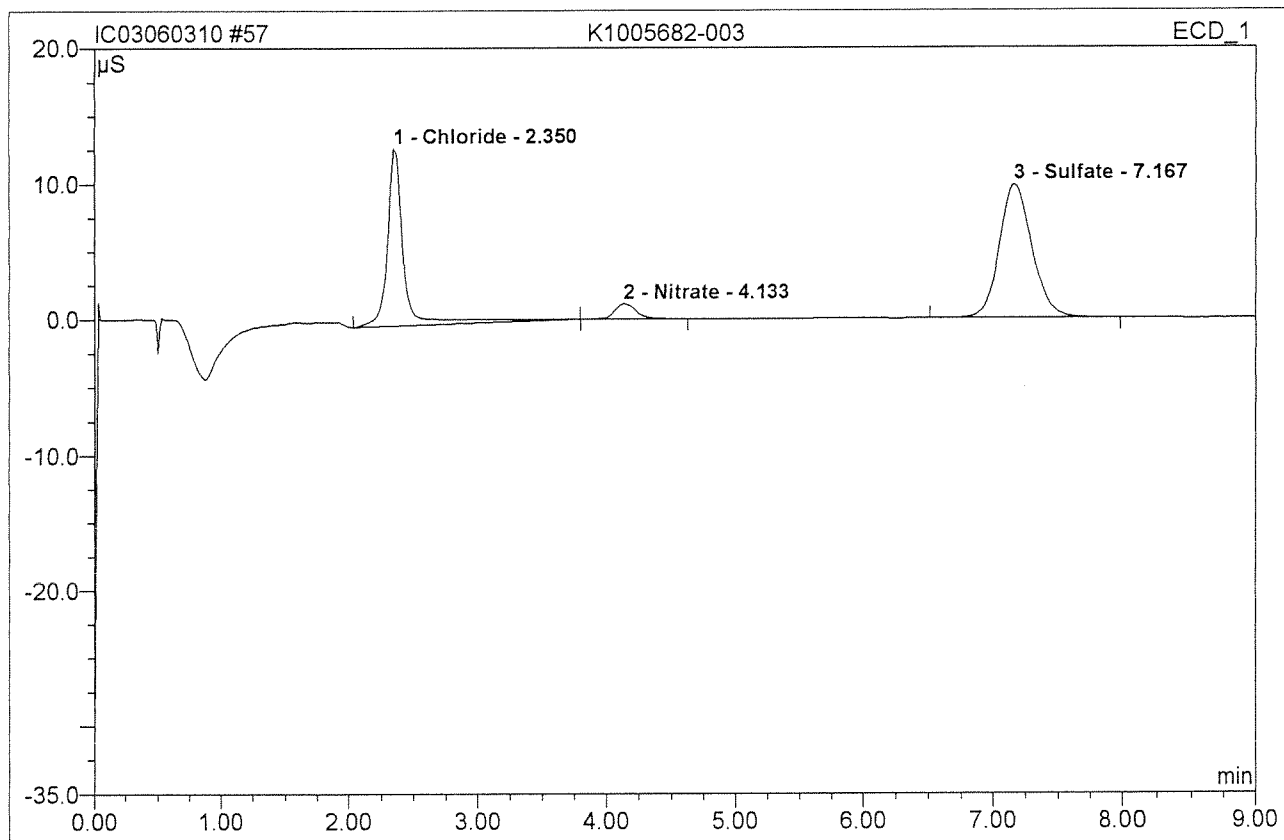
After
Sample *MB*

6/4/10

2010 6 4 2010

57 K1005682-003

Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	54	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	6/3/2010 18:22	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

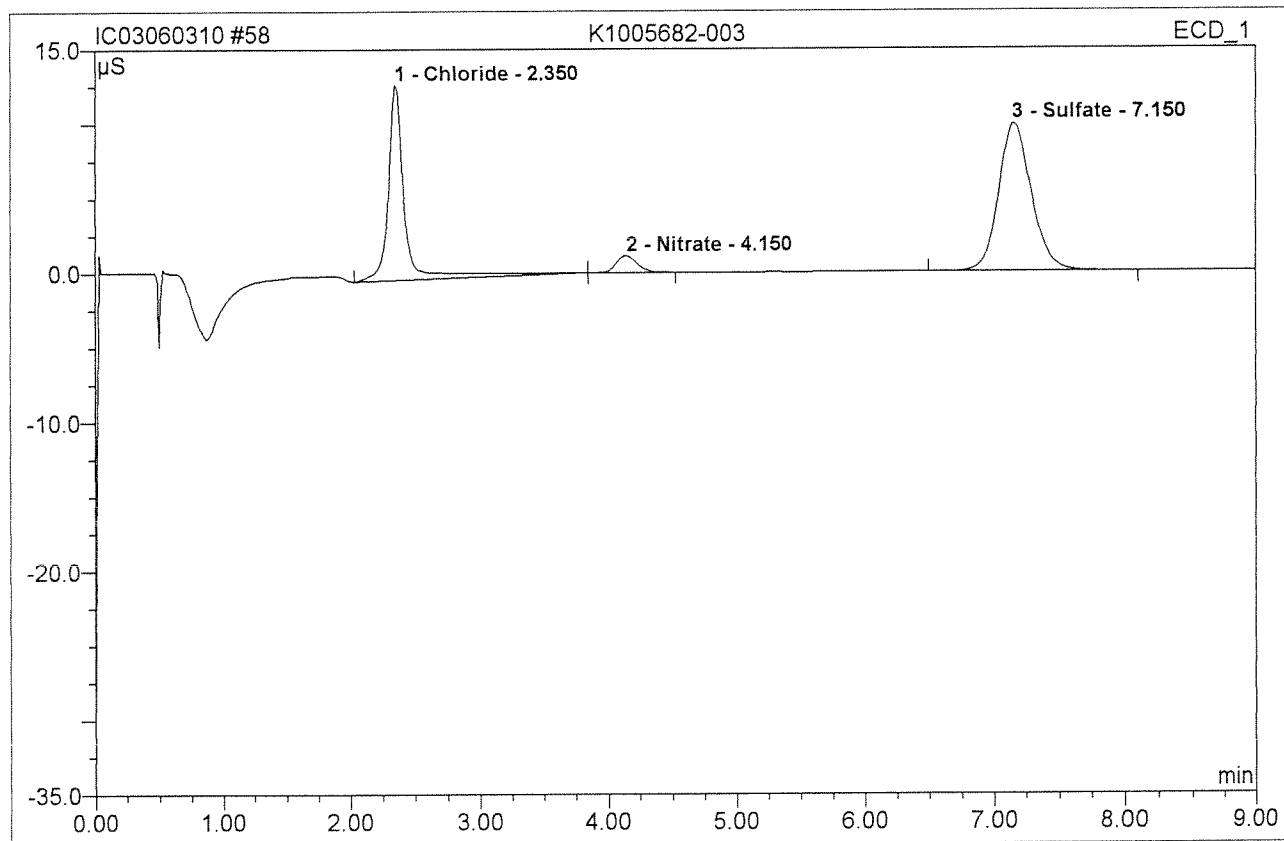


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.35	Chloride	13.098	1.946	38.66	249.535	BMB
2	4.13	Nitrate	1.119	0.211	4.20	11.481	bMB
3	7.17	Sulfate	9.871	2.876	57.14	584.556	BMB
Total:			24.087	5.034	100.00	845.572	

Before

JUN 04 2010

58 K1005682-003			
5682-3D			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	55	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	6/3/2010 18:33	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



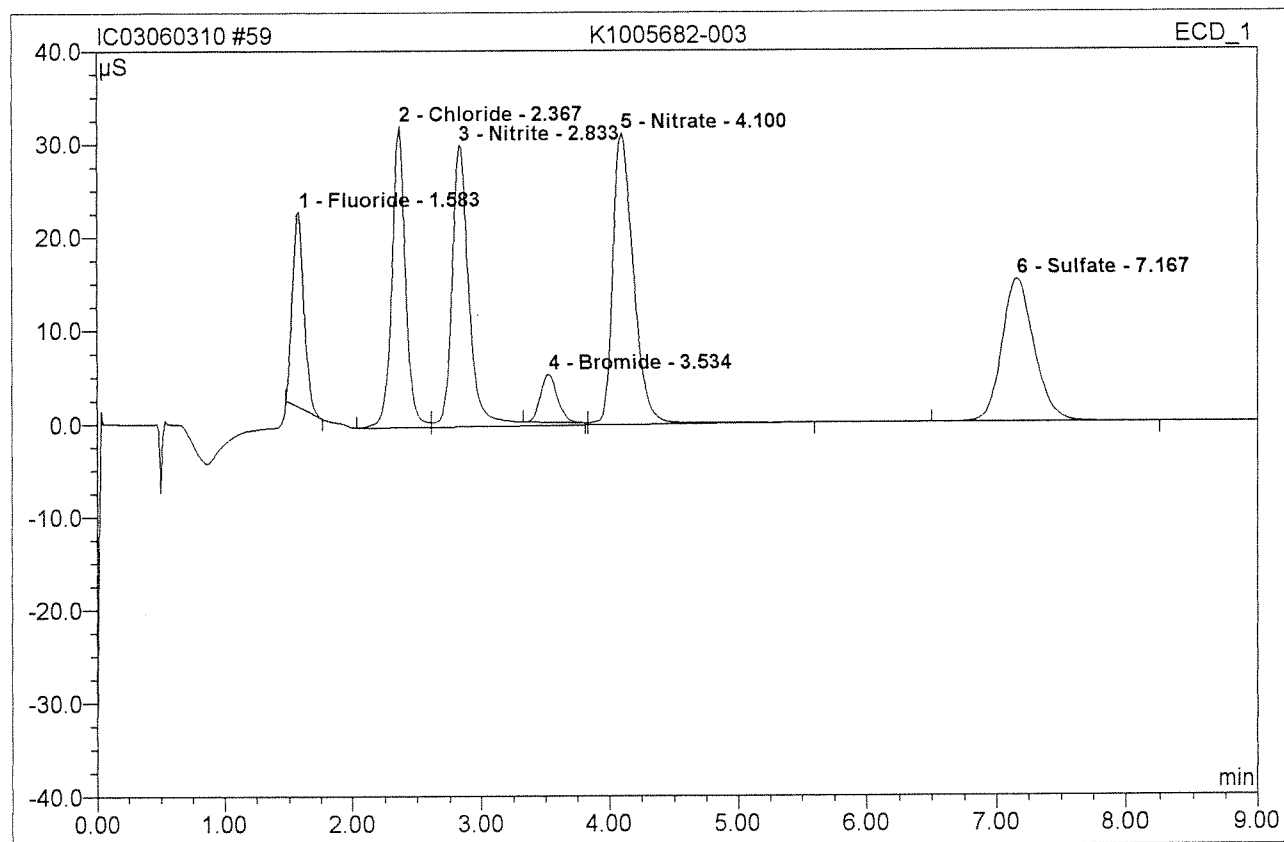
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.35	Chloride	13.065	1.949	38.69	249.946	BMB
2	4.15	Nitrate	1.113	0.206	4.09	11.183	bMB
3	7.15	Sulfate	9.886	2.882	57.22	585.707	BMB
Total:			24.065	5.037	100.00	846.836	

Before

JUN 04 2010

59 K1005682-003**5682-3MS**

Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	56	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	6/3/2010 18:45	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

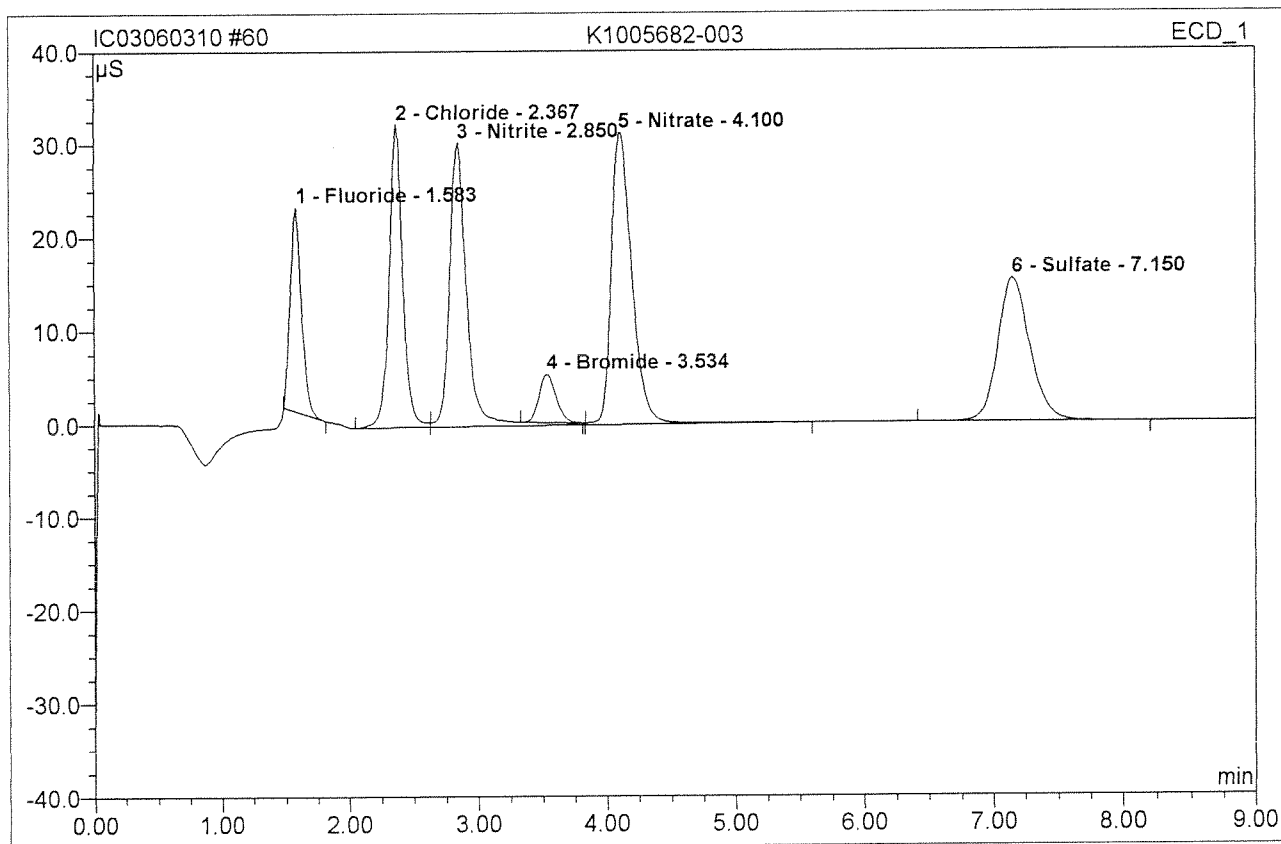


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	20.956	2.150	9.82	224.714	BMB
2	2.37	Chloride	32.305	3.944	18.02	505.816	BM
3	2.83	Nitrite	30.185	4.757	21.74	329.519	M
4	3.53	Bromide	5.093	0.778	3.55	290.258	Rd
5	4.10	Nitrate	31.304	5.818	26.58	315.860	MB
6	7.17	Sulfate	15.262	4.438	20.28	902.061	BMB
Total:			135.105	21.885	100.00	2568.228	

Before

JUN 04 2010

60 K1005682-003			
5682-3MSD			
Sample Name:	K1005682-003	Injection Volume:	200.0
Vial Number:	57	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	6/3/2010 18:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	21.860	2.266	10.26	236.890	BMB
2	2.37	Chloride	32.533	3.987	18.05	511.361	BM
3	2.85	Nitrite	30.469	4.787	21.67	331.583	M
4	3.53	Bromide	5.154	0.784	3.55	292.671	Rd
5	4.10	Nitrate	31.314	5.829	26.39	316.454	MB
6	7.15	Sulfate	15.369	4.433	20.07	900.928	BMB
Total:			136.699	22.087	100.00	2589.887	

Beiorc

JUN 04 2010

1. Holding times met for all samples analyzed? (yes/no/NA)
2. Are dilutions within upper limits of the curve? (yes/no/NA)
3. Are analysis/extraction stickers included on report? (yes/no/NA)
4. Are detection limits reported correctly? (yes/no/NA)
5. Are all quality control criteria met? (yes/no/NA)
 - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? (yes/no/NA)
 - b. Are CCV's and CCB's all within acceptance limits? (yes/no/NA)
 - c. Are results for Method Blanks all ND? (yes/no/NA)
 - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) (yes/no/NA)
 - e. Are all exceptions explained? (yes/no/NA)
6. Are all samples labelled correctly? (yes/no/NA)

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
 G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
 G4 Sample was received past the end of recommended holding time.
 R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
 i MRL is elevated because of matrix interferences and the sample required diluting.
 F Sample filtered primary to analysis.

LCS			
Fluoride	True Value = 13.5 ppm	CAS ID # = <u>AN1-33-D</u>	Expires: <u>7/19/10</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0107-10-02</u>	Expires: <u>8/10</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>AN1-28-E</u>	Expires: <u>6/3/10</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-L</u>	Expires: <u>10/28/10</u>
Nitrate	True Value = 21.0 ppm	CAS ID # = <u>AN1-33-E</u>	Expires: <u>7/21/10</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0107-10-02</u>	Expires: <u>8/10</u>

CCV	CAS ID # = <u>AN11-20-R</u>	Expires <u>6/3/10</u>	
Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>10/28/10</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-F</u>	Expires: <u>8/5/10</u>
Nitrite	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-N</u>	Expires: <u>10/28/10</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-20-DD</u>	Expires: <u>6/21/10</u>
Nitrate	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-I</u>	Expires: <u>7/9/10</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-G</u>	Expires: <u>8/5/10</u>

Spike			
1.5ppm X dilution factor	CAS ID# = <u>AN11-10-W</u>	Expires <u>6/3/10</u>	
Fluoride	10K CAS ID # = <u>AN1-33-M</u>	Expires: _____	} see 10K CCV IDs
Chloride	10K CAS ID # = <u>AN1-33-F</u>	Expires: _____	
Nitrite	10K CAS ID # = <u>AN1-33-N</u>	Expires: _____	
Bromide	10K CAS ID # = <u>AN1-20-DD</u>	Expires: _____	
Nitrate	10K CAS ID # = <u>AN1-33-I</u>	Expires: _____	
Sulfate	10K CAS ID # = <u>AN1-33-G</u>	Expires: _____	

Analyst: AB Date: 6/3/10
 First Review: AB Date: 6/3/10
 Final Review: MA Date: 6/4/10

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K4934-5					F				
					CL		0.5/5		✓
					NO2				
					Br				
					NO3				
					SO4		0.5/5		✓
-6					F				
					CL		0.1/5		✓
					NO2				
					Br				
					NO3				
					SO4		0.5/5		✓
-7					F				
					CL		0.5/5		✓
					NO2				
					Br				
					NO3				
					SO4		0.5/5		✓
K5214-1					F				
Gal Parts					CL		0.5/5		✓
					NO2				
					Br				
					NO3				
					SO4		0.5/5		✓
K5533-3					F				
					CL		1/5		✓
					NO2				
					Br				
					NO3				
					SO4		1/5		✓
-2					F				
					CL		0.25/5		✓
					NO2				
					Br				
					NO3				
					SO4		0.25/5		✓
K5676-1	II			6/14	F				
(near Alaska)					CL				
					NO2				
					Br				
					NO3				
					SO4	0.25/5			✓
-2					F	2.5/5			✓
					CL	2.5/5			✓
					NO2				
					Br				
					NO3	2.5/5			✓
					SO4	0.25/5			✓
K5682-1	II		6/4	6/11	F	0.5/5			✓
Flint Hills					CL	0.5/100			✓
					NO2	0.5/5			✓
					Br				✓
					NO3				✓
					SO4	0.5/100			✓
-3		X			F			10X	✓
					CL				✓
					NO2				✓
					Br			200X	✓
					NO3				✓
					SO4				✓

CL=20 SO4=18

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K5682-4	II		6/4	6/11	(F)	0.5/5			✓
					(CL)	0.5/100			✓
					NO2	0.5/5			✓
					Br				✓
					NO3				✓
					SO4	0.5/100			✓
-8					(F)				✓
					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4				✓
-9					(F)				✓
					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4				✓
-10					(F)	5/5			✓
					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4				✓
K5007-1	III			6/10	(F)	2.5/5			✓
Exponent					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4				✓
-2					(F)	2.5/5			✓
					(CL)		0.25		✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4		0.25		✓
-3					(F)	2.5/5			✓
					(CL)		0.5/5		✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4		0.5/5		✓
-4					(F)	2.5/5	5/5		✓
					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4				✓
K5314-2	II			6/11	(F)				✓
Boyer Waste					(CL)	0.1/5			✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4				✓
-3					(F)				✓
					(CL)	0.1/5			✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4				✓

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K5314-4	II			6/18	F CL NO2 Br NO3 SO4	0.1/5			✓
-5					F CL NO2 Br NO3 SO4	0.5/5	0.1/5		✓
K5713-1	I		6/3	6/4	F CL NO2 Br NO3 SO4	0.5/5			✓
Solvay									
K5346-1	I	X			F CL NO2 Br NO3 SO4	2.5/5		2X ✓	✓
City of Port									
					F CL NO2 Br NO3 SO4				
					F CL NO2 Br NO3 SO4				
					F CL NO2 Br NO3 SO4				
					F CL NO2 Br NO3 SO4				
					F CL NO2 Br NO3 SO4				
					F CL NO2 Br NO3 SO4				

Sequence: IC03060310
Operator: mblack

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Printed: 6/4/2010 11:32:57 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 84

Created: 6/3/2010 8:14:28 AM by ACQWET10
Last Update: 6/3/2010 6:12:25 PM by ACQWET10











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/lv2	Standard	1	200.0	epa300	epa300	Finished	4/26/2010 8:54:58 AM
2	std3/lv3	Standard	2	200.0	epa300	epa300	Finished	4/26/2010 9:12:26 AM
3	std4/lv4	Standard	3	200.0	epa300	epa300	Finished	4/26/2010 9:25:24 AM
4	std5/lv5	Standard	4	200.0	epa300	epa300	Finished	4/26/2010 9:38:21 AM
5	std6/lv6	Standard	5	200.0	epa300	epa300	Finished	4/26/2010 9:51:19 AM
6	std7/lv7	Standard	6	200.0	epa300	epa300	Finished	4/26/2010 10:04:17 AM
7	std1/lv1	Standard	7	200.0	epa300	epa300	Finished	4/26/2010 10:17:14 AM
8	CCV AN11-20-R	Unknown	8	200.0	epa300	epa300	Finished	6/3/2010 8:42:02 AM
9	CCB	Unknown	9	200.0	epa300	epa300	Finished	6/3/2010 8:53:31 AM
10	NO2 AN11-28-E	Unknown	10	200.0	epa300	epa300	Finished	6/3/2010 9:04:59 AM
11	MB	Unknown	11	200.0	epa300	epa300	Finished	6/3/2010 9:16:27 AM
12	NO3 AN1-33-E	Unknown	11	200.0	epa300	epa300	Finished	6/3/2010 9:27:55 AM
13	CLSO4 ERA# 0107-10-02	Unknown	12	200.0	epa300	epa300	Finished	6/3/2010 9:39:23 AM
14	K1005214-001	Unknown	13	200.0	epa300	epa300	Finished	6/3/2010 10:04:35 AM
15	F AN1-33-D	Unknown	13	200.0	epa300	epa300	Finished	6/3/2010 10:16:02 AM
16	Br AN1-33-L	Unknown	14	200.0	epa300	epa300	Finished	6/3/2010 10:27:30 AM
17	SPK AN11-10-W	Unknown	16	200.0	epa300	epa300	Finished	6/3/2010 10:38:58 AM
18	CCV2	Unknown	15	200.0	epa300	epa300	Finished	6/3/2010 10:50:26 AM
19	CCB2	Unknown	16	200.0	epa300	epa300	Finished	6/3/2010 11:01:53 AM
20	K1005676-002	Unknown	17	200.0	epa300	epa300	Finished	6/3/2010 11:13:21 AM
21	K1005676-002	Unknown	18	200.0	epa300	epa300	Finished	6/3/2010 11:24:49 AM
22	K1005676-001	Unknown	19	200.0	epa300	epa300	Finished	6/3/2010 11:36:17 AM
23	K1005682-010	Unknown	20	200.0	epa300	epa300	Finished	6/3/2010 11:47:44 AM
24	K1005682-001	Unknown	21	200.0	epa300	epa300	Finished	6/3/2010 11:59:13 AM
25	K1005682-003	Unknown	22	200.0	epa300	epa300	Finished	6/3/2010 12:10:40 PM
26	K1005682-004	Unknown	23	200.0	epa300	epa300	Finished	6/3/2010 12:22:09 PM
27	K1005682-008	Unknown	24	200.0	epa300	epa300	Finished	6/3/2010 12:33:36 PM
28	K1005682-009	Unknown	25	200.0	epa300	epa300	Finished	6/3/2010 12:45:04 PM
29	RB	Unknown	26	200.0	epa300	epa300	Finished	6/3/2010 12:56:31 PM
30	CCV3	Unknown	27	200.0	epa300	epa300	Finished	6/3/2010 1:07:59 PM
31	CCB3	Unknown	28	200.0	epa300	epa300	Finished	6/3/2010 1:19:26 PM
32	K1005067-001	Unknown	29	200.0	epa300	epa300	Finished	6/3/2010 1:35:55 PM
33	K1005067-002	Unknown	30	200.0	epa300	epa300	Finished	6/3/2010 1:47:22 PM
34	K1005067-003	Unknown	31	200.0	epa300	epa300	Finished	6/3/2010 1:58:50 PM
35	K1005067-004	Unknown	32	200.0	epa300	epa300	Finished	6/3/2010 2:10:18 PM
36	K1005346-001	Unknown	33	200.0	epa300	epa300	Finished	6/3/2010 2:21:45 PM
37	K1005314-002	Unknown	34	200.0	epa300	epa300	Finished	6/3/2010 2:33:13 PM
38	K1005314-003	Unknown	35	200.0	epa300	epa300	Finished	6/3/2010 2:44:41 PM
39	K1005314-004	Unknown	36	200.0	epa300	epa300	Finished	6/3/2010 2:56:08 PM
40	K1005314-005	Unknown	37	200.0	epa300	epa300	Finished	6/3/2010 3:07:36 PM
41	RB	Unknown	38	200.0	epa300	epa300	Finished	6/3/2010 3:19:04 PM
42	CCV4	Unknown	39	200.0	epa300	epa300	Finished	6/3/2010 3:30:31 PM

Sequence: IC03060310
Operator: mblack

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Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 84

Created: 6/3/2010 8:14:28 AM by ACQWET10
Last Update: 6/3/2010 6:12:25 PM by ACQWET10

No.	Name	Dil. Factor	Comment
1	 std2/vl2	1.0000	
2	 std3/vl3	1.0000	
3	 std4/vl4	1.0000	
4	 std5/vl5	1.0000	
5	 std6/vl6	1.0000	
6	 std7/vl7	1.0000	
7	 std1/vl1	1.0000	
8	 CCV AN11-20-R	1.0000	CCV1
9	 CCB	1.0000	CCB1
10	 NO2 AN11-28-E	25.0000	NO2
11	 MB	1.0000	MB
12	 NO3 AN1-33-E	20.0000	NO3
13	 CLSO4 ERA# 0107-10-02	1.0000	CLSO4
14	 K1005214-001	10.0000	
15	 F AN1-33-D	2.0000	F
16	 Br AN1-33-L	1.0000	Br
17	 SPK AN11-10-W	1.0000	SPK
18	 CCV2	1.0000	CCV2
19	 CCB2	1.0000	CCB2
20	 K1005676-002	2.0000	
21	 K1005676-002	20.0000	
22	 K1005676-001	20.0000	
23	 K1005682-010	1.0000	
24	 K1005682-001	10.0000	
25	 K1005682-003	10.0000	
26	 K1005682-004	10.0000	
27	 K1005682-008	10.0000	
28	 K1005682-009	10.0000	
29	 RB	1.0000	
30	 CCV3	1.0000	CCV3
31	 CCB3	1.0000	CCB3
32	 K1005067-001	2.0000	
33	 K1005067-002	2.0000	
34	 K1005067-003	2.0000	
35	 K1005067-004	2.0000	
36	 K1005346-001	2.0000	
37	 K1005314-002	50.0000	
38	 K1005314-003	50.0000	
39	 K1005314-004	50.0000	
40	 K1005314-005	10.0000	
41	 RB	1.0000	
42	 CCV4	1.0000	CCV4

Sequence: IC03060310
Operator: mblack

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Printed: 6/4/2010 11:32:57 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 84

Created: 6/3/2010 8:14:28 AM by ACQWET10
Last Update: 6/3/2010 6:12:25 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	CCB4	Unknown	40	200.0	epa300	epa300	Finished	6/3/2010 3:41:59 PM
44	K1005682-003	Unknown	41	200.0	epa300	epa300	Finished	6/3/2010 3:53:26 PM
45	K1005682-003	Unknown	42	200.0	epa300	epa300	Finished	6/3/2010 4:04:54 PM
46	K1005682-003	Unknown	43	200.0	epa300	epa300	Finished	6/3/2010 4:16:22 PM
47	K1005713-001	Unknown	44	200.0	epa300	epa300	Finished	6/3/2010 4:27:50 PM
48	K1004934-005	Unknown	45	200.0	epa300	epa300	Finished	6/3/2010 4:39:18 PM
49	K1004934-006	Unknown	46	200.0	epa300	epa300	Finished	6/3/2010 4:50:45 PM
50	K1004934-006	Unknown	47	200.0	epa300	epa300	Finished	6/3/2010 5:02:13 PM
51	K1004934-007	Unknown	48	200.0	epa300	epa300	Finished	6/3/2010 5:13:41 PM
52	K1005067-004	Unknown	49	200.0	epa300	epa300	Finished	6/3/2010 5:25:09 PM
53	RB	Unknown	50	200.0	epa300	epa300	Finished	6/3/2010 5:36:37 PM
54	CCV5	Unknown	51	200.0	epa300	epa300	Finished	6/3/2010 5:48:04 PM
55	CCB5	Unknown	52	200.0	epa300	epa300	Finished	6/3/2010 5:59:32 PM
56	K1005682-001	Unknown	53	200.0	epa300	epa300	Finished	6/3/2010 6:11:00 PM
57	K1005682-003	Unknown	54	200.0	epa300	epa300	Finished	6/3/2010 6:22:27 PM
58	K1005682-003	Unknown	55	200.0	epa300	epa300	Finished	6/3/2010 6:33:55 PM
59	K1005682-003	Unknown	56	200.0	epa300	epa300	Finished	6/3/2010 6:45:22 PM
60	K1005682-003	Unknown	57	200.0	epa300	epa300	Finished	6/3/2010 6:56:50 PM
61	K1005682-004	Unknown	58	200.0	epa300	epa300	Finished	6/3/2010 7:08:17 PM
62	K1005682-008	Unknown	59	200.0	epa300	epa300	Finished	6/3/2010 7:19:45 PM
63	K1005682-009	Unknown	60	200.0	epa300	epa300	Finished	6/3/2010 7:31:13 PM
64	K1005533-003	Unknown	61	200.0	epa300	epa300	Finished	6/3/2010 7:42:40 PM
65	RB	Unknown	62	200.0	epa300	epa300	Finished	6/3/2010 7:54:09 PM
66	CCV6	Unknown	63	200.0	epa300	epa300	Finished	6/3/2010 8:05:37 PM
67	CCB6	Unknown	64	200.0	epa300	epa300	Finished	6/3/2010 8:17:04 PM
68	MB 2	Unknown	65	200.0	epa300	epa300	Finished	6/3/2010 8:28:33 PM
69	CLSO4 2	Unknown	66	200.0	epa300	epa300	Finished	6/3/2010 8:40:00 PM
70	K1005533-002	Unknown	67	200.0	epa300	epa300	Finished	6/3/2010 8:51:29 PM
71	K1005314-005	Unknown	68	200.0	epa300	epa300	Finished	6/3/2010 9:02:56 PM
72	K1005067-002	Unknown	69	200.0	epa300	epa300	Finished	6/3/2010 9:14:24 PM
73	K1005067-003	Unknown	70	200.0	epa300	epa300	Finished	6/3/2010 9:25:51 PM
74	K1004967-001	Unknown	71	200.0	epa300	epa300	Finished	6/3/2010 9:37:19 PM
75	RB	Unknown	72	200.0	epa300	epa300	Finished	6/3/2010 9:48:46 PM
76	CCV7	Unknown	73	200.0	epa300	epa300	Finished	6/3/2010 10:00:15 PM
77	CCB7	Unknown	74	200.0	epa300	epa300	Finished	6/3/2010 10:11:43 PM
78	K1005346-001	Unknown	75	200.0	epa300	epa300	Finished	6/3/2010 10:23:11 PM
79	K1005346-001	Unknown	76	200.0	epa300	epa300	Finished	6/3/2010 10:34:38 PM
80	K1005346-001	Unknown	77	200.0	epa300	epa300	Finished	6/3/2010 10:46:06 PM
81	RB	Unknown	78	200.0	epa300	epa300	Finished	6/3/2010 10:57:33 PM
82	CCV8	Unknown	79	200.0	epa300	epa300	Finished	6/3/2010 11:09:01 PM
83	CCB8	Unknown	80	200.0	epa300	epa300	Finished	6/3/2010 11:20:29 PM
84	SHUTDOWN	Unknown	81	200.0	shutdown 120	epa300	Finished	6/3/2010 11:31:57 PM

Sequence: IC03060310
Operator: mblack

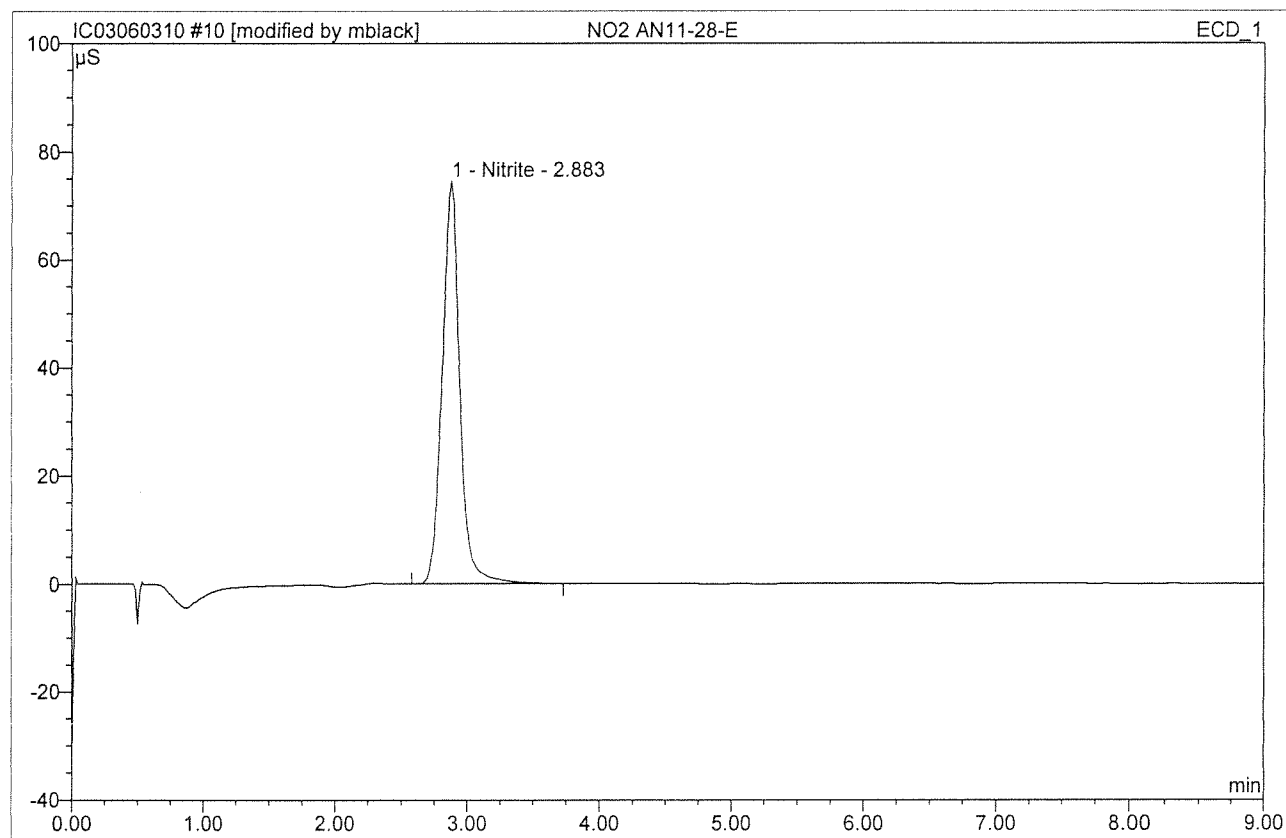
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Printed: 6/4/2010 11:32:57 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 84

Created: 6/3/2010 8:14:28 AM by ACQWET10
Last Update: 6/3/2010 6:12:25 PM by ACQWET10

No.	Name	Dil. Factor	Comment
43	CCB4	1.0000	CCB4
44	K1005682-003	10.0000	5682-3D
45	K1005682-003	10.0000	5682-3MS
46	K1005682-003	10.0000	5682-3MSD
47	K1005713-001	10.0000	
48	K1004934-005	10.0000	
49	K1004934-006	50.0000	
50	K1004934-006	10.0000	
51	K1004934-007	10.0000	
52	K1005067-004	1.0000	
53	RB	1.0000	
54	CCV5	1.0000	CCV5
55	CCB5	1.0000	CCB5
56	K1005682-001	200.0000	
57	K1005682-003	200.0000	
58	K1005682-003	200.0000	5682-3D
59	K1005682-003	200.0000	5682-3MS
60	K1005682-003	200.0000	5682-3MSD
61	K1005682-004	200.0000	
62	K1005682-008	200.0000	
63	K1005682-009	200.0000	
64	K1005533-003	5.0000	
65	RB	1.0000	
66	CCV6	1.0000	CCV6
67	CCB6	1.0000	CCB6
68	MB 2	1.0000	MB 2
69	CLSO4 2	1.0000	CLSO4 2
70	K1005533-002	20.0000	
71	K1005314-005	50.0000	
72	K1005067-002	20.0000	
73	K1005067-003	10.0000	
74	K1004967-001	1.0000	
75	RB	1.0000	
76	CCV7	1.0000	CCV7
77	CCB7	1.0000	CCB7
78	K1005346-001	2.0000	5346-1D
79	K1005346-001	2.0000	5346-1MS
80	K1005346-001	2.0000	5346-1MSD
81	RB	1.0000	
82	CCV8	1.0000	CCV8
83	CCB8	1.0000	CCB8
84	SHUTDOWN	1.0000	

10 NO2 AN11-28-E			
NO2			
Sample Name:	NO2 AN11-28-E	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	6/3/2010 9:04	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

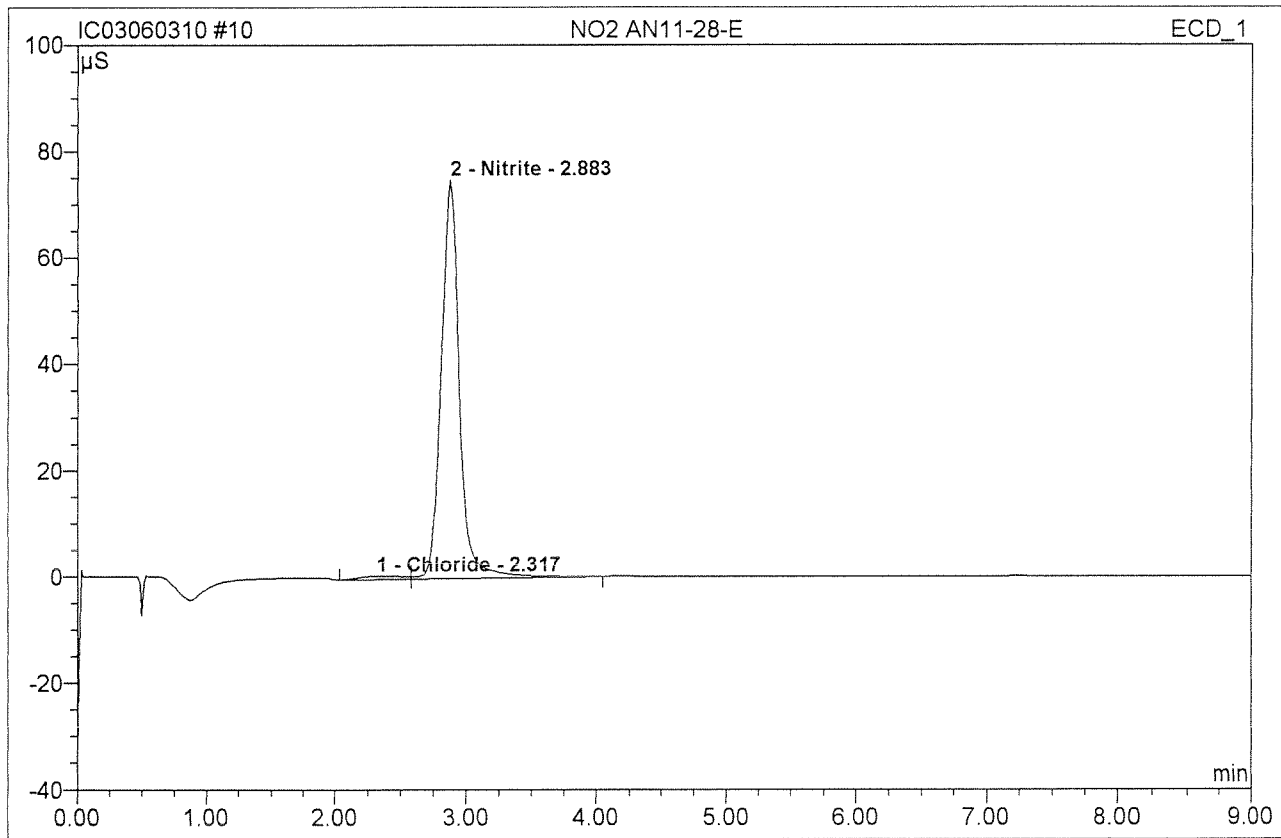


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.88	Nitrite	74.594	11.742	100.00	101.668	102% BMB*
Total:			74.594	11.742	100.00	101.668	

MB

6/4/10

10 NO2 AN11-28-E			
NO2			
Sample Name:	NO2 AN11-28-E	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	6/3/2010 9:04	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

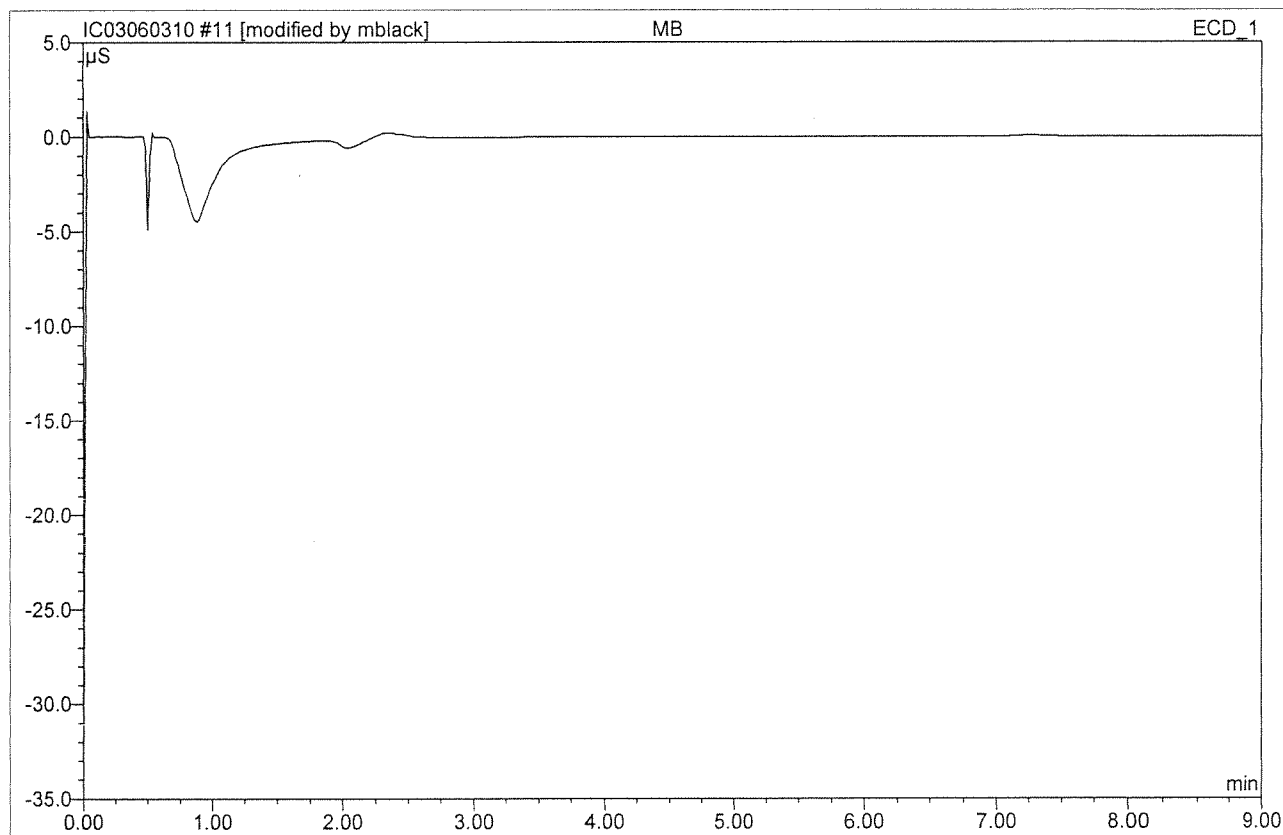


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.32	Chloride	0.658	0.242	1.96	3.879	BM
2	2.88	Nitrite	74.945	12.081	98.04	104.607	MB
Total:			75.604	12.323	100.00	108.486	

Before

JUN 03 2010

11 MB			
MB			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 9:16	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

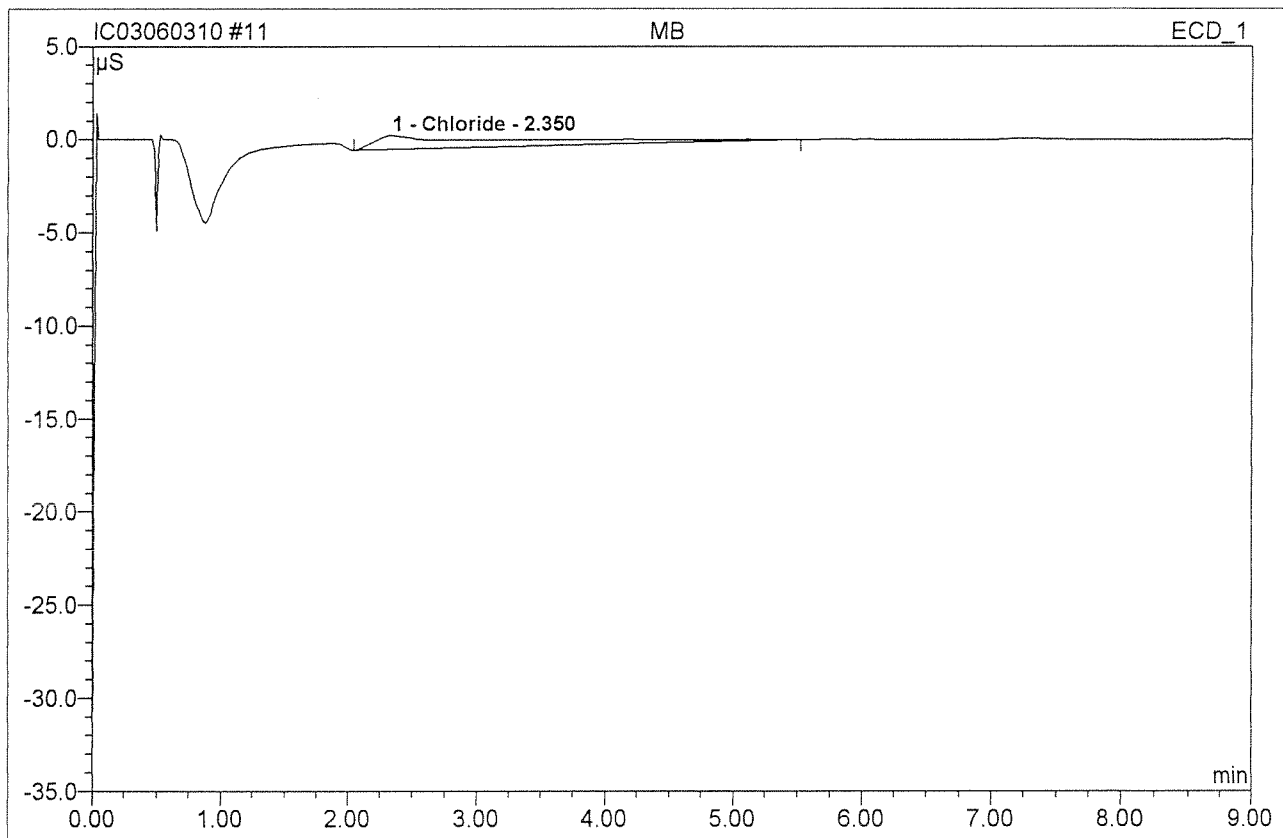


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

MB

6/6/10

11 MB			
MB			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 9:16	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.35	Chloride	0.752	0.970	100.00	0.622	BMB
Total:			0.752	0.970	100.00	0.622	

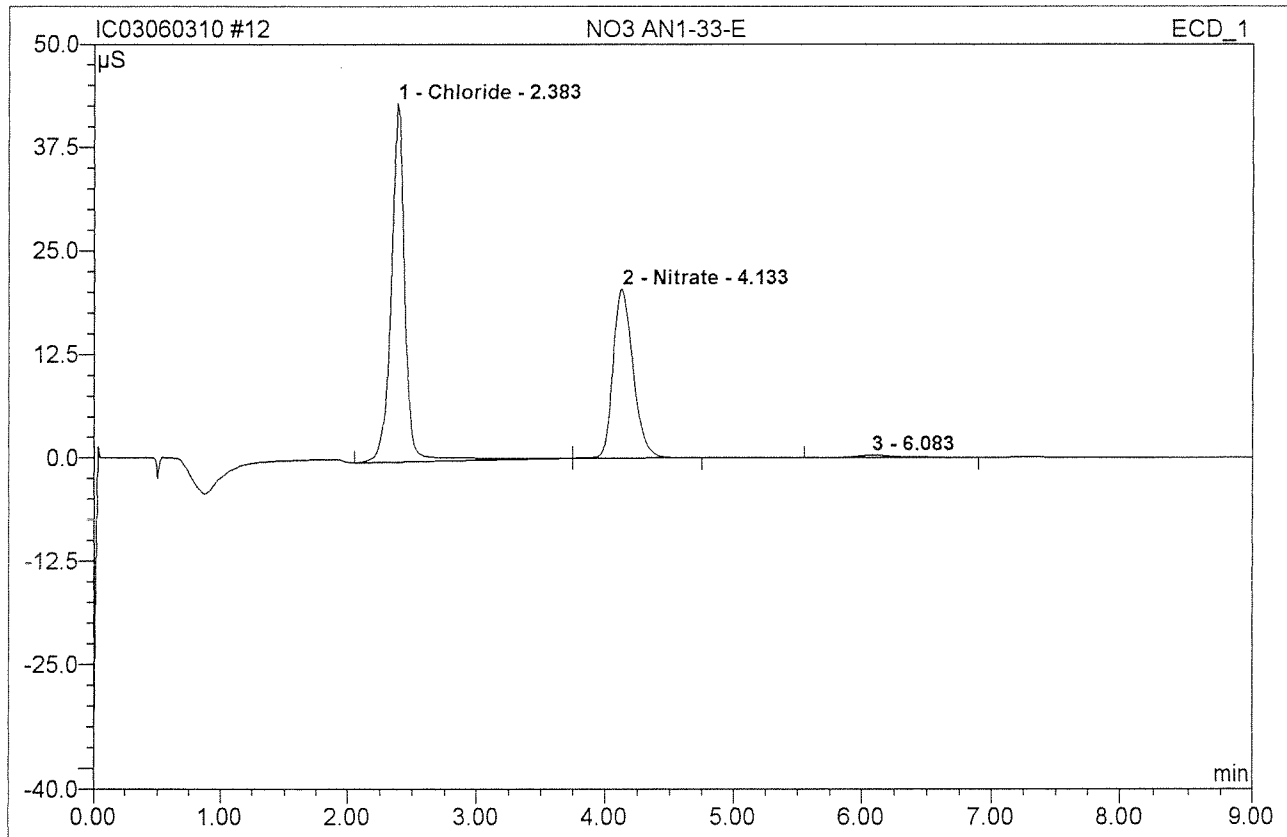
Before

JUN 03 2010

12 NO3 AN1-33-E

NO3

Sample Name:	NO3 AN1-33-E	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	6/3/2010 9:27	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

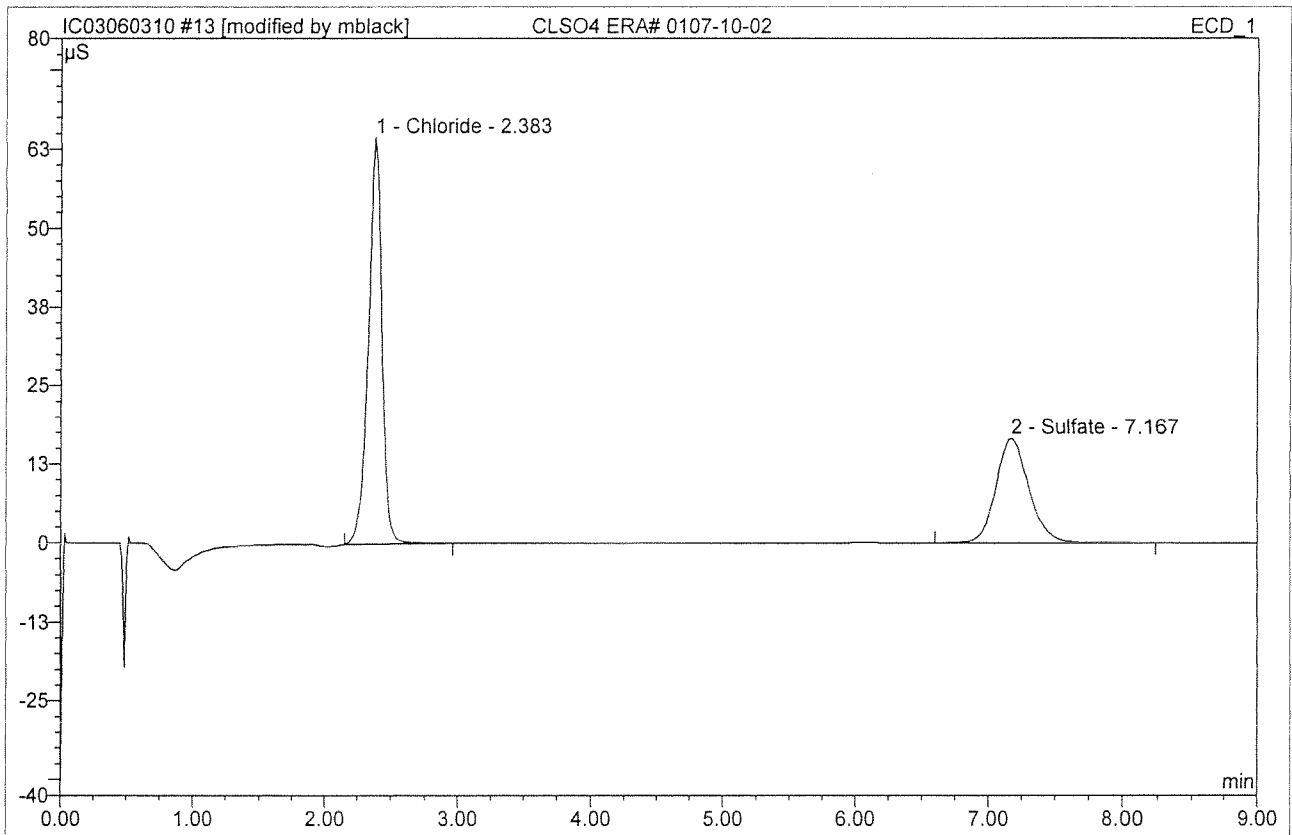


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.38	Chloride	43.296	5.399	58.98	69.244	BMB
2	4.13	Nitrate	20.347	3.626	39.61	19.688947	bMB
3	6.08	n.a.	0.342	0.129	1.41	n.a.	BMB
Total:			63.984	9.155	100.00	88.932	

13 CLSO4 ERA# 0107-10-02

CLSO4

Sample Name:	CLSO4 ERA# 0107-10-02	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 9:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.38	Chloride	64.439	7.533	61.26	4.830	97% BMB*
2	7.17	Sulfate	16.577	4.763	38.74	4.840	97% BMB
Total:			81.016	12.296	100.00	9.671	

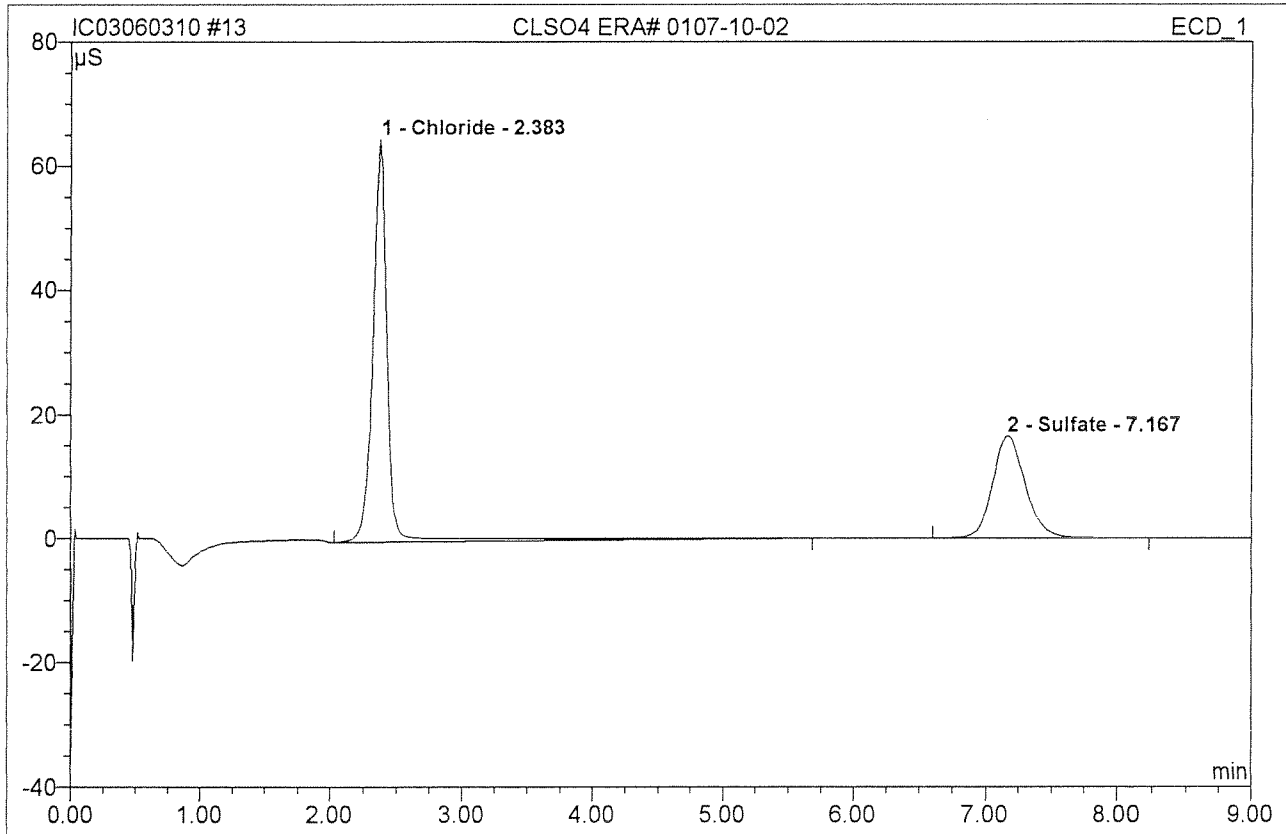
MB
6/3/2010

7/6/10

13 CLSO4 ERA# 0107-10-02

CLSO4

Sample Name:	CLSO4 ERA# 0107-10-02	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 9:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

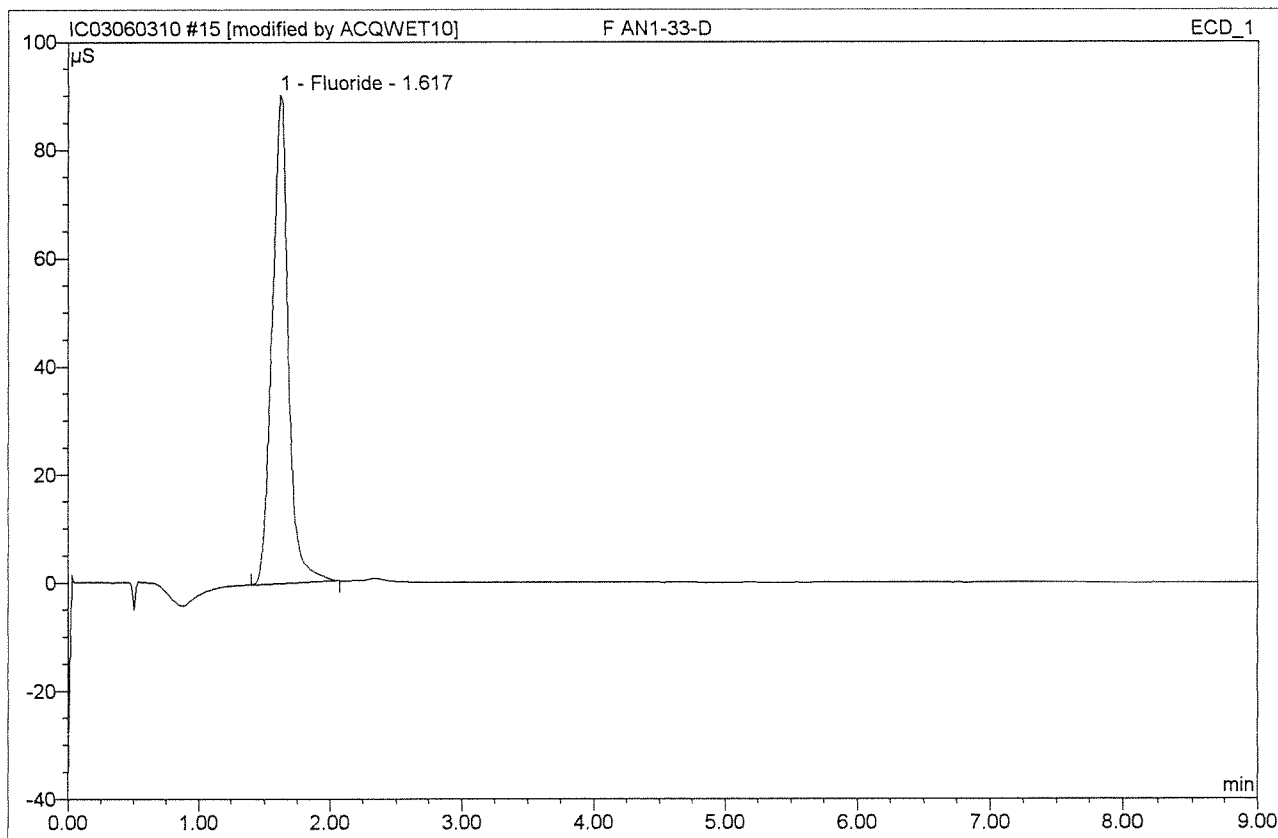


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.38	Chloride	64.849	8.467	64.00	5.429	BMB
2	7.17	Sulfate	16.577	4.763	36.00	4.840	BMB
Total:			81.426	13.230	100.00	10.269	

Before

JUN 03 2010

15 F AN1-33-D			
F			
Sample Name:	F AN1-33-D	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/3/2010 10:16	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	90.277	12.908	100.00	13.492	BMB*
Total:			90.277	12.908	100.00	13.492	

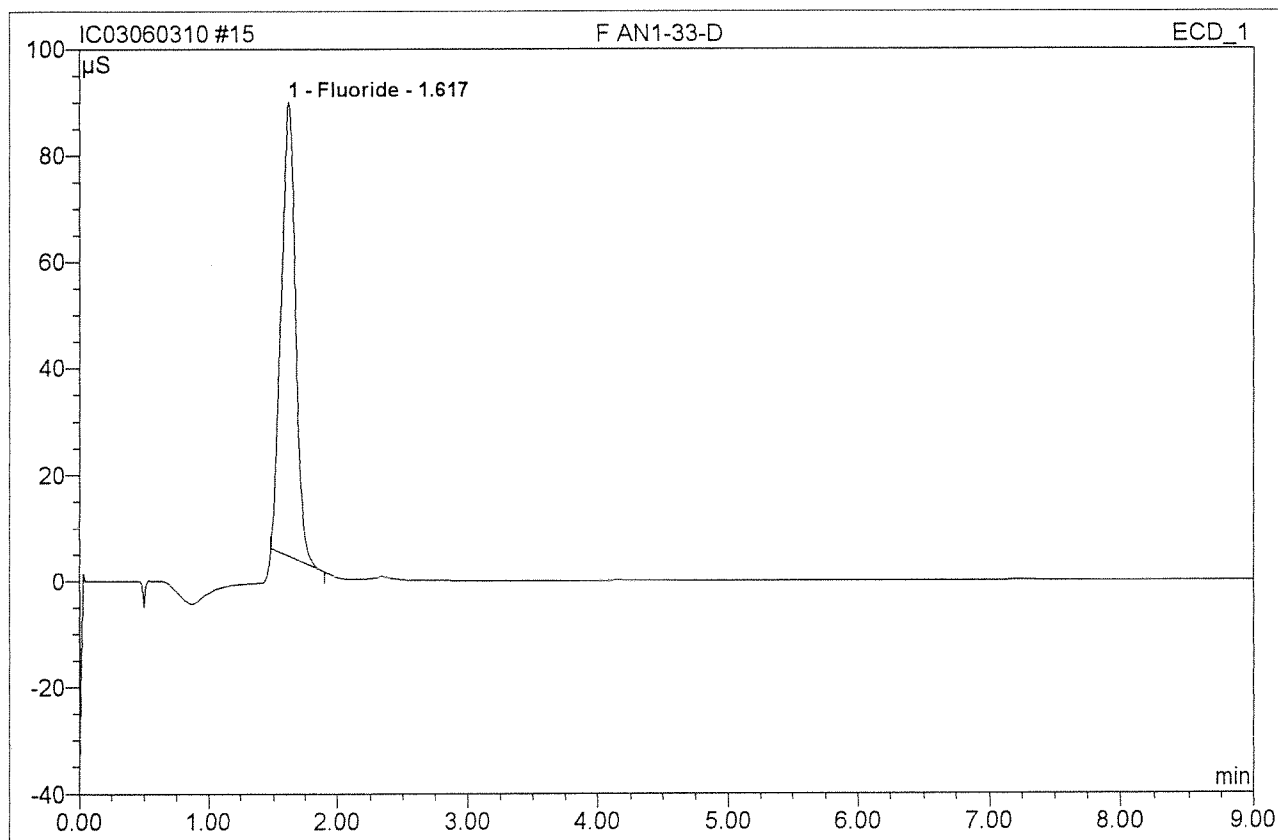
MB

06/14/10

15 F AN1-33-D

F

Sample Name:	F AN1-33-D	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/3/2010 10:16	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

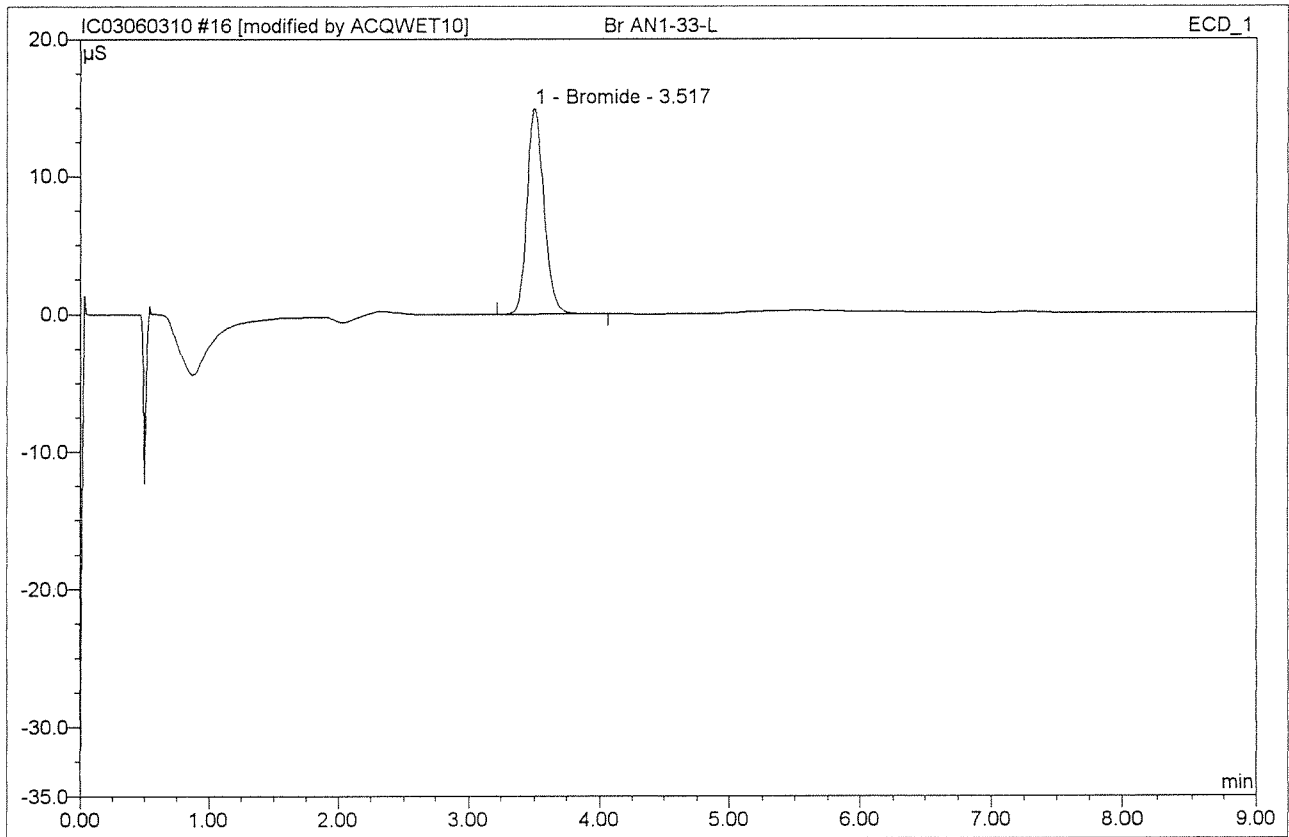


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.62	Fluoride	85.361	10.992	100.00	11.489	BMB
Total:			85.361	10.992	100.00	11.489	

Before

JUN 03 2010

16 Br AN1-33-L			
Br			
Sample Name:	Br AN1-33-L	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 10:27	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

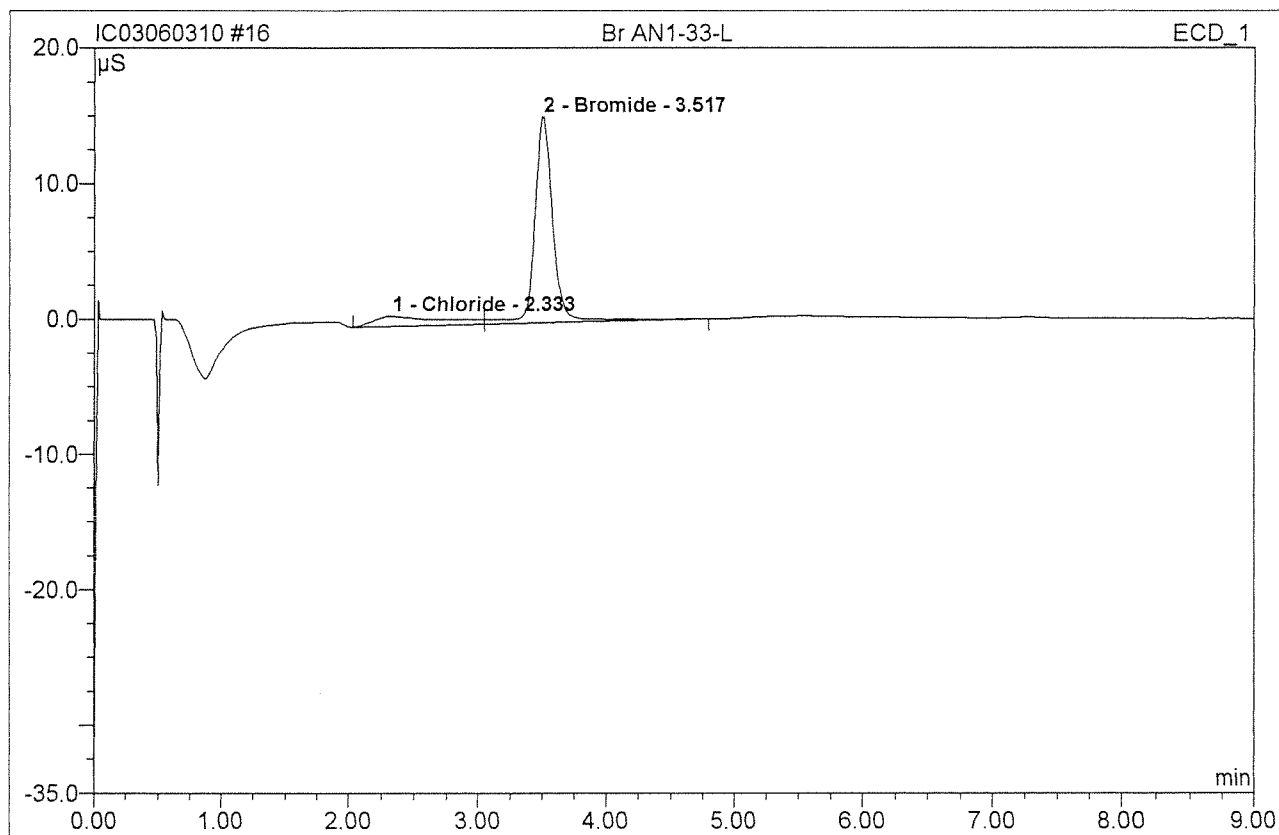


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	3.52	Bromide	14.927	2.247	100.00	4.1941057	BMB*
Total:			14.927	2.247	100.00	4.194	

MR
6/3/2010

16 Br AN1-33-L**Br**

Sample Name:	Br AN1-33-L	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 10:27	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	2.33	Chloride	0.755	0.453	15.14	0.291	BM
2	3.52	Bromide	15.175	2.541	84.86	4.743	MB
Total:			15.930	2.995	100.00	5.033	

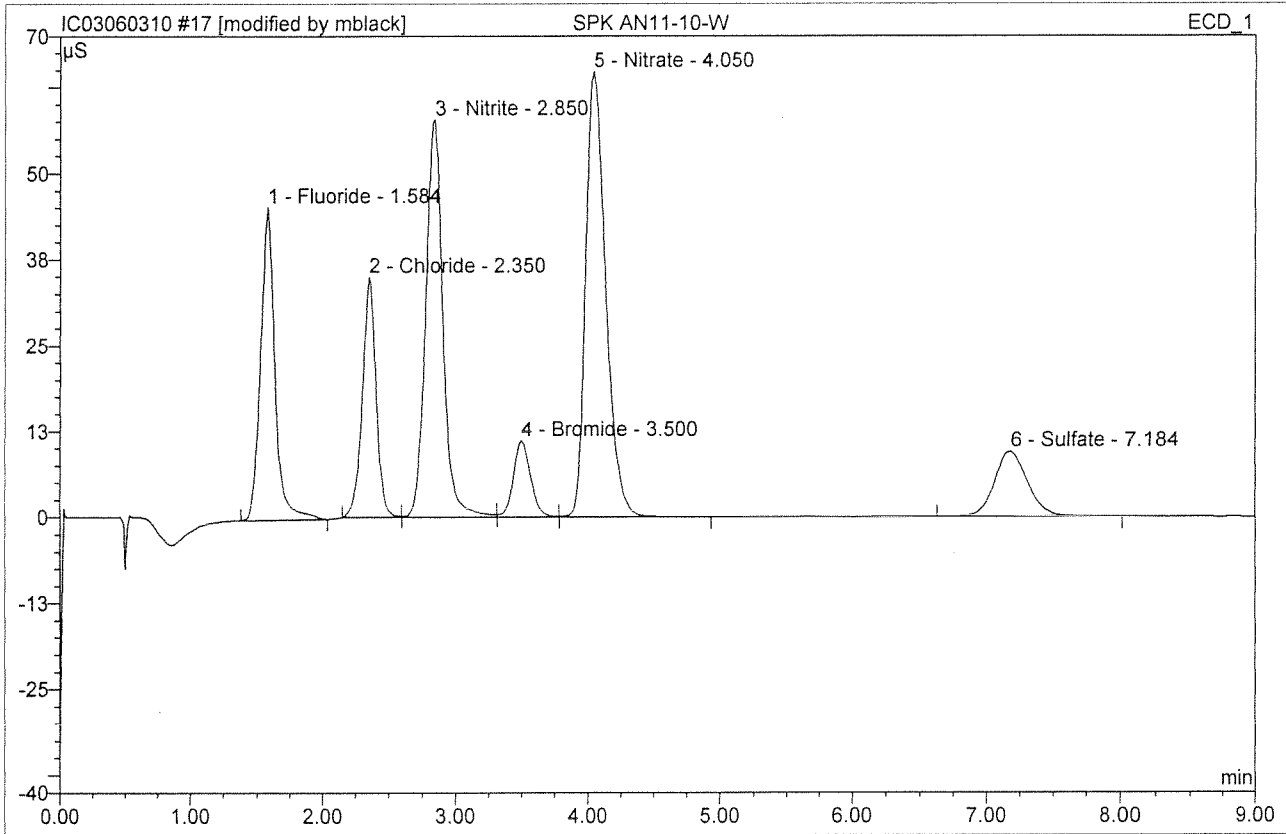
Before

JUN 03 2010

17 SPK AN11-10-W

SPK

Sample Name:	SPK AN11-10-W	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 10:38	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	45.431	5.733	16.57	2.996	BMB*
2	2.35	Chloride	34.868	4.189	12.11	2.686	BM *
3	2.85	Nitrite	57.717	8.723	25.21	3.021	M *
4	3.50	Bromide	11.098	1.671	4.83	3.119	M *
5	4.05	Nitrate	64.768	11.534	33.34	3.131	MB*
6	7.18	Sulfate	9.512	2.749	7.95	2.794	BMB
Total:			223.393	34.600	100.00	17.747	

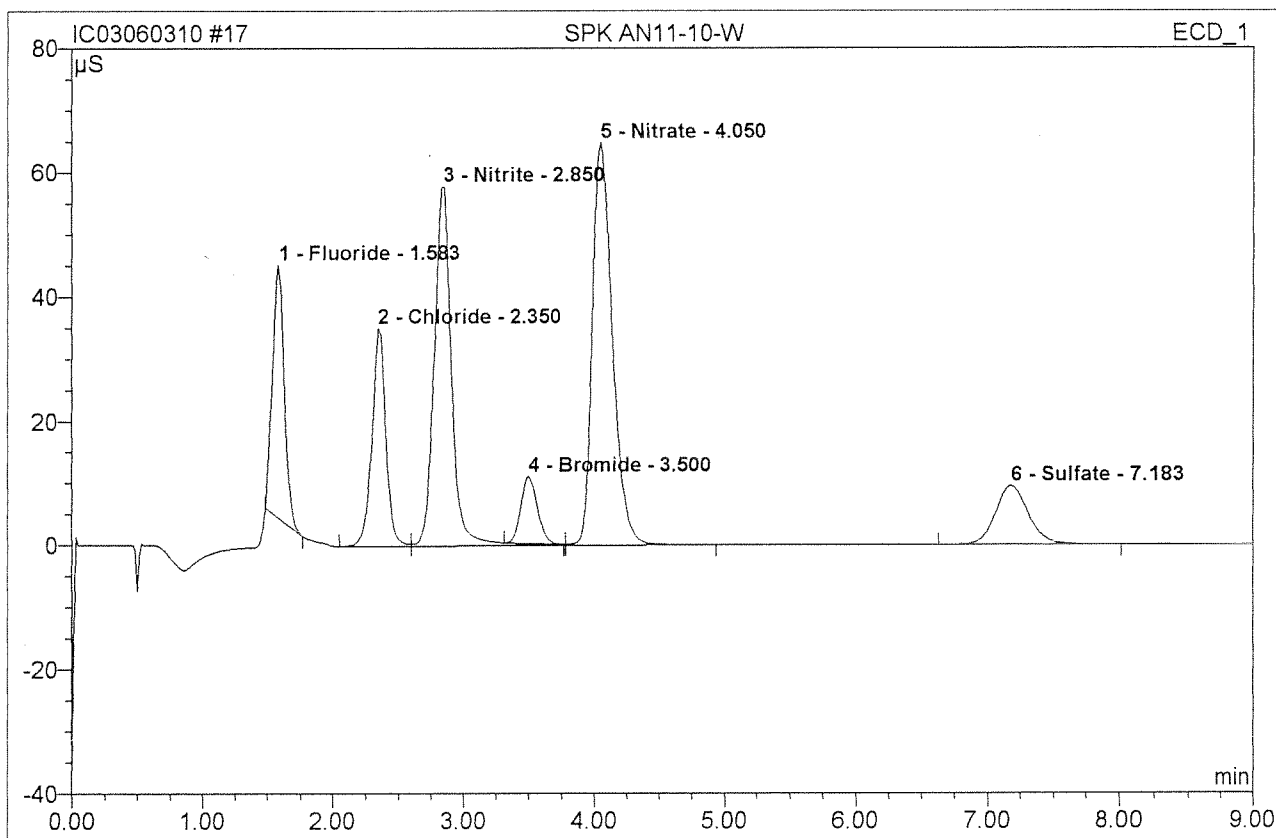
TV=3.00

After Initials MB 206/4/10

JUN 03 2010

17 SPK AN11-10-W**SPK**

Sample Name:	SPK AN11-10-W	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 10:38	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

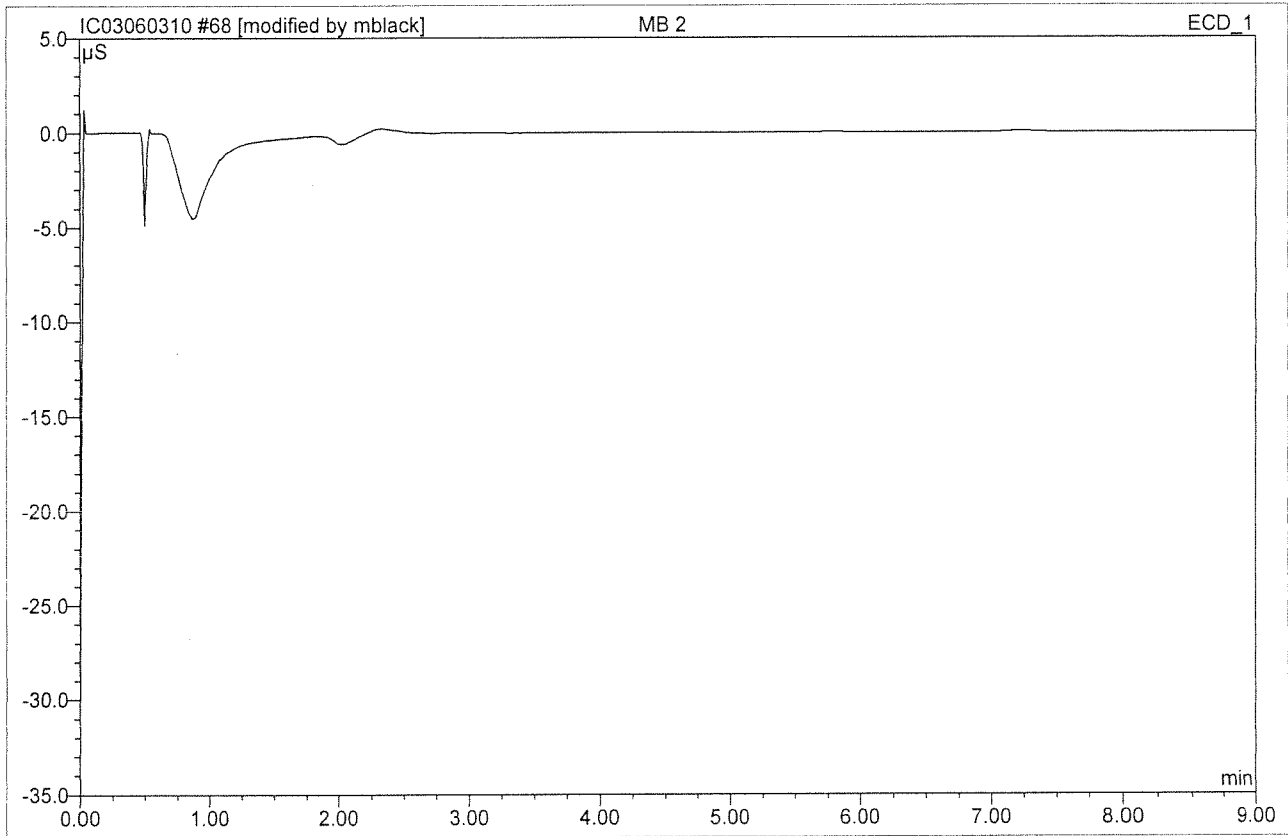


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.58	Fluoride	40.645	4.243	12.67	2.217	BMB
2	2.35	Chloride	35.119	4.310	12.87	2.764	BM
3	2.85	Nitrite	57.919	9.019	26.93	3.124	M
4	3.50	Bromide	10.866	1.576	4.70	2.941	Rd
5	4.05	Nitrate	64.853	11.598	34.63	3.148	MB
6	7.18	Sulfate	9.512	2.749	8.21	2.794	BMB
Total:			218.915	33.496	100.00	16.988	



Seiorc

JUN 03 2010

68 MB 2			
MB 2			
Sample Name:	MB 2	Injection Volume:	200.0
Vial Number:	65	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 20:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

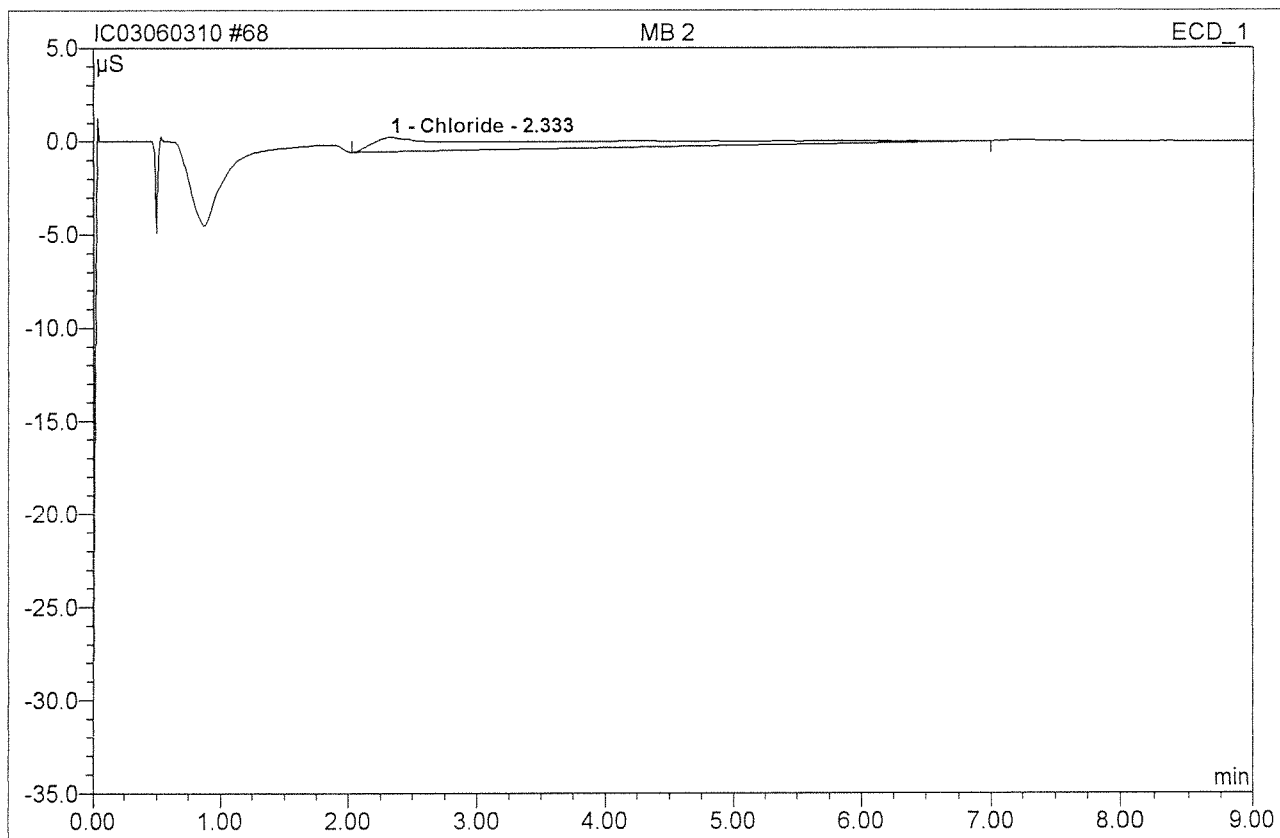


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	


 2010 6 4 11:01


Handwritten signature and date: 6/4/10

68 MB 2			
MB 2			
Sample Name:	MB 2	Injection Volume:	200.0
Vial Number:	65	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 20:28	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

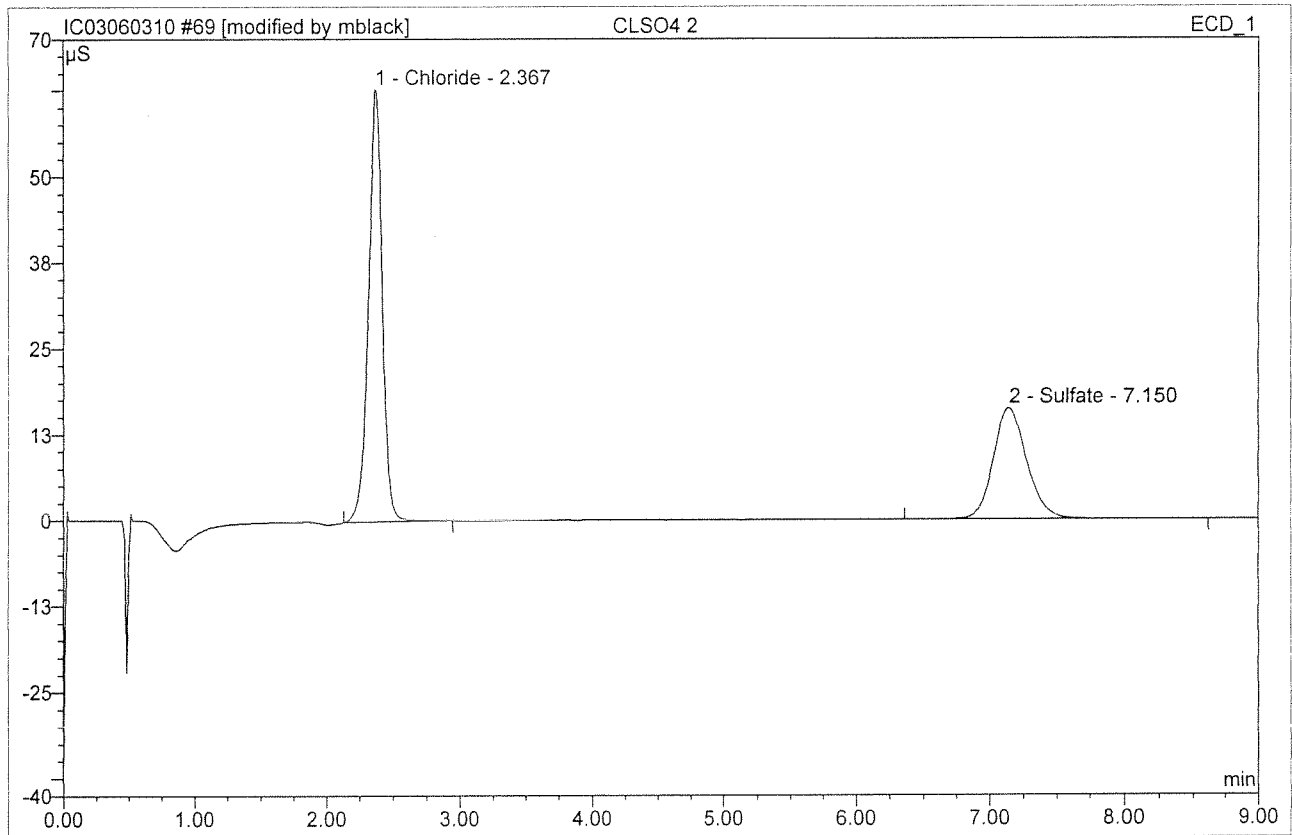


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.33	Chloride	0.780	1.432	100.00	0.918	BMB
Total:			0.780	1.432	100.00	0.918	

Before

JUN 04 2010

69 CLSO4 2			
CLSO4 2			
Sample Name:	CLSO4 2	Injection Volume:	200.0
Vial Number:	66	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 20:40	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.37	Chloride	62.837	7.562	61.54	4.849 97%	BMB*
2	7.15	Sulfate	16.194	4.726	38.46	4.802 96%	BMB*
Total:			79.031	12.287	100.00	9.651	

APC
Initials

(Handwritten initials)

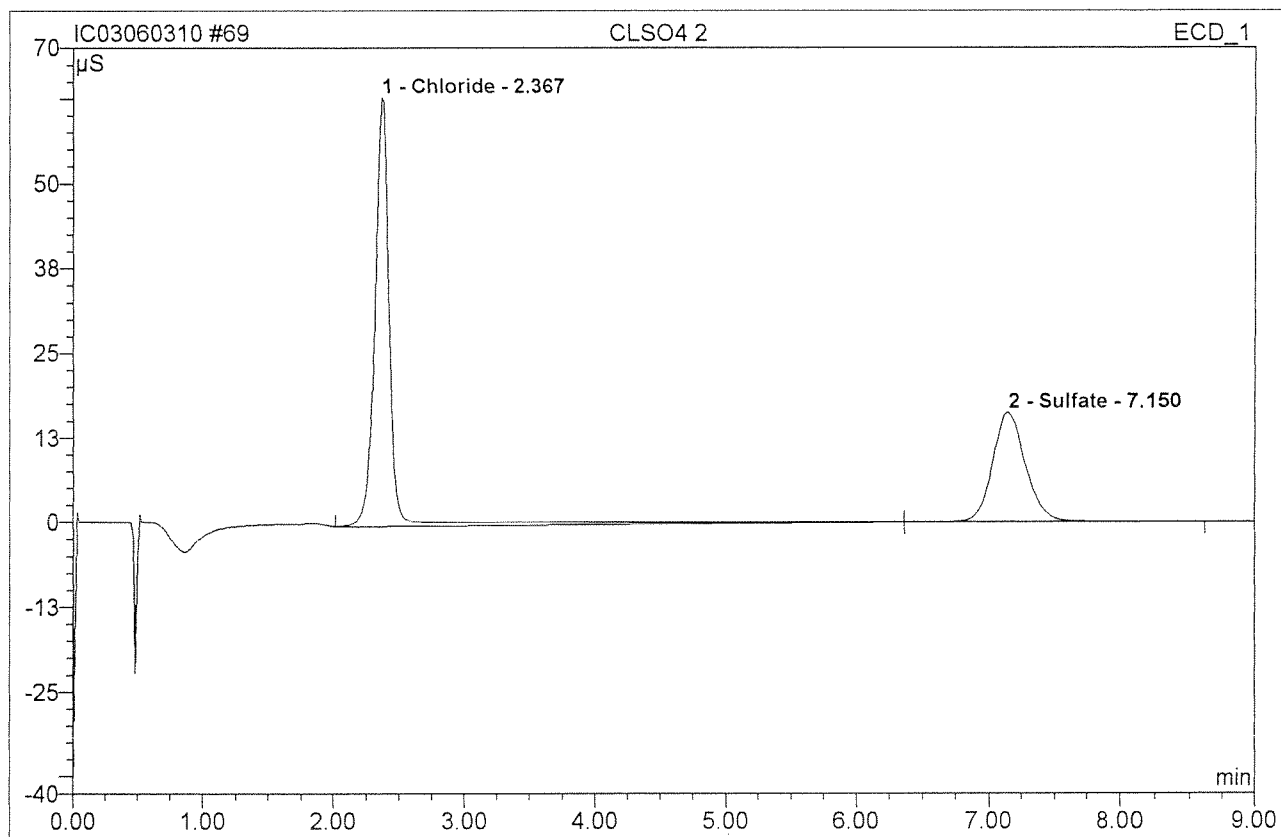
6/4/10

JUN 04 2010

69 CLSO4 2

CLSO4 2

Sample Name:	CLSO4 2	Injection Volume:	200.0
Vial Number:	66	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 20:40	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.37	Chloride	63.217	8.697	64.79	5.577	BMB
2	7.15	Sulfate	16.194	4.726	35.21	4.802	bMB
Total:			79.411	13.423	100.00	10.379	

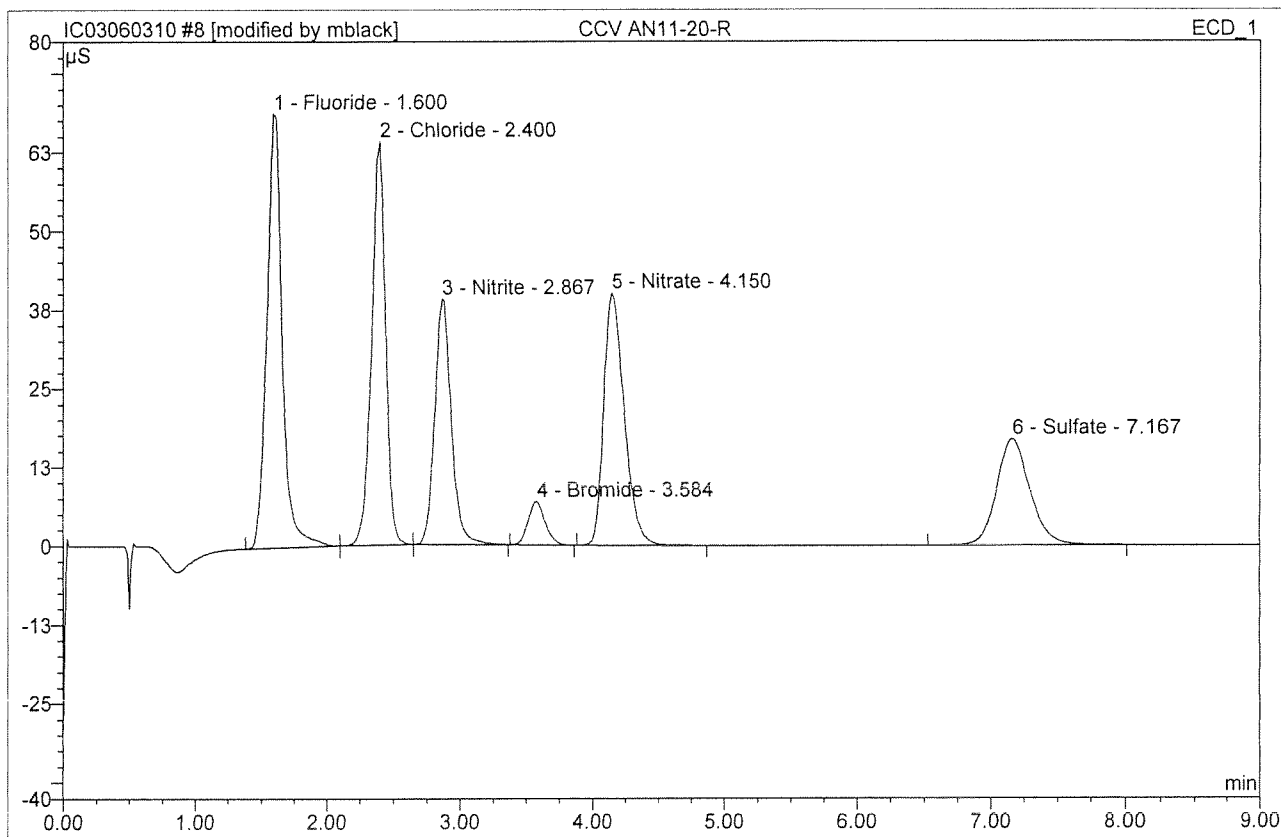
Before

JUN 04 2010

8 CCV AN11-20-R

CCV1

Sample Name:	CCV AN11-20-R	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 8:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

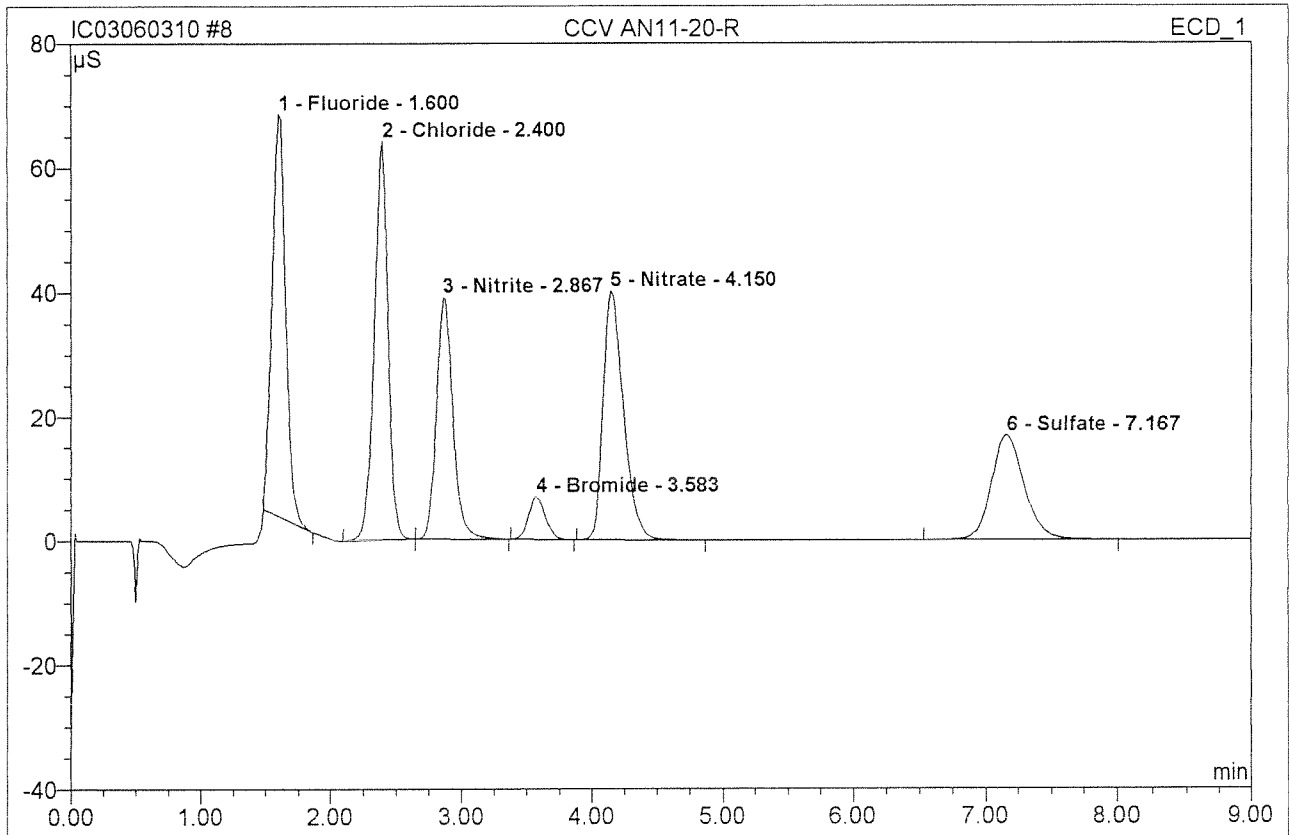


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	1.60	Fluoride	68.899	9.384	26.11	4.904 ⁹⁸²	BMB*
2	2.40	Chloride	64.075	7.692	21.40	4.932 ⁹⁹²	bMB*
3	2.87	Nitrite	38.919	5.671	15.78	1.964 ⁹⁸²	bMB
4	3.58	Bromide	6.855	1.038	2.89	1.937 ⁹⁷²	BMB
5	4.15	Nitrate	40.082	7.276	20.25	1.975 ⁹⁹²	BMB
6	7.17	Sulfate	16.893	4.879	13.58	4.958 ⁹⁹²	BMB
Total:			235.722	35.940	100.00	20.671	

APR 3 2010
MB

6/4/10

8 CCV AN11-20-R			
CCV1			
Sample Name:	CCV AN11-20-R	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 8:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

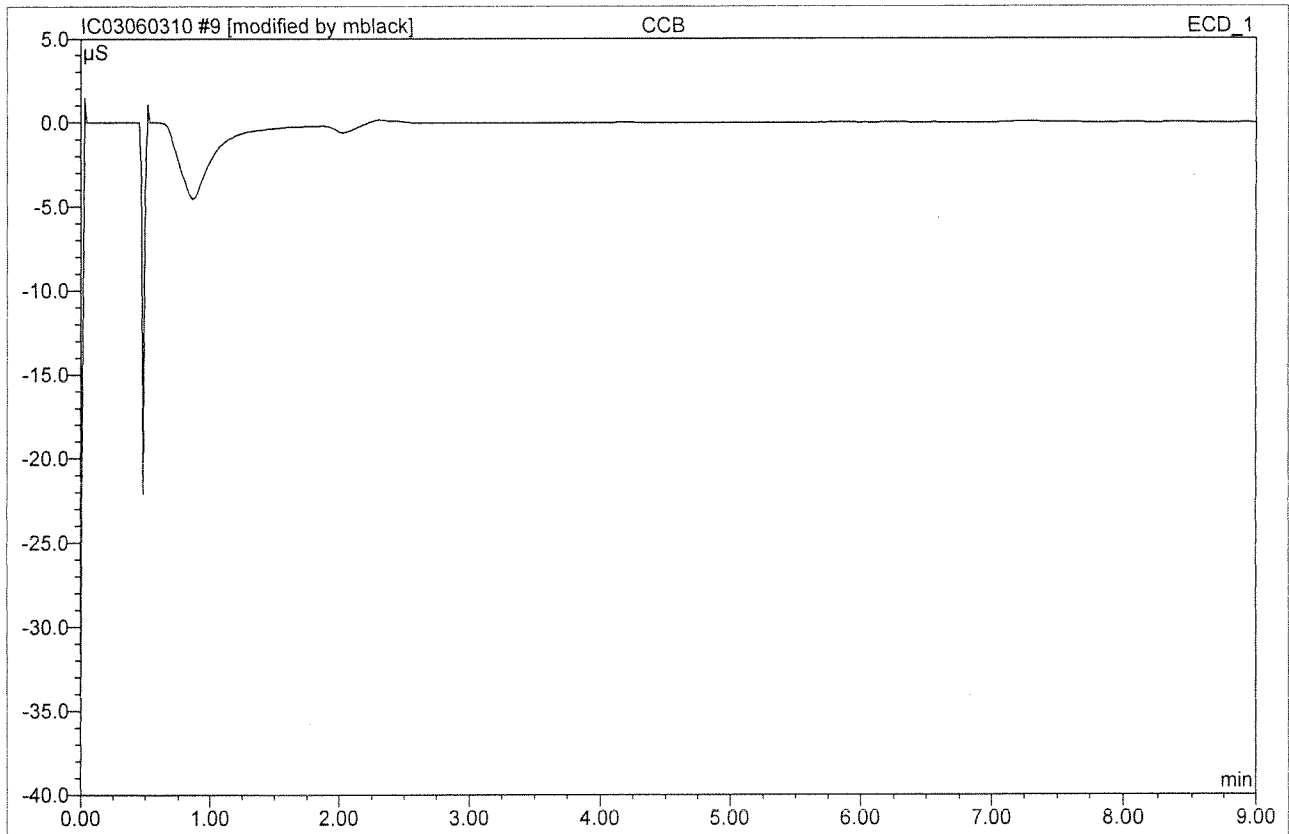


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	64.671	7.816	22.74	4.085	BMB
2	2.40	Chloride	64.075	7.692	22.38	4.932	BMB
3	2.87	Nitrite	38.919	5.671	16.50	1.964	bMB
4	3.58	Bromide	6.855	1.038	3.02	1.937	BMB
5	4.15	Nitrate	40.082	7.276	21.17	1.975	BMB
6	7.17	Sulfate	16.893	4.879	14.20	4.958	BMB
Total:			231.495	34.373	100.00	19.852	

Before

JUN 03 2010

9 CCB			
CCB1			
Sample Name:	CCB	Injection Volume:	200.0
Vial Number:	9	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 8:53	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



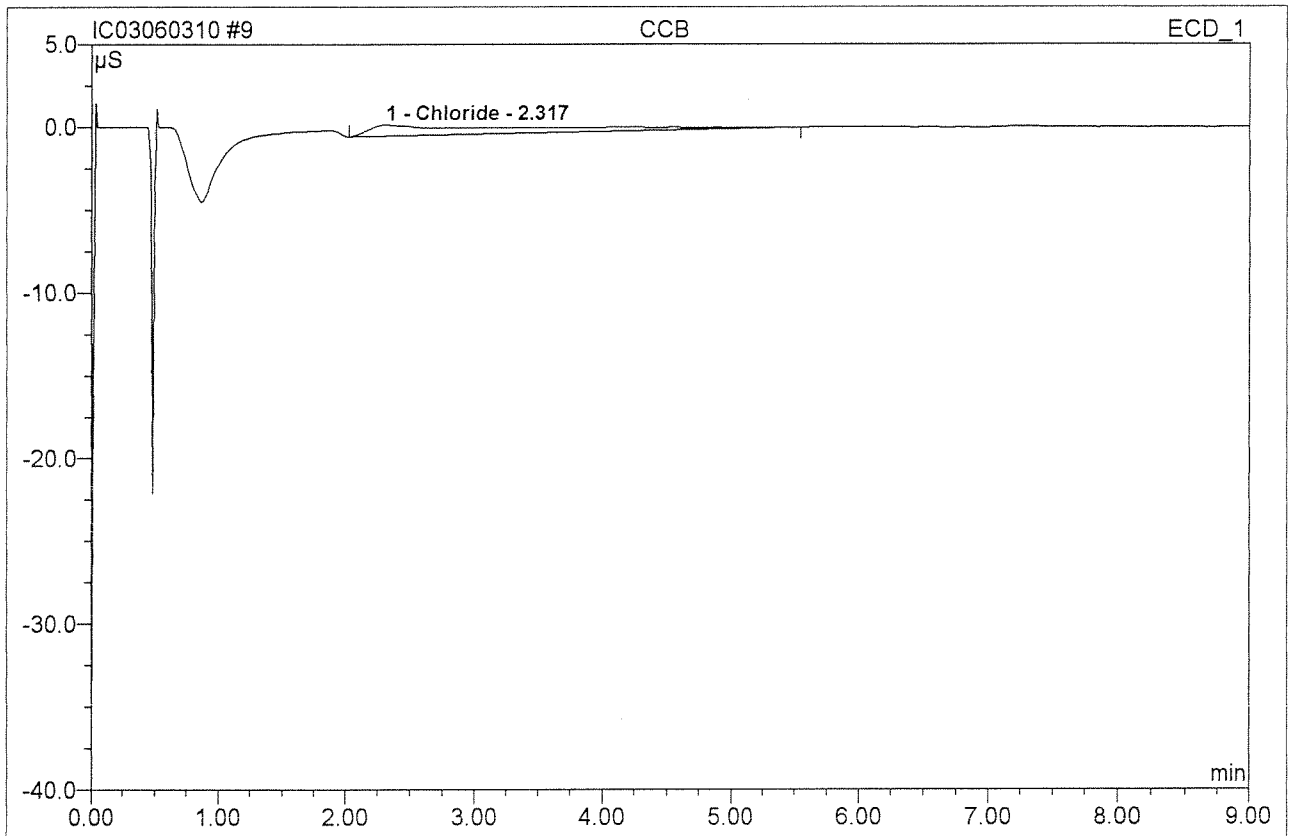
No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

12

6/4/10

6/3/2010

9 CCB			
CCB1			
Sample Name:	CCB	Injection Volume:	200.0
Vial Number:	9	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 8:53	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

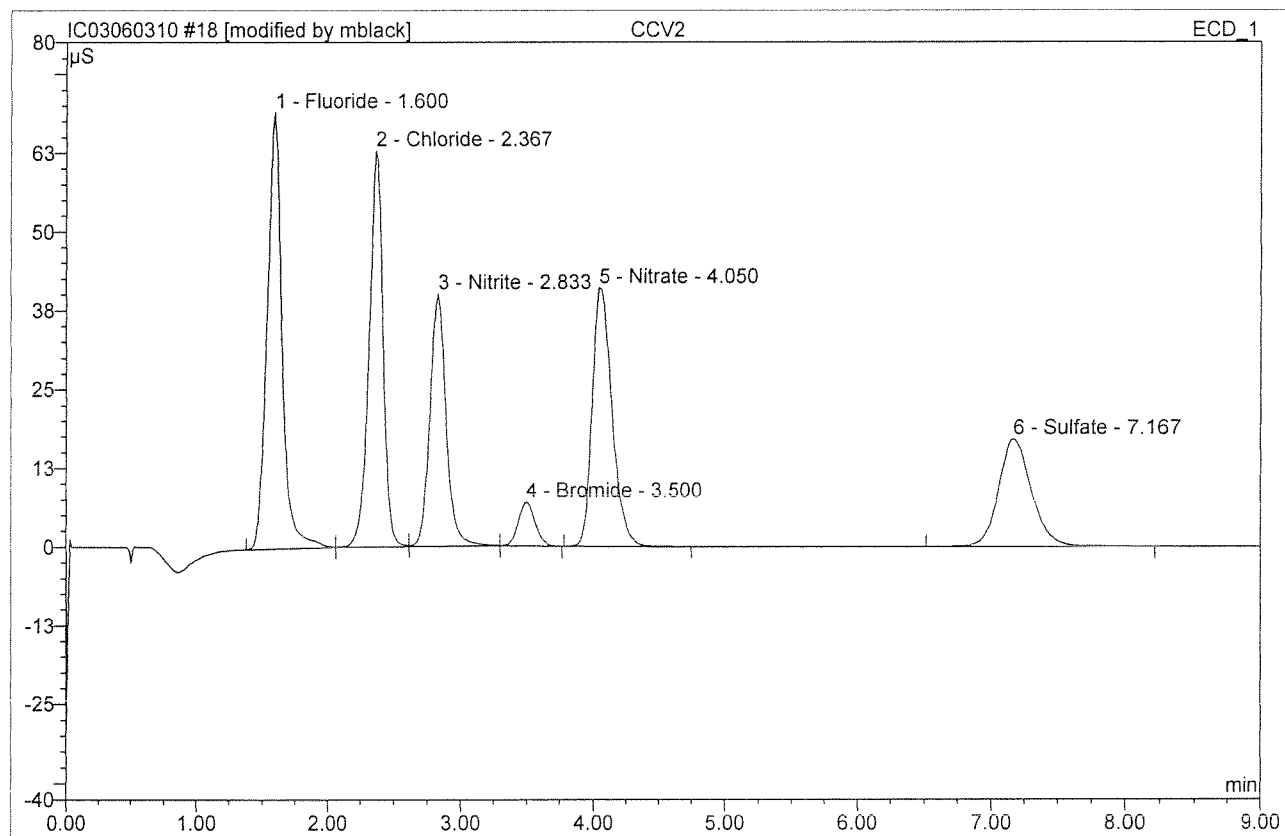


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.32	Chloride	0.698	0.980	100.00	0.628	BMB
Total:			0.698	0.980	100.00	0.628	

Before

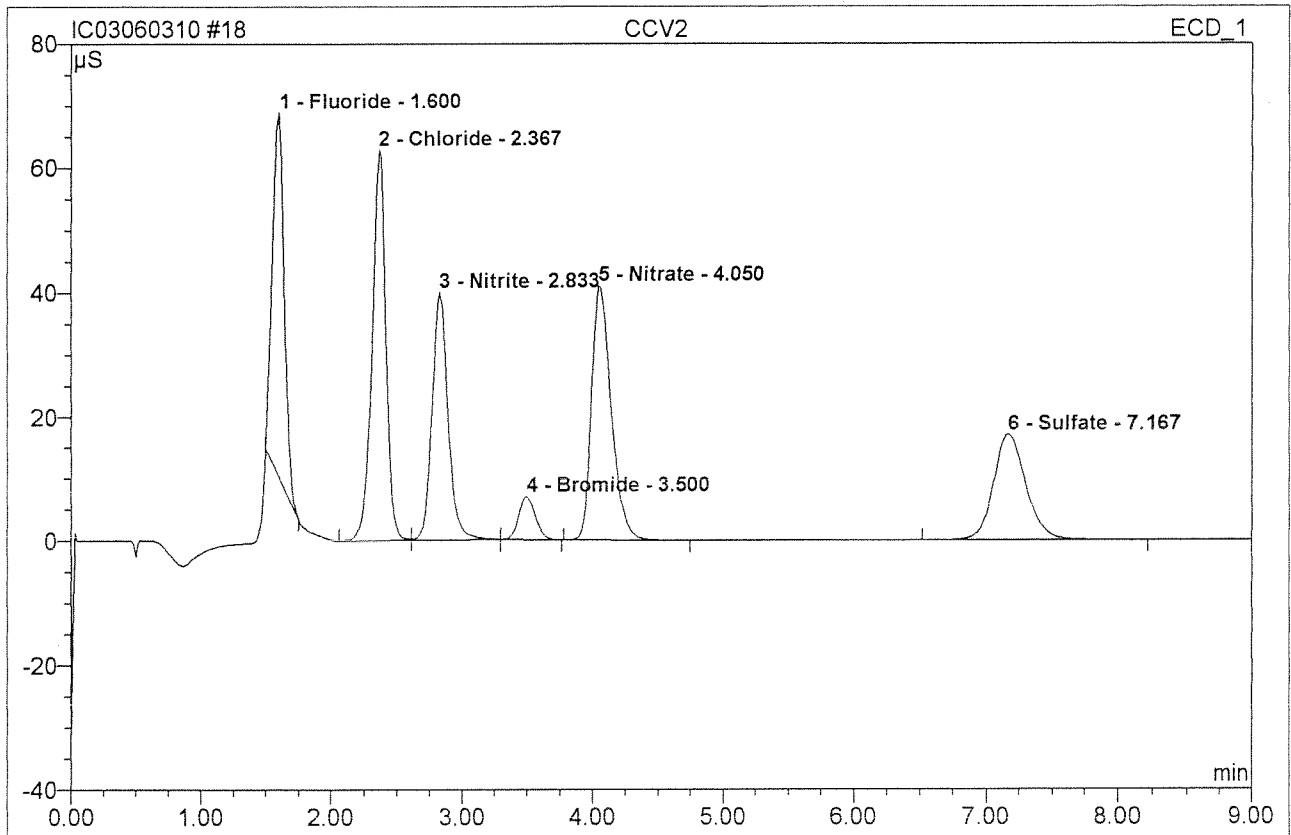
JUN 03 2010

18 CCV2			
CCV2			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 10:50	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	69.207	9.237	25.95	4.828 ^{97%}	BMB*
2	2.37	Chloride	62.872	7.615	21.39	4.883 ^{98%}	bM *
3	2.83	Nitrite	39.920	5.649	15.87	1.956 ^{95%}	Mb
4	3.50	Bromide	6.970	1.026	2.88	1.916 ^{96%}	bMB
5	4.05	Nitrate	40.984	7.183	20.18	1.950 ^{98%}	BMB
6	7.17	Sulfate	17.124	4.884	13.72	4.963 ^{99%}	BMB
Total:			237.077	35.593	100.00	20.495	

18 CCV2			
CCV2			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 10:50	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

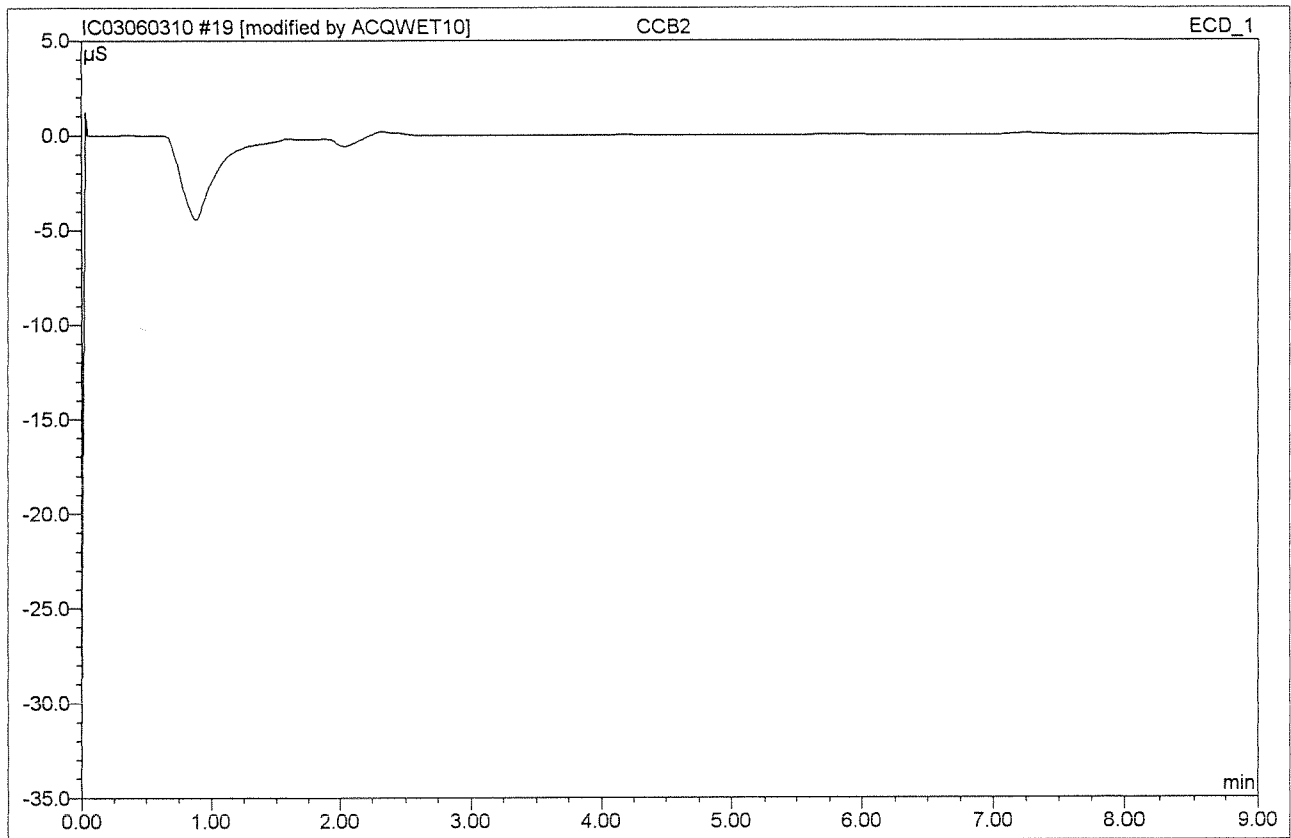


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	58.594	6.141	18.90	3.209	BMB
2	2.37	Chloride	62.872	7.615	23.43	4.883	BM
3	2.83	Nitrite	39.920	5.649	17.38	1.956	Mb
4	3.50	Bromide	6.970	1.026	3.16	1.916	bMB
5	4.05	Nitrate	40.984	7.183	22.10	1.950	BMB
6	7.17	Sulfate	17.124	4.884	15.03	4.963	BMB
Total:			226.465	32.497	100.00	18.876	

Before

JUN 03 2010

19 CCB2			
CCB2			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 11:01	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



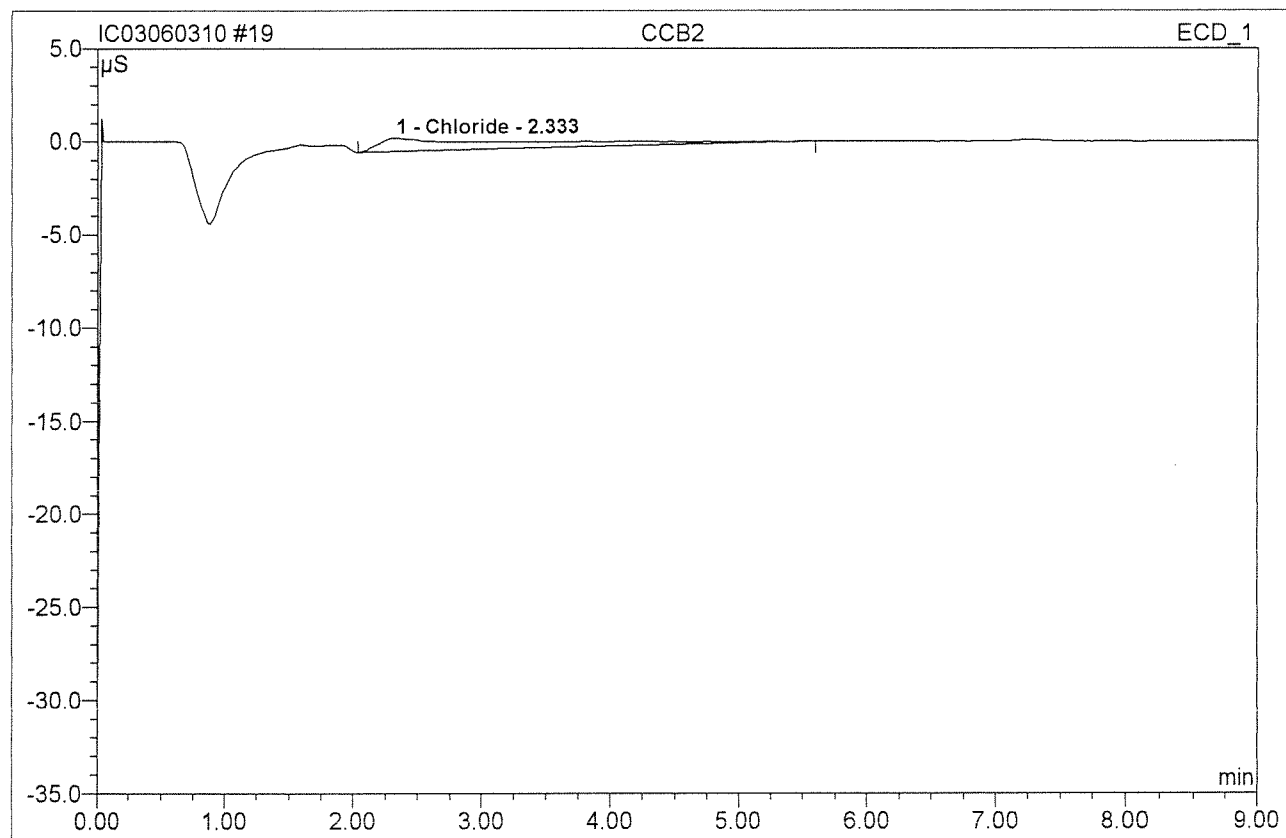
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

06/4/10

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2010 6 3 2010

19 CCB2			
CCB2			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 11:01	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

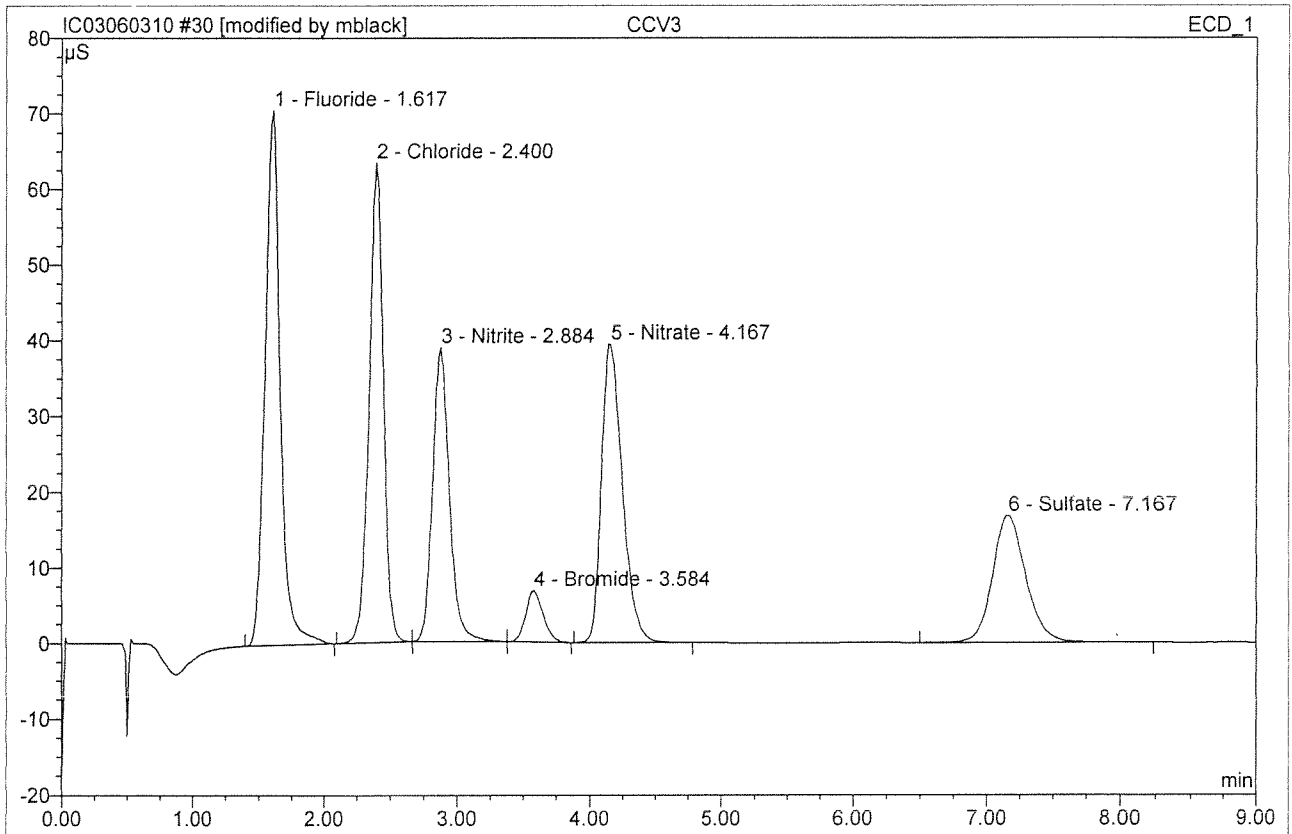


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.729	0.996	100.00	0.639	BMB
Total:			0.729	0.996	100.00	0.639	

Before

JUN 03 2010

30 CCV3			
CCV3			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	27	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 13:07	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

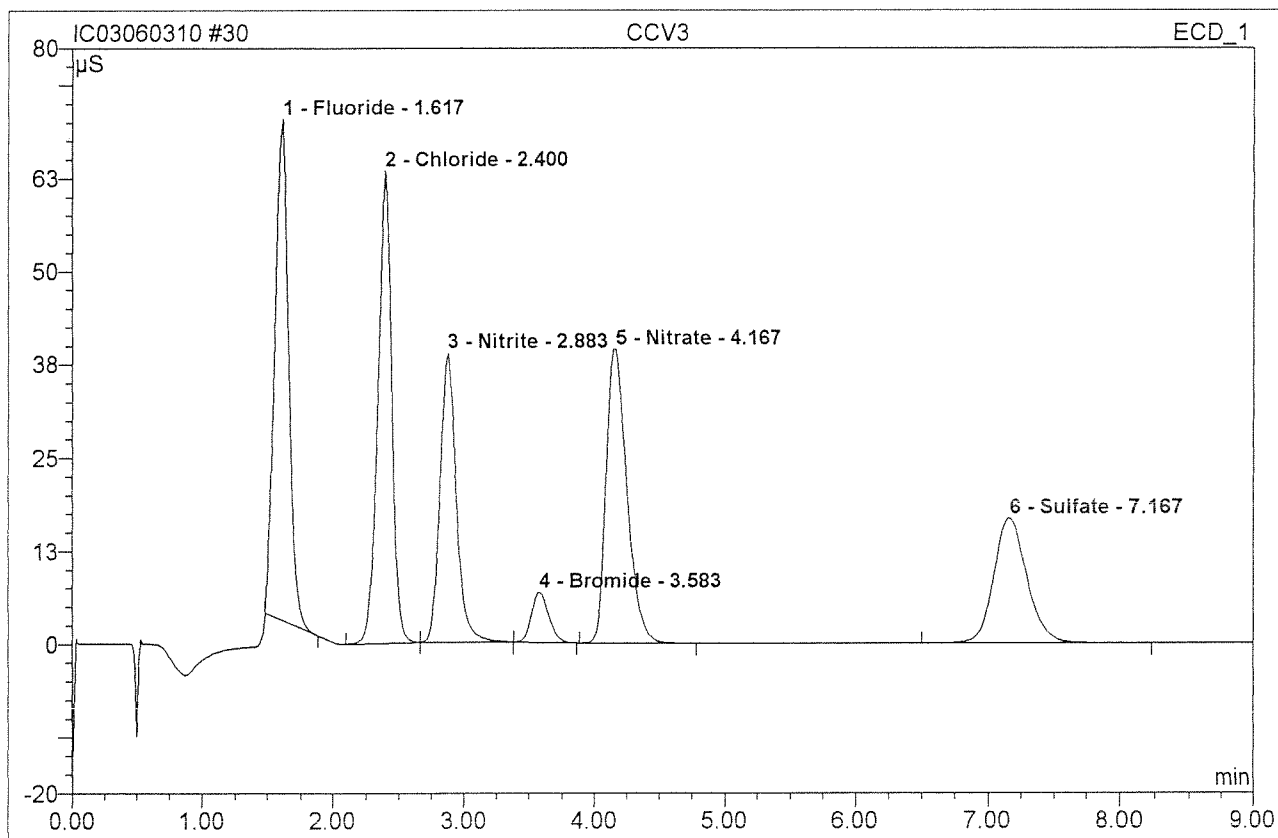


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	70.714	9.517	26.37	4.974 ⁹⁹²	BMB*
2	2.40	Chloride	63.381	7.693	21.32	4.933 ⁹⁹⁶	BMB
3	2.88	Nitrite	38.800	5.644	15.64	1.955 ⁹⁸²	bMB
4	3.58	Bromide	6.817	1.039	2.88	1.940 ⁹⁷⁷	bMB
5	4.17	Nitrate	39.424	7.287	20.19	1.978 ⁹⁹²	BMB
6	7.17	Sulfate	16.840	4.905	13.59	4.984 ⁰⁰²	BMB
Total:			235.976	36.086	100.00	20.764	

MB

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30 CCV3			
CCV3			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	27	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 13:07	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

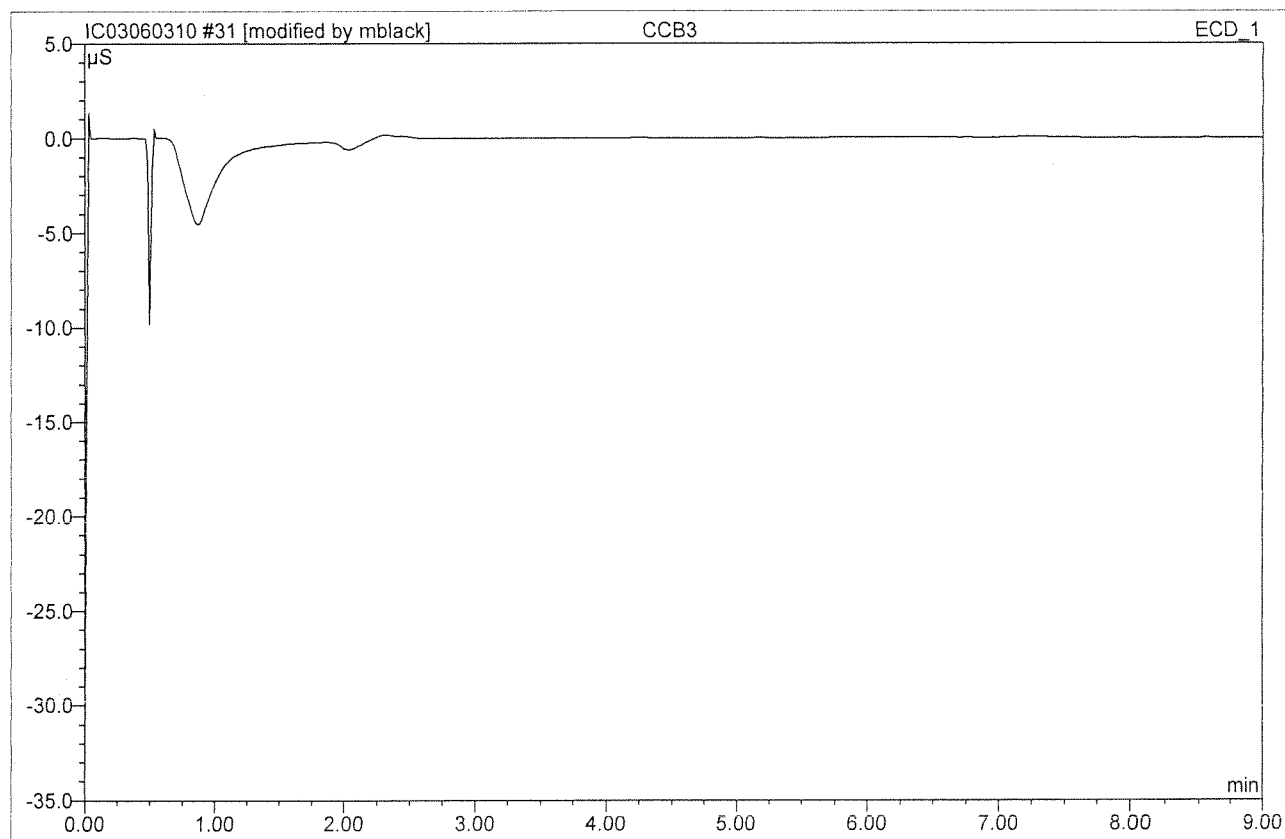


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	67.247	8.161	23.50	4.265	BMB
2	2.40	Chloride	63.381	7.693	22.15	4.933	BMB
3	2.88	Nitrite	38.800	5.644	16.25	1.955	bMB
4	3.58	Bromide	6.817	1.039	2.99	1.940	bMB
5	4.17	Nitrate	39.424	7.287	20.98	1.978	BMB
6	7.17	Sulfate	16.840	4.905	14.12	4.984	BMB
Total:			232.509	34.730	100.00	20.055	

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JUN 03 2010

31 CCB3			
CCB3			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 13:19	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

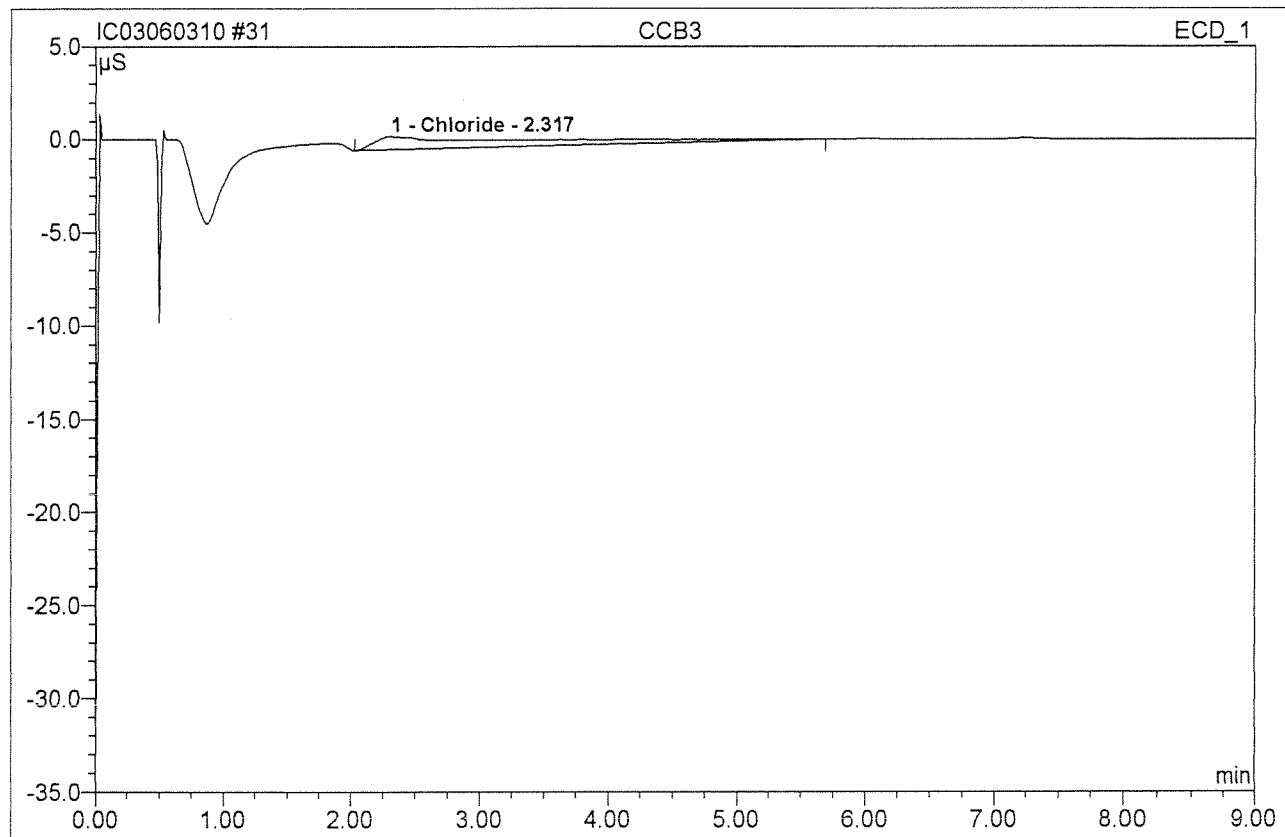


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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31 CCB3			
CCB3			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 13:19	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

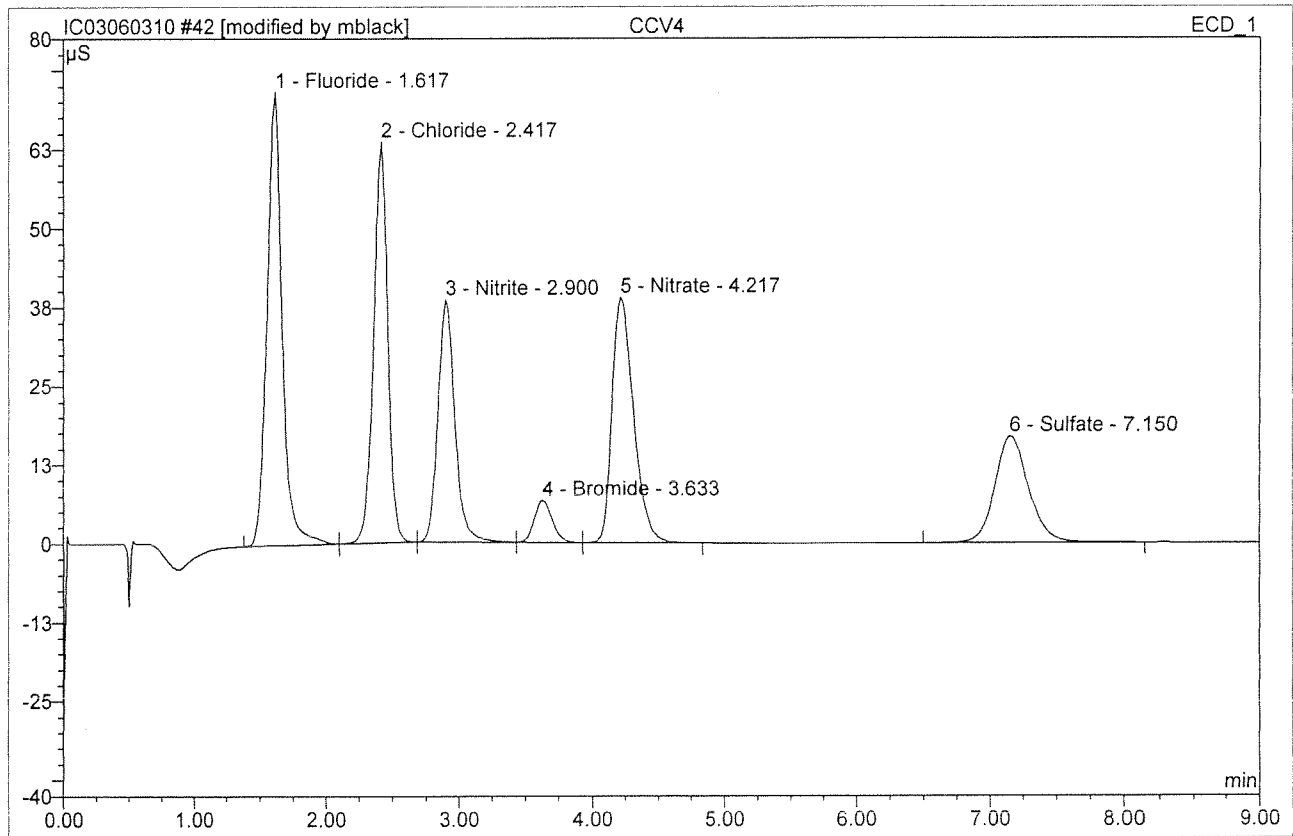


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.32	Chloride	0.715	1.022	100.00	0.656	BMB
Total:			0.715	1.022	100.00	0.656	

Before

JUN 03 2010

42 CCV4			
CCV4			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	39	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 15:30	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

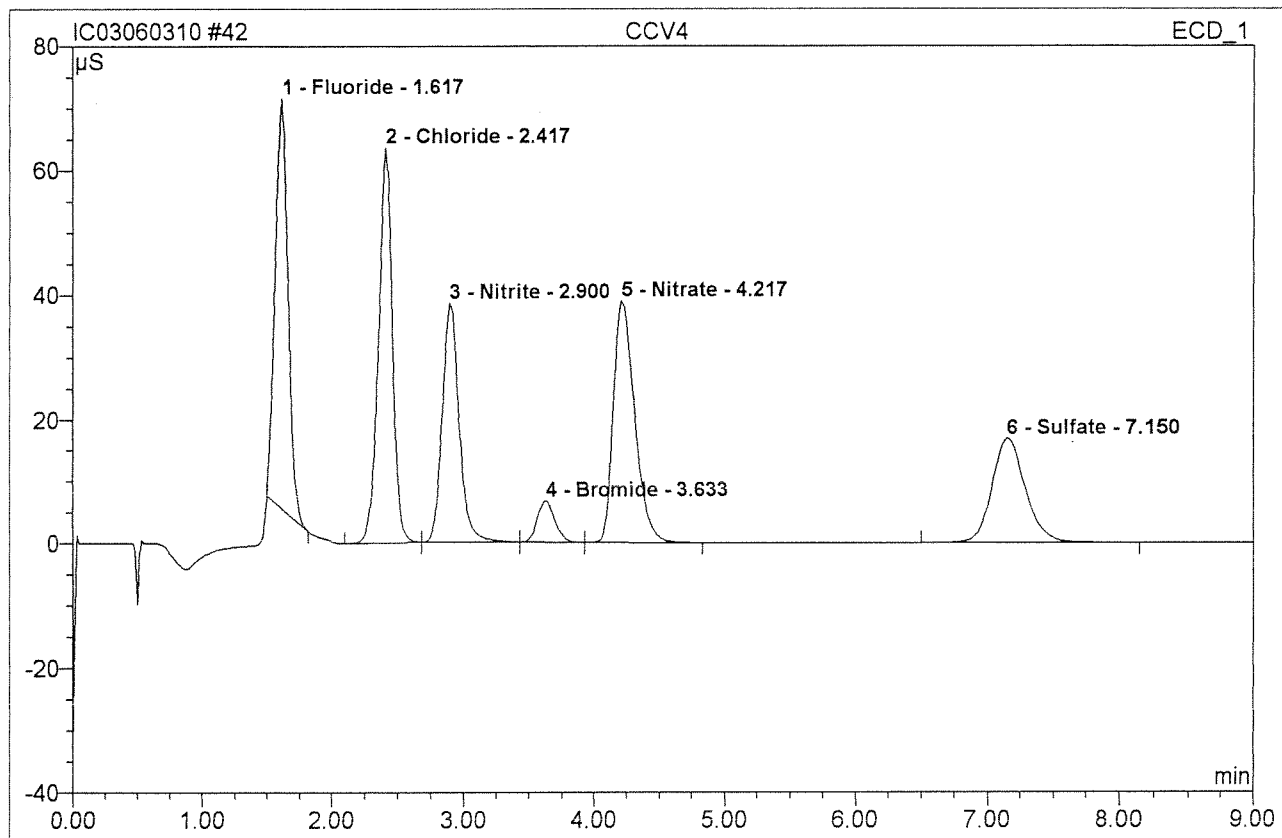


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	71.893	9.624	26.43	5.030101%	BMb*
2	2.42	Chloride	63.571	7.768	21.33	4.981008%	bMb*
3	2.90	Nitrite	38.473	5.711	15.69	1.978492%	bMb
4	3.63	Bromide	6.726	1.052	2.89	1.964852%	bMb
5	4.22	Nitrate	38.934	7.318	20.10	1.986100%	bMB
6	7.15	Sulfate	16.893	4.939	13.56	5.019102%	BMB
Total:			236.490	36.412	100.00	20.957	

MB

6/4/10

42 CCV4			
CCV4			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	39	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 15:30	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

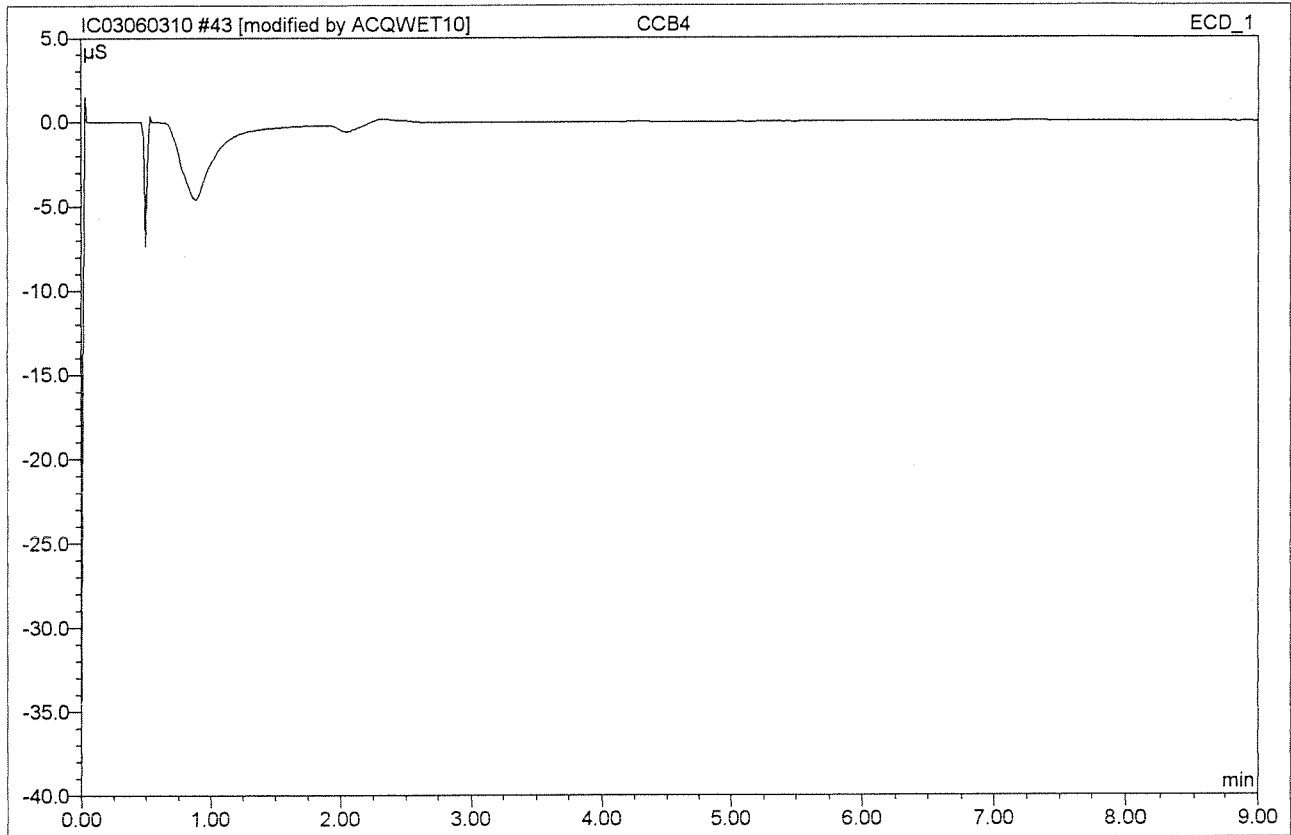


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	65.994	7.598	22.10	3.971	BMB
2	2.42	Chloride	63.571	7.768	22.59	4.981	BMB
3	2.90	Nitrite	38.473	5.711	16.61	1.978	bMb
4	3.63	Bromide	6.726	1.052	3.06	1.964	bMb
5	4.22	Nitrate	38.934	7.318	21.28	1.986	bMB
6	7.15	Sulfate	16.893	4.939	14.36	5.019	BMB
Total:			230.590	34.386	100.00	19.899	

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JUN 03 2010

43 CCB4			
CCB4			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 15:41	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

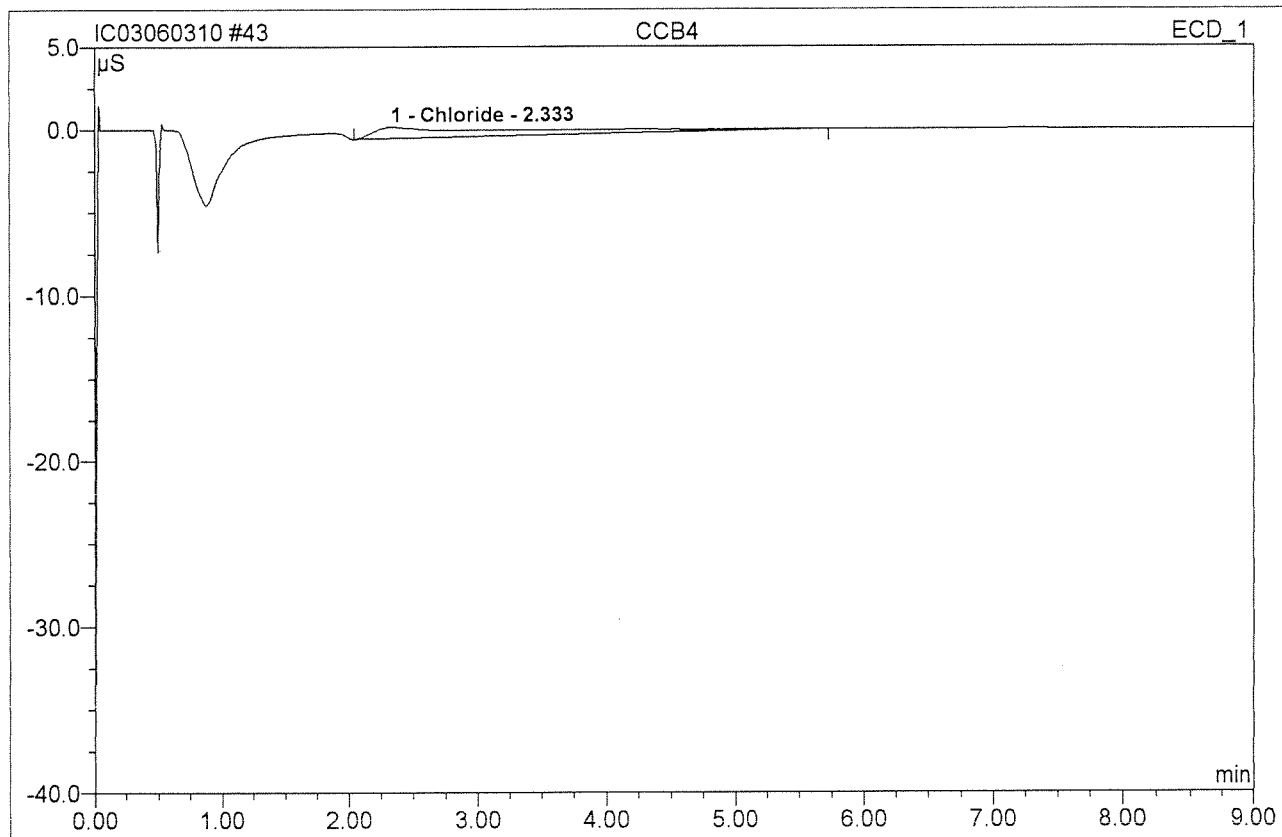


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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43 CCB4			
CCB4			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 15:41	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

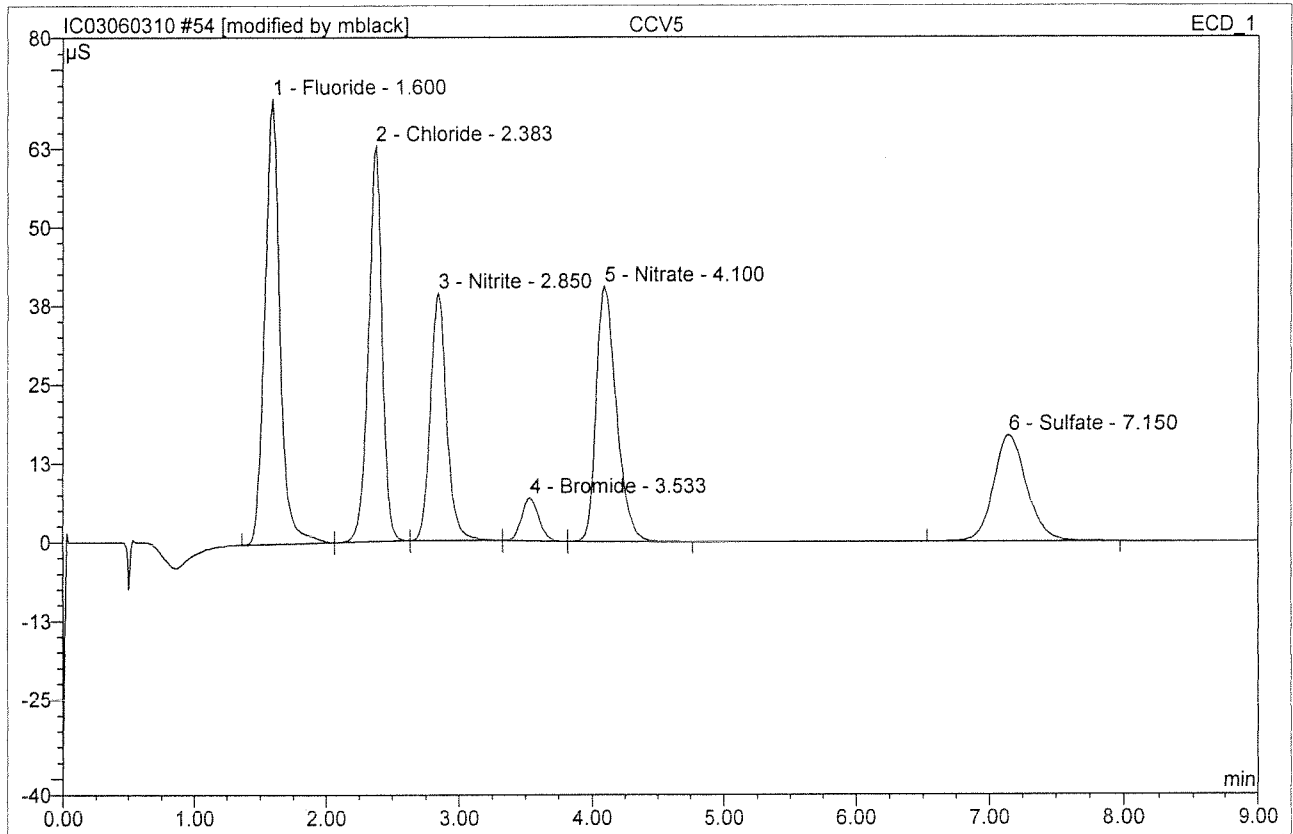


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.33	Chloride	0.712	1.000	100.00	0.641	BMB
Total:			0.712	1.000	100.00	0.641	

Before

JUN 03 2010

54 CCV5			
CCV5			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	51	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 17:48	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



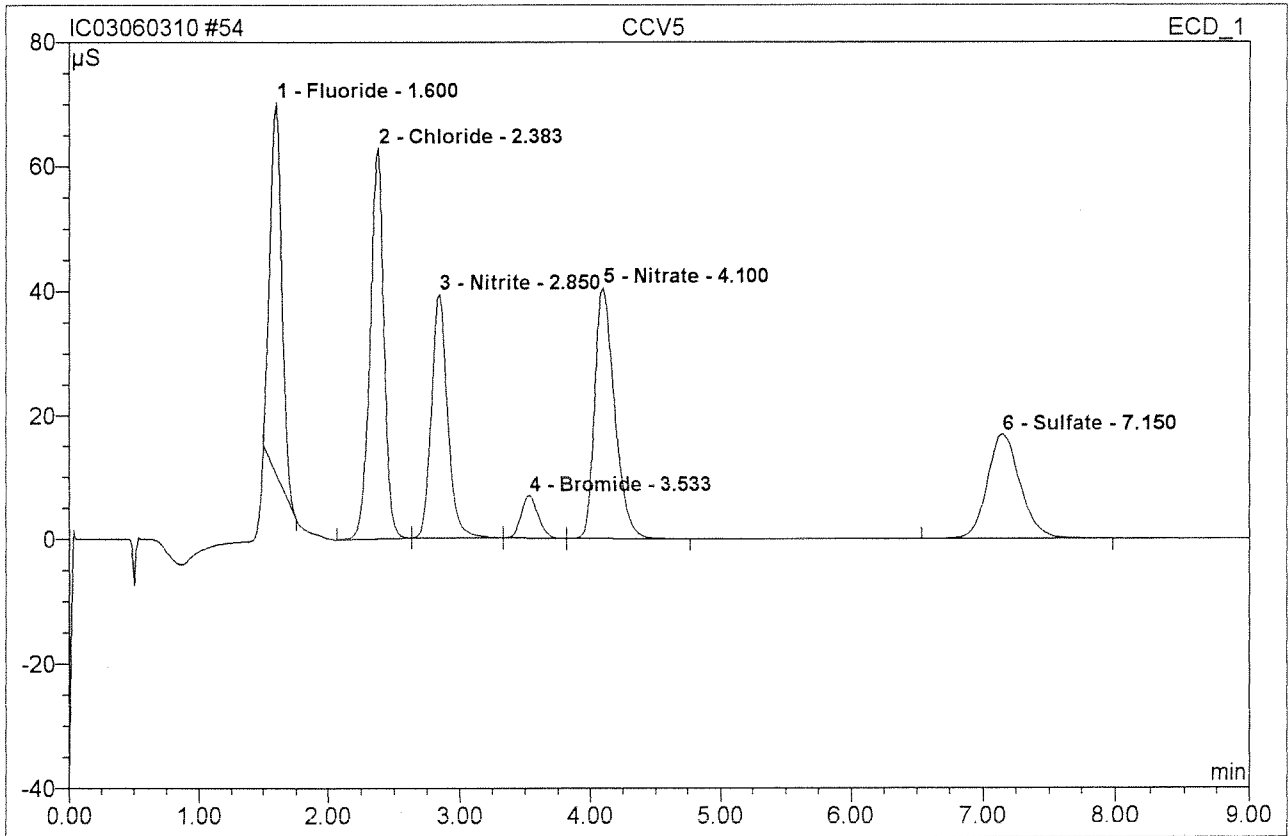
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	70.654	9.394	26.29	4.909 ¹⁸²	BMb*
2	2.38	Chloride	62.876	7.590	21.24	4.867 ⁹⁷⁹	bMb*
3	2.85	Nitrite	39.292	5.640	15.79	1.953 ⁸²	bMb
4	3.53	Bromide	6.905	1.032	2.89	1.926 ⁷⁷⁸	bMb
5	4.10	Nitrate	40.464	7.224	20.22	1.961 ¹⁸²	bMB
6	7.15	Sulfate	16.866	4.850	13.57	4.928 ⁹⁹⁹	BMB
Total:			237.057	35.729	100.00	20.544	

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54 CCV5			
CCV5			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	51	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 17:48	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

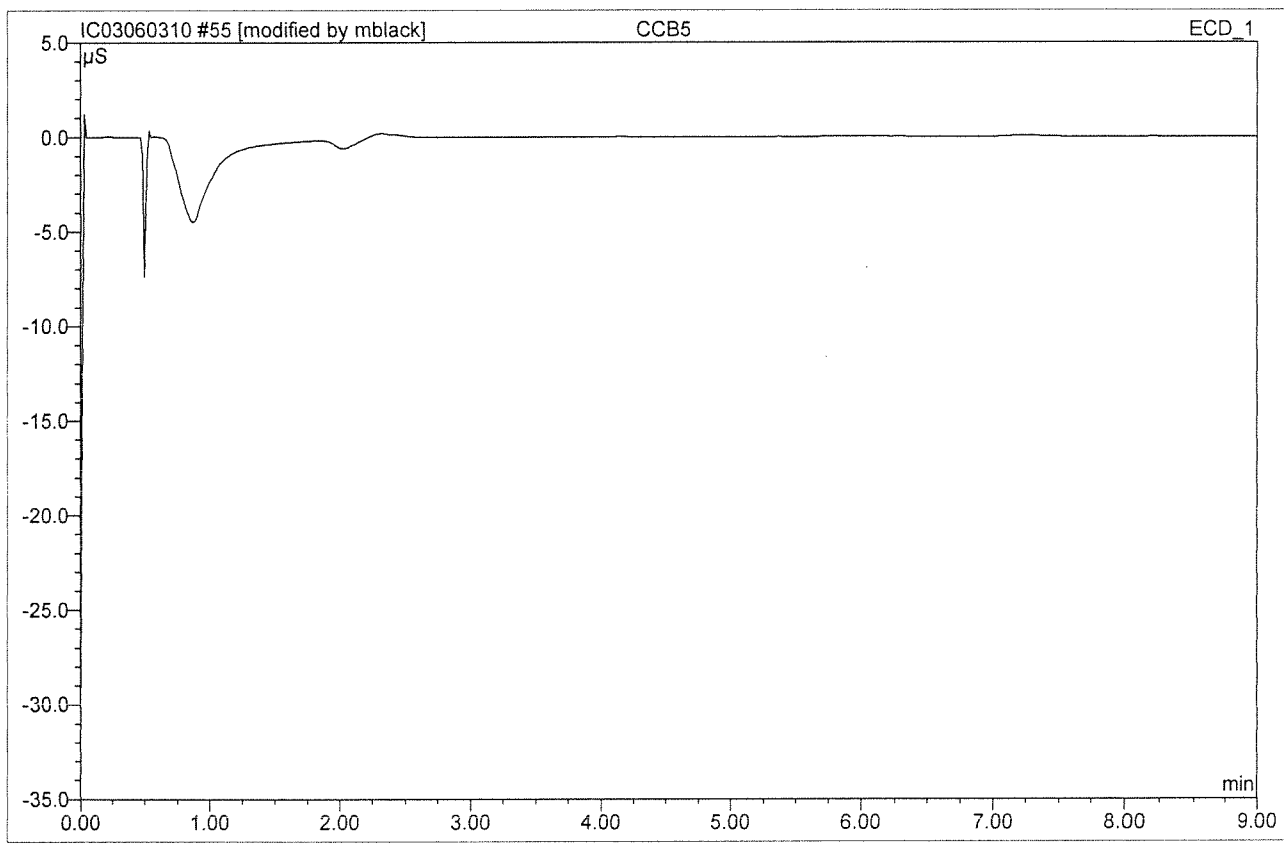


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	59.890	6.280	19.25	3.282	BMB
2	2.38	Chloride	62.876	7.590	23.27	4.867	BMB
3	2.85	Nitrite	39.292	5.640	17.29	1.953	bMb
4	3.53	Bromide	6.905	1.032	3.16	1.926	bMb
5	4.10	Nitrate	40.464	7.224	22.15	1.961	bMB
6	7.15	Sulfate	16.866	4.850	14.87	4.928	BMB
Total:			226.293	32.615	100.00	18.917	

Before

JUN 04 2010

55 CCB5			
CCB5			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 17:59	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



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

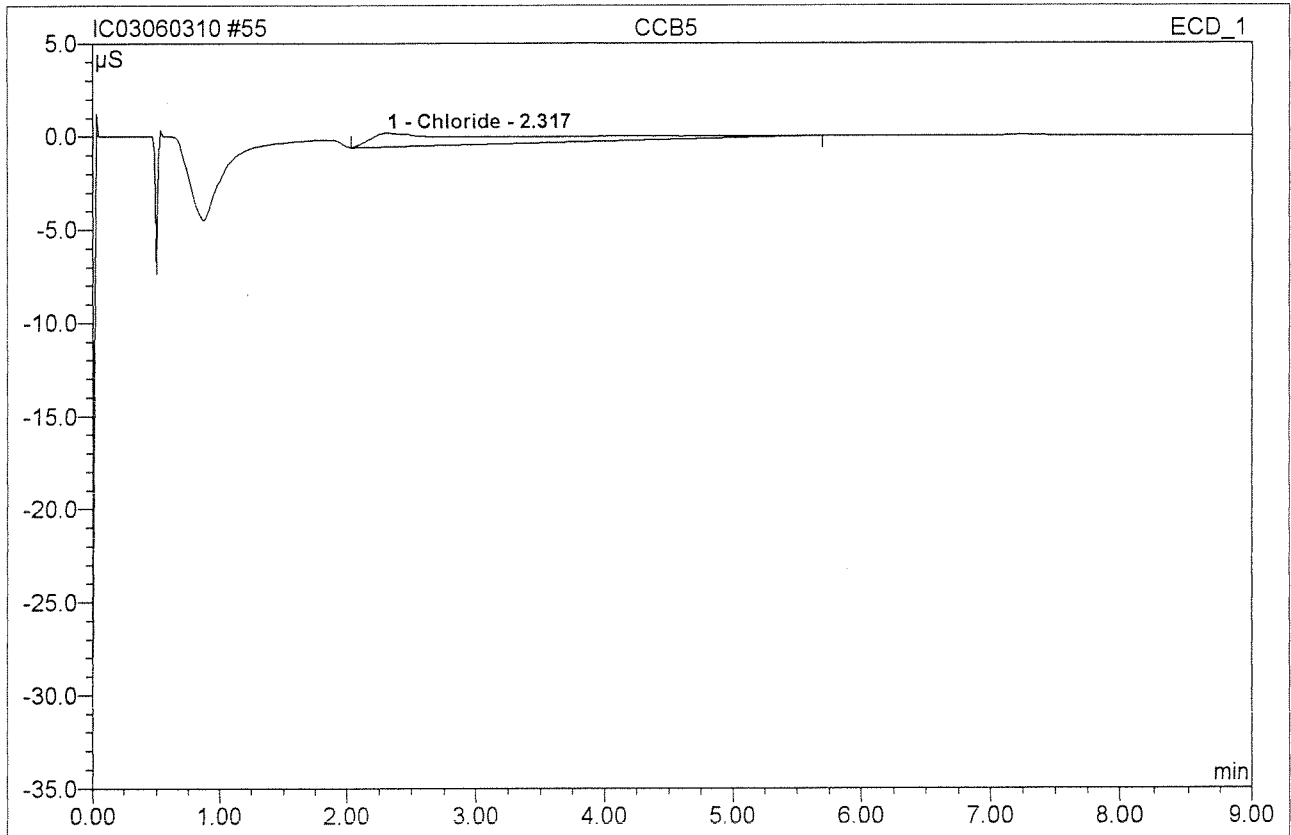
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JUN 04 2010

55 CCB5			
CCB5			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	52	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 17:59	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

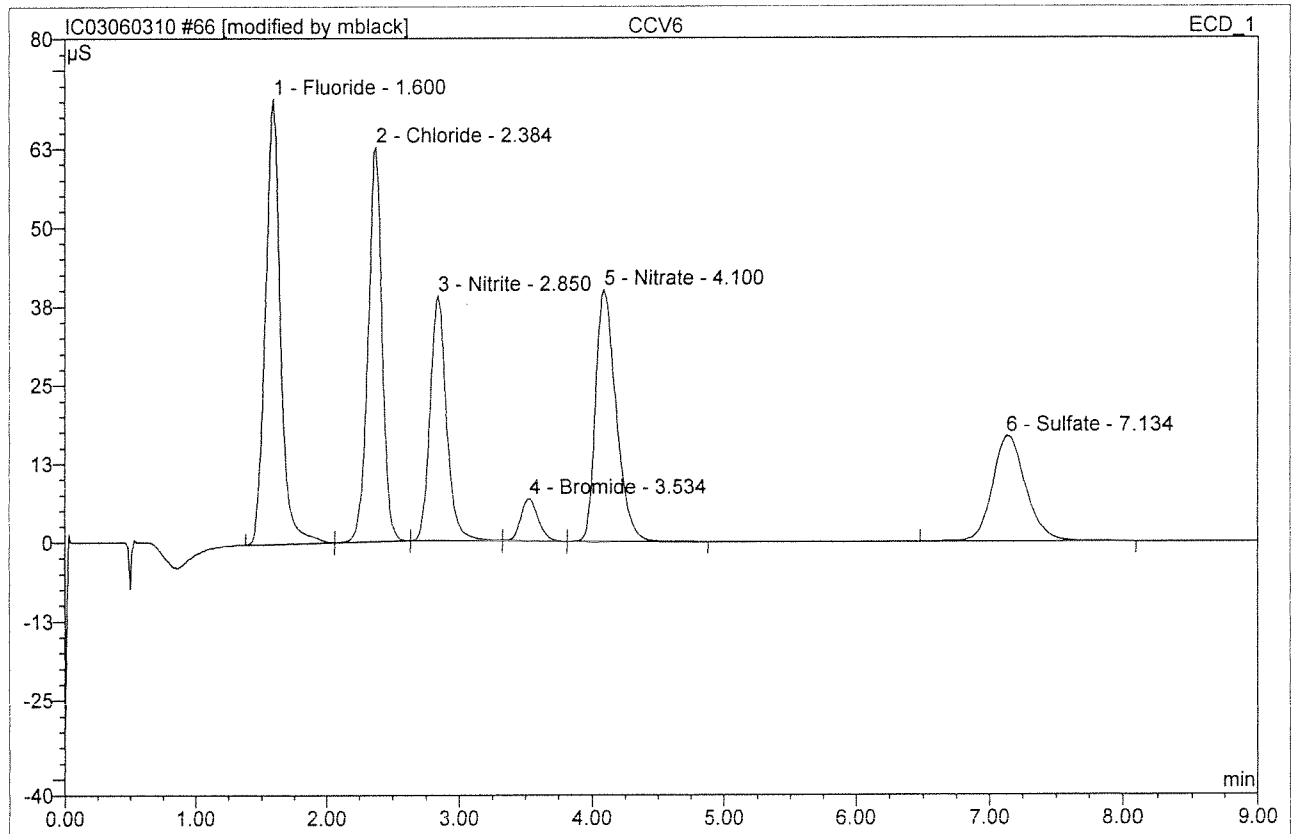


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.32	Chloride	0.739	1.036	100.00	0.664	BMB
Total:			0.739	1.036	100.00	0.664	

Before

JUN 04 2010

66 CCV6			
CCV6			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	63	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 20:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	70.721	9.430	26.29	4.928 ^{99?}	BMb*
2	2.38	Chloride	62.656	7.661	21.36	4.912 ^{98?}	bMb*
3	2.85	Nitrite	38.964	5.625	15.68	1.948 ^{98?}	bMb
4	3.53	Bromide	6.833	1.032	2.88	1.926 ^{97?}	bMb
5	4.10	Nitrate	40.035	7.253	20.22	1.969 ^{97?}	bMB
6	7.13	Sulfate	16.806	4.872	13.58	4.951 ^{99?}	BMB
Total:			236.015	35.872	100.00	20.634	

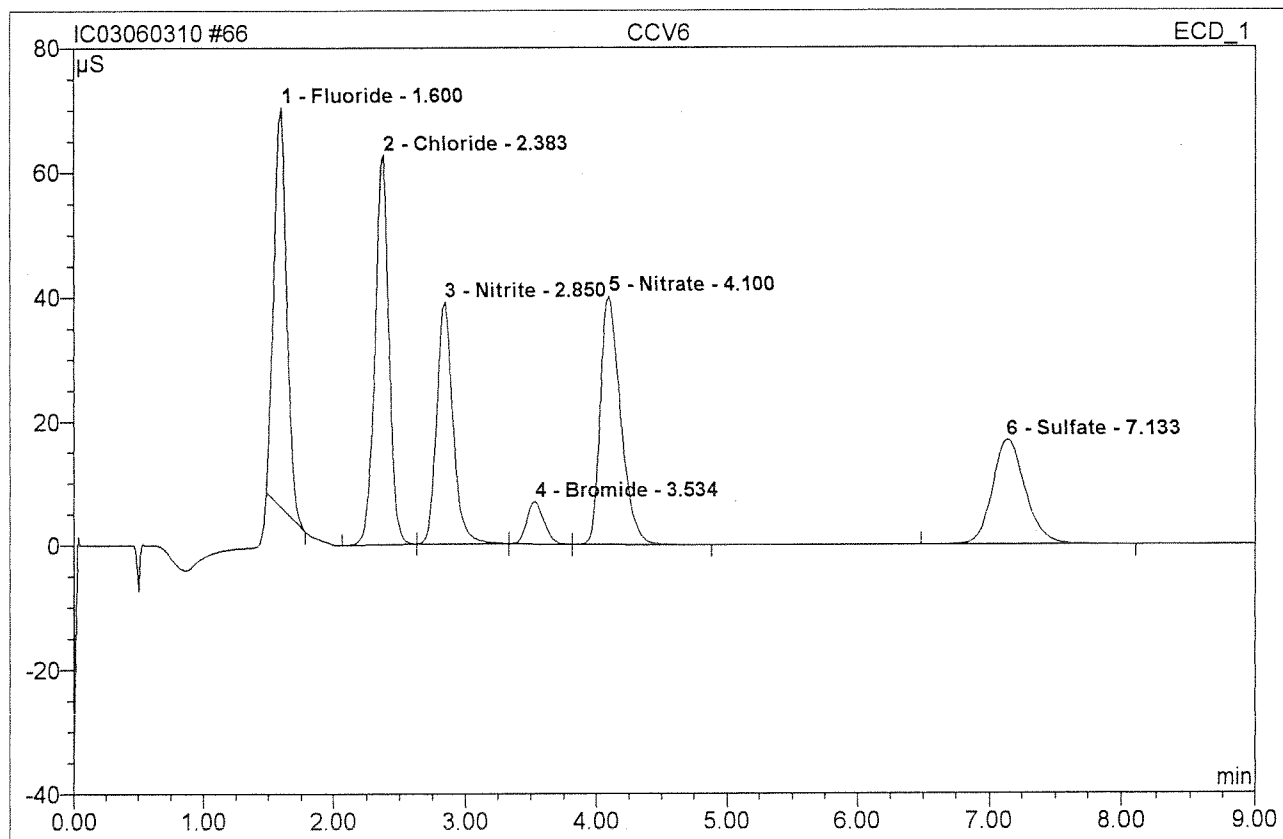
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66 CCV6			
CCV6			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	63	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 20:05	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

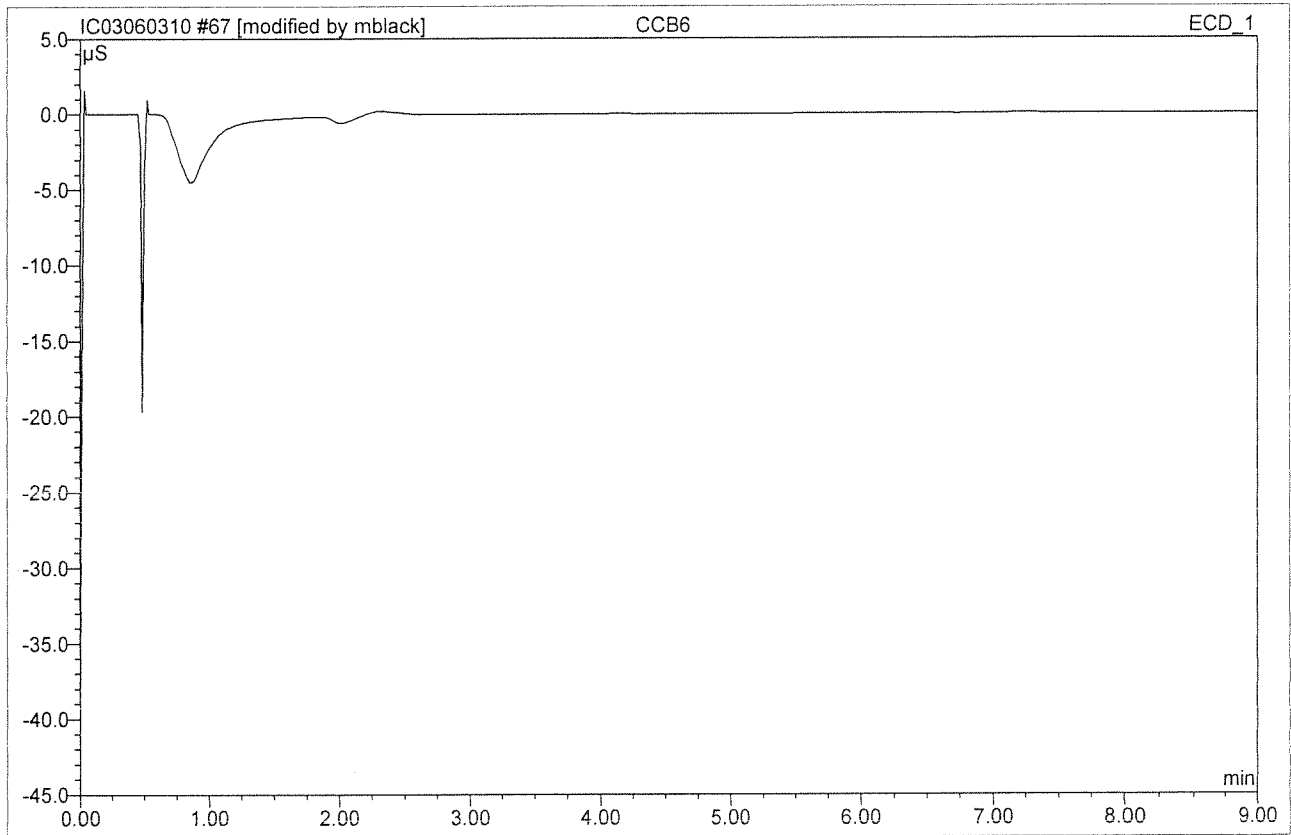


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	64.296	7.288	21.61	3.809	BMB
2	2.38	Chloride	62.656	7.661	22.71	4.912	BMB
3	2.85	Nitrite	38.964	5.625	16.68	1.948	bMB
4	3.53	Bromide	6.833	1.032	3.06	1.926	bMB
5	4.10	Nitrate	40.035	7.253	21.50	1.969	bMB
6	7.13	Sulfate	16.806	4.872	14.45	4.951	BMB
Total:			229.591	33.730	100.00	19.515	

Before

JUN 04 2010

67 CCB6			
CCB6			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 20:17	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



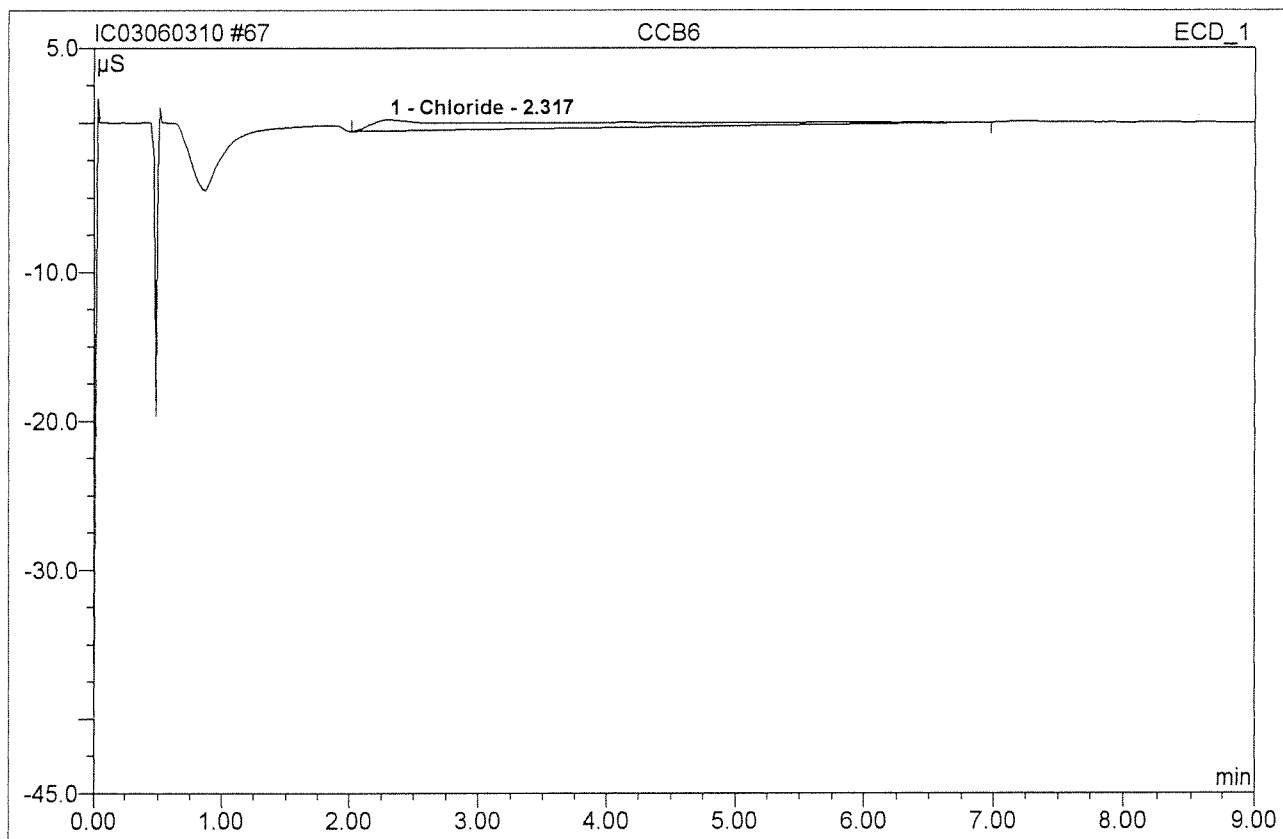
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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2010 6 4 2010

67 CCB6			
CCB6			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 20:17	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

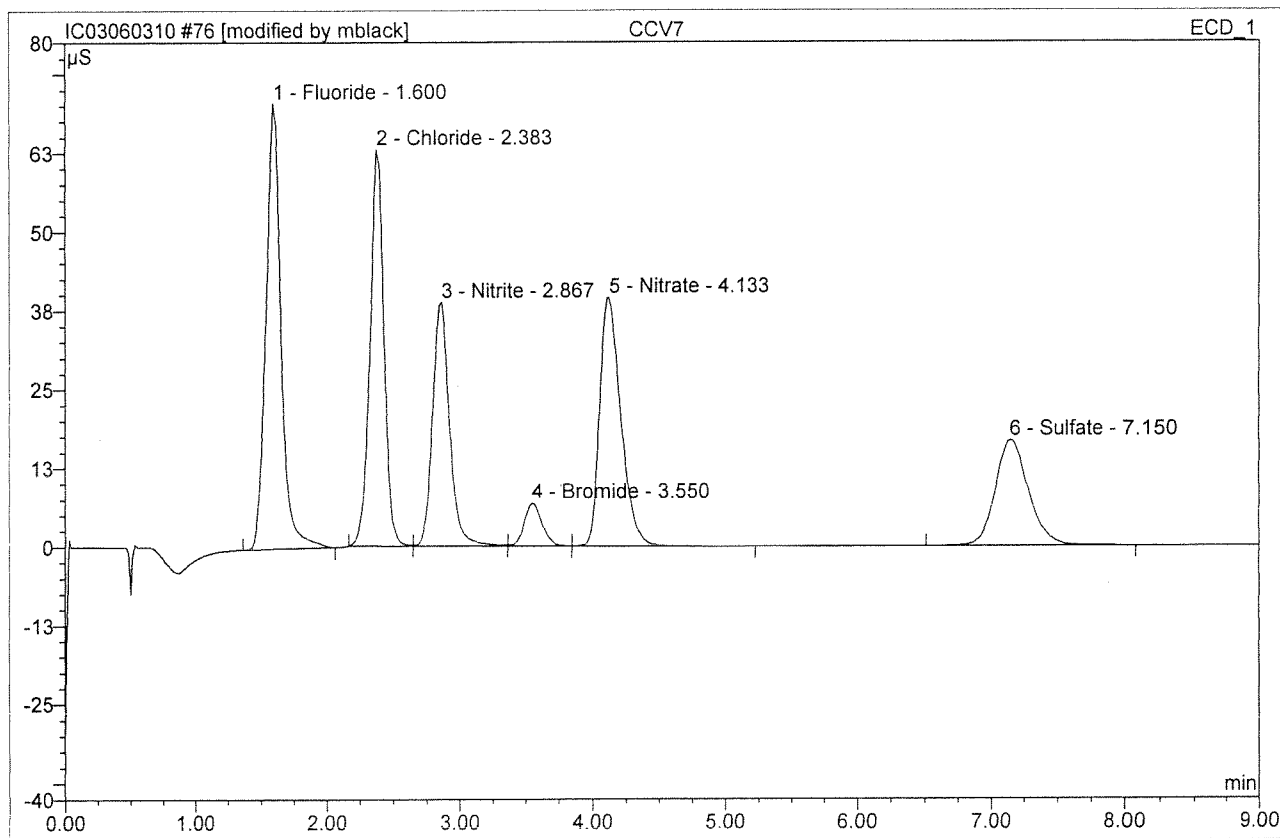


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.32	Chloride	0.758	1.419	100.00	0.910	BMB
Total:			0.758	1.419	100.00	0.910	

Before

JUN 04 2010

76 CCV7			
CCV7			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	73	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 22:00	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

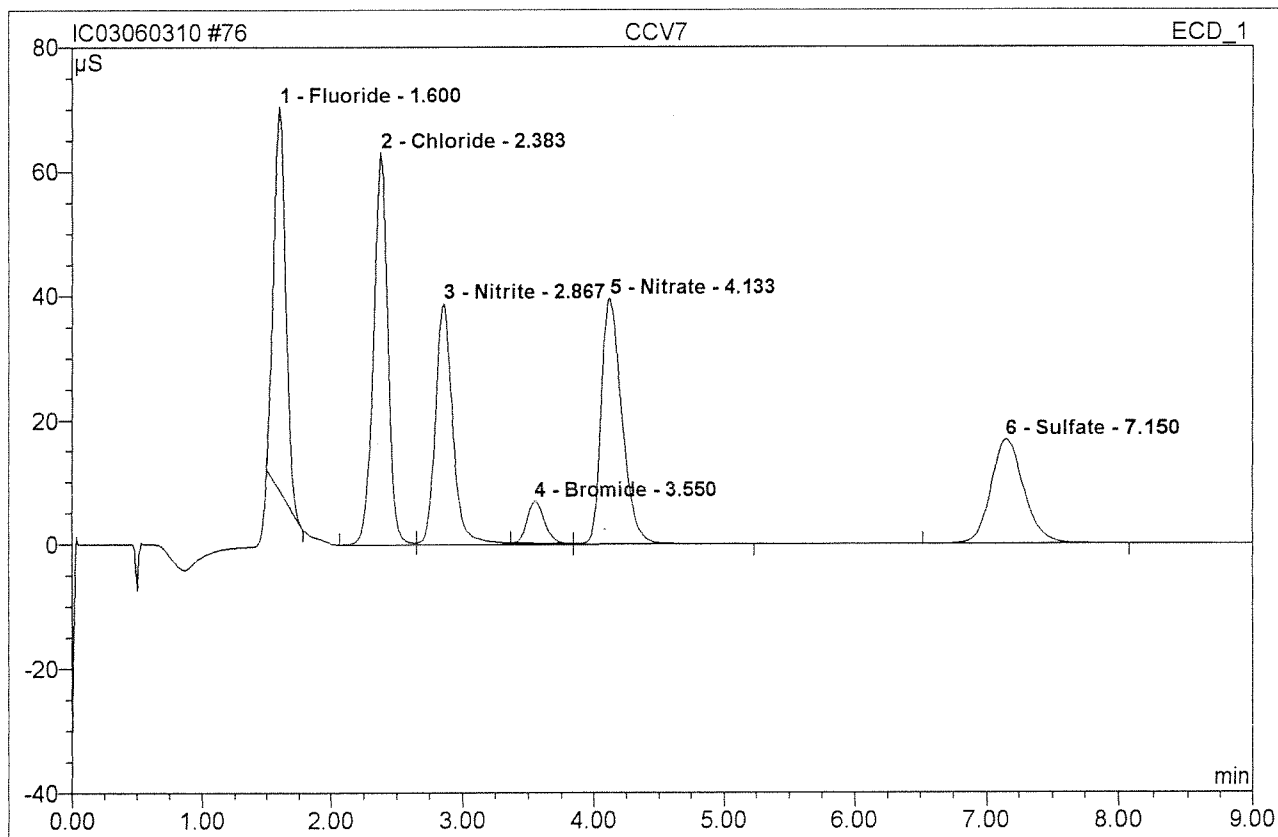


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	70.698	9.415	26.17	4.921 ^{98?}	BMB*
2	2.38	Chloride	62.931	7.631	21.21	4.893 ^{98?}	BM *
3	2.87	Nitrite	38.630	5.729	15.92	1.984 ^{99?}	M *
4	3.55	Bromide	6.847	1.064	2.96	1.986 ^{100?}	M *
5	4.13	Nitrate	39.447	7.249	20.15	1.968 ^{99?}	MB*
6	7.15	Sulfate	16.828	4.890	13.59	4.969 ^{99?}	BMB
Total:			235.381	35.979	100.00	20.721	

MB

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76 CCV7			
CCV7			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	73	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 22:00	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

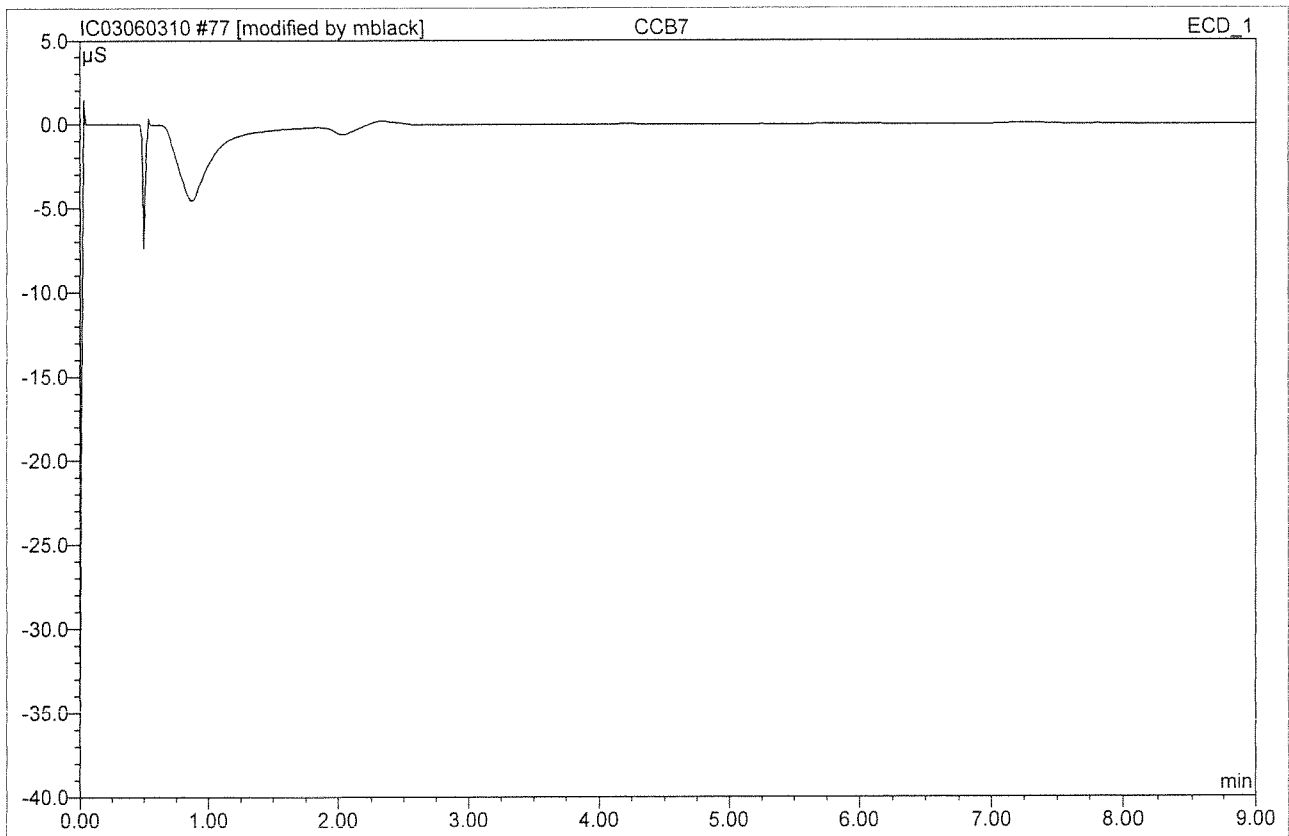


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	61.679	6.713	19.95	3.509	BMB
2	2.38	Chloride	63.156	7.746	23.02	4.967	BM
3	2.87	Nitrite	38.817	5.946	17.67	2.059	M
4	3.55	Bromide	6.774	1.036	3.08	1.933	Rd
5	4.13	Nitrate	39.534	7.325	21.76	1.988	MB
6	7.15	Sulfate	16.828	4.890	14.53	4.969	BMB
Total:			226.787	33.656	100.00	19.425	

Before

JUN 04 2010

77 CCB7			
CCB7			
Sample Name:	CCB7	Injection Volume:	200.0
Vial Number:	74	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 22:11	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

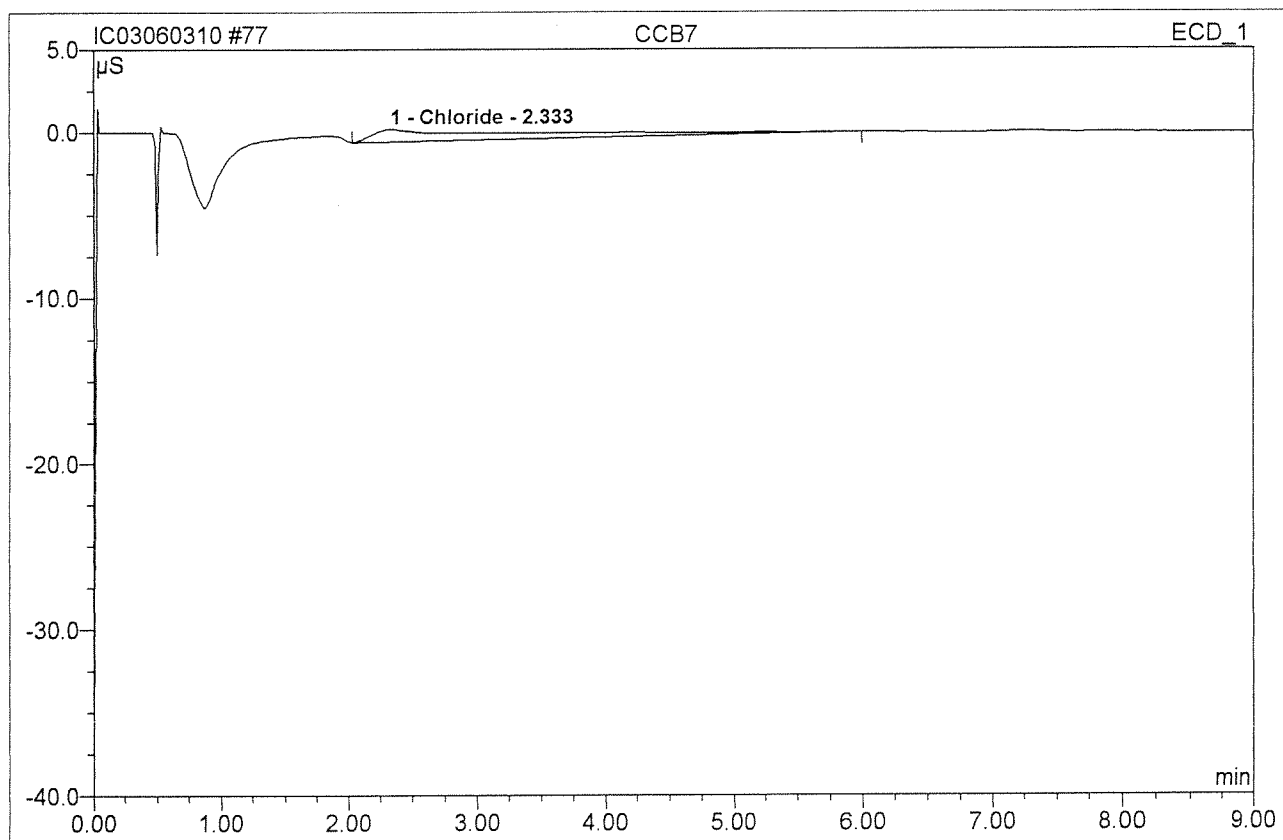


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

5774
 mblack
 6/4/2010
 MB

6/4/10

77 CCB7			
CCB7			
Sample Name:	CCB7	Injection Volume:	200.0
Vial Number:	74	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 22:11	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

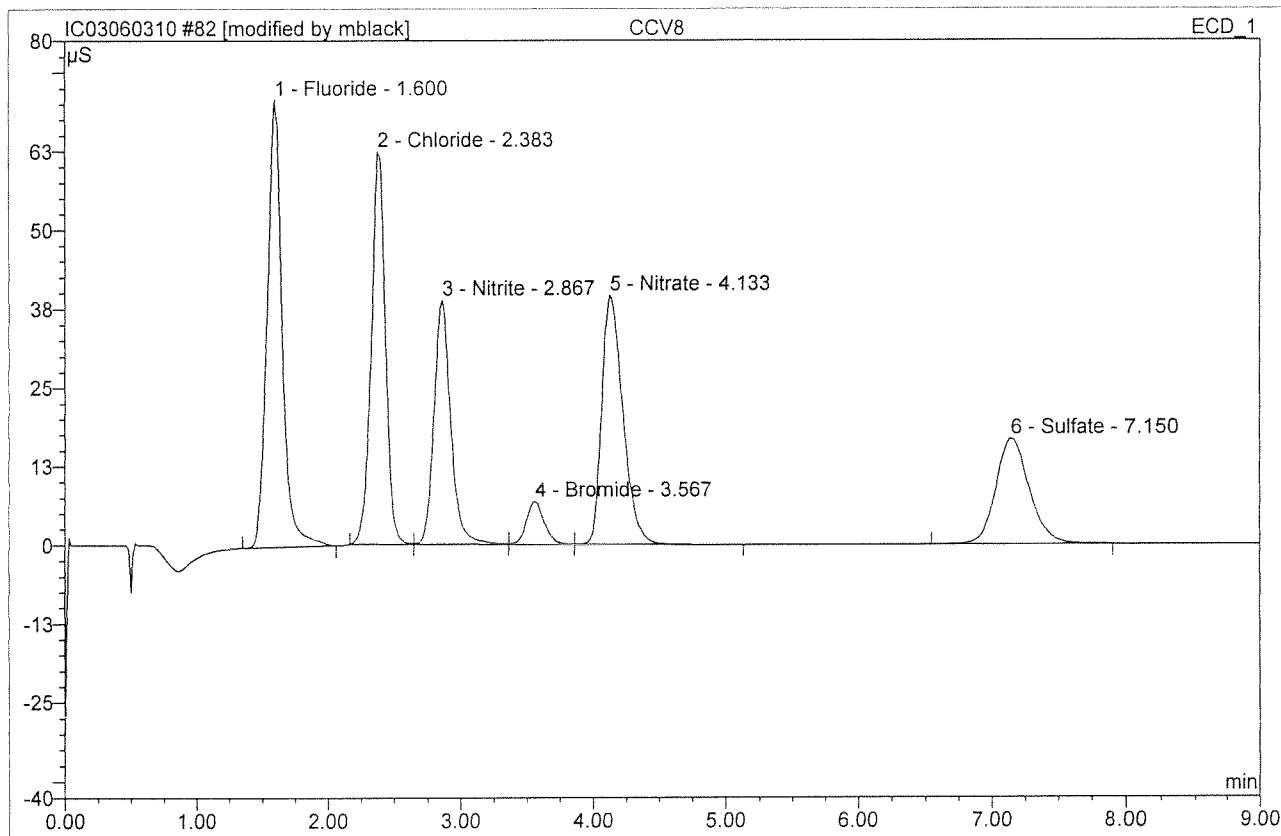


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.760	1.106	100.00	0.709	BMB
Total:			0.760	1.106	100.00	0.709	

Before

JUN 04 2010

82 CCV8			
CCV8			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	79	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 23:09	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



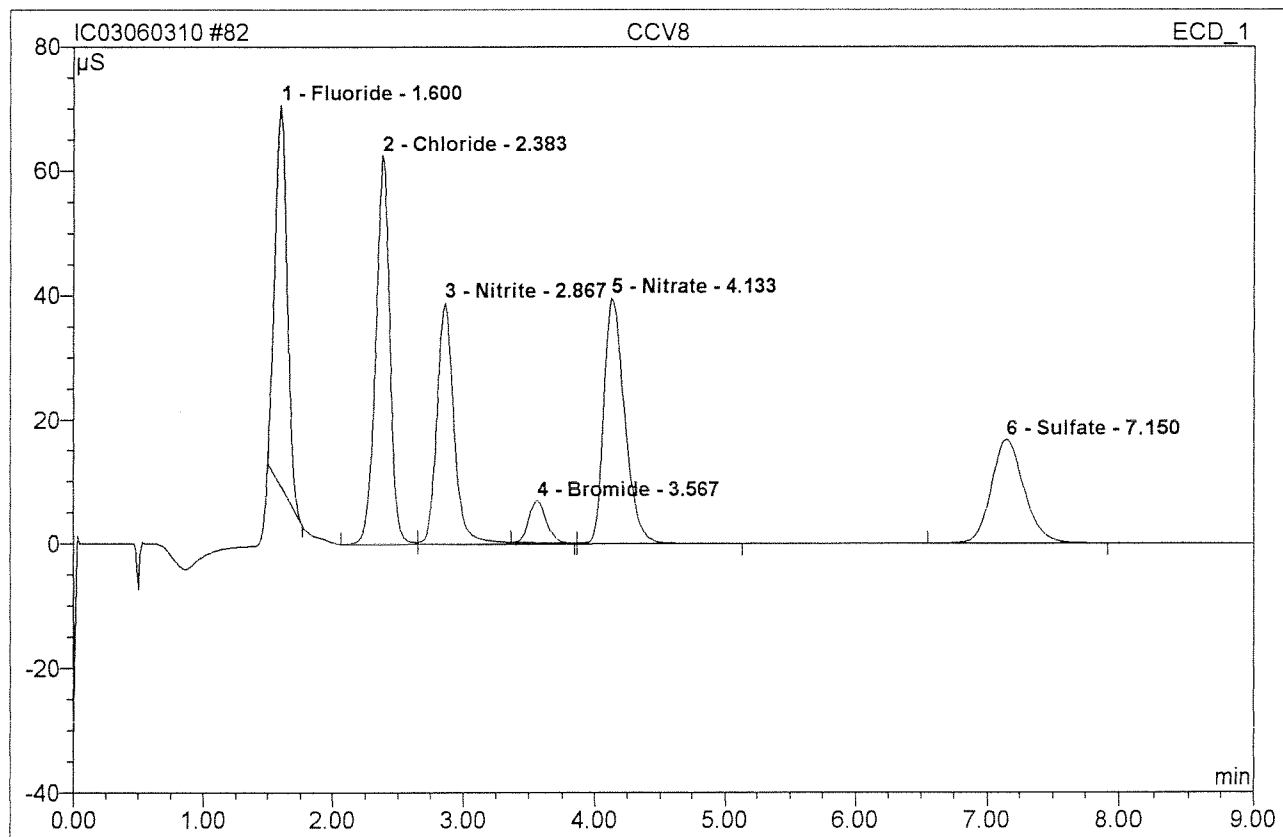
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	70.996	9.525	26.34	4.978/100%	BMB*
2	2.38	Chloride	62.314	7.673	21.22	4.920/85%	BM *
3	2.87	Nitrite	38.738	5.727	15.84	1.984/99%	M *
4	3.57	Bromide	6.835	1.072	2.96	2.001/100%	M *
5	4.13	Nitrate	39.506	7.291	20.16	1.979/99%	MB*
6	7.15	Sulfate	16.823	4.879	13.49	4.958/99%	BMB
Total:			235.213	36.168	100.00	20.821	

After
10/10
MB

6/4/2010

7/6/4/10

82 CCV8			
CCV8			
Sample Name:	CCV8	Injection Volume:	200.0
Vial Number:	79	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 23:09	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

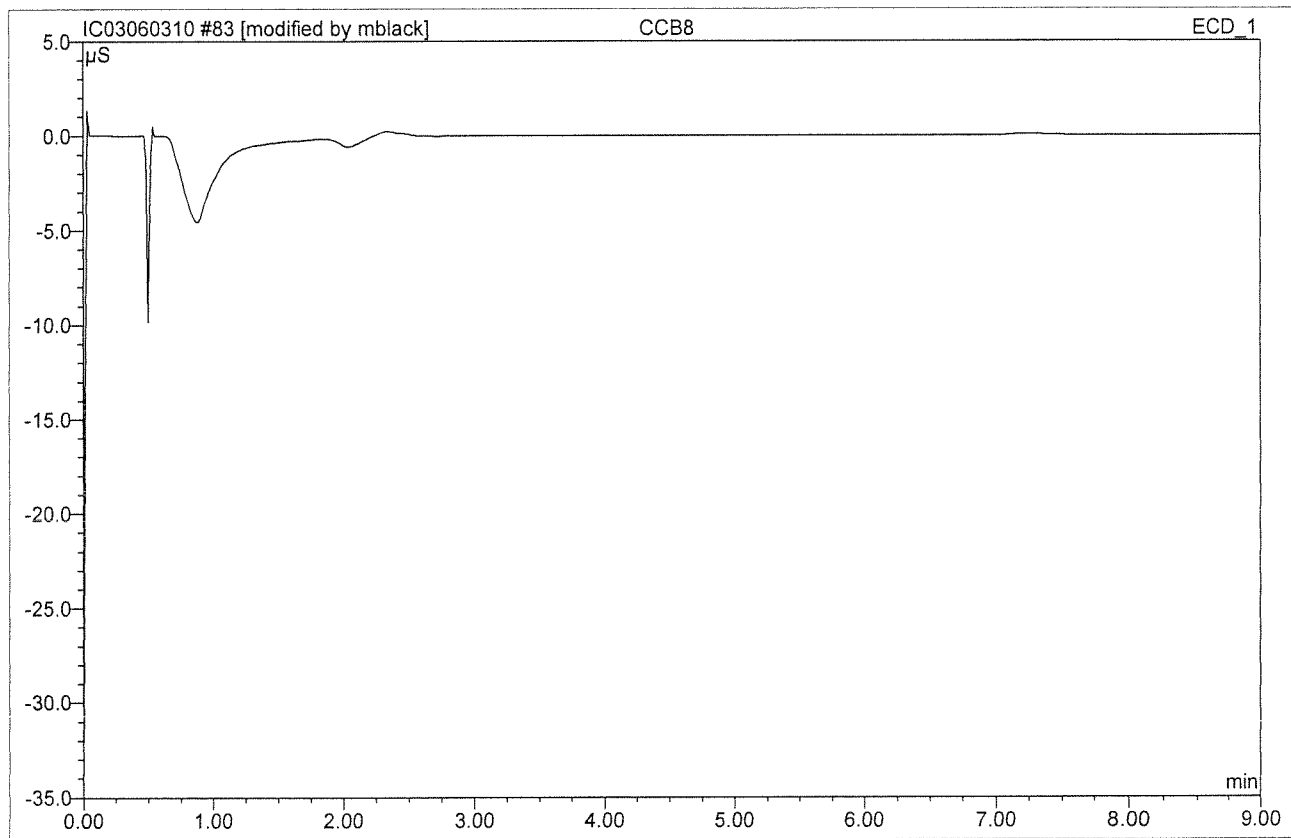


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	61.399	6.668	19.82	3.485	BMB
2	2.38	Chloride	62.515	7.776	23.12	4.986	BM
3	2.87	Nitrite	38.903	5.928	17.62	2.053	M
4	3.57	Bromide	6.754	1.038	3.09	1.938	Rd
5	4.13	Nitrate	39.579	7.349	21.85	1.995	MB
6	7.15	Sulfate	16.823	4.879	14.50	4.958	BMB
Total:			225.973	33.638	100.00	19.415	

Before

JUN 04 2010

83 CCB8			
CCB8			
Sample Name:	CCB8	Injection Volume:	200.0
Vial Number:	80	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 23:20	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



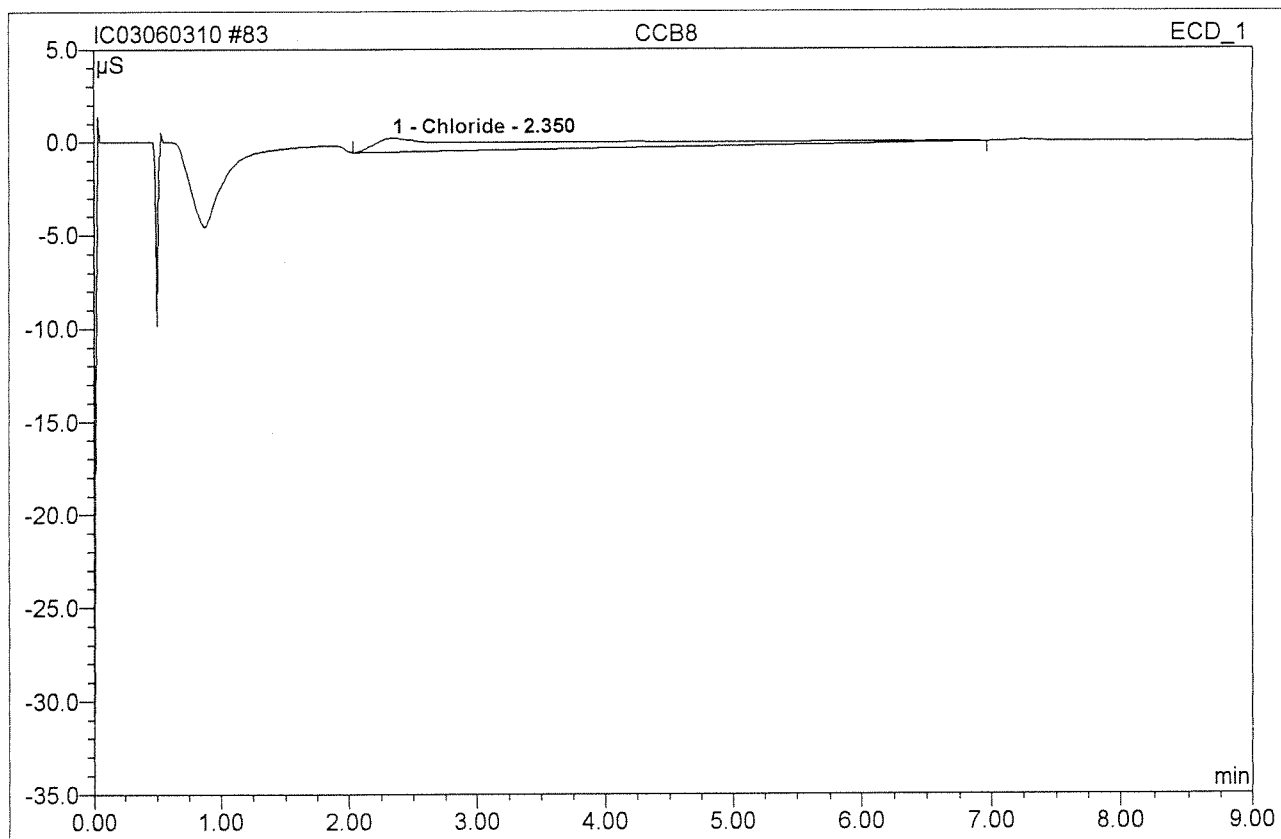
No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

After
mblack

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6/4/10

JUN 04 2010

83 CCB8			
CCB8			
Sample Name:	CCB8	Injection Volume:	200.0
Vial Number:	80	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/3/2010 23:20	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.35	Chloride	0.768	1.391	100.00	0.892	BMB
Total:			0.768	1.391	100.00	0.892	

Before

JUN 04 2010

Work Request # ^{Original} (K4930) K4934 K4935 K4946 K4972 K4973 K5058
 Tier: I III II A III I I IA
 Date Analyzed: 05/21/10
 Analyst: Hanyun
 Analysis: NH₃ - 350.1 / SM 4500-NH₃ G 201735

**DATA QUALITY REPORT
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

Final Approved by: SAH Date: 5/21/10 DQREPORT

OTH 05/21/10

I III IA III I I IA
 K4930, K4934, K4935, K4946, K4972, K4973, K5058

BRAN+LUEBBE

Post-run report

Name of Run : 100521A
 Date of Report : 5/21/2010
 Date of Run : 5/21/2010
 Operator :
 Comment :

Name of Analysis : Ammonia
 System No. : 1
 Type of System : AA3
 Start/Stop time : 09:59 - 11:10

Channel :
 Method :
 Unit :
 Calibr. Fit :
 Corr. Coeff. :
 Base :
 Gain :
 Sensitivity :
 Sample Limit 1 :
 Sample Limit 2 :

2
 Method 2
 mg/L
 Linear
 0.9997
 -19567
 20
 0.4391

LCS ID#: B+LNH₃/-34-J T.V.=14.3
 Spike ID#: B+LNH₃/-85-D T.V.=2.00
 Curve, CCV ID#: B+LNH₃/-55-X T.V.=2.00
 MB MS = 2.00

Pk	Cup	Sample Id	Value
0	0	B Baseline	0.0058
1	1	P Primer	5.0149
2	1	D Drift	5.0241
3	1	C 5.00	5.0324
4	2	C 2.00	1.9039
5	3	C 0.50	0.5347
6	4	C 0.05	0.0681
7	5	C 0	0.0110
8	0	B Baseline	0.0058
9	1	H1 High	5.0368
10	0	L1 Low	0.0262
11	0	L1 Low	0.0262
12	5	QC2 CCB1	0.0205
13	2	QC1 CCV1	1.9047
14	10	QC3 LCS1*10	1.4688
15	11	S MB MS	1.9053
16	0	N Null	0.0103N
17	5	QC2 MB1	0.0222
18	12	S k1004930-004*5	1.3524
19	13	S k1004930-005*5	1.3231
20	14	S k1004934-001	0.0301
21	15	S k1004934-001d	0.0072
22	16	S k1004934-001ms	2.0920
23	0	B baseline	0.0058
24	5	QC2 CCB2	0.0112
25	2	QC1 CCV2	1.8941
26	17	S k1004934-001msd	2.0921

0.0217 95%
 1.90 103%
 1.91 96%
 0.0227
 6.76
 6.62
 0.0307
 <0.020
 2.09 103%
 <0.020
 1.89 95%
 2.09 103%

$\bar{x} = NC$ RPD = NC

SP
 5/21/10

05/21/10
 Thompson

27	18	S	k1004934-002	0.0162	<0.020	
28	19	S	k1004934-003	0.0341	0.0347	
29	20	S	k1004934-004	0.0130	<0.020	
30	21	S	k1004934-005	0.0022	<0.020	
31	22	S	k1004934-006	0.0102	<0.020	
32	23	S	k1004934-007	0.0056	<0.020	
33	24	S	k1004934-008	0.0034	<0.020	
34	25	S	k1004935-001	0.0035	<0.050	
35	0	B	BASELINE	0.0058		
36	5	QC2	CCB-3	0.0155	<0.020	
37	2	QC1	CCV-3	1.9023	1.90	95%
38	26	S	k1004946-009	0.0587	0.059	$\bar{x} = 0.059$ RPD < 1%
39	27	S	k1004946-009d	0.0587	0.059	
40	28	S	k1004946-009ms	2.0627	2.06	100%
41	29	S	k1004946-009msd	2.1218	2.12	103%
42	30	S	k1004946-010	0.0606	0.061	
43	31	S	k1004972-001*5	2.7149	13.6	
44	32	S	k1004973-001	0.0312	<0.050	
45	33	S	k1005058-001	0.0230	<0.050	
46	34	S	k1005058-002	0.0136	<0.050	
47	0	B	Baseline	0.0058		
48	5	QC2	CCB4	0.0176	<0.020	
49	2	QC1	CCV4	1.8986	1.90	95%
50	35	S	spike=2ppm	2.0055		
51	0	B	Baseline	0.0058		} NR
52	5	QC2	CCB5	0.0140		
53	2	QC1	CCV5	1.9021		
54	1	D	Drift	5.0241		
55	0	B	Baseline	0.0058		
56	0	B	FinalBase	0.0058		

QC Limits

Channel	:	2
QC 1	:	Unused
QC 2	:	Unused
QC 3	:	Unused
QC 4	:	Unused
QC 5	:	Unused
QC 6	:	Unused
QC 7	:	Unused
QC 8	:	Unused
QC 9	:	Unused
QC10	:	Unused

SAH
5/21/10

CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:	:	0.3

05/21/10
Hougen

* ... Sample offscale
+ ... Result higher than sample limit
- ... Result lower than sample limit
P ... Standard passed
F ... Standard failed
N ... Value not calculated or not used
R ... Resample after offscale
M ... Peak marker moved manually
D ... Diluted sample

** <END OF REPORT> **

Sretl
5/21/10

05/21/10
Fauger

BRAN+LUEBBE

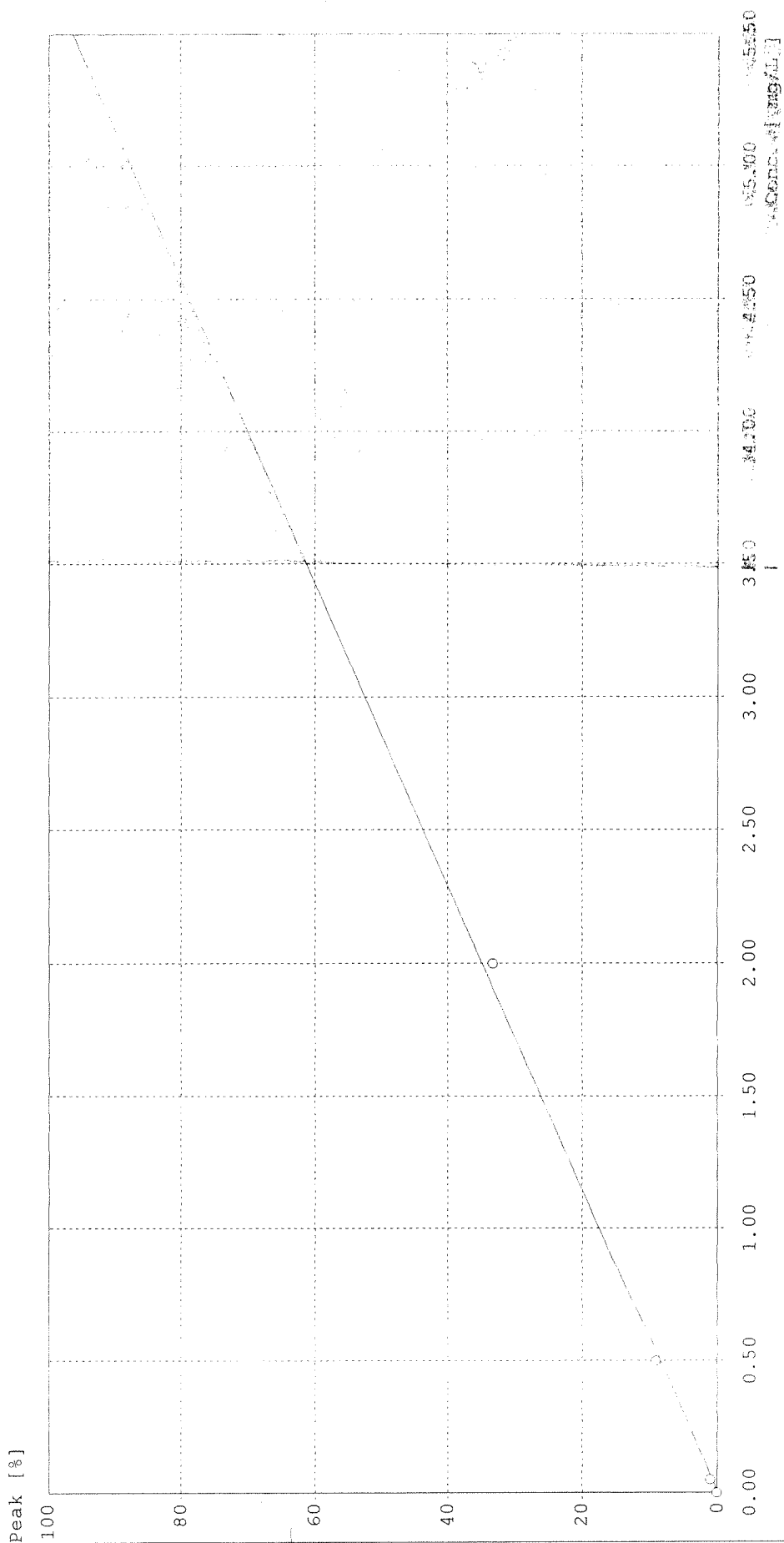
Calibration Curve

Name of run : 100521A.run

Comment :

BRAN+LUEBBE ANALYSIS - 100521A

Channel : 2
 Method : Method 2
 Curve fit : linear a=-2.9706E-001 b=8.7059E-005
 Corr. coeff. : 0.9997



5/21/10

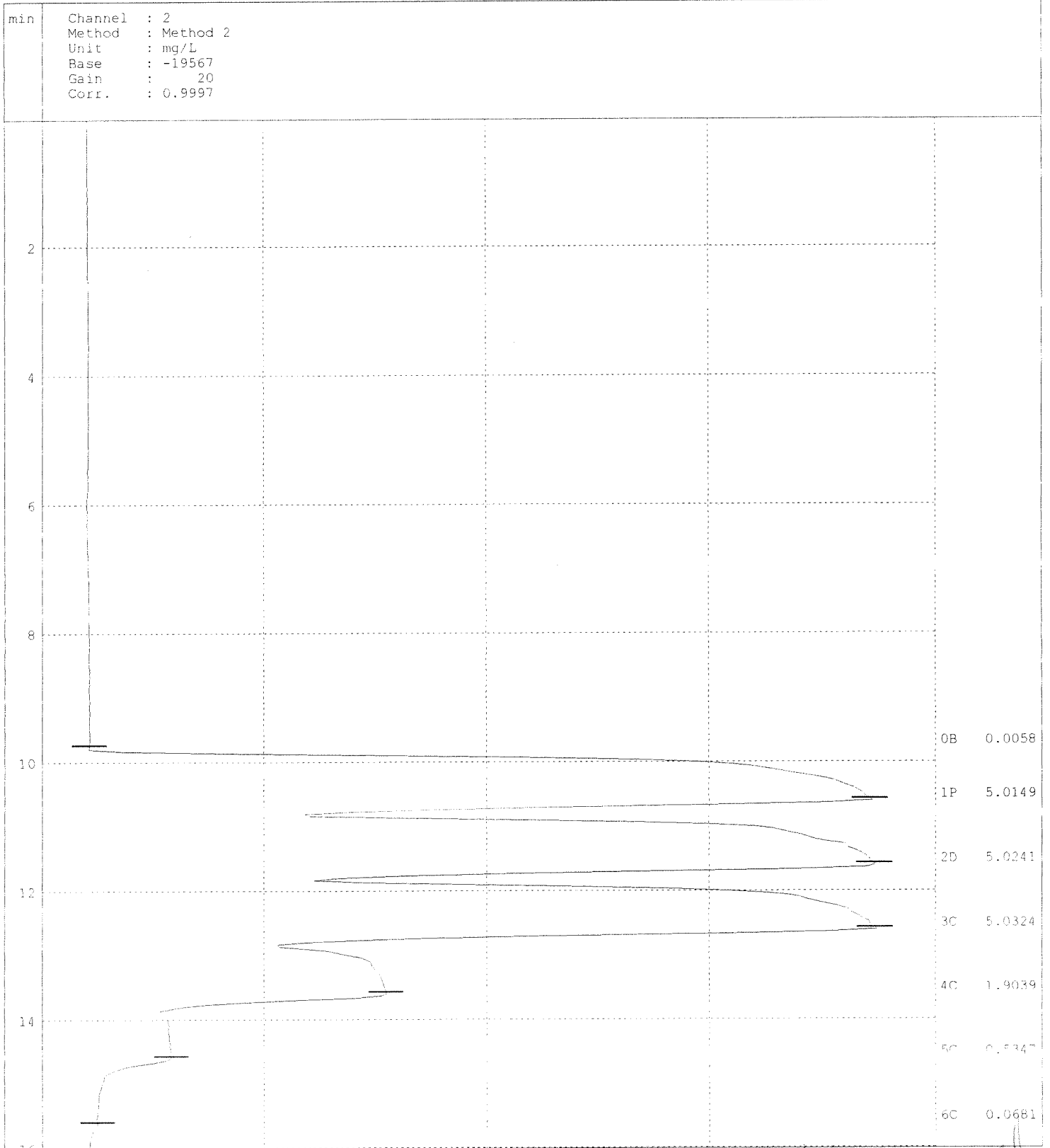
*05/21/10
Kuyumcu*

BRAN+LUEBBE

Post-run chart

Name of run :100521A.RUN
Comment :

Name of analysis :Ammonia

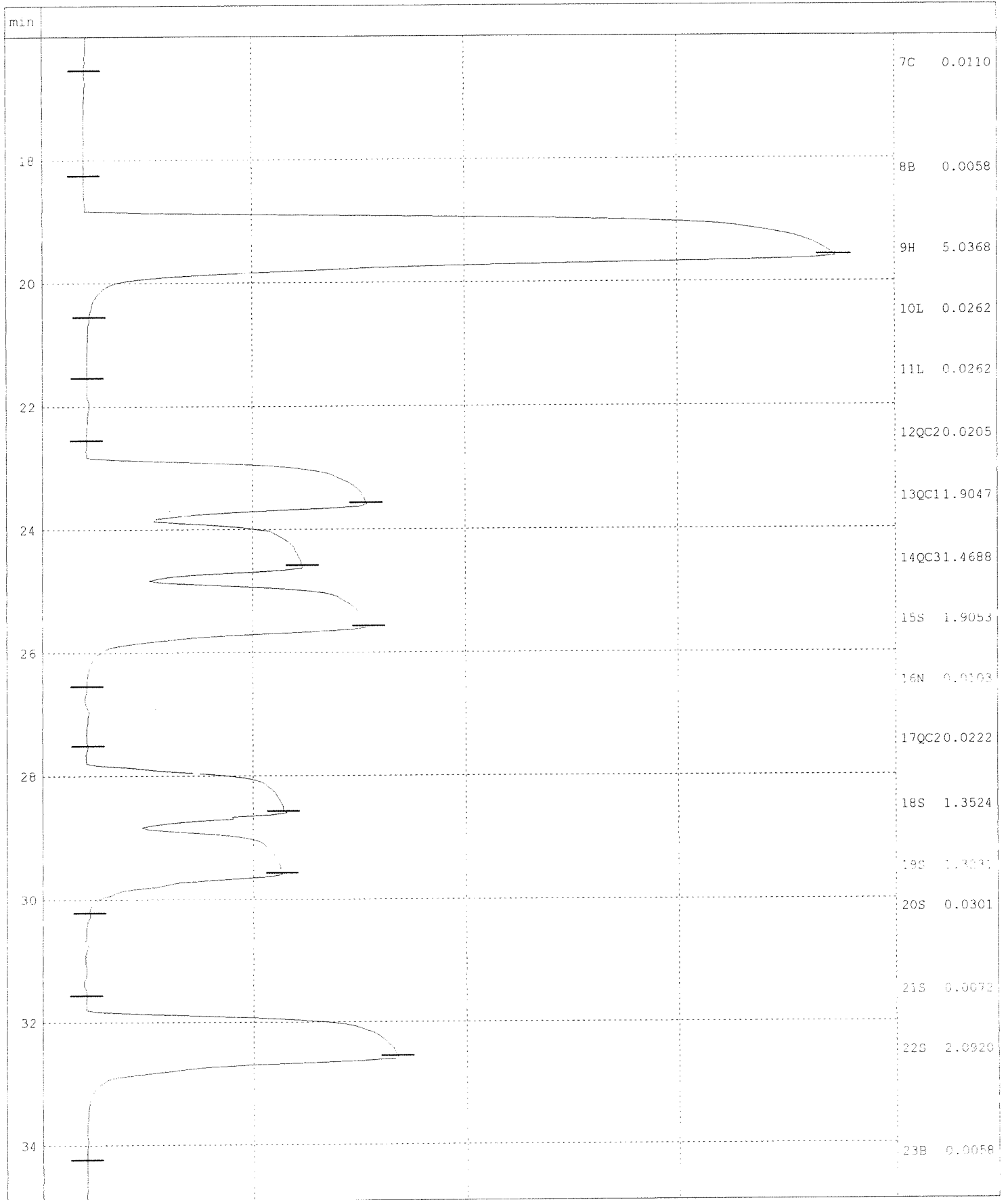


05/21/10
Haugen

5/21/10

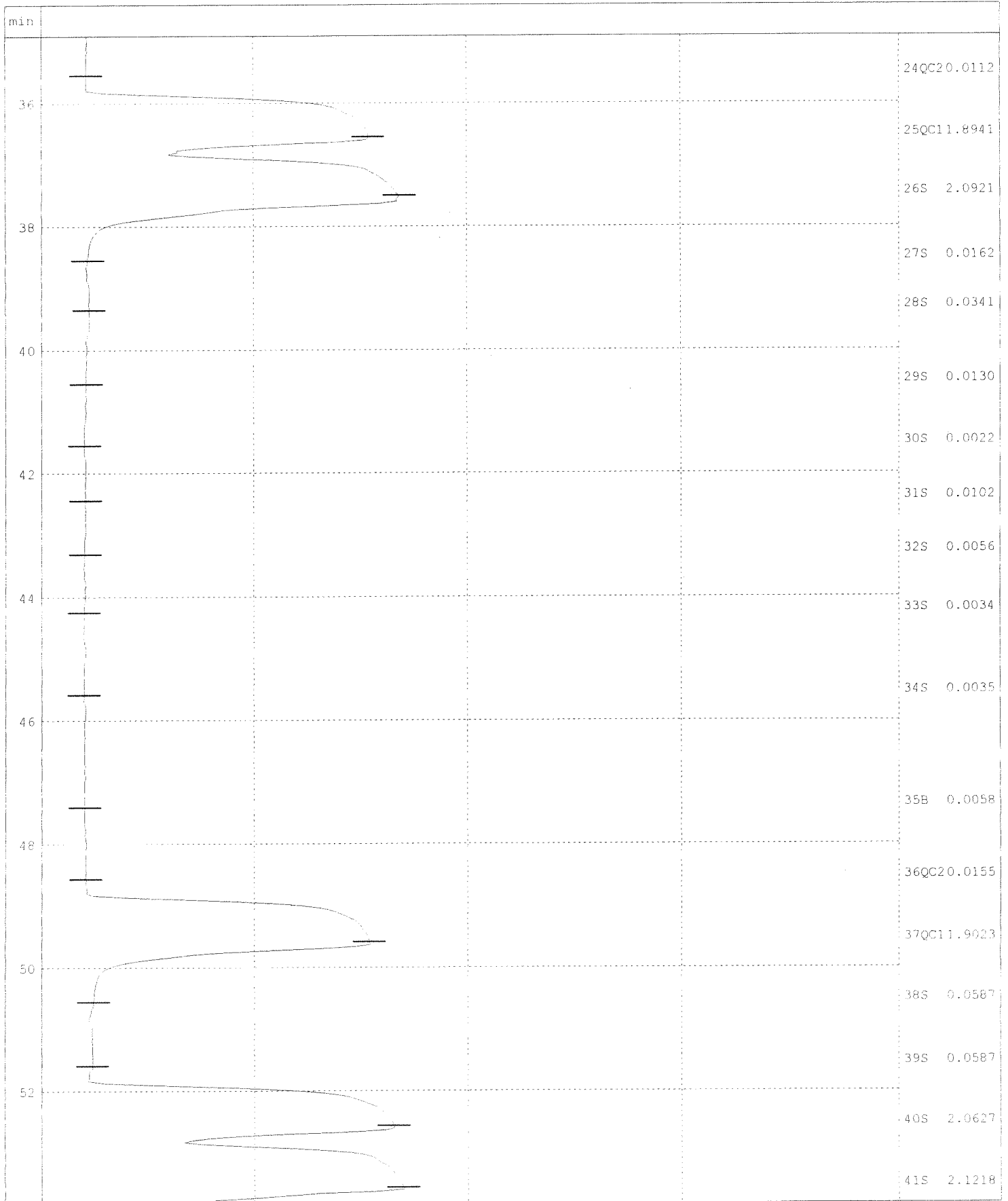
Name of run :100521A.RUN
Comment :

Name of analysis :Ammonia



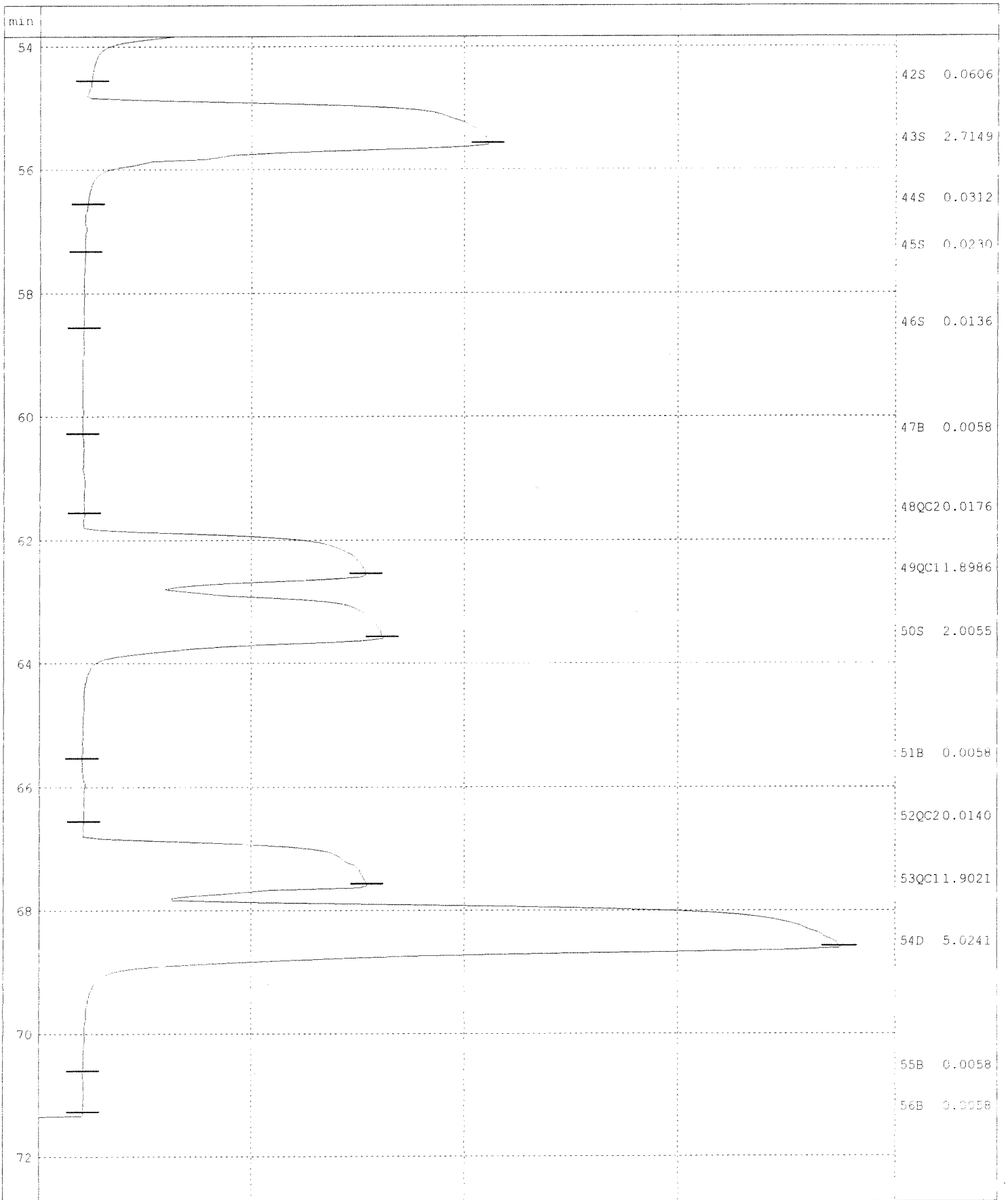
Name of run :100521A.RUN
Comment :

Name of analysis :Ammonia



Name of run :100521A.RUN
Comment :

Name of analysis :Ammonia



Work Request # ^{Original} (K4934) _____
 Tier: 1 _____
 Date Analyzed: 05/15/10 _____
 Analyst: Hungary _____
 Analysis: NO₃ - 353.2 _____

200834

**DATA QUALITY REPORT
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate? yes/no/NA
- 2. Holding times met for all analyses and for all samples? yes/no/NA
- 3. Are calculations correct? yes/no/NA
- 4. Is the reporting basis correct? (Dry Weight) yes/no/NA
- 5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
- 6. Are all service requests that apply attached? yes/no/NA
- 7. Are all samples labelled correctly? yes/no/NA
- 8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
- 9. Are detection limits and units reported correctly? yes/no/NA
- 10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
- 11. Is the unused space on the benchsheet crossed out? yes/no/NA
- 12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

Final Approved by: [Signature] Date: 5/17/10 DQREPORT

24934

BRAN+LUEBBE

Post-run report

Name of Run : 100515C
 Date of Report : 5/15/2010
 Date of Run : 5/15/2010
 Operator :
 Comment :

Name of Analysis : Nitrite.ANL
 System No. : 1
 Type of System : AA3
 Start/Stop time : 13:26 - 14:13

Channel :
 Method : Method 2
 Unit :
 Calibr. Fit : Linear
 Corr. Coeff. : 1.0000
 Base : -20655
 Gain : 5
 Sensitivity : 1.6631
 Sample Limit 1 :
 Sample Limit 2 :

LCS ID#: AN/11-27-Y T.V.=4.00
 (0.4 mL x 100 ppm / 10 mL = 4.00 ppm)
 Spike ID#: B+LNO₃/-94-X T.V.=2.00
 Curve, CCV ID#: B+LNO₃/-80-S T.V.=2.00

Pk	Cup	Sample Id	Value
0	0	B Baseline	0.0036
1	1	P Primer	4.9636
2	1	D Drift	4.9866
3	1	C 5.00	5.0070
4	2	C 2.00	1.9823
5	3	C 0.50	0.4992
6	4	C 0.05	0.0549
7	5	C 0	0.0066
8	1	H1 High	4.9478
9	0	L1 Low	0.0145
10	0	L1 Low	0.0077
11	5	QC2 CCB1	0.0068
12	2	QC1 CCV1	1.9433
13	10	QC3 LCS1	3.9730
14	0	N Null	0.0180N
15	5	QC2 MB1	0.0096
16	11	S k1004934-001	0.0060
17	12	S k1004934-001d	0.0071
18	13	S k1004934-001ms	1.9990
19	14	S k1004934-001msd	2.0415
20	15	S k1004934-002	0.0129
21	16	S k1004934-003	0.0388
22	0	B Baseline	0.0025
23	5	QC2 CCB2	0.0044
24	2	QC1 CCV2	1.9651
25	17	S k1004934-004	0.0099
26	18	S k1004934-005	0.0067

0.0077
 1.94 97%
 3.97 99%
 0.0107
 0.0067
 0.0077
 2.00 100%
 2.04 102%
 $\bar{x} = 0.007$ RPD = 14%
 0.0137
 0.0397
 0.0047 99%
 1.97
 0.0107
 0.0077

5/17/10
 5/15/10
 [Signature]

27	19	S	k1004934-006	0.0064	0.0067
28	20	S	k1004934-007	0.0062	0.0067
29	21	S	k1004934-008	0.0064	0.0067
30	0	B	Baseline	0.0035	
31	5	QC2	CCB3	0.0054	0.0057
32	2	QC1	CCV3	1.9599	1.96 98%
33	1	D	Drift	5.0014	
34	0	B	Baseline	0.0053	
35	0	B	FinalBase	0.0060	

QC Limits

Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

CORRECTIONS

Channel	:	2
Baseline	:	No
Drift	:	No
Carry over	:	No
%:		0.0

- * ... Sample offscale
- + ... Result higher than sample limit
- ... Result lower than sample limit
- P ... Standard passed
- F ... Standard failed
- N ... Value not calculated or not used
- R ... Resample after offscale
- M ... Peak marker moved manually
- D ... Diluted sample

** <END OF REPORT> **

5/17/10

05/15/10
Haugen

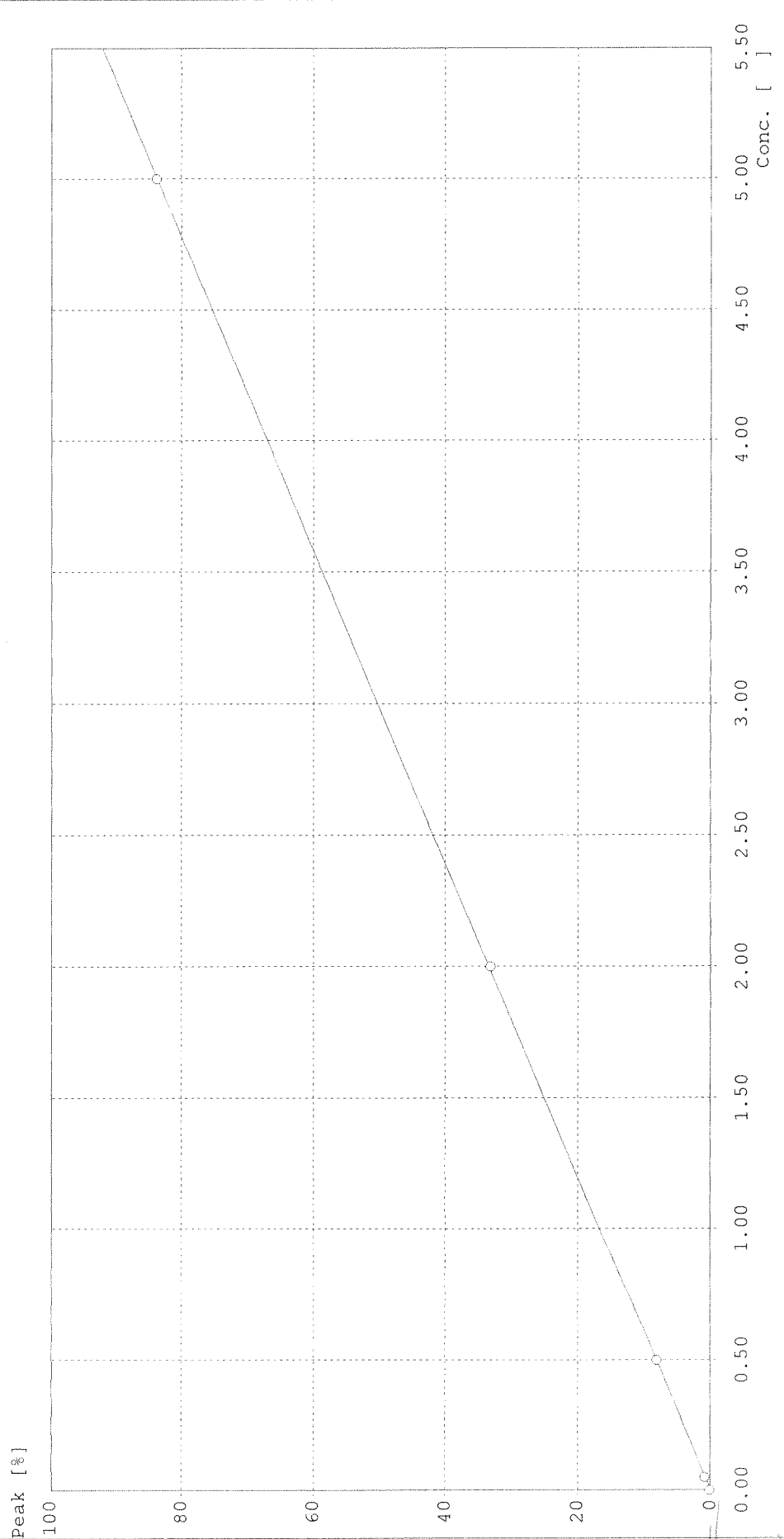
BRAN+LUEBBE

Calibration Curve

Name of run :100515C.run
Comment :

Name of analysis :Nitrite.ANL

Channel :2
Method :Method 2
Curve fit :linear
Corr. coeff. :1.0000
a=-2.6186E-001 b=9.1014E-005



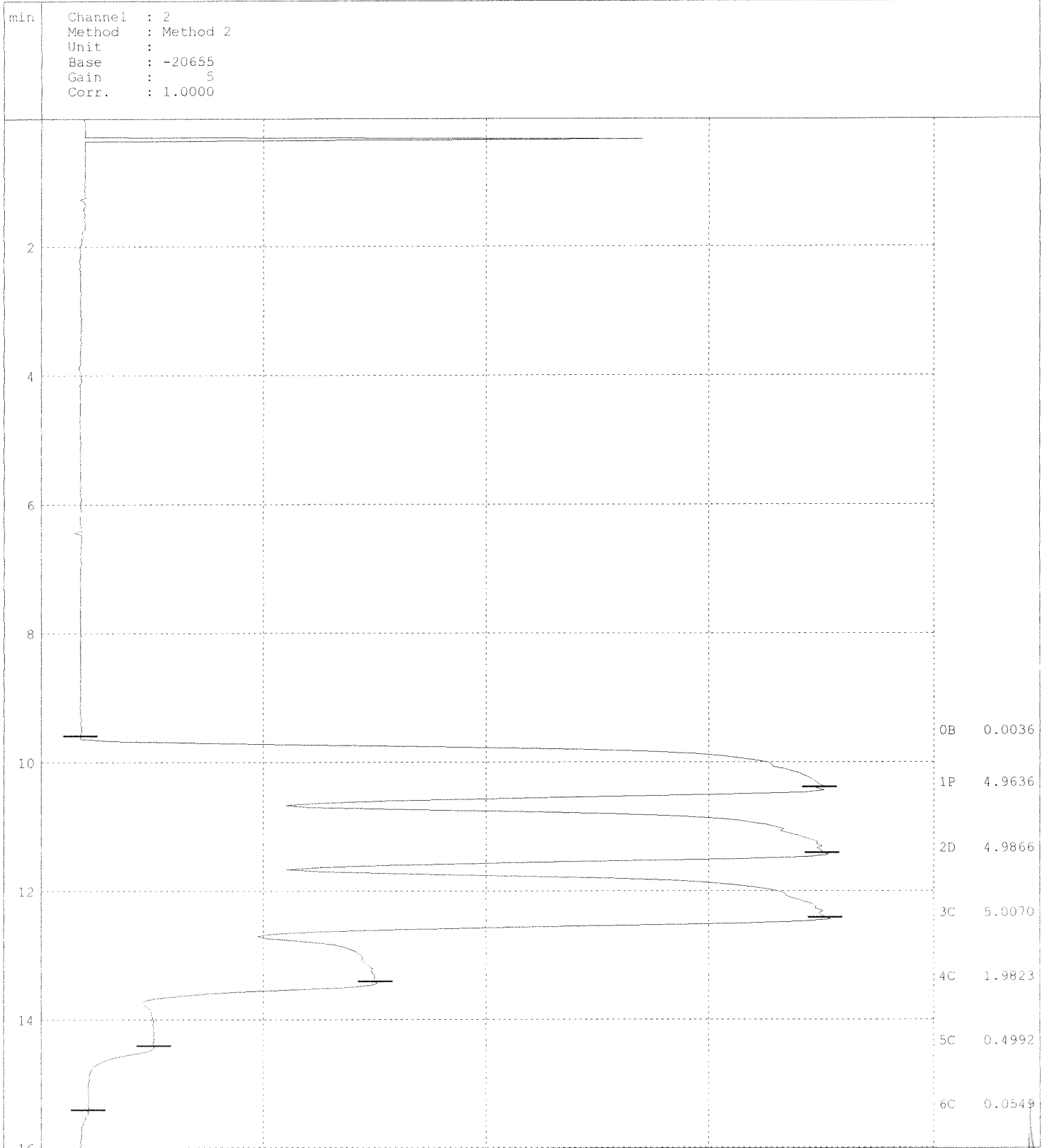
05/15/10
Hoyum
5/17/10

BRAN+LUEBBE

Post-run chart

Name of run :100515C.RUN
Comment :

Name of analysis :Nitrite.ANL

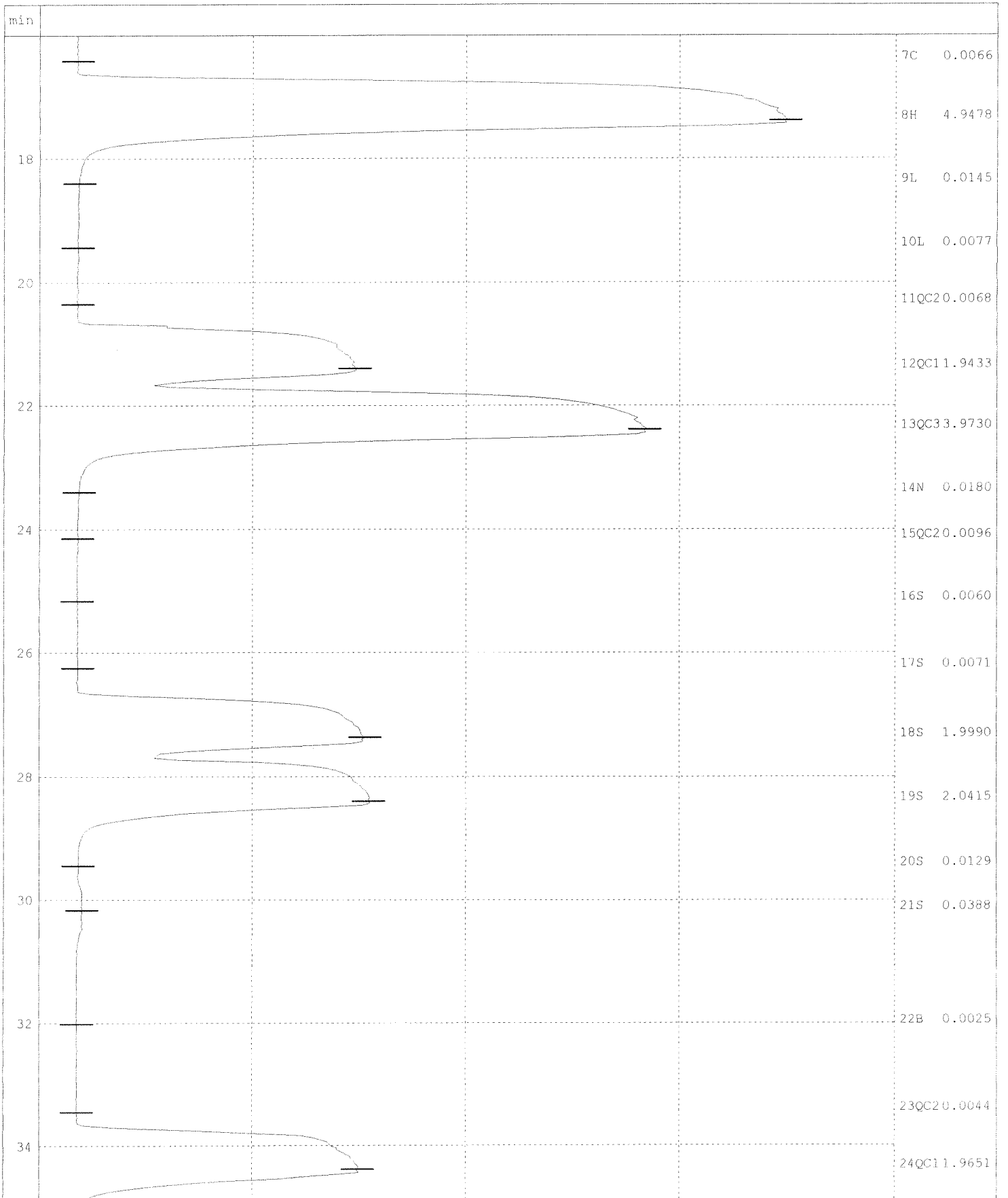


05/19/10
Thermyou

5/19/10

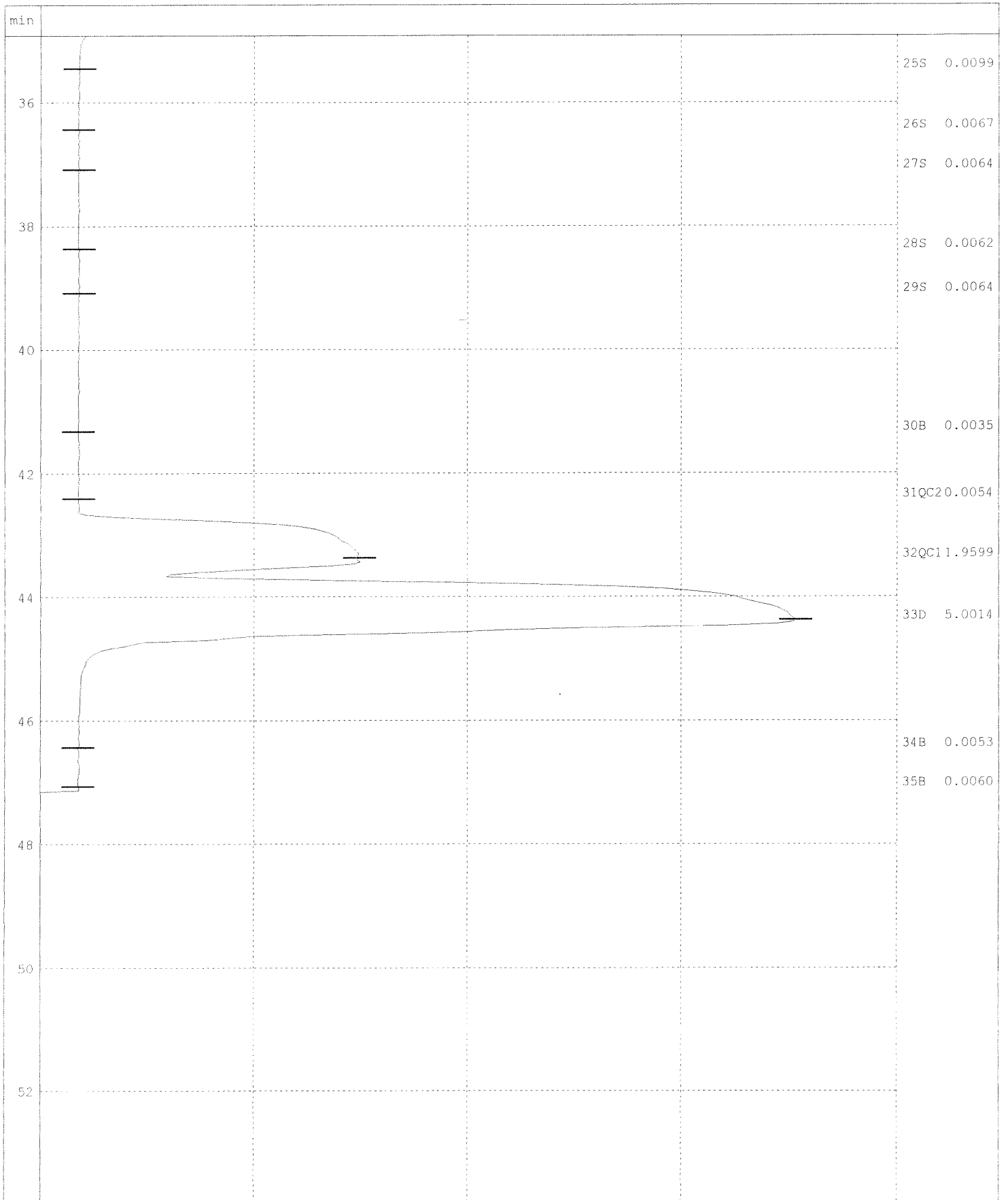
Name of run :100515C.RUN
Comment :

Name of analysis :Nitrite.ANL



Name of run :100515C.RUN
Comment :

Name of analysis :Nitrite.ANL



Work Request # ^{Original} (~~K4837~~) K4841 K4845 K4846 K4870 K4849, K4934
 Tier: II II II II III II III
 Date Analyzed: 05/18/10
 Analyst: Hewitt
 Analysis: NO₂/NO₃ - 353.2 201170

**DATA QUALITY REPORT
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/ NA
5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/ NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

Final Approved by: _____

[Signature]

Date: _____

5/19/10

DQREPORT

I. K4837, II. K4841, II. K4845, II. K4846, III. K4870, II. K4849, III. K4934

BRAN+LUEBBE

Post-run report

Name of Run : 100518B
 Date of Report : 5/18/2010
 Date of Run : 5/18/2010
 Operator :
 Comment :

Name of Analysis : NO2+NO3
 System No. : 1
 Type of System : AA3
 Start/Stop time : 12:37 - 15:14

Channel :
 Method : Method 2
 Unit : mg/L
 Calibr. Fit : Linear
 Corr. Coeff. : 0.9999
 Base : -20587
 Gain : 5
 Sensitivity : 1.6230
 Sample Limit 1 :
 Sample Limit 2 :

LCS ID# : B+LNH₃/-34-I T.V.=14.8
 Spike ID# : B+LNO₃/-94-Y T.V.=2.00
 Curve, CCB ID# : B+LNO₃/-89-V T.V.=2.00
 ICV ID# : B+LNO₃/-80-S T.V.=2.00
 MB MS = 2.00

Pk	Cup	Sample Id	Value
0	0	B Baseline	0.0044
1	1	P primer	5.0278
2	1	D Drift	5.0331
3	1	C 5.00	5.0161
4	2	C 2.00	1.9583
5	3	C 0.50	0.4996
6	4	C 0.05	0.0614
7	5	C 0	0.0146
8	1	H1 High	4.9616
9	0	L1 Low	0.0360
10	0	L1 Low	0.0567
11	9	QC3 ICV	1.9434
12	5	QC2 ICB	0.0249
13	5	QC2 CCB1	0.0206
14	2	QC1 CCV1	1.9359
15	10	QC4 LCS1*10	1.4912
16	11	S MB MS	1.9922
17	0	N Null	0.0217N
18	5	QC2 MB1	0.0244
19	12	S k1004837-001	0.1415
20	13	S k1004837-002	0.1468
21	14	S k1004837-003	0.1444
22	15	S k1004841-001	0.1661
23	16	S k1004841-002	0.1704
24	0	B Baseline	0.0044
25	5	QC2 CCB2	0.0273
26	2	QC1 CCV2	1.9169

1.94 97%
 0.025 J
 0.021 J
 1.94 97%
 14.9 101%
 1.99 100%
 0.024 J
 0.142
 0.147
 0.144
 0.166
 0.170
 0.027 J
 1.92 96%

5/19/10

05/18/10
 Hangerman

27	17	S	k1004841-003	0.1810	0.181	
28	18	S	k1004845-001	0.0238	0.0247	
29	19	S	k1004845-002	0.0273	0.0277	
30	20	S	k1004846-001	0.1158	0.116	
31	21	S	k1004846-002	0.1412	0.141	
32	22	S	k1004846-003	0.1152	0.115	
33	23	S	k1004870-001	0.0582	0.058	$\bar{x} = 0.064$ RPD=17%
34	24	S	k1004870-001d	0.0688	0.069	
35	25	S	k1004870-001ms	2.0976	2.10	102% ^o
36	0	B	Baseline	0.0044		
37	5	QC2	CCB3	0.0304	0.0307	
38	2	QC1	CCV3	1.9156	1.92	96% ^o
39	26	S	k1004870-001msd	2.0461	2.05	100% ^o
40	27	S	k1004870-002	3.2400	3.24	
41	28	S	k1004870-003	0.0672	0.067	
42	29	S	k1004870-004	0.0416	0.0427	
43	30	S	k1004870-005	16.0202*		} NR
44	31	S	k1004849-001	16.0181*		
45	32	S	k1004849-002	16.0161*		
46	33	S	k1004849-003	3.5520		
47	34	S	k1004849-004	5.3002		
48	0	B	Baseline	0.0044		
49	5	QC2	CCB4	0.0233	0.0237	
50	2	QC1	CCV4	1.8875	1.89	95% ^o
51	10	QC4	LCS2*10	1.4554	14.6	99% ^o
52	0	N	Null	0.0034N		
53	5	QC2	MB2	0.0142	0.0147	
54	35	S	k1004849-005	16.0168*		} NR
55	36	S	k1004849-006	1.4754		
56	37	S	k1004849-007	0.1712	0.171	
57	38	S	k1004849-008	0.5937	0.594	
58	39	S	k1004849-009	3.9927	3.99	
59	40	S	k1004849-010	0.1368	0.137	
60	0	B	Baseline	0.0044		
61	5	QC2	CCB5	0.0197	0.0207	
62	2	QC1	CCV5	1.9032	1.90	95% ^o
63	41	S	k1004849-011	16.0302*		} NR
64	42	S	k1004849-012	16.0305*		
65	43	S	k1004849-013	16.0314*		
66	44	S	k1004849-014	16.0320*		
67	45	S	k1004849-015	16.0325*		
68	46	S	k1004849-016	1.6413		
69	75	S	rinse	0.0698		
70	76	S	k1004849-003	3.7370	3.74	
71	77	S	k1004849-004*5	1.1667	5.83	
72	0	B	Baseline	0.0044		
73	5	QC2	CCB6	0.0299	0.0307	
74	2	QC1	CCV6	1.8989	1.90	95% ^o
75	78	S	k1004870-005*10	1.0806	10.8	
76	79	S	k1004849-001*10	16.0319*		} NR
77	80	S	k1004849-002*10	0.8840		
78	81	S	rinse	0.0492		

5/19/10

05/18/10
Haugen

79	82	S	k1004849-006	0.8529	0.853
80	83	S	k1004849-005*10	16.0283*	
81	84	S	k1004849-011*10	16.0268*	
82	85	S	k1004849-012*10	0.8264	
83	86	S	k1004849-013*10	3.4557	34.6
84	0	B	Baseline	0.0044	
85	5	QC2	CCB7	0.0090	0.0097
86	2	QC1	CCV7	1.9173	1.92 96%
87	59	S	k1004934-001	16.0232*	
88	60	S	k1004934-001d	16.0233*	
89	61	S	k1004934-001ms	16.0233*	
90	62	S	k1004934-001msd	16.0234*	
91	63	S	k1004934-002	16.0236*	
92	64	S	k1004934-003	16.0235*	
93	65	S	k1004934-004	0.1767	
94	66	S	k1004934-005	16.0237*	
95	67	S	k1004934-006	16.0238*	
96	0	B	Baseline	0.0044	<0.009
97	5	QC2	CCB8	0.0122	0.0127 95%
98	2	QC1	CCV8	1.8894	1.89 98%
99	10	QC4	LCS3*10	1.4478	14.5 98%
100	0	N	Null	0.0140N	
101	5	QC2	MB3	0.0205	0.0217
102	68	S	k1004934-007	16.0344*	
103	69	S	k1004934-008	0.0822	NR
104	87	S	k1004849-016	1.4108	1.41
105	88	S	k1004849-014*10	3.4747	34.7
106	89	S	k1004849-015*10	3.5923	35.9
107	0	B	Baseline	0.0044	
108	5	QC2	CCB9	0.0370	0.0377 96%
109	2	QC1	CCV9	1.9234	1.92
110	80	S	k1004849-002*10	0.7899	0.790 7.90
111	90	S	k1004849-001*100	1.9980	200
112	91	S	k1004849-005*100	1.3436	134
113	92	S	k1004849-011*100	3.3496	335
114	85	S	k1004849-012*10	0.6980	6.98
115	93	S	k1004934-001*10	0.9259	9.26
116	94	S	k1004934-001d*10	0.9333	9.33
117	95	S	k1004934-001ms*10	3.0159	30.2
118	96	S	k1004934-001msd*10	2.9950	30.0
119	0	B	Baseline	0.0044	
120	5	QC2	CCB10	0.0264	0.0267 95%
121	2	QC1	CCV10	1.8962	1.90
122	97	S	k1004934-002*10	1.2005	12.0
123	98	S	k1004934-003*10	1.4756	14.8
124	65	S	k1004934-004	0.1230	0.123
125	99	S	k1004934-005*10	0.9939	9.94
126	100	S	k1004934-006*10	1.8006	18.0
127	101	S	k1004934-007*10	0.9913	9.91
128	69	S	k1004934-008	0.0341	0.0347
129	0	B	Baseline	0.0044	
130	5	QC2	CCB11	0.0131	0.0137

NR

<0.009

NR

$\bar{x} = 9.30$ RPD < 1%
105% (spike = 0.1ml x 100ppm / 0.5ml = 20.0ppm)
104%

5/18/10

05/18/10
Haughey

TH 05/18/10

BRAN+LUEBBE AACE 6.02

Post-run Report

131 2	QC1	CCV11	1.9016	<i>1.90 95%</i>
132 1	D	Drift	5.0331	
133 0	B	Baseline	0.0044	
134 0	B	FinalBase	0.0044	

QC Limits

Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carry over	:	No
%:		Negative

* ... Sample offscale
+ ... Result higher than sample limit
- ... Result lower than sample limit
P ... Standard passed
F ... Standard failed
N ... Value not calculated or not used
R ... Resample after offscale
M ... Peak marker moved manually
D ... Diluted sample

** <END OF REPORT> **

5/19/10
05/18/10
Hayman

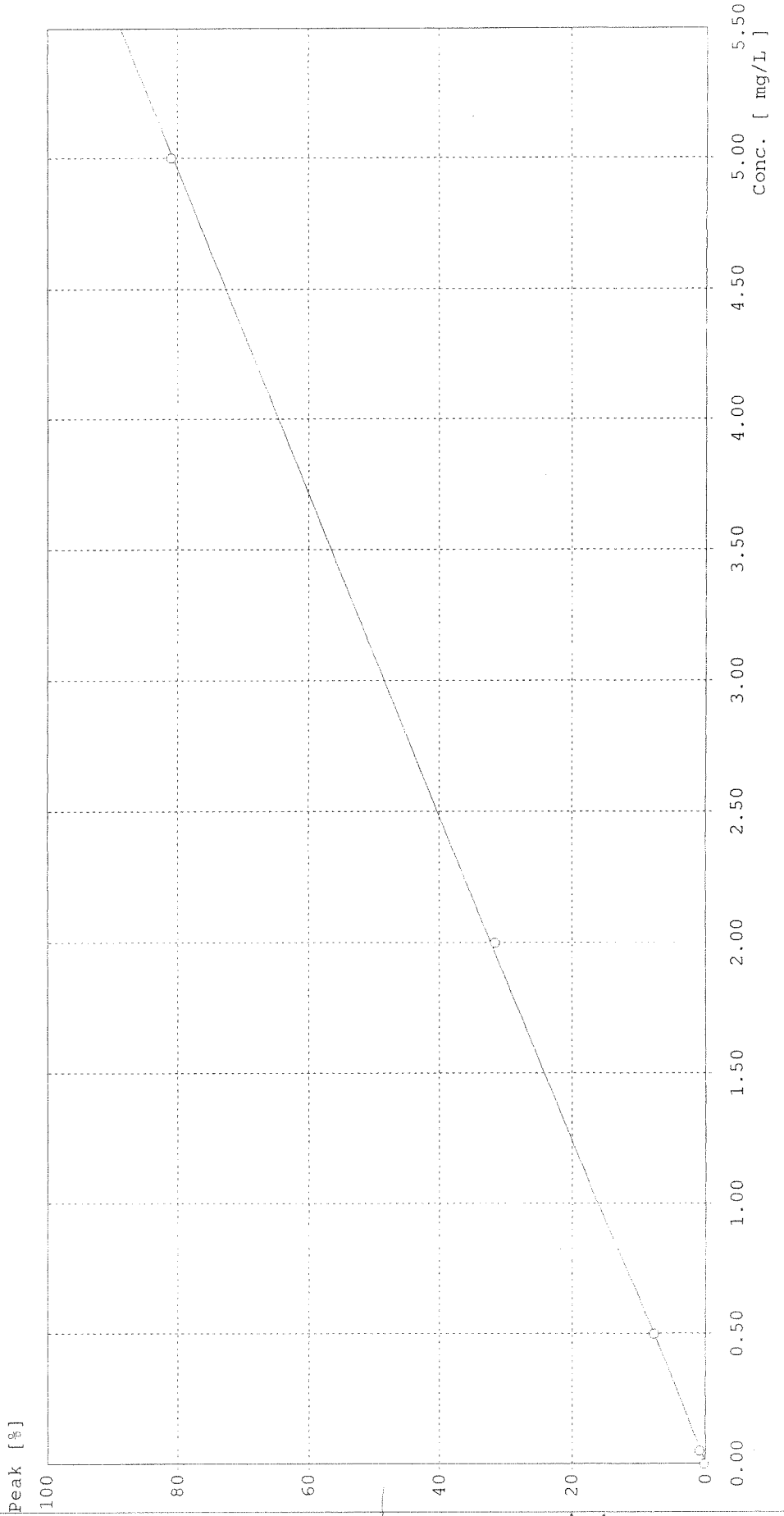
BRAN+LUEBBE

Calibration Curve

Name of analysis : NO2+NO3

Name of run : 100518B.run
Comment :

Channel : 2
Method : Method 2
Curve fit : linear a=-2.9788E-001 b=9.4440E-005
Corr. coeff. : 0.9999



SAT
5/19/10 *05/18/10*
Haugen

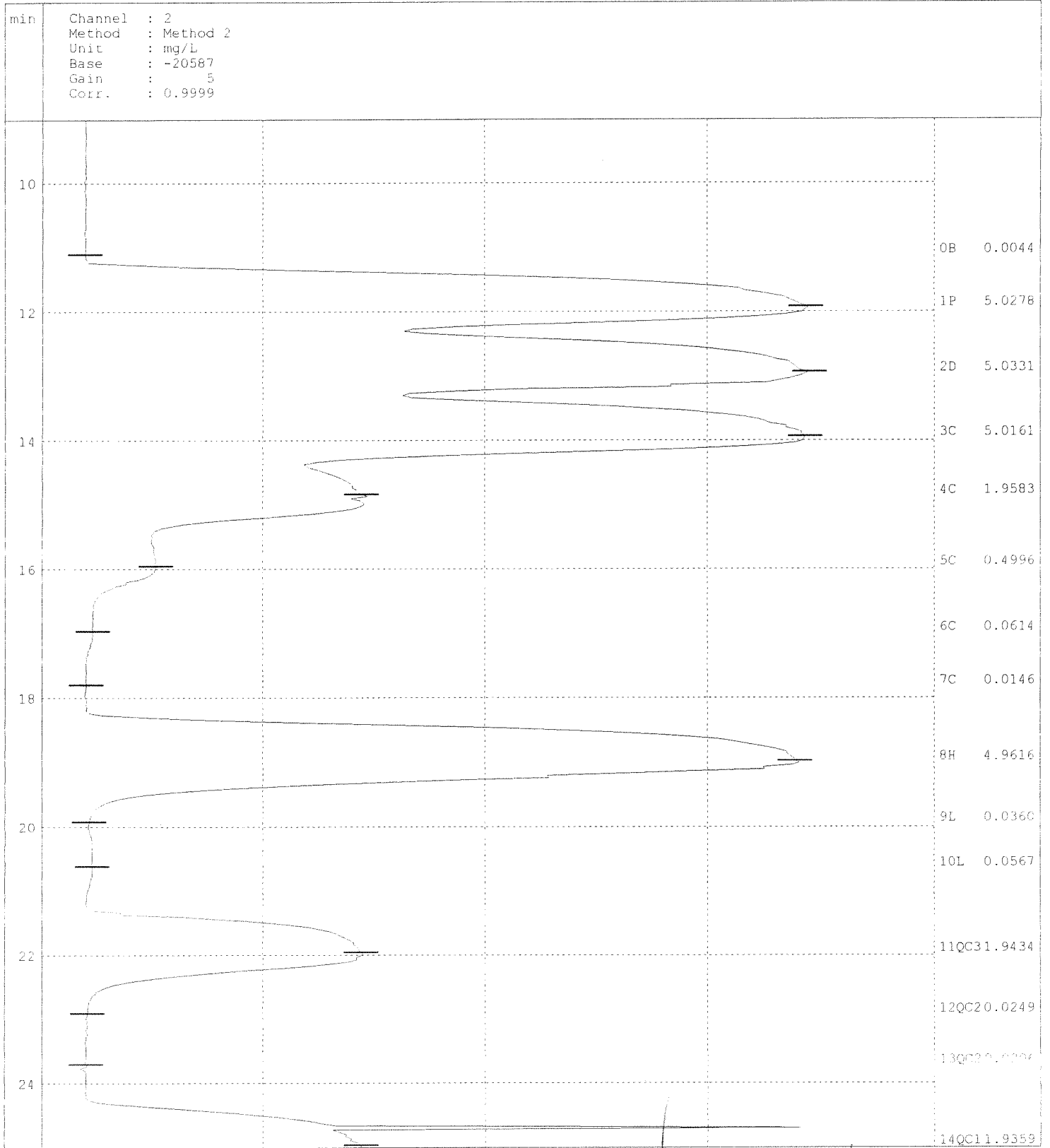
BRAN+LUEBBE

Post-run chart

Name of run :100518B.RUN

Name of analysis :NO2+NO3

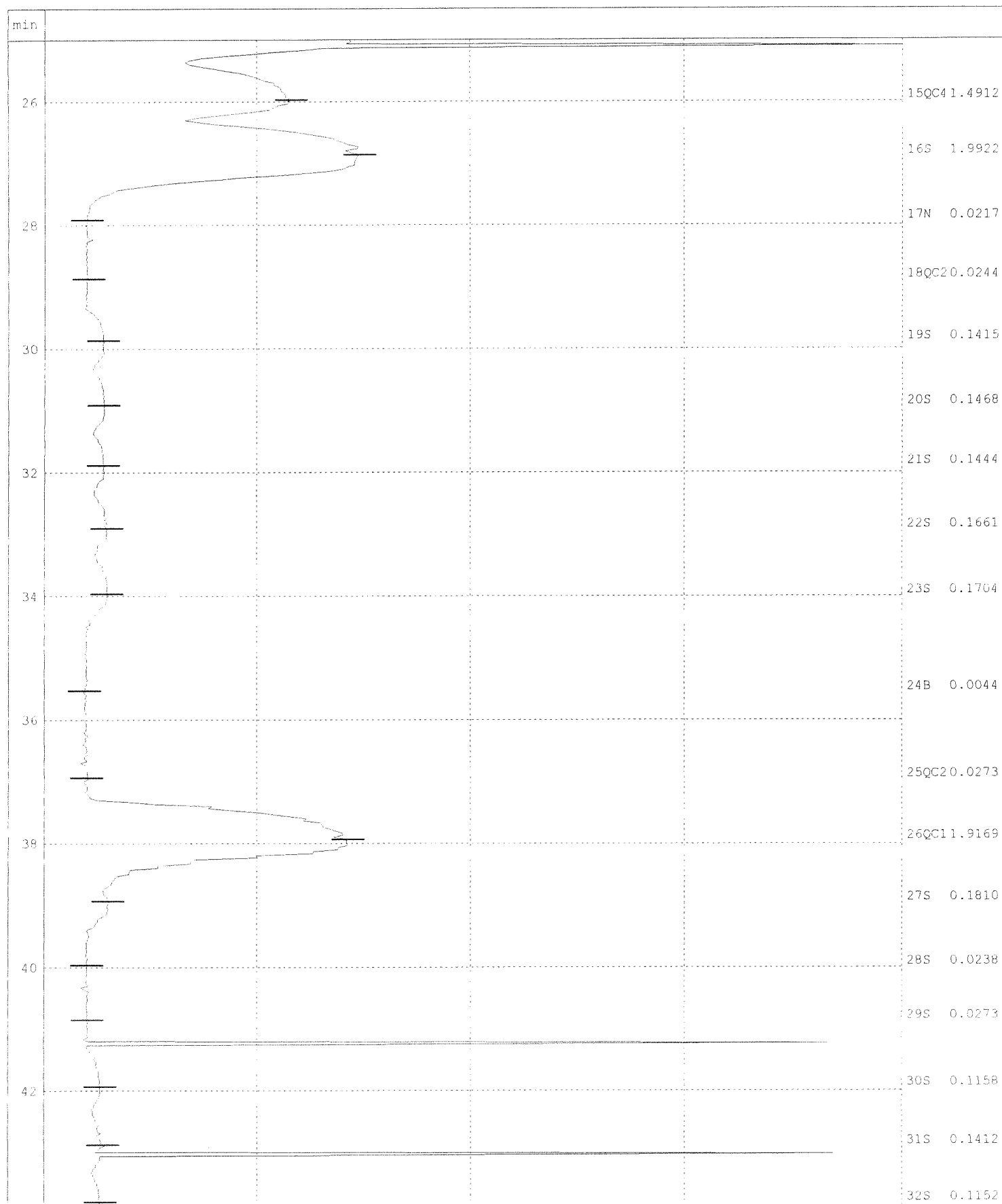
Comment :



Handwritten notes:
 5/19/10
 05/18/10
 [Signature]

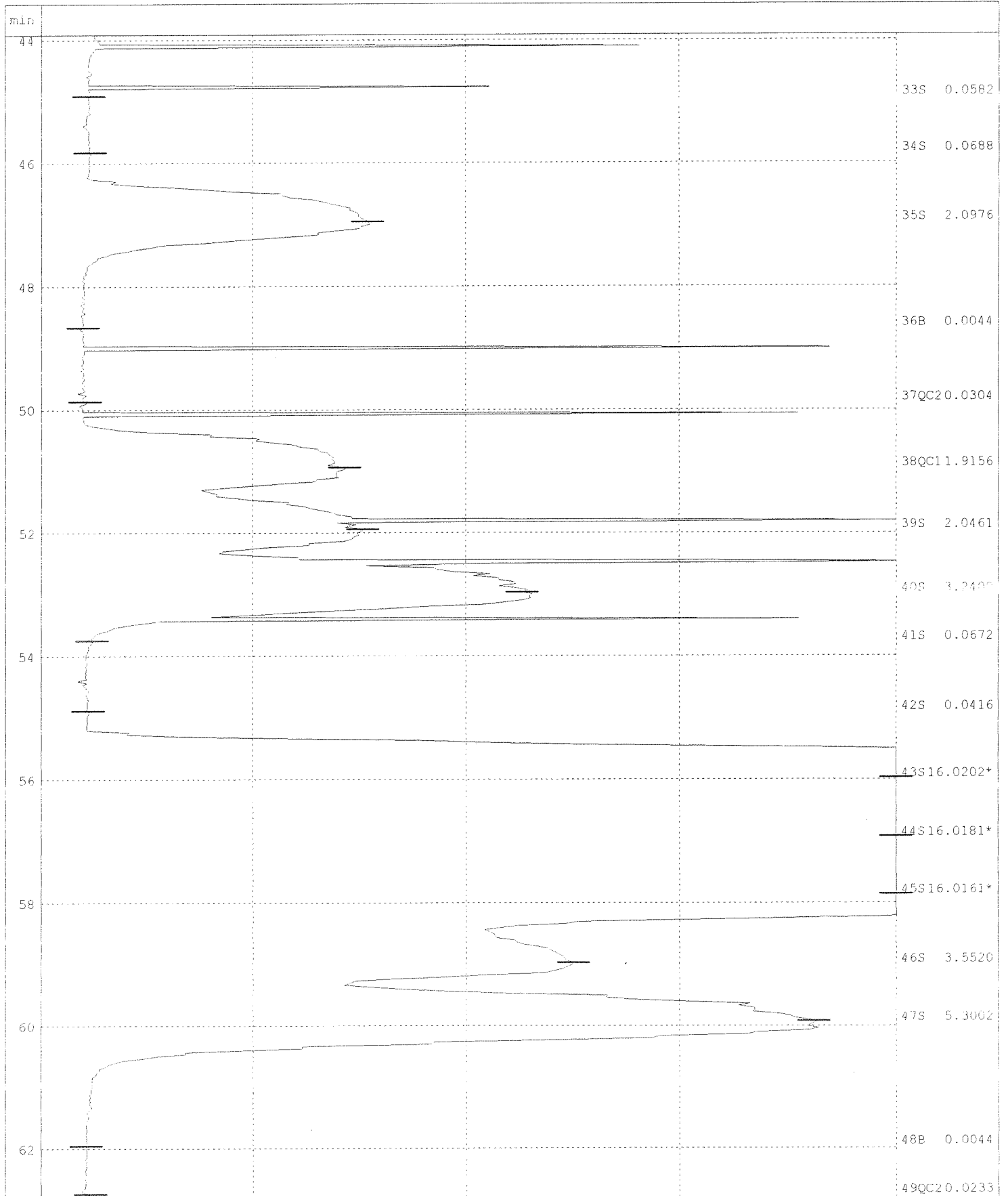
Name of run :100518B.RUN
 Comment :

Name of analysis :NO2+NO3



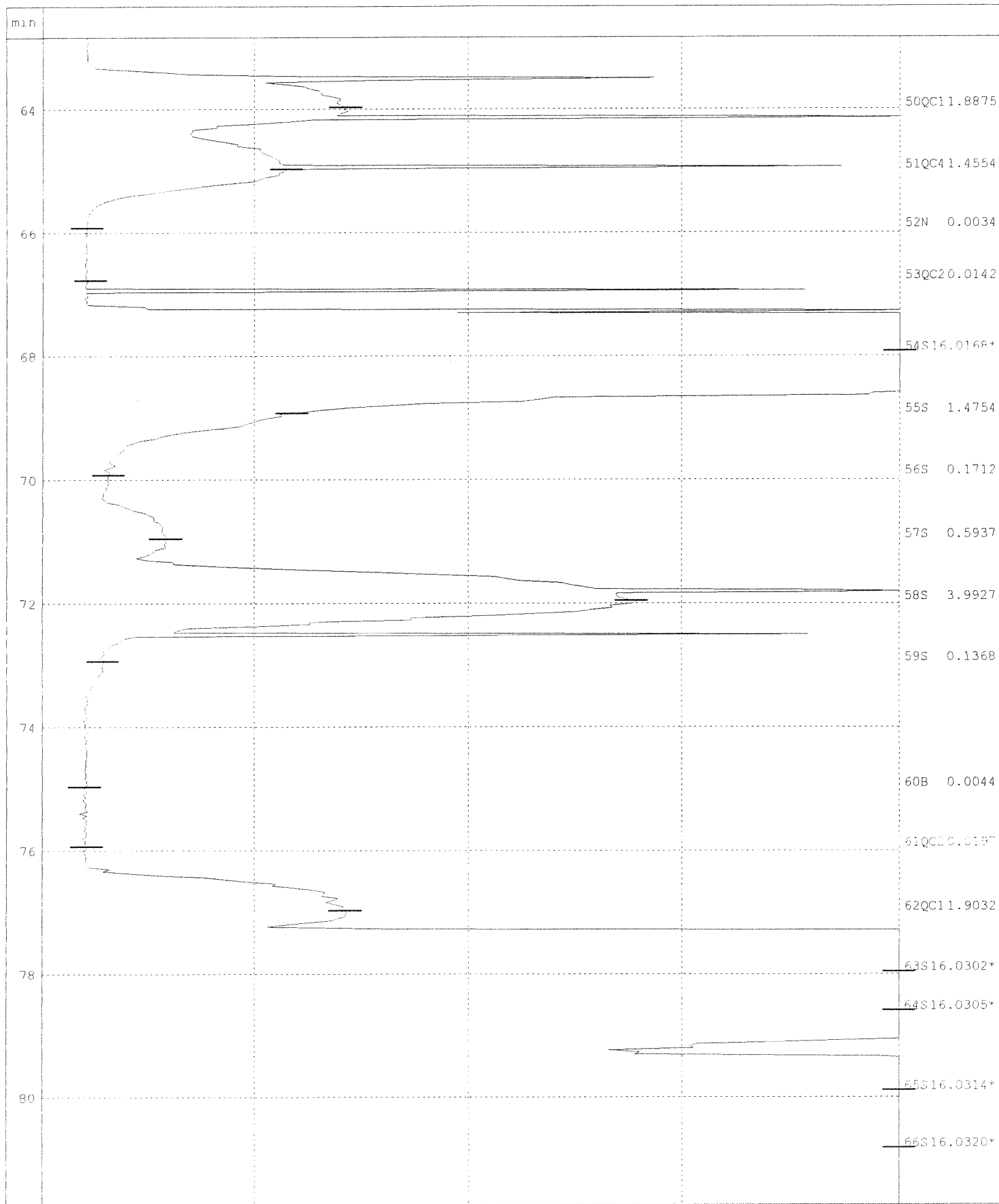
Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



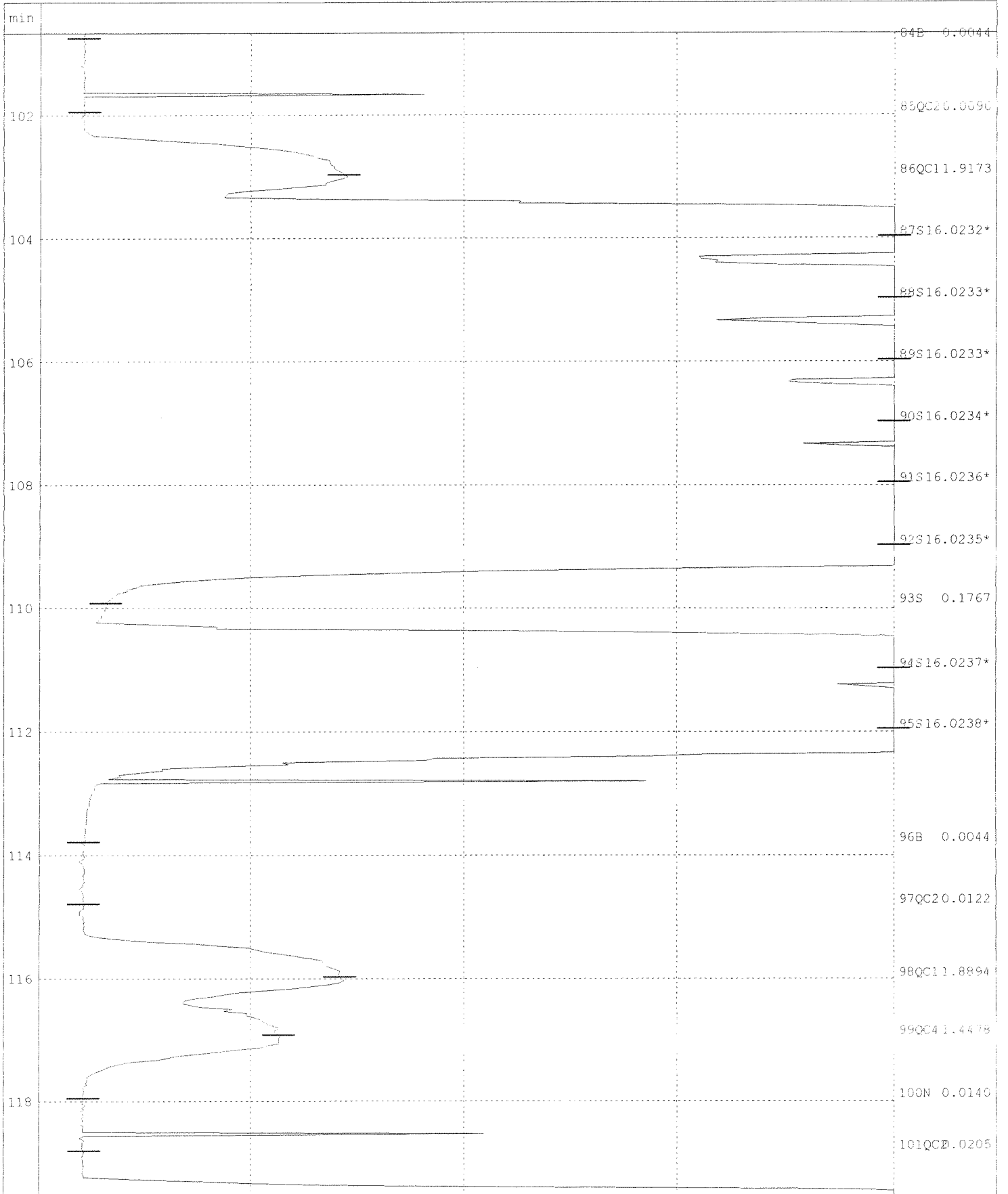
Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



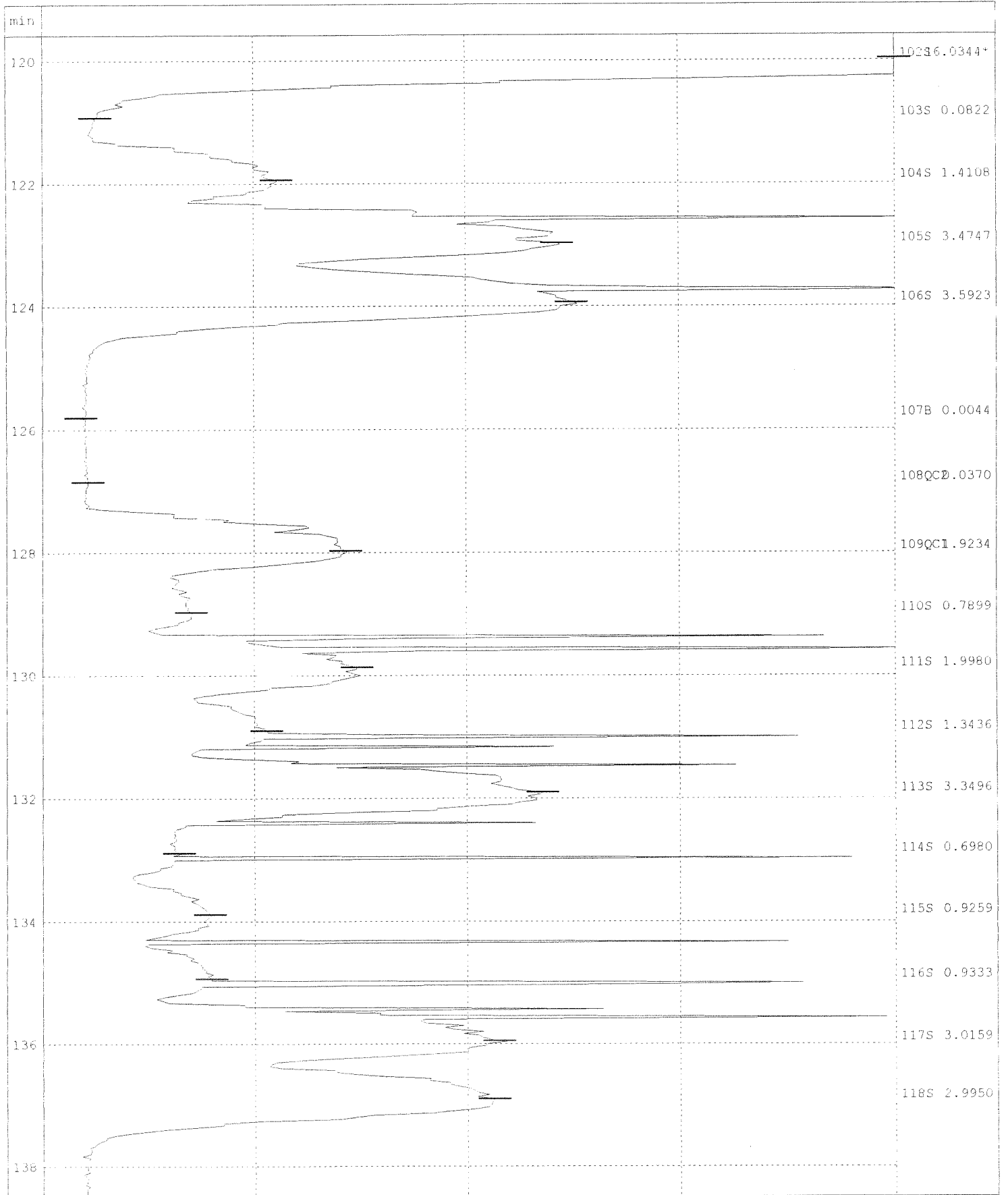
Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



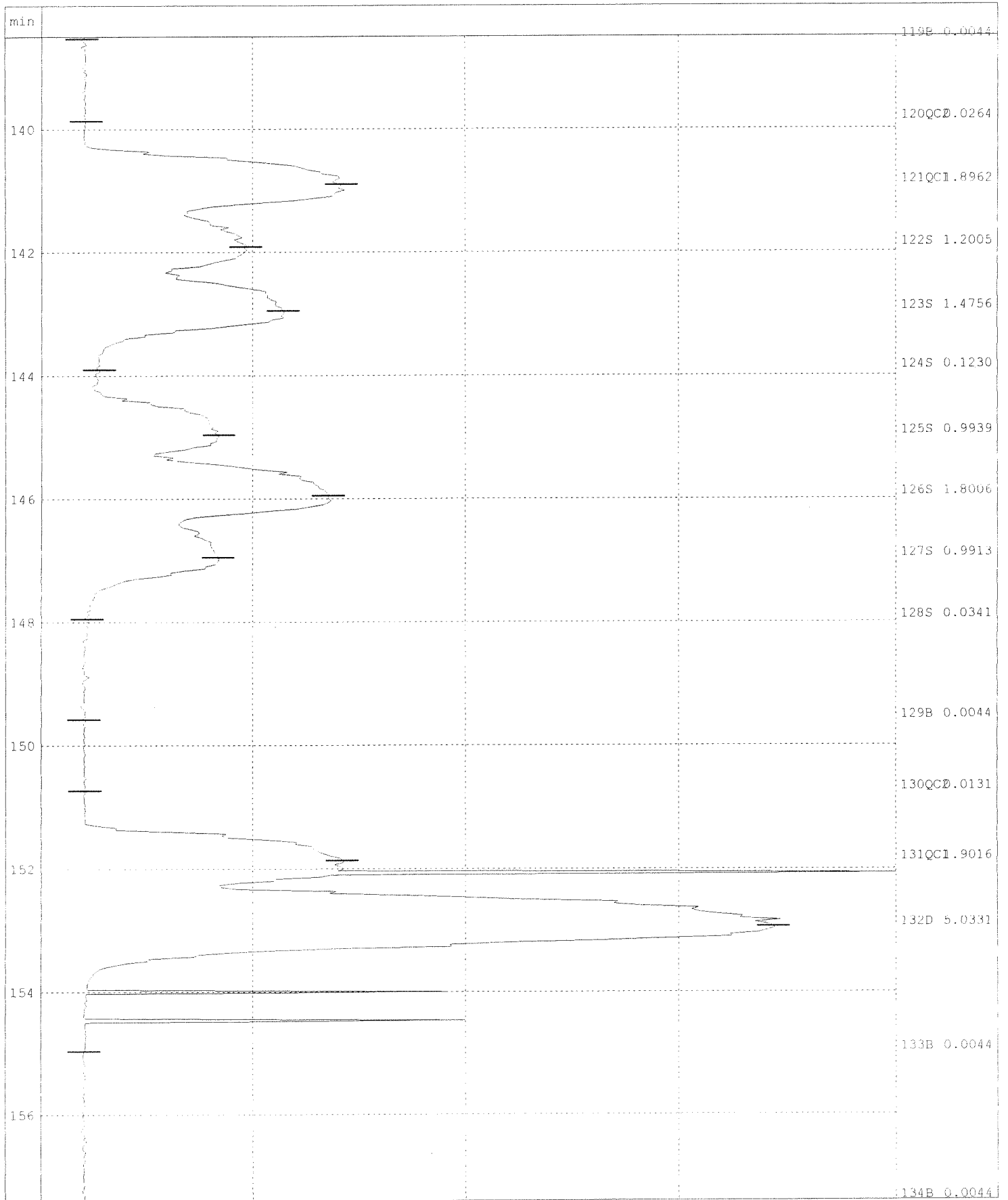
Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



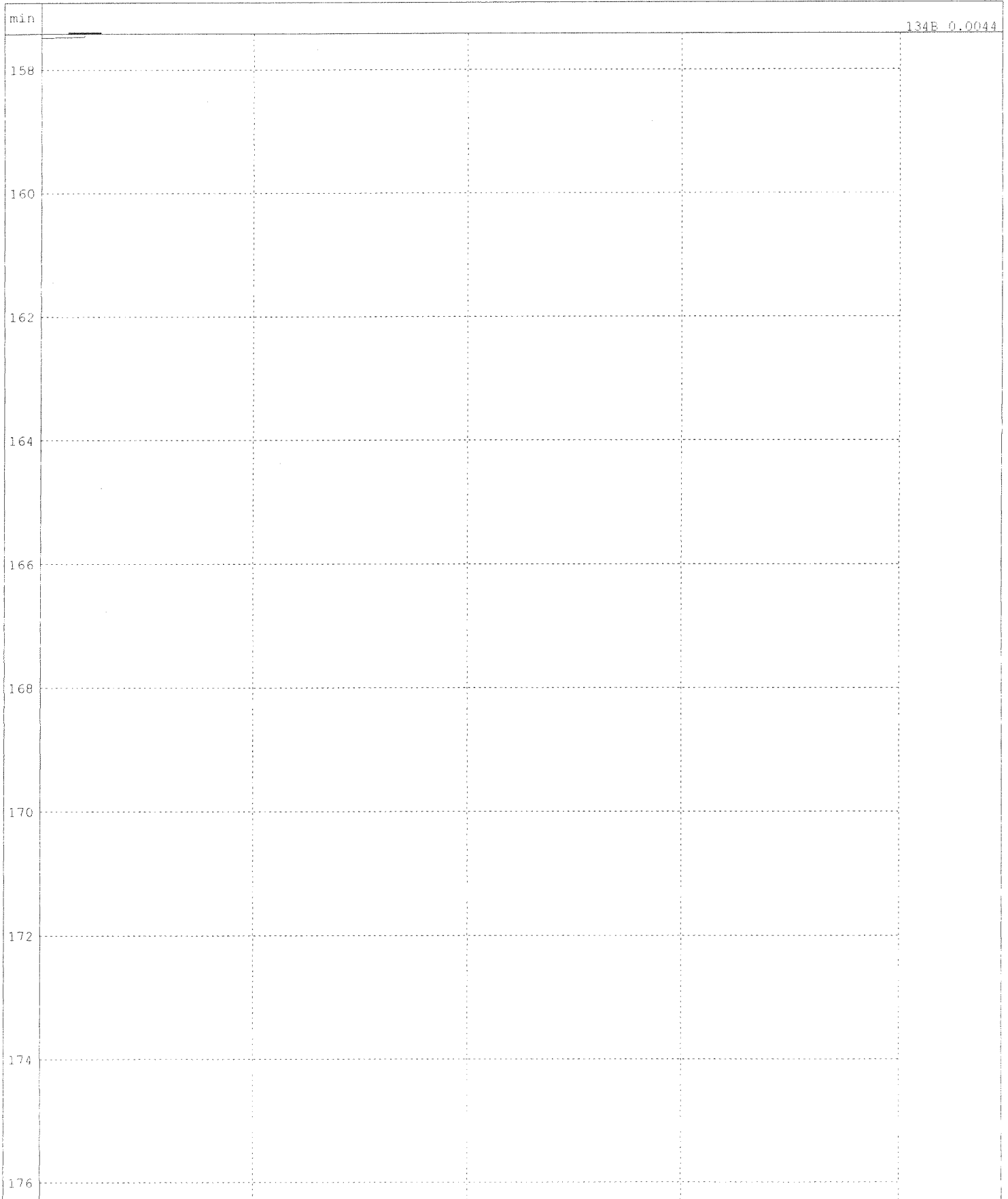
Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



Work Request # ^{Original} (K4934) K4930
 Tier: STV I
 Date Analyzed: 5/15/10
 Analyst: SS
 Analysis: ophos (H₂O)

200768

**DATA QUALITY REPORT
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

Final Approved by: [Signature] Date: 5/18/10

DQREPORT

Analytical Results Summary

Instrument Name: K-UV-VIS-01 Analyst: SSINHA Analysis Lot: 200766 Method/Testcode: 365.3/O Phos T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K1004930-004	Orthophosphate as Phosphorus	N/A		Water	0.02 mg/L	50 mL	0.024 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	1
K1004930-005	Orthophosphate as Phosphorus	N/A		Water	0.03 mg/L	50 mL	0.029 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	1
K1004934-001	Orthophosphate as Phosphorus	N/A		Water	0.10 mg/L	50 mL	0.102 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
K1004934-002	Orthophosphate as Phosphorus	N/A		Water	0.04 mg/L	50 mL	0.037 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
K1004934-003	Orthophosphate as Phosphorus	N/A		Water	0.01 mg/L	50 mL	0.015 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
K1004934-004	Orthophosphate as Phosphorus	N/A		Water	0.04 mg/L	50 mL	0.037 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
K1004934-005	Orthophosphate as Phosphorus	N/A		Water	0.10 mg/L	50 mL	0.104 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
K1004934-006	Orthophosphate as Phosphorus	N/A		Water	0.08 mg/L	50 mL	0.084 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
K1004934-007	Orthophosphate as Phosphorus	N/A		Water	0.10 mg/L	50 mL	0.104 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
K1004934-008	Orthophosphate as Phosphorus	N/A		Water	0.00 mg/L	50 mL	0.010 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
KQ1004400-01	Orthophosphate as Phosphorus	MS	K1004934-001	Water	0.30 mg/L	50 mL	0.300 mg/L	1	0.004	0.010	99		5/15/10 13:20:00	N	V
KQ1004400-02	Orthophosphate as Phosphorus	DMS	K1004934-001	Water	0.49 mg/L	50 mL	0.493 mg/L	1	0.004	0.010	98	49*	5/15/10 13:20:00	N	V
KQ1004400-03	Orthophosphate as Phosphorus	DUP	K1004934-001	Water	0.10 mg/L	50 mL	0.103 mg/L	1	0.004	0.010		<1	5/15/10 13:20:00	N	V
KQ1004400-04	Orthophosphate as Phosphorus	CCB		Water	0.00 mg/L	50 mL	0.010 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
KQ1004400-05	Orthophosphate as Phosphorus	CCB		Water	0.00 mg/L	50 mL	0.010 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
KQ1004400-06	Orthophosphate as Phosphorus	CCB		Water	0.00 mg/L	50 mL	0.010 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
KQ1004400-07	Orthophosphate as Phosphorus	CCV		Water	0.50 mg/L	50 mL	0.500 mg/L	1	0.004	0.010	100		5/15/10 13:20:00	N	V
KQ1004400-08	Orthophosphate as Phosphorus	CCV		Water	0.50 mg/L	50 mL	0.499 mg/L	1	0.004	0.010	100		5/15/10 13:20:00	N	V
KQ1004400-09	Orthophosphate as Phosphorus	CCV		Water	0.50 mg/L	50 mL	0.496 mg/L	1	0.004	0.010	100		5/15/10 13:20:00	N	V
KQ1004400-10	Orthophosphate as Phosphorus	MB		Water	0.00 mg/L	50 mL	0.010 mg/L	1	0.004	0.010			5/15/10 13:20:00	N	V
KQ1004400-11	Orthophosphate as Phosphorus	LCS		Water	0.35 mg/L	5 mL	3.53 mg/L	1	0.04	0.10	99		5/15/10 13:20:00	N	V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Handwritten signature and date:
5/18/10

Ophos (H₂O)
5/15/10, SS
13:20

DU520 S/N: 0112U2001732 1.03
15-MAY-10 13:56:34 SCA Group 0833
Wavelength: 650.0 nm
Formula: A=a+bC a: 0.0025 b: 1.9983

Sample	Net A	Dil X	mg/L
0001	CCP-0.000	1.0000	-0.0013
0002	CVT 1.001	1.0000	0.4997
0003	MB -0.001	1.0000	-0.0017
0004	LCS 0.7085/50	1.0000	0.3531
0005	K4934-1 0.207	1.0000	0.1021
0006	-1d 0.207	1.0000	0.1025
0007	-1ms 0.602	1.0000	0.3000
0008	-1msD 0.988	1.0000	0.4932
0009	-2 0.076	1.0000	0.0368
0010	-3 0.032	1.0000	0.0147
0011	-4 0.076	1.0000	0.0369
0012	-5 0.211	1.0000	0.1044
0013	CVB-2 0.003	1.0000	0.0002
0014	CVB-2 1.000	1.0000	0.4992
0015	K4934 -6 0.171	1.0000	0.0842
0016	-7 0.210	1.0000	0.1036
0017	-8 0.003	1.0000	0.0001
0018	-4 0.057	1.0000	0.0273 - 0.0037 = 0.0236
0019	K4934 -5 0.065	1.0000	0.0313 - 0.0024 = 0.0289
0020	-5 0.010	1.0000	0.0037
0021	-4B 0.007	1.0000	0.0024
0022	-5B 0.003	1.0000	0.0003
0023	CVB-3 0.993	1.0000	0.4959

Spike = 0.1 ml x 100 ppm / 50 = 0.2 mg/L

Spike dup = 0.2 ml x 100 ppm / 50 ml = 0.4 mg/L

LCS TV = 3.57 mg/L

Curve Id = P03/3-4-L

CV = Id = P03/3-24-L

5/18/10

ophos (H₂O)
5/15/10, 13:20
SS

DU520 S/N: 0112U2001732 1.03
15-MAY-10 13:55:59 SCA
Wavelength: 650.0 nm
Formula: A=a+bC a: 0.0025 b: 1.9983

mg/L Net A r²=1.000 Var=0.0000

0.0000	0.000
0.0100	0.021
0.0500	0.102
0.1000	0.206
0.2000	0.400
0.5000	1.013
0.7000	1.394

5/18/10

202370

Work Request # ^{Original} (41948) 4020 4024 5055 41970 5067 5115

Tier: 11 1 V V V V 11

Date Analyzed: 5/25/10

Analyst: nb

Analysis: dlt, bicarb, carb, 74

DATA QUALITY REPORT INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate? yes/no/NA
- 2. Holding times met for all analyses and for all samples? yes/no/NA
- 3. Are calculations correct? yes/no/NA
- 4. Is the reporting basis correct? (Dry Weight) yes/no/NA
- 5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
- 6. Are all service requests that apply attached? yes/no/NA
- 7. Are all samples labelled correctly? yes/no/NA
- 8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
- 9. Are detection limits and units reported correctly? yes/no/NA
- 10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
- 11. Is the unused space on the benchsheet crossed out? yes/no/NA
- 12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

-1934-8, 5055-9, 5067-4, 5112-5 reanalyze for LC

Final Approved by: [Signature] Date: 6/1/10 DQREPORT

Analyte: Alkalinity
Method: 310.1 / SM20 2320 B

Regular Level X
High Level _____

Analyst: AB
Pipette: _____

Date: 5/23/10
Time: _____

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity

T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3 /L = (A_(mL acid used) × N_(H2SO4) × 50,000) / mL sample

pH meter cal:

4.0 _____
7.0 _____
10.0 _____

Buffer Lot #:

Cond/1-75-L
Cond/1-79-K

0.06527

Reagents: Concentration
HCl 0.1 H2SO4: 0.020 N
Reg Level Reference: 50 mg/L
High Level Reference: 5000 mg/L
LCS/MS Solution: 1000 mg/L

Log #

PCC 1002358
ERA 5161-648

* Soils - 1g of sample diluted to 100mLs in DI

Folder #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH-Alk.	Carb Alk.	Bicarb Alk.	Total Alk.
1	MB	30.0	7.63		0.10						3.2
2	%REC=103	LCS	30.0	9.16	2.09						69.7
3	4843-4	5.0	7.00		6.88				<i>0.06527</i>		1377
4	4930-4	10.0	7.59		15.05				<i>0.06527</i>	1510	1505
5	4930-5	10.0	7.50		15.06				<i>0.06527</i>	1510	1506
6	X=224	4934-3	30.0	8.27	6.48		<9	<9		216	216
7	RPD=7	4934-3d	30.0	8.26	6.93		<9	<9		231	231
8	4934-5	30.0	7.08		7.10		<9	<9		237	237
9	4934-6	30.0	6.92		6.85		<9	<9		228	228
10	4934-7	30.0	7.05		6.78		<9	<9		226	226
11	LL	4934-8	30.0	5.69	0.08						2.5
12	5055-1	30.0	7.95		5.32						177
13	5055-2	30.0	8.09		6.11						204
14	5055-3	30.0	8.68		12.29						410
15	5055-4	30.0	7.94		4.94						165
16	5055-5	30.0	6.87		2.00						66.5
16	5055-6	30.0	6.90		1.80						60.0
17	5055-7	30.0	6.68		2.27						75.6
18	X=<9	5055-8	30.0	<4.5	-						0.0
19	RPD--	5055-8d	30.0	<4.5	-						0.0
20	LL	5055-9	30.0	4.76	0.04						1.3
21	MB2	30.0	5.93		0.08						2.7
22	%REC=98	LCS2	30.0	9.05	2.00						66.6
23	X=287	4970-1	30.0	7.50	8.23					271	274
24	RPD=9	4970-1d	30.0	7.61	9.01					300	300
25	4970-2	30.0	6.71		9.56					317	319
26	4970-3	30.0	9.27		7.62	1.02	34.1	0.0	68.1	185.8	254
27	4970-4	15.0	6.62		1.02					68.0	68.0
28	4970-5	30.0	9.32		7.53	1.03	34.3	0.0	68.7	182.3	251
29	4970-6	30.0	9.39		6.87	0.98	32.7	0.0	65.3	163.6	229
30	5067-1	30.0	7.78		4.86		<9	<9		162	162
31	5067-2	30.0	7.46		9.32		<9	<9		311	311
32	5067-3	30.0	7.47		9.06		<9	<9		302	302
33	LL	5067-4	30.0	6.10	0.09						2.9
34	5112-1	30.0	6.50		0.75				<9	25.0	25.0
35	5112-2	30.0	6.68		0.77				<9	25.7	25.7
36	5112-3	30.0	6.64		0.61				<9	20.4	20.4

5906 11/10

Analyte: Alkalinity
 Method: 310.1 / SM20 2320 B

Regular Level X
 High Level _____

Analyst: _____
 Pipette: _____

Date: _____
 Time: _____

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity

T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3 /L = (A_(mL acid used) × N_(H2SO4) × 50,000) /mL sample

pH meter cal:

4.0 _____
 7.0 _____
 10.0 _____

Buffer Lot #: _____

Reagents: Concentration

H2SO4: 0.020 N

Reg Level Reference: 50 mg/L

High Level Reference: 5000 mg/L

LCS/MS Solution: 1000 mg/L

Log # _____

* Soils - 1g of sample diluted to 100mLs in DI

Folder #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH- Alk.	Carb Alk.	Bicarb Alk.	Total Alk.
37	5112-4	30.0	7.24		1.96				29	65.3	65.3
38	X=24 LL 5112-5	30.0	6.62		0.59						19.7
39	RPD=36 ok b/c <5X MR 5112-5d	30.0	6.60		0.85						28.3
40											
41											
42											
43											
44											
45											
46											
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69											
70											
71											
72											
73											

Date: 05/26/2010
 RunID = Z0525101543
 InstrumentID = SN=1234A
 Site Name = Your Company Name Here
 Analyst = ACQWE
 Test Name/ID = alkalinity5.25
 Titrant Name/ID = 0.02N HCL
 Standard(s) Name/ID =

202370

05/11/10
 ACQWE

Test ID	LIMS ID	Meth ID	Smpl ID	pH	Smpl Vol	Tot Vol	Smpl Results	Units	Recv %	End Pt	Slope (r)	Calc C	Date	Time	Analyst	Run ID	Inst ID
	alkalint MB	0	1	7.63	30		3.1858	ppm/l		145.9 mV)	57.99	03345	05-25-10	16:24	ACQWE	Z0525101543	SN=123
	alkalint LCS	0	2	9.16	30		45.093	ppm/l		-74.4 mV)	57.99	03345	05-25-10	16:27	ACQWE	Z0525101543	SN=123
	alkalint LCS	0	2	9.16	30		69.800	ppm/l		145.9 mV)	57.99	03345	05-25-10	16:27	ACQWE	Z0525101543	SN=123
1	alkalint K1004930-004 6X	0	3	7.00	30		229.64	ppm/l		145.9 mV)	57.99	03345	05-25-10	16:36	ACQWE	Z0525101543	SN=123
2	alkalint K1004930-004 3K	0	4	7.59	30		502.11	ppm/l		145.9 mV)	57.99	03345	05-25-10	16:42	ACQWE	Z0525101543	SN=123
3	alkalint K1004930-005 3K	0	5	7.50	30		502.30	ppm/l		145.9 mV)	57.99	03345	05-25-10	16:51	ACQWE	Z0525101543	SN=123
4	alkalint K1004934-003.10	0	6	8.27	30		216.11	ppm/l		145.9 mV)	57.99	03345	05-25-10	17:00	ACQWE	Z0525101543	SN=123
5	alkalint K1004934-003D	0	7	8.26	30		231.14	ppm/l		145.9 mV)	57.99	03345	05-25-10	17:09	ACQWE	Z0525101543	SN=123
6	alkalint K1004934-005.10	0	8	7.08	30		236.90	ppm/l		145.9 mV)	57.99	03345	05-25-10	17:17	ACQWE	Z0525101543	SN=123
7	alkalint K1004934-006.10	0	9	6.92	30		228.52	ppm/l		145.9 mV)	57.99	03345	05-25-10	17:22	ACQWE	Z0525101543	SN=123
8	alkalint K1004934-007.10	0	10	7.05	30		226.09	ppm/l		145.9 mV)	57.99	03345	05-25-10	17:31	ACQWE	Z0525101543	SN=123
9	alkalint K1004934-008.10	0	11	5.69	30		2.5032	ppm/l		145.9 mV)	57.99	03345	05-25-10	17:36	ACQWE	Z0525101543	SN=123
10	alkalint K1005055-001.01	0	12	7.95	30		177.39	ppm/l		145.9 mV)	57.99	03345	05-25-10	17:39	ACQWE	Z0525101543	SN=123
11	alkalint K1005055-002.01	0	13	8.09	30		203.79	ppm/l		145.9 mV)	57.99	03345	05-25-10	17:46	ACQWE	Z0525101543	SN=123
12	alkalint K1005055-003.01	0	14	8.68	30		18.428	ppm/l		-74.4 mV)	57.99	03345	05-25-10	17:55	ACQWE	Z0525101543	SN=123
13	alkalint K1005055-004.01	0	14	8.68	30		410.09	ppm/l		145.9 mV)	57.99	03345	05-25-10	17:55	ACQWE	Z0525101543	SN=123
14	alkalint K1005055-005.01	0	15	7.94	30		164.81	ppm/l		145.9 mV)	57.99	03345	05-25-10	18:05	ACQWE	Z0525101543	SN=123
15	alkalint K1005055-006.01	0	16	6.87	30		66.550	ppm/l		145.9 mV)	57.99	03345	05-25-10	18:14	ACQWE	Z0525101543	SN=123
16	alkalint K1005055-006.01	0	17	6.90	30		60.005	ppm/l		145.9 mV)	57.99	03345	05-25-10	18:18	ACQWE	Z0525101543	SN=123
17	alkalint K1005055-007.01	0	18	6.68	30		75.657	ppm/l		145.9 mV)	57.99	03345	05-25-10	18:22	ACQWE	Z0525101543	SN=123
18	alkalint K1005055-008.01	0	19	6.45	30			ppm/l			57.99	03345	05-25-10	18:27	ACQWE	Z0525101543	SN=123
19	alkalint K1005055-008D	0	20	<4.5	30			ppm/l			57.99	03345	05-25-10	18:29	ACQWE	Z0525101543	SN=123
20	alkalint K1005055-009.01	0	21	4.76	30		1.2784	ppm/l		145.9 mV)	57.99	03345	05-25-10	18:31	ACQWE	Z0525101543	SN=123
21	alkalint MB2	0	22	5.93	30		2.6746	ppm/l		145.9 mV)	57.99	03345	05-25-10	18:33	ACQWE	Z0525101543	SN=123
22	alkalint LCS2	0	23	9.05	30		39.590	ppm/l		-74.4 mV)	57.99	03345	05-25-10	18:37	ACQWE	Z0525101543	SN=123
23	alkalint LCS2	0	23	9.05	30		66.695	ppm/l		145.9 mV)	57.99	03345	05-25-10	18:37	ACQWE	Z0525101543	SN=123
24	alkalint K1004970-001.03	0	24	7.50	30		274.64	ppm/l		145.9 mV)	57.99	03345	05-25-10	18:45	ACQWE	Z0525101543	SN=123
25	alkalint K1004970-001D	0	25	7.61	30		300.64	ppm/l		145.9 mV)	57.99	03345	05-25-10	18:54	ACQWE	Z0525101543	SN=123
26	alkalint K1004970-002.03	0	26	6.71	30		318.91	ppm/l		145.9 mV)	57.99	03345	05-25-10	19:04	ACQWE	Z0525101543	SN=123
27	alkalint K1004970-003.03	0	27	9.27	30		34.090	ppm/l		-74.4 mV)	57.99	03345	05-25-10	19:11	ACQWE	Z0525101543	SN=123
28	alkalint K1004970-003.03	0	27	9.27	30		254.15	ppm/l		145.9 mV)	57.99	03345	05-25-10	19:11	ACQWE	Z0525101543	SN=123
29	alkalint K1004970-004 2X	0	28	6.62	30		34.021	ppm/l		145.9 mV)	57.99	03345	05-25-10	19:23	ACQWE	Z0525101543	SN=123
30	alkalint K1004970-005.03	0	29	9.32	30		34.369	ppm/l		-74.4 mV)	57.99	03345	05-25-10	19:27	ACQWE	Z0525101543	SN=123

Test ID	LIMS ID	Meth ID	Smpl ID	pH	SmplVol	TotVol	SmplResults	Units	Recv %	End Pt	Slope (r)	Calc C	Date	Time	Analyst	Run ID	Inst ID
21	alkalrnt K1004970-005.03	0	29	9.32	30		251.24	ppmf		145.9 mV	57.99	03345	05-25-10	19:27	ACQWE	Z0525101543	SN=123
21	alkalrnt K1004970-006.03	0	30	9.39	30		32.686	ppmf		-74.4 mV	57.99	03345	05-25-10	19:38	ACQWE	Z0525101543	SN=123
22	alkalrnt K1004970-006.03	0	30	9.39	30		229.18	ppmf		145.9 mV	57.99	03345	05-25-10	19:38	ACQWE	Z0525101543	SN=123
23	alkalrnt K1005067-001.10	0	31	7.78	30		162.10	ppmf		145.9 mV	57.99	03345	05-25-10	19:49	ACQWE	Z0525101543	SN=123
24	alkalrnt K1005067-002.10	0	32	7.46	30		310.96	ppmf		145.9 mV	57.99	03345	05-25-10	19:54	ACQWE	Z0525101543	SN=123
25	alkalrnt K1005067-003.10	0	33	7.47	30		302.30	ppmf		145.9 mV	57.99	03345	05-25-10	20:03	ACQWE	Z0525101543	SN=123
26	alkalrnt K1005067-004.10	0	34	6.10	30		2.8659	ppmf		145.9 mV	57.99	03345	05-25-10	20:13	ACQWE	Z0525101543	SN=123
26	alkalrnt K1005112-001.14	0	35	6.50	30		25.059	ppmf		145.9 mV	57.99	03345	05-25-10	20:16	ACQWE	Z0525101543	SN=123
27	alkalrnt K1005112-002.14	0	36	6.68	30		25.751	ppmf		145.9 mV	57.99	03345	05-25-10	20:20	ACQWE	Z0525101543	SN=123
28	alkalrnt K1005112-003.09	0	37	6.64	30		20.429	ppmf		145.9 mV	57.99	03345	05-25-10	20:24	ACQWE	Z0525101543	SN=123
29	alkalrnt K1005112-004.09	0	38	7.24	30		65.407	ppmf		145.9 mV	57.99	03345	05-25-10	20:27	ACQWE	Z0525101543	SN=123
30	alkalrnt K1005112-005.09	0	39	6.62	30		19.672	ppmf		145.9 mV	57.99	03345	05-25-10	20:31	ACQWE	Z0525101543	SN=123
	alkalrnt K1005112-005D	0	40	6.60	30		28.276	ppmf		145.9 mV	57.99	03345	05-25-10	20:34	ACQWE	Z0525101543	SN=123

Handwritten signature and date:
 [Signature]
 5/26/10

202-366

Request #: _____ Method: EPA 310.1 / SM 2320B
 Analysis For: Alkalinity as CaCO₃: Total / Bicarbonate / Carbonate / Hydroxide

pH Meter Calibration	Sample #	MB	CS	CS/D	4743-1	4743-1d	4743-2	BV
pH 12.45	Initial pH	5.09	9.02	8.89	7.36	7.27	5.72	4.02
	Titrant used to pH 8.3							7
pH 10.00	Titrant used to pH 4.5	0.08	2.23	2.33	2.96	2.89	0.24	
0.00	Titrant used to pH 4.2	0.11					0.36	
pH 7.00	Sample Volume	100	50	50	50	50	100	
7.00	Alkalinity	<2	64.6	66.6	59.2	55.8	<2	
pH 4.00	Bicarbonate					57.8		
4.00	Carbonate							
pH 4.00 Chk.	Hydroxide							
4.02								

Sample #	4880-2	4880-5	4880-7	4890-2	4890-3	4890-5	4934-4	4934-4d
Initial pH	5.71	5.65	5.79	8.58	8.04	5.86	7.43	7.31
Titrant used to pH 8.3				0.09				
Titrant used to pH 4.5	1.77	1.74	1.37	1.03	0.79	0.28	1.08	1.12
Titrant used to pH 4.2				1.03	0.61			
Sample Volume	100	100	100	100	100	100	50	50
Alkalinity	17.7	17.4	13.7	10.3	5.5	<2	21.6	22.4
Bicarbonate	17.7	17.4	13.7				21.6	22.4
Carbonate	<2	<2	<2				<2	<2
Hydroxide							<2	<2

CS: ^{PR2}APG= _____ Lot # = 5161-698 True Value = 67.9 % Rec. = 95.98.99
 Probe ID#: NJ1 Titrant Manf: RCO 1909615

Calculations: Alkalinity = $\frac{A \times N \times 50,000}{\text{Volume (mls)}}$ A = mls standard titrant used
 N = Normality of standard acid 0.02 / 0.1 N(HCL)

Comments: 2/25/25 4743-1/1H $\bar{x} = 58.5$ RPD = 2
 4934-4/4H $\bar{x} = 22.0$ RPD = 4

Analyzed By: nh Date: 5/25/10 1830
 Reveived By: [Signature] Date: 5/27/10

CS 2/5/27/10 KE

Columbia Analytical Services, Inc.

Service Request #: _____ Method: EPA 310.1 / SM 2320B

Analysis For: Alkalinity as CaCO₃: Total / Bicarbonate / Carbonate / Hydroxide

Sample #	4934-8	5015-1	BV	5058-1	5058-11	5058-2	5149-2	5150-1	
Initial pH	5.75	6.56	3.97	7.27	7.34	7.74	7.66	3.18	
Titration used to pH 8.3			7						
Titration used to pH 4.5	0.24	0.84			0.86	1.84	1.52	4.06	-
Titration used to pH 4.2	0.44	1.01							
Sample Volume	100	100		50	50	50	55	50	
Alkalinity	CT	6.7		37.2	36.8	30.4	73.8	CT	
Bicarbonate	CT								
Carbonate	CT								
Hydroxide	CT								

Sample #	5161-1	5161-2	5179-1	5179-2	5179-3	BV	5179-4	5179-1	
Initial pH	7.07	7.14	7.43	7.96	5.94	3.48	7.97	7.96	
Titration used to pH 8.3						7			
Titration used to pH 4.5	2.18	1.23	1.77	2.41	0.23			2.36	3.33
Titration used to pH 4.2					0.45				
Sample Volume	50	50	50	50	100		50	50	
Alkalinity	43.6	44.6	35.1	48.2	1.2		47.2	60.6	
Bicarbonate									
Carbonate									
Hydroxide									

Sample #	5187-2	5187-3	5055-9	MB2	LC2	BV			
Initial pH	7.76	7.72	5.21	5.44	9.04	3.97			
Titration used to pH 8.3						7			
Titration used to pH 4.5	3.23	1.58	0.08	0.12	3.36				
Titration used to pH 4.2			0.17	0.27					
Sample Volume	50	50	50	100	50				
Alkalinity	64.6	57.6	CT	CT	67.2				
Bicarbonate									
Carbonate									
Hydroxide									

Comments: 5058-1111 2=37.0' ADD-1

Analyzed By: nb	Date: 5/25/10
Reviewed By: [Signature]	Date: 5/26/10

Original
 Work Request # (4870) 11842 11880 11900 41930 41934
 Tier: V 11 1 11 1 V
 Date Analyzed: 5/21/10
 Analyst: nb
 Analysis: alk, hwork, each, OH-

2021541

**DATA QUALITY REPORT
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? ¹¹²⁷ yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

LCS₂ high rec reanalyze 41934, 3-S w/ sufficient QC

Final Approved by: [Signature] Date: 5/27/10

Analyte: Alkalinity
Method: 310.1 / SM20 2320 B

Regular Level X
High Level _____

Analyst:
Pipette: _____

Date: 9/21/10
Time: _____

Table 403 1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity T = Total Alkalinity
Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3 /L = (A_(mL acid used) × N_(H2SO4) × 50,000) /mL sample

pH meter cal:
4.0 _____
7.0 _____
10.0 _____

Buffer Lot #:
Cond/1-75-L
Cond/1-75-K

Reagents: Concentration
HCl H2SO4: 0.020 N
Reg Level Reference: 50 mg/L
High Level Reference: 5000 mg/L
LCS/MS Solution: 1000 mg/L

Log #
RCC 1003-358
3101-098 E2A

* Soils - 1g of sample diluted to 100mLs in DI

Folder #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH-Alk.	Carb Alk.	Bicarb Alk.	Total Alk.
1	MB	30.0	7.89		0.09						3
2	%REC=101 LCS	30.0	9.12		2.05						68.4
3	X=232	4870-5	30.0	8.10	6.91		<9	<9	230		230
4	RPD=1	4870-5d	30.0	8.08	6.98		<9	<9	233		233
5	X=245	4843-2	30.0	7.57	7.32						244
6	RPD=<1	4843-2d	30.0	7.67	7.36						245
7		4843-3	30.0	8.11	4.36						145
8	underdilute	4843-4	30.0	7.05	>25						0
9		4843-5	10.0	7.67	10.28						1028
10		4843-6	30.0	7.11	9.78						326
11		4843-7	30.0	7.16	16.10						537
12		4843-8	30.0	7.14	16.86						562
13		4843-9	30.0	7.89	5.77						192
14		4843-10	30.0	8.16	7.99						266
15	X=66.4	4880-1	30.0	6.56	2.00			<9	66.6		66.6
16	RPD=<1	4880-1d	30.0	6.50	1.98			<9	66.1		66.1
16	LL	4880-2	30.0	5.76	0.47						15.8
17		4880-3	30.0	6.27	1.12			<9	37.2		37.2
18		4880-4	30.0	6.31	1.18			<9	39.4		39.4
19	LL	4880-5	30.0	5.83	0.48						16.1
20		4880-6	30.0	6.51	2.63			<9	87.8		87.8
21	LL	4880-7	30.0	5.94	0.41						13.6
22		4890-1	30.0	7.38	4.14					138	138
23	LL	4890-2	30.0	6.81	0.30						9.9
24	LL	4890-3	30.0	6.32	0.27						8.9
25		4890-4	30.0	9.90	1.77	1.03	34.5	10.0	49.0	0.0	59.0
26	LL	4890-5	30.0	6.05	0.09						2.9
27		4930-1	30.0	6.62	3.42				<9	114	114
28		4930-2	30.0	7.45	3.19				<9	106	106
29		4930-3	30.0	6.74	3.36				<9	112	112
30	underdilute	4930-4	30.0	7.83	>25						0
31	underdilute	4930-5	30.0	7.81	>25						0
32	underdilute	4930-5d	30.0	7.77	>25						0
33		4934-1	30.0	7.26	7.63			<9	<9	254	254
34		4934-2	30.0	7.49	5.22			<9	<9	174	174
35	insufficient QC	4934-3	30.0	8.30	6.69						223
36	insufficient QC	4934-4	30.0	6.54	0.68						22.8

Analyte: Alkalinity
 Method: 310.1 / SM20 2320 B

Regular Level X
 High Level

Analyst:
 Pipette:

Date:
 Time:

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO ₃	Carbonate Alkalinity as CaCO ₃	Bicarbonate Concentration as CaCO ₃
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

P = Phenolphthalein Alkalinity

T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO₃ /L = (A_(mL acid used) × N_(H₂SO₄) × 50,000) /mL sample

pH meter cal:

4.0
 7.0
 10.0

Buffer Lot #:

Reagents: Concentration

H₂SO₄: 0.020 N

Reg Level Reference: 50 mg/L

High Level Reference: 5000 mg/L

LCS/MS Solution: 1000 mg/L

Log #

* Soils - 1g of sample diluted to 100mLs in DI

Folder #	Order #	Sample Vol (mL)	pH Initial	Titrant Volume Initial (mL)	Vol to pH 4.5	Vol to pH 8.3	Phen. Alk.	OH- Alk.	Carb Alk.	Bicarb Alk.	Total Alk.
37	insufficient QC	4934-5	30.0	7.16	7.19						240
38		MB2	30.0	5.97	0.08						2.8
39	%REC=178	LCS2	30.0	8.93	3.63						121
40											
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73											

Date: 05/25/2010
 RunID = Z0521101442
 InstrumentID = SN=1234A
 Site Name = Your Company Name Here
 Analyst = ACQWE
 Test Name/ID = alkalinity5.21
 Titrant Name/ID = 0.02N HCl
 Standard(s) Name/ID =

202/54/

Test ID	LIMS ID	Meth ID	SmplID	pH	SmplVol	Tot Vol	SmplResults	Units	Recv %	End Pt	Slope (n)	Calc I	Date	Time	Analyst	Run ID	Inst ID
alk/alknit	MB	1	1	7.89	30		2.9578	ppm/l	144.4 nm]	58.22	03345	05-21-10	15:26	ACQWE	Z0521101442	SN=123	
alk/alknit	LCS	1	2	9.12	30		43.929	ppm/l	-76.9 nm]	58.22	03345	05-21-10	15:30	ACQWE	Z0521101442	SN=123	
alk/alknit	LCS	1	2	9.12	30		68.449	ppm/l	144.4 nm]	58.22	03345	05-21-10	15:30	ACQWE	Z0521101442	SN=123	
1	alk/alknit	K1004870-005.03	1	8.01	30		230.47	ppm/l	144.4 nm]	58.22	03345	05-21-10	15:38	ACQWE	Z0521101442	SN=123	
1	alk/alknit	K1004870-005D	1	8.08	30		232.88	ppm/l	144.4 nm]	58.22	03345	05-21-10	15:47	ACQWE	Z0521101442	SN=123	
2	alk/alknit	K1004843-002.04	1	7.57	30		244.23	ppm/l	144.4 nm]	58.22	03345	05-21-10	16:05	ACQWE	Z0521101442	SN=123	
2	alk/alknit	K1004843-002D	1	6.757	30		245.55	ppm/l	144.4 nm]	58.22	03345	05-21-10	16:13	ACQWE	Z0521101442	SN=123	
3	alk/alknit	K1004843-003.04	1	8.11	30		145.32	ppm/l	144.4 nm]	58.22	03345	05-21-10	16:21	ACQWE	Z0521101442	SN=123	
4	alk/alknit	K1004843-004.04	1	7.05	30		343.09	ppm/l	144.4 nm]	58.22	03345	05-21-10	16:27	ACQWE	Z0521101442	SN=123	
4	alk/alknit	K1004843-005.3x	1	9.757	30		326.37	ppm/l	144.4 nm]	58.22	03345	05-21-10	16:36	ACQWE	Z0521101442	SN=123	
5	alk/alknit	K1004843-006.04	1	10.711	30		537.19	ppm/l	144.4 nm]	58.22	03345	05-21-10	16:45	ACQWE	Z0521101442	SN=123	
6	alk/alknit	K1004843-007.04	1	7.6	30		562.49	ppm/l	144.4 nm]	58.22	03345	05-21-10	16:53	ACQWE	Z0521101442	SN=123	
7	alk/alknit	K1004843-008.04	1	12.74	30		192.34	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:02	ACQWE	Z0521101442	SN=123	
8	alk/alknit	K1004843-009.04	1	13.739	30		266.65	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:11	ACQWE	Z0521101442	SN=123	
9	alk/alknit	K1004843-010.04	1	14.816	30		66.702	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:20	ACQWE	Z0521101442	SN=123	
10	alk/alknit	K1004880-001	1	15.656	30		66.127	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:25	ACQWE	Z0521101442	SN=123	
10	alk/alknit	K1004880-001D	1	16.650	30		15.795	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:29	ACQWE	Z0521101442	SN=123	
11	alk/alknit	K1004880-002	1	17.576	30		37.280	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:32	ACQWE	Z0521101442	SN=123	
11	alk/alknit	K1004880-003	1	18.627	30		39.473	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:36	ACQWE	Z0521101442	SN=123	
12	alk/alknit	K1004880-004	1	19.631	30		16.146	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:40	ACQWE	Z0521101442	SN=123	
12	alk/alknit	K1004880-005	1	20.583	30		87.835	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:43	ACQWE	Z0521101442	SN=123	
13	alk/alknit	K1004880-006.06	1	21.651	30		13.639	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:48	ACQWE	Z0521101442	SN=123	
13	alk/alknit	K1004880-007.06	1	22.594	30		138.05	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:51	ACQWE	Z0521101442	SN=123	
14	alk/alknit	K1004890-001.04	1	23.738	30		9.9203	ppm/l	144.4 nm]	58.22	03345	05-21-10	17:58	ACQWE	Z0521101442	SN=123	
14	alk/alknit	K1004890-002.04	1	24.681	30		8.9070	ppm/l	144.4 nm]	58.22	03345	05-21-10	18:02	ACQWE	Z0521101442	SN=123	
14	alk/alknit	K1004890-003.04	1	25.632	30		34.482	ppm/l	-76.9 nm]	58.22	03345	05-21-10	18:05	ACQWE	Z0521101442	SN=123	
14	alk/alknit	K1004890-004.04	1	26.990	30		59.007	ppm/l	144.4 nm]	58.22	03345	05-21-10	18:16	ACQWE	Z0521101442	SN=123	
15	alk/alknit	K1004890-004.04	1	26.990	30		2.9132	ppm/l	144.4 nm]	58.22	03345	05-21-10	18:19	ACQWE	Z0521101442	SN=123	
16	alk/alknit	K1004930-001.05	1	28.682	30		113.96	ppm/l	144.4 nm]	58.22	03345	05-21-10	18:23	ACQWE	Z0521101442	SN=123	
17	alk/alknit	K1004930-002.05	1	29.745	30		106.44	ppm/l	144.4 nm]	58.22	03345	05-21-10	18:30	ACQWE	Z0521101442	SN=123	
18	alk/alknit	K1004930-003.05	1	30.674	30		112.23	ppm/l	144.4 nm]	58.22	03345	05-21-10	18:34	ACQWE	Z0521101442	SN=123	
18	alk/alknit	K1004930-004.05	1	31.783	30												

5/27/10

Test ID	LIMS ID	Meth ID	Smpl ID	pH	Smpl Vol	Tot Vol	Smpl Results	Units	Recv %	End Pt	Slope (r)	Calc C	Date	Time	Analst	Run ID	Instr ID
alk:alint	K1004934-005-05	1	32	7.81	30						58.22	03345	05-21-10	18.41	ACQWE	Z0521101442	SN=123
alk:alint	K1004934-005D	1	33	7.77	30						58.22	03345	05-21-10	18.47	ACQWE	Z0521101442	SN=123
19	alk:alint	K1004934-001.10	34	7.26	30		254.51	ppmL		144.4 mV	58.22	03345	05-21-10	18.54	ACQWE	Z0521101442	SN=123
20	alk:alint	K1004934-002.10	35	7.49	30		173.99	ppmL		144.4 mV	58.22	03345	05-21-10	19.00	ACQWE	Z0521101442	SN=123
	alk:alint	K1004934-003.10	36	8.9	30		027581	ppmL		-76.9 mV	58.22	03345	05-21-10	19.08	ACQWE	Z0521101442	SN=123
	alk:alint	K1004934-003.10	36	8.9	30		223.23	ppmL		144.4 mV	58.22	03345	05-21-10	19.08	ACQWE	Z0521101442	SN=123
	alk:alint	K1004934-004.10	37	6.54	30		22.793	ppmL		144.4 mV	58.22	03345	05-21-10	19.18	ACQWE	Z0521101442	SN=123
	alk:alint	K1004934-005.10	38	7.16	30		239.89	ppmL		144.4 mV	58.22	03345	05-21-10	19.22	ACQWE	Z0521101442	SN=123
	alk:alint	MB2	39	5.97	30		2.7948	ppmL		144.4 mV	58.22	03345	05-21-10	19.30	ACQWE	Z0521101442	SN=123
	alk:alint		40	8.93	30		37.227	ppmL		-76.9 mV	58.22	03345	05-21-10	19.33	ACQWE	Z0521101442	SN=123
	alk:alint	LC52	40	8.93	30		121.11	ppmL		144.4 mV	58.22	03345	05-21-10	19.33	ACQWE	Z0521101442	SN=123

Handwritten signature
 5/27/10

RunID = Z0521101442
 InstrumentID = SN=1234A
 Site Name = Your Company Name Here
 Analyst = ACQWE
 Test Name/ID = alkalinity5.21
 Titrant Name/ID = 0.02N HCl
 Standard(s) Name/ID =
 Copyright 2003 THERMO ELECTRON
 960 AUTO-CHEMISTRY SYSTEM Rev 6.3
 40-SAMPLES READY
 NO. 1 WASH OF 3
 10 SECOND WASH
 104.3 mV pH 5.191
 NO. 2 WASH OF 3
 10 SECOND WASH
 91.8 mV pH 5.406
 NO. 3 WASH OF 3
 10 SECOND WASH
 69.4 mV pH 5.793
 BEAKER[4] ANALYSIS
 BUFFER 1: 4.010pH E= 172.9 mV
 NO. 1 WASH OF 3
 10 SECOND WASH
 160.3 mV pH 4.225
 NO. 2 WASH OF 3
 10 SECOND WASH
 107.8 mV pH 5.131
 NO. 3 WASH OF 3
 10 SECOND WASH
 77.6 mV pH 5.651
 BEAKER[5] ANALYSIS
 BUFFER 2: 10.013pH E=-176.6 mV
 15:25 05-21-10
 ELECTRODE: 1:pH calibrated
 Eo= -1.2 mV SLOPE= 58.22 mV/dec
 NO. 1 WASH OF 3
 10 SECOND WASH
 -136.7 mV pH 9.327
 NO. 2 WASH OF 3
 10 SECOND WASH
 -86.2 mV pH 8.460
 NO. 3 WASH OF 3
 10 SECOND WASH
 -83.5 mV pH 8.414
 BEAKER[6] ANALYSIS

METHOD 1 SUMMARY

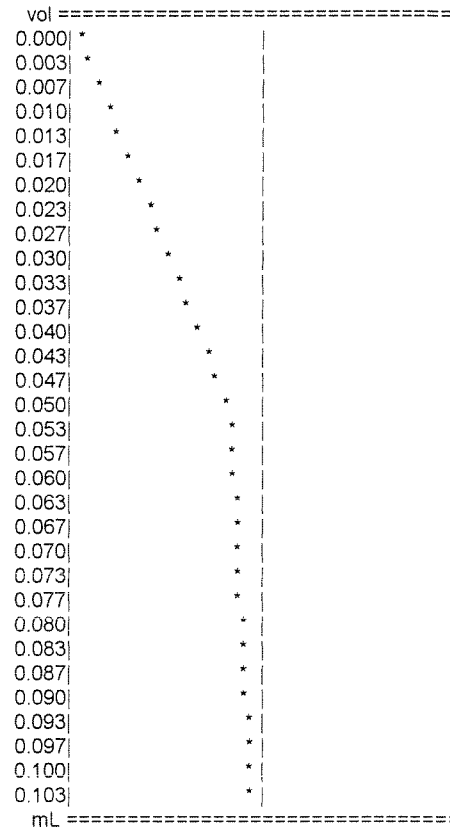
SAMPLE ID NUMBER: 1
 TEST: MB
 SITE: _____
 ANALYST: _____
 15:26 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT 0.02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -53.5 mV
 pH= 7.898

1 v= 0.052 mL E= 127.4 mV
 pH= 4.791
 2 v= 0.103 mL E= 151.1 mV
 pH= 4.384

0.9 min

PRESET END POINT ANALYSIS

SAMPLE = 2.9578 ppm (v)
 END POINT VOL = 0.089 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.015 mL
 Relative Scale



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 30.3 mV pH 6.459
 NO. 2 WASH OF 3
 10 SECOND WASH
 60.4 mV pH 5.942
 NO. 3 WASH OF 3
 10 SECOND WASH
 33.0 mV pH 6.413
 BEAKER[7] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 2
 TEST: ICS
 SITE: _____
 ANALYST: _____
 15:30 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV

SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -125.0 mV
 pH= 9.127
 1 v= 0.465 mL E= -112.6 mV
 pH= 8.914
 2 v= 0.827 mL E= -100.7 mV
 pH= 8.709
 3 v= 1.085 mL E= -90.0 mV
 pH= 8.525
 4 v= 1.292 mL E= -78.9 mV
 pH= 8.335
 5 v= 1.343 mL E= -74.7 mV
 pH= 8.263
 6 v= 1.447 mL E= -66.4 mV
 pH= 8.120
 7 v= 1.550 mL E= -55.4 mV
 pH= 7.931
 8 v= 1.602 mL E= -46.8 mV
 pH= 7.783
 9 v= 1.654 mL E= -35.8 mV
 pH= 7.594
 10 v= 1.705 mL E= -21.2 mV
 pH= 7.344
 11 v= 1.757 mL E= 2.8 mV
 pH= 6.931
 12 v= 1.809 mL E= 22.5 mV
 pH= 6.593
 13 v= 1.860 mL E= 39.9 mV
 pH= 6.294
 14 v= 1.912 mL E= 59.6 mV
 pH= 5.956
 15 v= 1.964 mL E= 97.0 mV
 pH= 5.313
 16 v= 2.015 mL E= 132.6 mV
 pH= 4.702
 17 v= 2.067 mL E= 149.3 mV
 pH= 4.415

5.8 min

=====

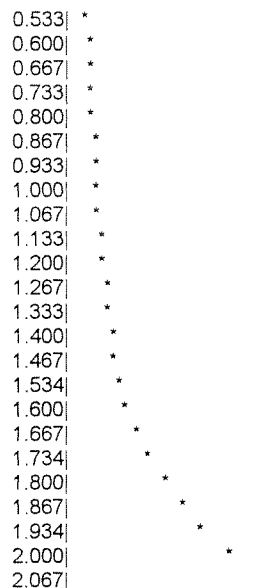
PRESET END POINT ANALYSIS

=====

SAMPLE = 43.929 ppm (v)
 END POINT VOL= 1.317 mL (-76.9 mV)
 (pH 8.300)
 Excess Titre= 0.750 mL
 SAMPLE = 68.449 ppm (v)
 END POINT VOL= 2.052 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.015 mL
 Relative Scale

vol =====

0.000	*
0.067	*
0.133	*
0.200	*
0.267	*
0.333	*
0.400	*
0.467	*



ml =====

Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 35.6 mV pH 6.368
 NO. 2 WASH OF 3
 10 SECOND WASH
 51.3 mV pH 6.098
 NO. 3 WASH OF 3
 10 SECOND WASH
 34.6 mV pH 6.385
 BEAKER[8] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 3
 TEST: 4870-9
 SITE: _____
 ANALYST: _____
 15:38 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -65.5 mV
 pH= 8.105
 1 v= 1.085 mL E= -28.3 mV
 pH= 7.466
 2 v= 1.395 mL E= -16.0 mV
 pH= 7.254
 3 v= 1.602 mL E= -10.4 mV
 pH= 7.158
 4 v= 2.119 mL E= -2.8 mV
 pH= 7.028

5 v= 3.359 mL E= 14.0 mV
 pH= 6.739
 6 v= 4.185 mL E= 28.1 mV
 pH= 6.497
 7 v= 4.651 mL E= 36.2 mV
 pH= 6.358
 8 v= 5.219 mL E= 46.3 mV
 pH= 6.184
 9 v= 5.787 mL E= 59.3 mV
 pH= 5.961
 10 v= 6.149 mL E= 71.2 mV
 pH= 5.757
 11 v= 6.356 mL E= 81.7 mV
 pH= 5.576
 12 v= 6.459 mL E= 87.7 mV
 pH= 5.473
 13 v= 6.614 mL E= 99.3 mV
 pH= 5.274
 14 v= 6.717 mL E= 110.3 mV
 pH= 5.085
 15 v= 6.769 mL E= 117.4 mV
 pH= 4.963
 16 v= 6.821 mL E= 126.2 mV
 pH= 4.812
 17 v= 6.872 mL E= 136.8 mV
 pH= 4.630
 18 v= 6.924 mL E= 147.8 mV
 pH= 4.441

6.6 min

PRESET END POINT ANALYSIS

SAMPLE = 230.47 ppm (v)
 END POINT VOL = 6.908 mL (144.4 mV)
 (pH 4.500)
 Excess Titre = 0.016 mL
 Relative Scale

vol	*
0.000	*
0.223	*
0.447	*
0.670	*
0.893	*
1.117	*
1.340	*
1.564	*
1.787	*
2.010	*
2.234	*
2.457	*
2.680	*
2.904	*
3.127	*
3.350	*
3.574	*
3.797	*
4.020	*
4.244	*
4.467	*
4.691	*
4.914	*
5.137	*
5.361	*
5.584	*
5.807	*
6.031	*
6.254	*
6.477	*
6.701	*
6.924	*

mL =====
 Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 17.6 mV pH 6.677
 NO. 2 WASH OF 3
 10 SECOND WASH
 41.7 mV pH 6.263
 NO. 3 WASH OF 3
 10 SECOND WASH
 22.2 mV pH 6.598
 BEAKER[9] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 4
 TEST: 4870-5d
 SITE: _____
 ANALYST: _____
 15:47 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -64.5 mV
 pH= 8.087
 1 v= 0.723 mL E= -36.1 mV
 pH= 7.600
 2 v= 0.982 mL E= -23.1 mV
 pH= 7.376
 3 v= 1.137 mL E= -18.5 mV
 pH= 7.297
 4 v= 1.705 mL E= -8.6 mV
 pH= 7.127
 5 v= 2.687 mL E= 6.5 mV
 pH= 6.868
 6 v= 3.410 mL E= 17.6 mV
 pH= 6.677
 7 v= 4.082 mL E= 27.4 mV
 pH= 6.509
 8 v= 4.806 mL E= 38.4 mV
 pH= 6.320
 9 v= 5.426 mL E= 50.6 mV
 pH= 6.110
 10 v= 5.839 mL E= 61.1 mV
 pH= 5.930
 11 v= 6.149 mL E= 71.5 mV
 pH= 5.751
 12 v= 6.356 mL E= 80.6 mV
 pH= 5.595
 13 v= 6.511 mL E= 88.7 mV
 pH= 5.456
 14 v= 6.666 mL E= 99.4 mV
 pH= 5.272
 15 v= 6.769 mL E= 109.5 mV
 pH= 5.099
 16 v= 6.821 mL E= 115.8 mV
 pH= 4.991

17 v= 6.872 mL E= 123.4 mV
 pH= 4.860
 18 v= 6.924 mL E= 132.9 mV
 pH= 4.697
 19 v= 6.976 mL E= 143.5 mV
 pH= 4.515
 20 v= 7.027 mL E= 153.6 mV
 pH= 4.341

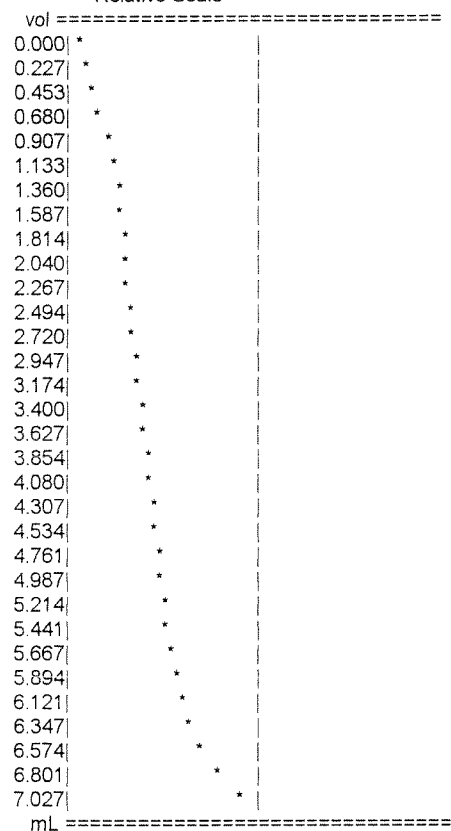
7.1 min

=====

PRESET END POINT ANALYSIS

=====

SAMPLE = 232.88 ppm (v)
~~END POINT VOL= 6.980 mL~~ (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.047 mL
 Relative Scale



mL =====

Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 22.1 mV pH 6.600
 NO. 2 WASH OF 3
 10 SECOND WASH
 40.3 mV pH 6.287
 NO. 3 WASH OF 3
 10 SECOND WASH
 22.3 mV pH 6.597
 BEAKER[10] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 5
 TEST: 41843-2
 SITE: _____
 ANALYST: _____

15:56 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -34.9 mV
 pH= 7.579

1 v= 0.052 mL E= -44.5 mV
 pH= 7.744

*** deviating from endpoint
 2 v= 0.103 mL E= -46.8 mV
 pH= 7.783

*** deviating from endpoint
 3 v= 1.033 mL E= -22.5 mV
 pH= 7.366

4 v= 1.705 mL E= -5.7 mV
 pH= 7.077

5 v= 2.119 mL E= 1.8 mV
 pH= 6.949

6 v= 2.894 mL E= 11.7 mV
 pH= 6.779

7 v= 4.030 mL E= 26.5 mV
 pH= 6.524

8 v= 4.806 mL E= 37.9 mV
 pH= 6.329

9 v= 5.426 mL E= 48.0 mV
 pH= 6.155

10 v= 5.994 mL E= 59.8 mV
 pH= 5.952

11 v= 6.356 mL E= 70.8 mV
 pH= 5.763

12 v= 6.562 mL E= 78.2 mV
 pH= 5.636

13 v= 6.821 mL E= 90.0 mV
 pH= 5.434

14 v= 6.976 mL E= 100.0 mV
 pH= 5.262

15 v= 7.079 mL E= 108.7 mV
 pH= 5.113

16 v= 7.182 mL E= 121.0 mV
 pH= 4.901

17 v= 7.234 mL E= 128.7 mV
 pH= 4.769

18 v= 7.286 mL E= 137.8 mV
 pH= 4.613

19 v= 7.337 mL E= 147.6 mV
 pH= 4.444

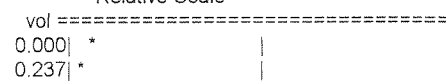
6.7 min

=====

PRESET END POINT ANALYSIS

=====

SAMPLE = 244.23 ppm (v)
~~END POINT VOL= 7.320 mL~~ (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.017 mL
 Relative Scale



```

0.473| *
0.710| *
0.947| *
1.183| *
1.420| *
1.657| *
1.894| *
2.130| *
2.367| *
2.604| *
2.840| *
3.077| *
3.314| *
3.550| *
3.787| *
4.024| *
4.260| *
4.497| *
4.734| *
4.971| *
5.207| *
5.444| *
5.681| *
5.917| *
6.154| *
6.391| *
6.627| *
6.864| *
7.101| *
7.337| *

```

mL =====

Symbols: * = mV

```

NO. 1 WASH OF 3
10 SECOND WASH
  26.2 mV pH 6.530
NO. 2 WASH OF 3
10 SECOND WASH
  32.5 mV pH 6.421
NO. 3 WASH OF 3
10 SECOND WASH
  21.1 mV pH 6.617
BEAKER[11] ANALYSIS

```

METHOD 1 SUMMARY

```

=====
SAMPLE ID NUMBER: 6
TEST: 4843-2A
SITE: _____
ANALYST: _____
16:05 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV
SAMPLE VOLUME 30.000 mL
TITRANT 0.02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR 3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500
0 v= 0.000 mL E= -40.6 mV
pH= 7.677
1 v= 0.052 mL E= -49.5 mV
pH= 7.830

```

```

*** deviating from endpoint
2 v= 0.103 mL E= -50.3 mV
pH= 7.843
*** deviating from endpoint
3 v= 5.116 mL E= 39.4 mV
pH= 6.303
4 v= 5.581 mL E= 55.1 mV
pH= 6.033
5 v= 5.736 mL E= 60.3 mV
pH= 5.944
6 v= 6.046 mL E= 67.7 mV
pH= 5.817
7 v= 6.614 mL E= 84.3 mV
pH= 5.532
8 v= 6.872 mL E= 96.2 mV
pH= 5.327
9 v= 7.027 mL E= 105.9 mV
pH= 5.161
10 v= 7.131 mL E= 114.3 mV
pH= 5.016
11 v= 7.234 mL E= 125.7 mV
pH= 4.821
12 v= 7.286 mL E= 132.6 mV
pH= 4.702
13 v= 7.337 mL E= 140.7 mV
pH= 4.563
14 v= 7.389 mL E= 149.2 mV
pH= 4.417

```

5.1 min

PRESET END POINT ANALYSIS

```

=====
SAMPLE = 245.55 ppm (v)
END POINT VOL = 7.360 mL (144.4 mV)
(pH 4.500)
Excess Titre= 0.029 mL
Relative Scale

```

```

vol =====
0.000| *
0.238| *
0.477| *
0.715| *
0.953| *
1.192| *
1.430| *
1.669| *
1.907| *
2.145| *
2.384| *
2.622| *
2.860| *
3.099| *
3.337| *
3.575| *
3.814| *
4.052| *
4.290| *
4.529| *
4.767| *
5.006| *
5.244| *
5.482| *
5.721| *
5.959| *
6.197| *
6.436| *
6.674| *
6.912| *
7.151| *
7.389| *

```

mL =====
Symbols: * = mV

NO. 1 WASH OF 3
10 SECOND WASH
26.7 mV pH 6.521
NO. 2 WASH OF 3
10 SECOND WASH
36.4 mV pH 6.354
NO. 3 WASH OF 3
10 SECOND WASH
22.9 mV pH 6.586
BEAKER[12] ANALYSIS

METHOD 1 SUMMARY

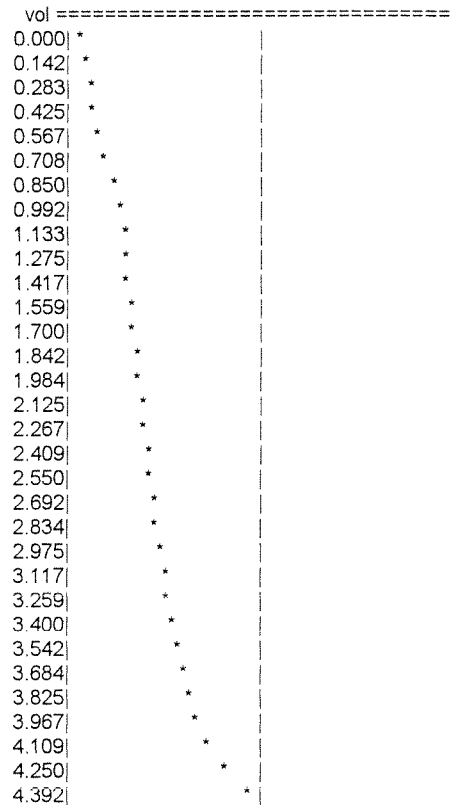
SAMPLE ID NUMBER: 7
TEST: 4843-2
SITE: _____
ANALYST: _____
16:13 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV
SAMPLE VOLUME 30.000 mL
TITRANT .02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR 3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500
0 v= 0.000 mL E= -65.8 mV
pH= 8.110
1 v= 0.672 mL E= -35.2 mV
pH= 7.584
2 v= 0.878 mL E= -18.6 mV
pH= 7.299
3 v= 0.930 mL E= -12.9 mV
pH= 7.201
4 v= 0.982 mL E= -11.0 mV
pH= 7.168
5 v= 1.809 mL E= 6.2 mV
pH= 6.873
6 v= 2.635 mL E= 28.3 mV
pH= 6.493
7 v= 2.945 mL E= 39.7 mV
pH= 6.298
8 v= 3.152 mL E= 46.7 mV
pH= 6.177
9 v= 3.462 mL E= 56.7 mV
pH= 6.006
10 v= 3.772 mL E= 70.2 mV
pH= 5.774
11 v= 3.927 mL E= 80.2 mV
pH= 5.602
12 v= 4.030 mL E= 88.5 mV
pH= 5.459
13 v= 4.134 mL E= 99.8 mV
pH= 5.265
14 v= 4.185 mL E= 107.2 mV
pH= 5.138
15 v= 4.237 mL E= 116.3 mV
pH= 4.982
16 v= 4.289 mL E= 127.8 mV
pH= 4.784

17 v= 4.340 mL E= 140.9 mV
pH= 4.559
18 v= 4.392 mL E= 152.7 mV
pH= 4.357

6.3 min

PRESET END POINT ANALYSIS

SAMPLE = 145.32 ppm (v)
END POINT VOL = 4.356 mL (144.4 mV)
(pH 4.500)
Excess Titre= 0.037 mL
Relative Scale



mL =====
Symbols: * = mV

NO. 1 WASH OF 3
10 SECOND WASH
30.6 mV pH 6.454
NO. 2 WASH OF 3
10 SECOND WASH
41.3 mV pH 6.270
NO. 3 WASH OF 3
10 SECOND WASH
27.7 mV pH 6.504
BEAKER[13] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 8
TEST: 4843-21
SITE: _____
ANALYST: _____
16:21 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV

SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -4.2 mV
 pH= 7.052
 1 v= 2.480 mL E= -0.8 mV
 pH= 6.993
 2 v= 7.492 mL E= 13.7 mV
 pH= 6.744
 3 v= 9.146 mL E= 17.5 mV
 pH= 6.679
 4 v= 14.158 mL E= 29.9 mV
 pH= 6.466
 5 v= 17.930 mL E= 38.5 mV
 pH= 6.318
 6 v= 22.684 mL E= 49.8 mV
 pH= 6.124
 7 v= 25.009 mL E= 55.7 mV
 pH= 6.023

4.1 min

=====

PRESET END POINT ANALYSIS

=====

*** preset endpoint was not reached
 *** analysis failed

NO. 1 WASH OF 3
 10 SECOND WASH
 -33.8 mV pH 7.560
 NO. 2 WASH OF 3
 10 SECOND WASH
 -20.9 mV pH 7.339
 NO. 3 WASH OF 3
 10 SECOND WASH
 -23.5 mV pH 7.383
 BEAKER[14] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 9
 TEST: 418413-5 3x
 SITE: _____
 ANALYST: _____
 16:27 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -40.3 mV
 pH= 7.672

1 v= 0.878 mL E= -20.5 mV
 pH= 7.332
 2 v= 1.343 mL E= -13.3 mV
 pH= 7.208
 3 v= 2.274 mL E= -1.5 mV
 pH= 7.005
 4 v= 3.255 mL E= 9.0 mV
 pH= 6.825
 5 v= 4.340 mL E= 18.8 mV
 pH= 6.657
 6 v= 5.632 mL E= 30.6 mV
 pH= 6.454
 7 v= 6.717 mL E= 41.6 mV
 pH= 6.265
 8 v= 7.596 mL E= 52.0 mV
 pH= 6.086
 9 v= 8.319 mL E= 62.4 mV
 pH= 5.908
 10 v= 8.888 mL E= 73.6 mV
 pH= 5.715
 11 v= 9.249 mL E= 82.9 mV
 pH= 5.556
 12 v= 9.559 mL E= 93.1 mV
 pH= 5.380
 13 v= 9.818 mL E= 105.0 mV
 pH= 5.176
 14 v= 9.973 mL E= 114.7 mV
 pH= 5.009
 15 v= 10.076 mL E= 122.8 mV
 pH= 4.870
 16 v= 10.179 mL E= 132.7 mV
 pH= 4.700
 17 v= 10.283 mL E= 144.3 mV
 pH= 4.501
 18 v= 10.334 mL E= 150.2 mV
 pH= 4.400

6.6 min

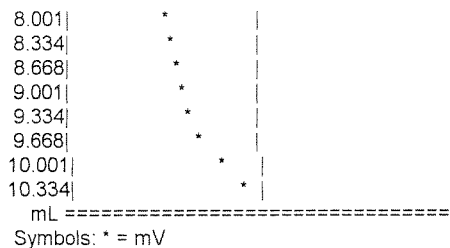
=====

PRESET END POINT ANALYSIS

=====

SAMPLE = 343.09 ppm (v)
~~END POINT VOL = 10.283 mL (144.4 mV)~~
 (pH 4.500)
 Excess Titre= 0.051 mL
 Relative Scale

vol	Relative Scale
0.000	*
0.333	*
0.667	*
1.000	*
1.333	*
1.667	*
2.000	*
2.334	*
2.667	*
3.000	*
3.334	*
3.667	*
4.000	*
4.334	*
4.667	*
5.001	*
5.334	*
5.667	*
6.001	*
6.334	*
6.667	*
7.001	*
7.334	*
7.668	*



NO. 1 WASH OF 3
10 SECOND WASH
30.8 mV pH 6.451
NO. 2 WASH OF 3
10 SECOND WASH
35.1 mV pH 6.377
NO. 3 WASH OF 3
10 SECOND WASH
25.3 mV pH 6.545

BEAKER[15] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 10

TEST: 4187B-6

SITE: _____

ANALYST: _____

16:36 05-21-10 ELECTRODE: 1:pH

TECHNIQUE 8 PRESET END POINT

SLOPE 58.22 mV/dec

E₀ -1.2 mV

SAMPLE VOLUME 30.000 mL

TITRANT .02000 M of _____

CONST INCREMENT 10.0 mV

MAX TITRANT VOL 25.000 mL

TIMED READINGS 10.0 sec

PRESTIR 3.0 sec

CONTINUOUS STIRRING

REACTION RATIO 0.5000

MOLECULAR WEIGHT 100.09

CAL CONSTANT 1.03345

PRESET pH(1) 8.300

PRESET pH(2) 4.500

0 v= 0.000 mL E= -7.6 mV

pH= 7.110

1 v= 0.052 mL E= -17.6 mV

pH= 7.282

*** deviating from endpoint

2 v= 0.103 mL E= -23.1 mV

pH= 7.376

*** deviating from endpoint

3 v= 0.258 mL E= -23.9 mV

pH= 7.390

*** deviating from endpoint

4 v= 5.271 mL E= 34.7 mV

pH= 6.384

5 v= 5.632 mL E= 41.4 mV

pH= 6.268

6 v= 5.994 mL E= 46.1 mV

pH= 6.188

7 v= 7.079 mL E= 57.6 mV

pH= 5.990

8 v= 8.216 mL E= 76.1 mV

pH= 5.672

9 v= 8.629 mL E= 85.1 mV

pH= 5.518

10 v= 8.991 mL E= 95.3 mV

pH= 5.343

11 v= 9.249 mL E= 105.0 mV

pH= 5.176
12 v= 9.456 mL E= 115.8 mV
pH= 4.991
13 v= 9.611 mL E= 127.1 mV
pH= 4.796
14 v= 9.714 mL E= 137.0 mV
pH= 4.626
15 v= 9.766 mL E= 142.5 mV
pH= 4.532
16 v= 9.818 mL E= 148.4 mV
pH= 4.431

5.8 min

PRESET END POINT ANALYSIS

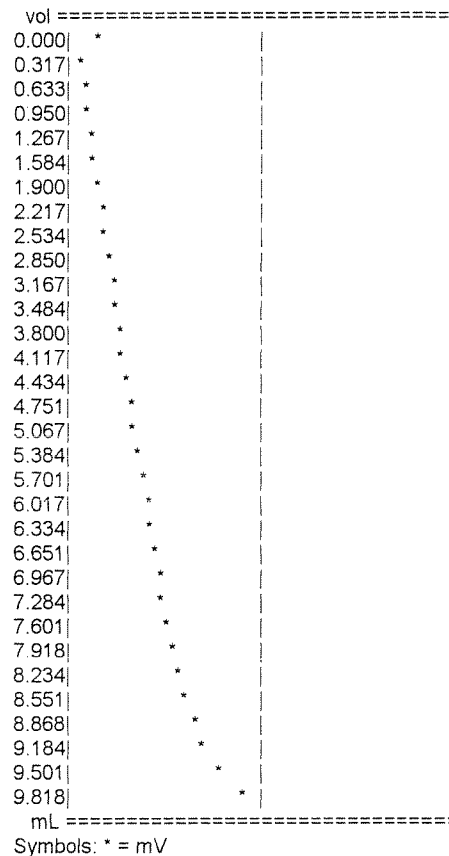
SAMPLE = 326.37 ppm (v)

END POINT VOL= ~~9.782~~ mL (144.4 mV)

(pH 4.500)

Excess Titre= 0.035 mL

Relative Scale



NO. 1 WASH OF 3
10 SECOND WASH
21.1 mV pH 6.617
NO. 2 WASH OF 3
10 SECOND WASH
26.8 mV pH 6.519
NO. 3 WASH OF 3
10 SECOND WASH
19.0 mV pH 6.653
BEAKER[16] ANALYSIS

METHOD 1 SUMMARY

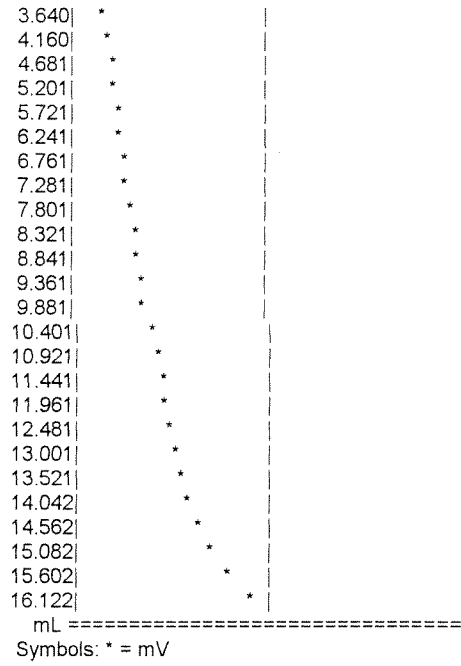
SAMPLE ID NUMBER: 11

TEST: 4543-7
 SITE: _____
 ANALYST: _____
 16:45 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -11.0 mV
 pH= 7.168
 1 v= 2.015 mL E= -2.7 mV
 pH= 7.026
 2 v= 4.444 mL E= 13.1 mV
 pH= 6.755
 3 v= 5.426 mL E= 18.4 mV
 pH= 6.664
 4 v= 7.648 mL E= 31.3 mV
 pH= 6.442
 5 v= 9.249 mL E= 41.7 mV
 pH= 6.263
 6 v= 10.645 mL E= 51.0 mV
 pH= 6.104
 7 v= 12.091 mL E= 61.9 mV
 pH= 5.916
 8 v= 13.280 mL E= 72.8 mV
 pH= 5.729
 9 v= 14.158 mL E= 83.3 mV
 pH= 5.549
 10 v= 14.778 mL E= 93.4 mV
 pH= 5.375
 11 v= 15.243 mL E= 103.8 mV
 pH= 5.197
 12 v= 15.553 mL E= 113.4 mV
 pH= 5.032
 13 v= 15.812 mL E= 124.9 mV
 pH= 4.834
 14 v= 15.967 mL E= 134.3 mV
 pH= 4.673
 15 v= 16.070 mL E= 141.9 mV
 pH= 4.542
 16 v= 16.122 mL E= 146.0 mV
 pH= 4.472
 6.5 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 537.19 ppm (v)
 END POINT VOL = 16.101 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.021 mL
 Relative Scale

vol	Relative Scale
0.000	*
0.520	*
1.040	*
1.560	*
2.080	*
2.600	*
3.120	*



NO. 1 WASH OF 3
 10 SECOND WASH
 23.7 mV pH 6.572
 NO. 2 WASH OF 3
 10 SECOND WASH
 28.5 mV pH 6.490
 NO. 3 WASH OF 3
 10 SECOND WASH
 20.1 mV pH 6.634
 BEAKER[17] ANALYSIS

===== METHOD 1 SUMMARY =====

SAMPLE ID NUMBER: 12
 TEST: 4543-8
 SITE: _____
 ANALYST: _____
 16:53 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -9.7 mV
 pH= 7.146
 1 v= 1.757 mL E= -2.5 mV
 pH= 7.022
 2 v= 4.185 mL E= 13.2 mV
 pH= 6.753
 3 v= 5.167 mL E= 19.2 mV
 pH= 6.650
 4 v= 6.872 mL E= 29.1 mV

pH= 6.480
 5 v= 8.681 mL E= 39.2 mV
 pH= 6.306
 6 v= 10.541 mL E= 50.1 mV
 pH= 6.119
 7 v= 12.143 mL E= 60.5 mV
 pH= 5.940
 8 v= 13.538 mL E= 71.7 mV
 pH= 5.748
 9 v= 14.520 mL E= 81.7 mV
 pH= 5.576
 10 v= 15.295 mL E= 92.2 mV
 pH= 5.396
 11 v= 15.863 mL E= 103.1 mV
 pH= 5.209
 12 v= 16.225 mL E= 112.8 mV
 pH= 5.042
 13 v= 16.483 mL E= 122.4 mV
 pH= 4.877
 14 v= 16.690 mL E= 133.0 mV
 pH= 4.695
 15 v= 16.845 mL E= 143.3 mV
 pH= 4.518
 16 v= 16.897 mL E= 147.1 mV
 pH= 4.453

6.4 min

=====

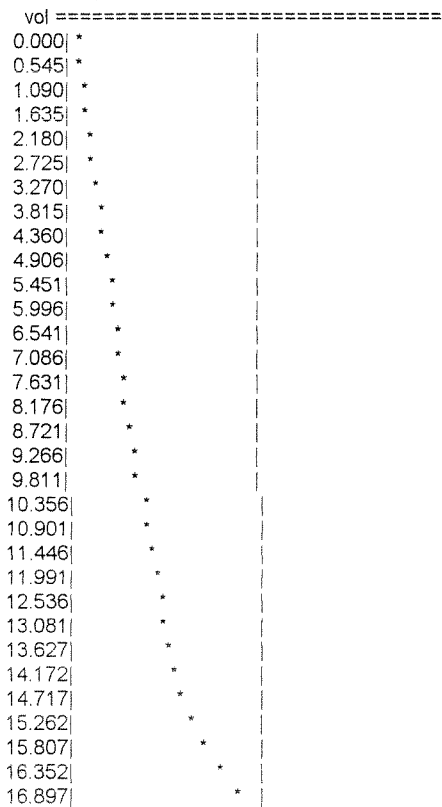
PRESET END POINT ANALYSIS

=====

SAMPLE = 562.49 ppm (v)
 END POINT VOL = 16.860 mL (144.4 mV)
 (pH 4.500)

Excess Titre= 0.037 mL

Relative Scale



mL =====

Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 26.3 mV pH 6.528
 NO. 2 WASH OF 3
 10 SECOND WASH
 34.1 mV pH 6.394
 NO. 3 WASH OF 3
 10 SECOND WASH
 25.6 mV pH 6.540
 BEAKER[18] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 13
 TEST: MS43-4
 SITE: _____
 ANALYST: _____
 17:02 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -53.4 mV
 pH= 7.897
 1 v= 0.517 mL E= -33.5 mV
 pH= 7.555
 2 v= 0.775 mL E= -21.8 mV
 pH= 7.354
 3 v= 0.982 mL E= -16.1 mV
 pH= 7.256
 4 v= 1.602 mL E= -4.8 mV
 pH= 7.062
 5 v= 2.429 mL E= 10.7 mV
 pH= 6.796
 6 v= 2.945 mL E= 19.6 mV
 pH= 6.643
 7 v= 3.565 mL E= 29.6 mV
 pH= 6.471
 8 v= 4.237 mL E= 42.2 mV
 pH= 6.255
 9 v= 4.702 mL E= 53.5 mV
 pH= 6.061
 10 v= 5.012 mL E= 63.1 mV
 pH= 5.896
 11 v= 5.271 mL E= 74.6 mV
 pH= 5.698
 12 v= 5.426 mL E= 84.6 mV
 pH= 5.526
 13 v= 5.529 mL E= 94.0 mV
 pH= 5.365
 14 v= 5.632 mL E= 109.3 mV
 pH= 5.102
 15 v= 5.684 mL E= 121.0 mV
 pH= 4.901
 16 v= 5.736 mL E= 136.2 mV
 pH= 4.640
 17 v= 5.787 mL E= 150.5 mV
 pH= 4.395

6.1 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 192.34 ppm (v)
 END POINT VOL = 5.765 mL (144.4 mV)
 (pH 4.500)
 Excess Titre = 0.022 mL
 Relative Scale

vol	Relative Scale
0.000	*
0.187	*
0.373	*
0.560	*
0.747	*
0.933	*
1.120	*
1.307	*
1.493	*
1.680	*
1.867	*
2.054	*
2.240	*
2.427	*
2.614	*
2.800	*
2.987	*
3.174	*
3.360	*
3.547	*
3.734	*
3.920	*
4.107	*
4.294	*
4.480	*
4.667	*
4.854	*
5.041	*
5.227	*
5.414	*
5.601	*
5.787	*

mL
 Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 37.8 mV pH 6.330
 NO. 2 WASH OF 3
 10 SECOND WASH
 34.7 mV pH 6.384
 NO. 3 WASH OF 3
 10 SECOND WASH
 27.7 mV pH 6.504

BEAKER[19] ANALYSIS

===== METHOD 1 SUMMARY =====

SAMPLE ID NUMBER: 14
 TEST: U843-10
 SITE: _____
 ANALYST: _____
 17:11 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec

PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -68.8 mV
 pH= 8.161
 1 v= 0.775 mL E= -36.4 mV
 pH= 7.605
 2 v= 1.033 mL E= -24.6 mV
 pH= 7.402
 3 v= 1.240 mL E= -19.6 mV
 pH= 7.316
 4 v= 2.015 mL E= -6.7 mV
 pH= 7.095
 5 v= 2.894 mL E= 6.6 mV
 pH= 6.866
 6 v= 3.617 mL E= 16.1 mV
 pH= 6.703
 7 v= 4.495 mL E= 26.7 mV
 pH= 6.521
 8 v= 5.374 mL E= 38.8 mV
 pH= 6.313
 9 v= 5.994 mL E= 48.8 mV
 pH= 6.141
 10 v= 6.511 mL E= 58.7 mV
 pH= 5.971
 11 v= 6.976 mL E= 70.6 mV
 pH= 5.767
 12 v= 7.286 mL E= 81.8 mV
 pH= 5.575
 13 v= 7.492 mL E= 91.8 mV
 pH= 5.403
 14 v= 7.648 mL E= 102.1 mV
 pH= 5.226
 15 v= 7.751 mL E= 111.1 mV
 pH= 5.071
 16 v= 7.854 mL E= 123.1 mV
 pH= 4.865
 17 v= 7.906 mL E= 130.4 mV
 pH= 4.740
 18 v= 7.958 mL E= 138.6 mV
 pH= 4.599
 19 v= 8.009 mL E= 147.2 mV
 pH= 4.451

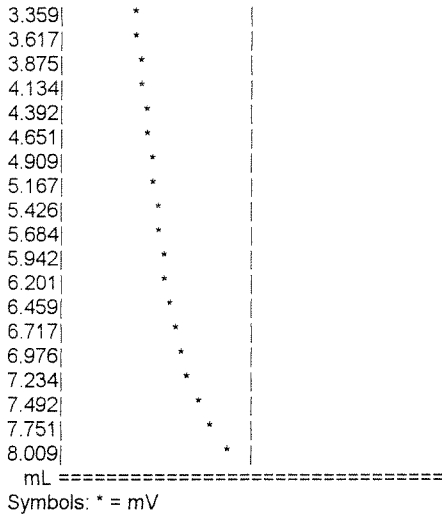
6.9 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 266.65 ppm (v)
 END POINT VOL = 7.992 mL (144.4 mV)
 (pH 4.500)

Excess Titre = 0.017 mL
 Relative Scale

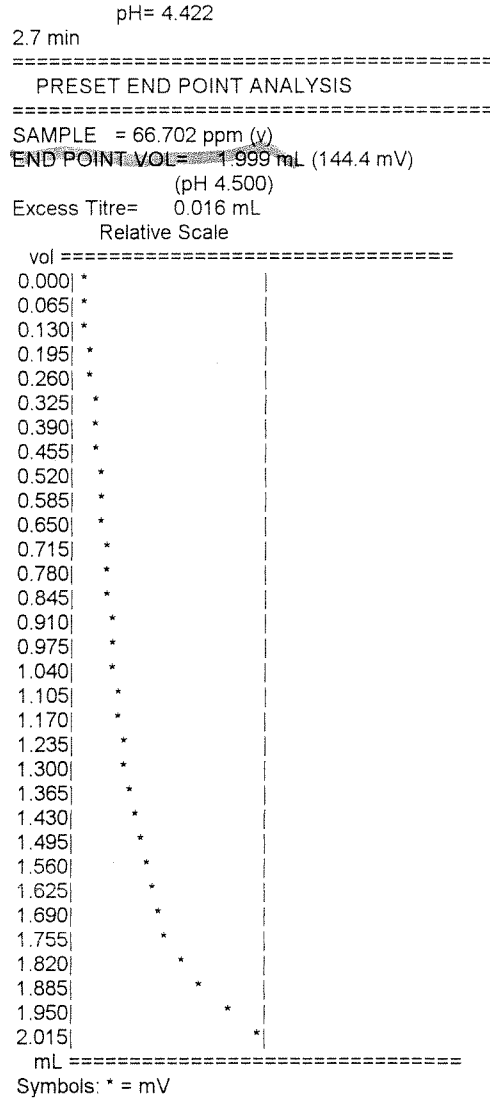
vol	Relative Scale
0.000	*
0.258	*
0.517	*
0.775	*
1.033	*
1.292	*
1.550	*
1.809	*
2.067	*
2.325	*
2.584	*
2.842	*
3.100	*



NO. 1 WASH OF 3
 10 SECOND WASH
 35.3 mV pH 6.373
 NO. 2 WASH OF 3
 10 SECOND WASH
 32.1 mV pH 6.428
 NO. 3 WASH OF 3
 10 SECOND WASH
 20.2 mV pH 6.633
 BEAKER[20] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 15
 TEST: 41820-1
 SITE: _____
 ANALYST: _____
 17:20 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 24.0 mV
 pH= 6.567
 1 v= 1.292 mL E= 53.9 mV
 pH= 6.054
 2 v= 1.705 mL E= 82.4 mV
 pH= 5.564
 3 v= 1.757 mL E= 86.4 mV
 pH= 5.496
 4 v= 1.860 mL E= 103.3 mV
 pH= 5.205
 5 v= 1.912 mL E= 116.6 mV
 pH= 4.977
 6 v= 1.964 mL E= 134.2 mV
 pH= 4.675
 7 v= 2.015 mL E= 148.9 mV



NO. 1 WASH OF 3
 10 SECOND WASH
 44.0 mV pH 6.224
 NO. 2 WASH OF 3
 10 SECOND WASH
 34.7 mV pH 6.384
 NO. 3 WASH OF 3
 10 SECOND WASH
 26.4 mV pH 6.526
 BEAKER[21] ANALYSIS

METHOD 1 SUMMARY

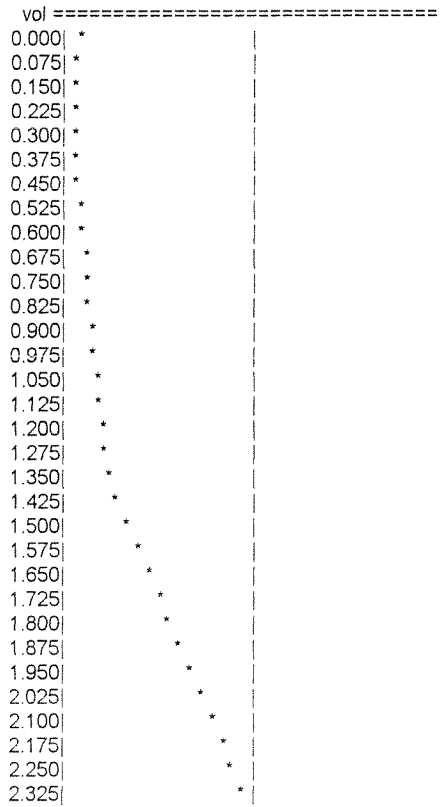
SAMPLE ID NUMBER: 16
 TEST: 41820-1
 SITE: _____
 ANALYST: _____
 17:25 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV

MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 27.5 mV
 pH= 6.507
 1 v= 0.155 mL E= 20.6 mV
 pH= 6.626
 *** deviating from endpoint
 2 v= 0.362 mL E= 20.6 mV
 pH= 6.626
 *** deviating from endpoint
 3 v= 1.343 mL E= 53.5 mV
 pH= 6.061
 4 v= 2.325 mL E= 193.2 mV
 pH= 3.661

1.7 min

PRESET END POINT ANALYSIS

SAMPLE = 66.127 ppm (v)
 END POINT VOL = 1.982 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.343 mL
 Relative Scale



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 54.6 mV pH 6.042
 NO. 2 WASH OF 3

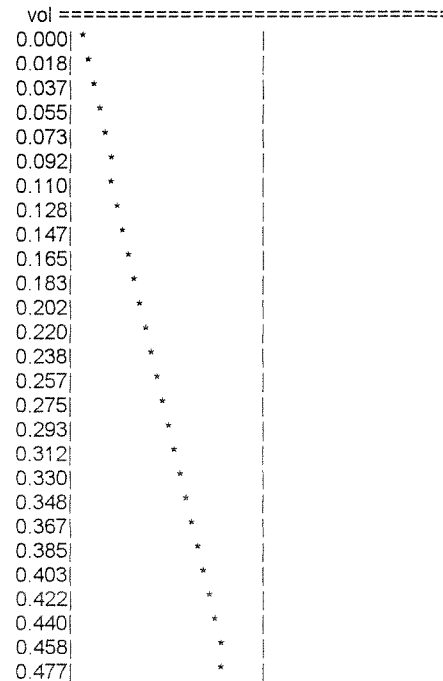
10 SECOND WASH
 43.2 mV pH 6.238
 NO. 3 WASH OF 3
 10 SECOND WASH
 32.1 mV pH 6.428
 BEAKER[22] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 17
 TEST: 11880-2
 SITE: _____
 ANALYST: _____
 17:29 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 70.9 mV
 pH= 5.762
 1 v= 0.568 mL E= 159.1 mV
 pH= 4.247
 0.7 min

PRESET END POINT ANALYSIS

SAMPLE = 15.795 ppm (v)
 END POINT VOL = 0.473 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.095 mL
 Relative Scale



0.495| *
 0.513| *
 0.532| *
 0.550| *
 0.568| *
 mL =====

Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 46.4 mV pH 6.183
 NO. 2 WASH OF 3
 10 SECOND WASH
 38.7 mV pH 6.315
 NO. 3 WASH OF 3
 10 SECOND WASH
 28.4 mV pH 6.492
 BEAKER[23] ANALYSIS

=====
 METHOD 1 SUMMARY
 =====

SAMPLE ID NUMBER: 18
 TEST: U8803
 SITE: _____
 ANALYST: _____
 17:32 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 41.2 mV
 pH= 6.272
 1 v= 0.775 mL E= 65.5 mV
 pH= 5.855
 2 v= 1.085 mL E= 132.5 mV
 pH= 4.704
 3 v= 1.137 mL E= 151.5 mV
 pH= 4.377

1.3 min
 =====
 PRESET END POINT ANALYSIS
 =====

SAMPLE = 37.280 ppm (v)
 END POINT VOL= 1.117 mL (144.4 mV)
 (pH 4.500)

Excess Titre= 0.019 mL
 Relative Scale

vol =====
 0.000| *
 0.037| *
 0.073| *
 0.110| *
 0.147| *
 0.183| *
 0.220| *
 0.257| *
 0.293| *
 0.330| *
 0.367| *

0.403| *
 0.440| *
 0.477| *
 0.513| *
 0.550| *
 0.587| *
 0.623| *
 0.660| *
 0.697| *
 0.733| *
 0.770| *
 0.807| *
 0.843| *
 0.880| *
 0.917| *
 0.953| *
 0.990| *
 1.027| *
 1.063| *
 1.100| *
 1.137| *
 mL =====

Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 46.0 mV pH 6.189
 NO. 2 WASH OF 3
 10 SECOND WASH
 48.8 mV pH 6.141
 NO. 3 WASH OF 3
 10 SECOND WASH
 33.8 mV pH 6.399
 BEAKER[24] ANALYSIS

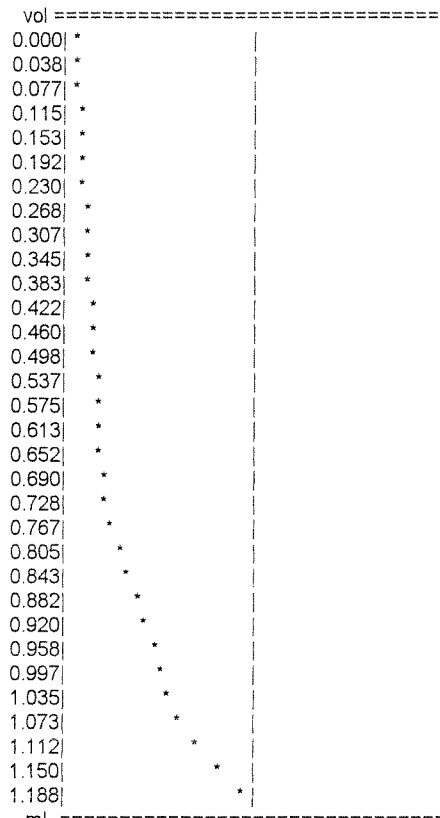
=====
 METHOD 1 SUMMARY
 =====

SAMPLE ID NUMBER: 19
 TEST: U8804
 SITE: _____
 ANALYST: _____
 17:36 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 38.9 mV
 pH= 6.311
 1 v= 0.723 mL E= 57.6 mV
 pH= 5.990
 2 v= 1.085 mL E= 106.1 mV
 pH= 5.157
 3 v= 1.137 mL E= 125.0 mV
 pH= 4.833
 4 v= 1.188 mL E= 146.6 mV
 pH= 4.462

1.7 min
 =====
 PRESET END POINT ANALYSIS
 =====

=====

SAMPLE = 39.473 ppm (v)
 END POINT VOL = 1.183 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.005 mL



mL =====

Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 45.4 mV pH 6.200

NO. 2 WASH OF 3
 10 SECOND WASH
 30.3 mV pH 6.459

NO. 3 WASH OF 3
 10 SECOND WASH
 25.3 mV pH 6.545

BEAKER[25] ANALYSIS

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 20
 TEST: 41860-5
 SITE: _____
 ANALYST: _____
 17:40 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING

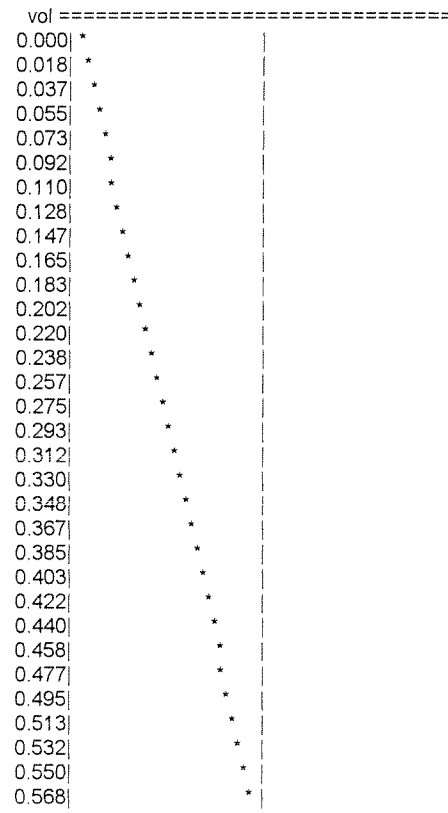
REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 66.8 mV
 pH= 5.832
 1 v= 0.568 mL E= 157.9 mV
 pH= 4.267

0.7 min

PRESET END POINT ANALYSIS

=====

SAMPLE = 16.146 ppm (v)
 END POINT VOL = 0.484 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.084 mL



mL =====

Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 46.4 mV pH 6.183

NO. 2 WASH OF 3
 10 SECOND WASH
 38.4 mV pH 6.320

NO. 3 WASH OF 3
 10 SECOND WASH
 28.9 mV pH 6.483

BEAKER[26] ANALYSIS

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 21
 TEST: 41860-6
 SITE: _____

ANALYST: _____
 17:43 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 27.0 mV
 pH= 6.516
 1 v= 1.240 mL E= 41.5 mV
 pH= 6.267
 2 v= 2.119 mL E= 74.3 mV
 pH= 5.703
 3 v= 2.222 mL E= 80.0 mV
 pH= 5.605
 4 v= 2.325 mL E= 85.6 mV
 pH= 5.509
 5 v= 2.532 mL E= 120.0 mV
 pH= 4.918
 6 v= 2.584 mL E= 132.4 mV
 pH= 4.705
 7 v= 2.635 mL E= 145.0 mV
 pH= 4.489

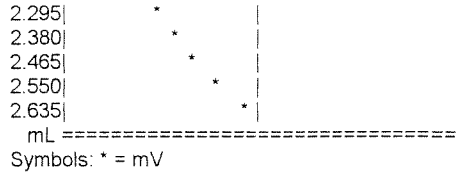
2.8 min

PRESET END POINT ANALYSIS

SAMPLE = 87.835 ppm (v)
 END POINT VOL = 2.633 mL (144.4 mV)
 (pH 4.500)

Excess Titre= 0.003 mL
 Relative Scale

vol	*
0.000	*
0.085	*
0.170	*
0.255	*
0.340	*
0.425	*
0.510	*
0.595	*
0.680	*
0.765	*
0.850	*
0.935	*
1.020	*
1.105	*
1.190	*
1.275	*
1.360	*
1.445	*
1.530	*
1.615	*
1.700	*
1.785	*
1.870	*
1.955	*
2.040	*
2.125	*
2.210	*



NO. 1 WASH OF 3
 10 SECOND WASH
 43.4 mV pH 6.234
 NO. 2 WASH OF 3
 10 SECOND WASH
 42.6 mV pH 6.248
 NO. 3 WASH OF 3
 10 SECOND WASH
 30.3 mV pH 6.459
 BEAKER[27] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 22
 TEST: 61850-7
 SITE: _____
 ANALYST: _____

17:48 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500

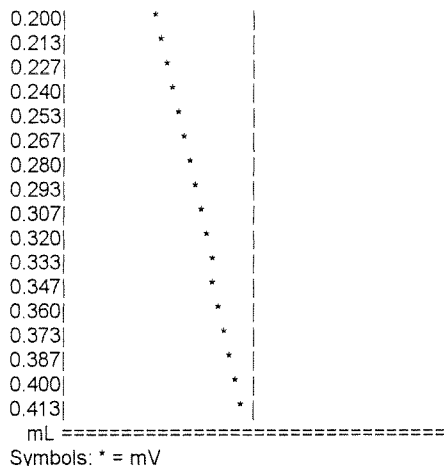
0 v= 0.000 mL E= 60.5 mV
 pH= 5.940
 1 v= 0.413 mL E= 145.3 mV
 pH= 4.484
 0.6 min

PRESET END POINT ANALYSIS

SAMPLE = 13.639 ppm (v)
 END POINT VOL = 0.409 mL (144.4 mV)
 (pH 4.500)

Excess Titre= 0.005 mL
 Relative Scale

vol	*
0.000	*
0.013	*
0.027	*
0.040	*
0.053	*
0.067	*
0.080	*
0.093	*
0.107	*
0.120	*
0.133	*
0.147	*
0.160	*
0.173	*
0.187	*



NO. 1 WASH OF 3
 10 SECOND WASH
 47.5 mV pH 6.164
 NO. 2 WASH OF 3
 10 SECOND WASH
 38.1 mV pH 6.325
 NO. 3 WASH OF 3
 10 SECOND WASH
 31.1 mV pH 6.445
 BEAKER[28] ANALYSIS

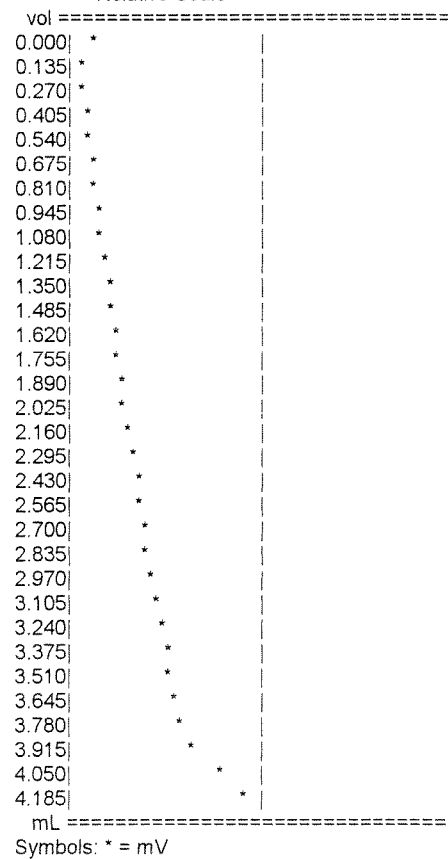
METHOD 1 SUMMARY

SAMPLE ID NUMBER: 23
 TEST: 41890-1
 SITE: _____
 ANALYST: _____
 17:51 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -23.3 mV
 pH= 7.380
 1 v= 0.052 mL E= -37.5 mV
 pH= 7.624
 *** deviating from endpoint
 2 v= 0.103 mL E= -40.4 mV
 pH= 7.673
 *** deviating from endpoint
 3 v= 0.982 mL E= -18.7 mV
 pH= 7.301
 4 v= 1.912 mL E= 6.5 mV
 pH= 6.868
 5 v= 2.274 mL E= 21.2 mV
 pH= 6.615
 6 v= 2.429 mL E= 26.9 mV
 pH= 6.518
 7 v= 2.739 mL E= 32.8 mV

pH= 6.416
 8 v= 3.772 mL E= 74.0 mV
 pH= 5.709
 9 v= 3.875 mL E= 86.8 mV
 pH= 5.489
 10 v= 3.927 mL E= 91.6 mV
 pH= 5.406
 11 v= 4.082 mL E= 126.5 mV
 pH= 4.807
 12 v= 4.134 mL E= 143.4 mV
 pH= 4.517
 13 v= 4.185 mL E= 156.3 mV
 pH= 4.295

4.6 min
 =====
 PRESET END POINT ANALYSIS
 =====

SAMPLE = 138.05 ppm (v)
~~END POINT VOL = 4.138 mL (144.4 mV)~~
 (pH 4.500)
 Excess Titre= 0.048 mL
 Relative Scale



NO. 1 WASH OF 3
 10 SECOND WASH
 47.4 mV pH 6.165
 NO. 2 WASH OF 3
 10 SECOND WASH
 39.3 mV pH 6.305
 NO. 3 WASH OF 3
 10 SECOND WASH
 24.1 mV pH 6.566
 BEAKER[29] ANALYSIS

METHOD 1 SUMMARY


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=====
SAMPLE ID NUMBER: 24
TEST: 4840-2
SITE: _____
ANALYST: _____
17:58 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV
SAMPLE VOLUME 30.000 mL
TITRANT .02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR 3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500
0 v= 0.000 mL E= 9.5 mV
pH= 6.816
1 v= 0.052 mL E= -0.3 mV
pH= 6.985
*** deviating from endpoint
2 v= 0.103 mL E= 22.0 mV
pH= 6.602
3 v= 0.155 mL E= 51.2 mV
pH= 6.100
4 v= 0.207 mL E= 93.8 mV
pH= 5.368
5 v= 0.258 mL E= 129.2 mV
pH= 4.760
6 v= 0.310 mL E= 149.3 mV
pH= 4.415
2.2 min
=====

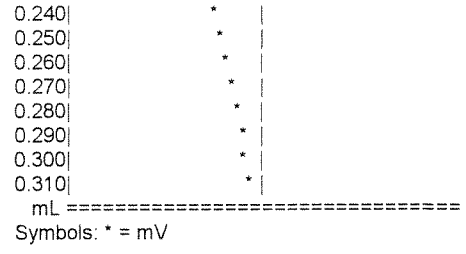
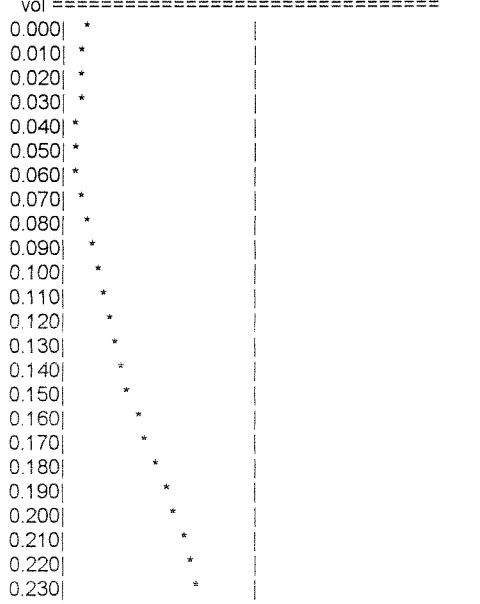
```

PRESET END POINT ANALYSIS

```

=====
SAMPLE = 9.9203 ppm (v)
END POINT VOL= 0.297 mL (144.4 mV)
(pH 4.500)
Excess Titre= 0.013 mL
Relative Scale

```



```

Symbols: * = mV
NO. 1 WASH OF 3
10 SECOND WASH
27.2 mV pH 6.512
NO. 2 WASH OF 3
10 SECOND WASH
24.7 mV pH 6.555
NO. 3 WASH OF 3
10 SECOND WASH
19.9 mV pH 6.638
BEAKER[30] ANALYSIS
=====

```

METHOD 1 SUMMARY

```

=====
SAMPLE ID NUMBER: 25
TEST: 4840-2
SITE: _____
ANALYST: _____
18:02 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV
SAMPLE VOLUME 30.000 mL
TITRANT .02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR 3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500
0 v= 0.000 mL E= 38.3 mV
pH= 6.322
1 v= 0.362 mL E= 182.0 mV
pH= 3.854
0.6 min
=====

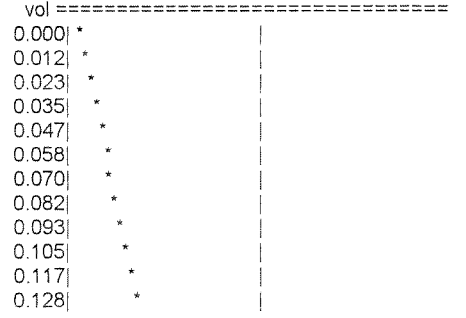
```

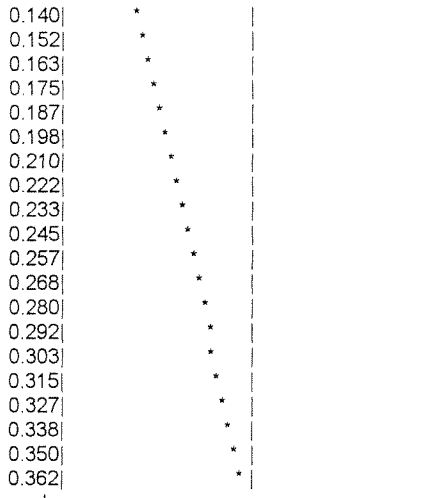
PRESET END POINT ANALYSIS

```

=====
SAMPLE = 8.9070 ppm (v)
END POINT VOL= 0.267 mL (144.4 mV)
(pH 4.500)
Excess Titre= 0.095 mL
Relative Scale

```





Symbols: * = mV

NO. 1 WASH OF 3
10 SECOND WASH
16.3 mV pH 6.700

NO. 2 WASH OF 3
10 SECOND WASH
3.8 mV pH 6.914

NO. 3 WASH OF 3
10 SECOND WASH
4.3 mV pH 6.906

BEAKER[31] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 26

TEST: 4890-4

SITE: _____

ANALYST: _____

18:05 05-21-10 ELECTRODE: 1:pH

TECHNIQUE 8 PRESET END POINT

SLOPE 58.22 mV/dec

Eo -1.2 mV

SAMPLE VOLUME 30.000 mL

TITRANT 0.02000 M of _____

CONST INCREMENT 10.0 mV

MAX TITRANT VOL 25.000 mL

TIMED READINGS 10.0 sec

PRESTIR 3.0 sec

CONTINUOUS STIRRING

REACTION RATIO 0.5000

MOLECULAR WEIGHT 100.09

CAL CONSTANT 1.03345

PRESET pH(1) 8.300

PRESET pH(2) 4.500

0 v= 0.000 mL E= -170.2 mV
pH= 9.903

1 v= 0.258 mL E= -158.2 mV
pH= 9.697

2 v= 0.465 mL E= -143.0 mV
pH= 9.436

3 v= 0.568 mL E= -133.5 mV
pH= 9.273

4 v= 0.672 mL E= -122.9 mV
pH= 9.090

5 v= 0.775 mL E= -113.6 mV
pH= 8.931

6 v= 0.878 mL E= -103.2 mV
pH= 8.752

7 v= 0.982 mL E= -89.8 mV
pH= 8.522

8 v= 1.033 mL E= -76.9 mV
pH= 8.300

9 v= 1.085 mL E= -63.7 mV
pH= 8.074

10 v= 1.137 mL E= -49.7 mV
pH= 7.833

11 v= 1.188 mL E= -39.3 mV
pH= 7.655

12 v= 1.240 mL E= -30.0 mV
pH= 7.495

13 v= 1.292 mL E= -20.5 mV
pH= 7.332

14 v= 1.343 mL E= -10.0 mV
pH= 7.151

15 v= 1.395 mL E= 0.9 mV
pH= 6.964

16 v= 1.447 mL E= 9.9 mV
pH= 6.810

17 v= 1.498 mL E= 19.8 mV
pH= 6.639

18 v= 1.550 mL E= 32.7 mV
pH= 6.418

19 v= 1.602 mL E= 45.6 mV
pH= 6.196

20 v= 1.654 mL E= 64.0 mV
pH= 5.880

21 v= 1.705 mL E= 103.4 mV
pH= 5.204

22 v= 1.757 mL E= 140.2 mV
pH= 4.571

23 v= 1.809 mL E= 158.5 mV
pH= 4.257

7.9 min

PRESET END POINT ANALYSIS

SAMPLE = 34.482 ppm (v)

~~END POINT VOL = 1.034 mL (-76.9 mV)~~
(pH 8.300)

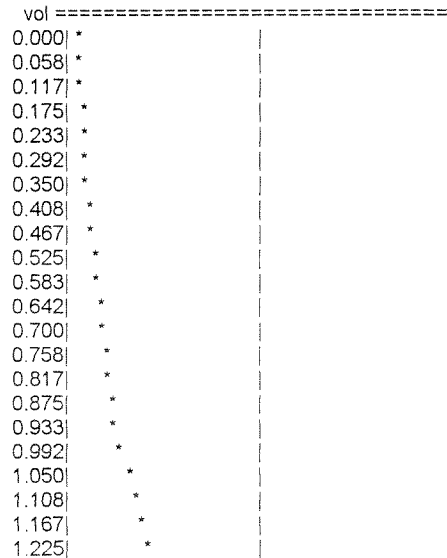
Excess Titre= 0.775 mL

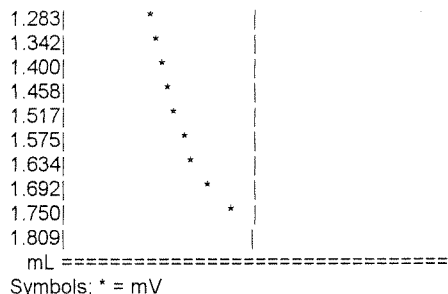
SAMPLE = 59.007 ppm (v)

~~END POINT VOL = 1.769 mL (144.4 mV)~~
(pH 4.500)

Excess Titre= 0.040 mL

Relative Scale





NO. 1 WASH OF 3
 10 SECOND WASH
 27.0 mV pH 6.516
 NO. 2 WASH OF 3
 10 SECOND WASH
 13.3 mV pH 6.751
 NO. 3 WASH OF 3
 10 SECOND WASH
 23.6 mV pH 6.574
 BEAKER[32] ANALYSIS

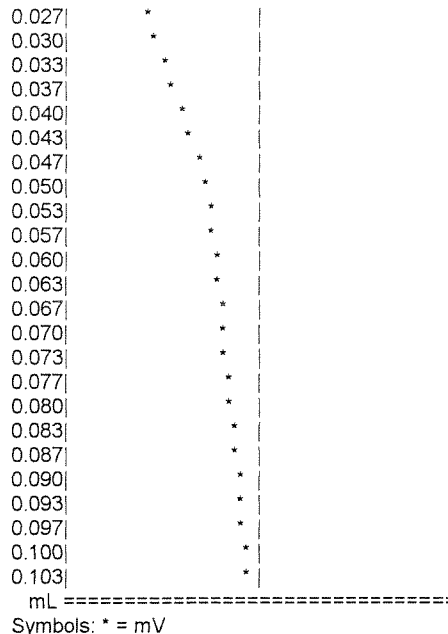
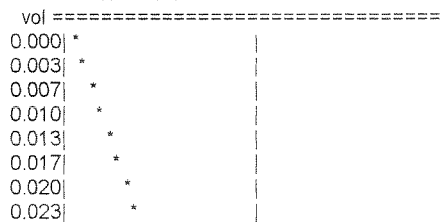
=====
 METHOD 1 SUMMARY
 =====

SAMPLE ID NUMBER: 27
 TEST: 4890-5
 SITE: _____
 ANALYST: _____
 18:16 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 54.1 mV
 pH= 6.050
 1 v= 0.052 mL E= 129.6 mV
 pH= 4.754
 2 v= 0.103 mL E= 151.0 mV
 pH= 4.386

0.9 min

=====
 PRESET END POINT ANALYSIS
 =====

SAMPLE = 2.9132 ppm (v)
 END POINT VOL = 0.087 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.016 mL
 Relative Scale



NO. 1 WASH OF 3
 10 SECOND WASH
 65.0 mV pH 5.863
 NO. 2 WASH OF 3
 10 SECOND WASH
 49.0 mV pH 6.138
 NO. 3 WASH OF 3
 10 SECOND WASH
 35.2 mV pH 6.375
 BEAKER[33] ANALYSIS

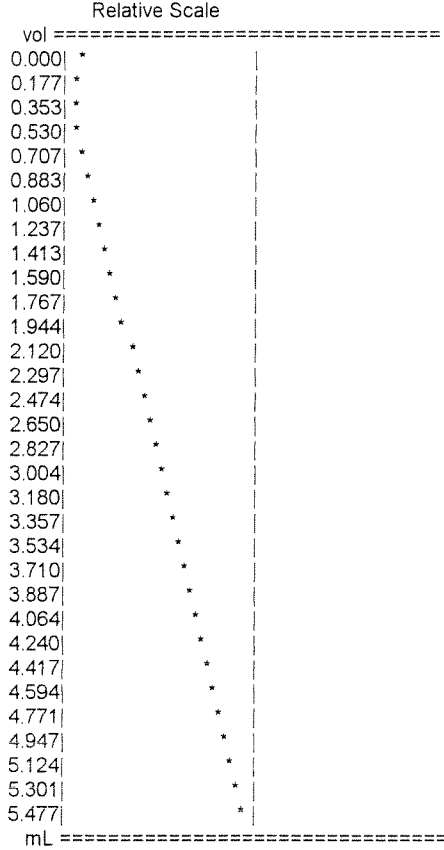
=====
 METHOD 1 SUMMARY
 =====

SAMPLE ID NUMBER: 28
 TEST: 4930-1
 SITE: _____
 ANALYST: _____
 18:19 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 20.7 mV
 pH= 6.624
 1 v= 0.207 mL E= 13.3 mV
 pH= 6.751
 *** deviating from endpoint
 2 v= 0.465 mL E= 13.2 mV
 pH= 6.753
 *** deviating from endpoint
 3 v= 5.477 mL E= 236.0 mV
 pH= 2.926

1.6 min

=====
PRESET END POINT ANALYSIS
=====

SAMPLE = 113.96 ppm (v)
END POINT VOL = 3.416 mL (144.4 mV)
(pH 4.500)
Excess Titre= 2.062 mL



Symbols: * = mV

- NO. 1 WASH OF 3
10 SECOND WASH
70.6 mV pH 5.767
NO. 2 WASH OF 3
10 SECOND WASH
48.7 mV pH 6.143
NO. 3 WASH OF 3
10 SECOND WASH
39.4 mV pH 6.303

BEAKER[34] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 29
TEST: 4930-2
SITE:
ANALYST:
18:23 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV
SAMPLE VOLUME 30.000 mL
TITRANT 0.02000 M of
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL

TIMED READINGS 10.0 sec

PRESTIR 3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09

CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500

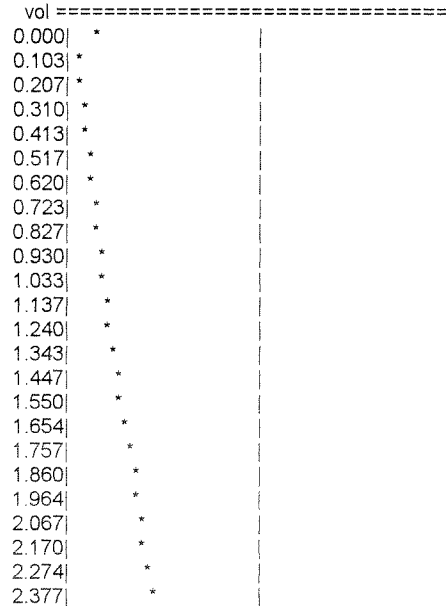
- 0 v= 0.000 mL E= -27.7 mV pH= 7.455
1 v= 0.052 mL E= -44.2 mV pH= 7.739
*** deviating from endpoint
2 v= 0.103 mL E= -47.3 mV pH= 7.792
*** deviating from endpoint
3 v= 0.982 mL E= -20.5 mV pH= 7.332
4 v= 1.602 mL E= 5.2 mV pH= 6.890
5 v= 1.757 mL E= 16.5 mV pH= 6.696
6 v= 1.860 mL E= 21.1 mV pH= 6.617
7 v= 2.222 mL E= 29.8 mV pH= 6.468
8 v= 2.997 mL E= 79.9 mV pH= 5.607
9 v= 3.049 mL E= 94.8 mV pH= 5.351
10 v= 3.100 mL E= 108.8 mV pH= 5.111
11 v= 3.152 mL E= 130.1 mV pH= 4.745
12 v= 3.204 mL E= 149.4 mV pH= 4.413

4.2 min

=====
PRESET END POINT ANALYSIS
=====

SAMPLE = 106.44 ppm (v)
END POINT VOL = 3.490 mL (144.4 mV)
(pH 4.500)

Excess Titre= 0.013 mL
Relative Scale



```

2.480| *
2.584| *
2.687| *
2.790| *
2.894| *
2.997| *
3.100| *
3.204| *
mL =====
Symbols: * = mV
    
```

```

NO. 1 WASH OF 3
10 SECOND WASH
  53.3 mV pH 6.064
NO. 2 WASH OF 3
10 SECOND WASH
  32.4 mV pH 6.423
NO. 3 WASH OF 3
10 SECOND WASH
  24.8 mV pH 6.554
BEAKER[35] ANALYSIS
    
```

METHOD 1 SUMMARY

```

SAMPLE ID NUMBER: 30
TEST: 4930-2
SITE: _____
ANALYST: _____
    
```

```

18:30 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE      58.22 mV/dec
Eo         -1.2 mV
SAMPLE VOLUME 30.000 mL
TITRANT      .02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR      3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500
0 v= 0.000 mL E= 13.8 mV
      pH= 6.743
1 v= 0.052 mL E= 2.9 mV
      pH= 6.930
*** deviating from endpoint
2 v= 0.103 mL E= -2.6 mV
      pH= 7.024
*** deviating from endpoint
3 v= 0.310 mL E= -0.4 mV
      pH= 6.986
4 v= 5.322 mL E= 237.2 mV
      pH= 2.905
1.8 min
    
```

PRESET END POINT ANALYSIS

```

SAMPLE = 112.23 ppm (v)
END POINT VOL= 3.364 mL (144.4 mV)
              (pH 4.500)
Excess Titre= 1.958 mL
Relative Scale
    
```

```

vol =====
0.000| *
0.172| *
0.343| *
0.515| *
    
```

```

0.687| *
0.858| *
1.030| *
1.202| *
1.373| *
1.545| *
1.717| *
1.889| *
2.060| *
2.232| *
2.404| *
2.575| *
2.747| *
2.919| *
3.090| *
3.262| *
3.434| *
3.605| *
3.777| *
3.949| *
4.120| *
4.292| *
4.464| *
4.636| *
4.807| *
4.979| *
5.151| *
5.322| *
mL =====
Symbols: * = mV
    
```

```

NO. 1 WASH OF 3
10 SECOND WASH
  67.7 mV pH 5.817
NO. 2 WASH OF 3
10 SECOND WASH
  33.6 mV pH 6.402
NO. 3 WASH OF 3
10 SECOND WASH
  32.2 mV pH 6.426
BEAKER[36] ANALYSIS
    
```

METHOD 1 SUMMARY

```

SAMPLE ID NUMBER: 31
TEST: 4930-11
SITE: _____
ANALYST: _____
    
```

```

18:34 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE      58.22 mV/dec
Eo         -1.2 mV
SAMPLE VOLUME 30.000 mL
TITRANT      .02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR      3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500
0 v= 0.000 mL E= -49.8 mV
      pH= 7.835
1 v= 0.982 mL E= -41.5 mV
      pH= 7.692
2 v= 2.170 mL E= -33.1 mV
      pH= 7.548
    
```

3 v= 3.875 mL E= -23.9 mV
 pH= 7.390
 4 v= 6.304 mL E= -11.5 mV
 pH= 7.177
 5 v= 8.371 mL E= -2.5 mV
 pH= 7.022
 6 v= 11.058 mL E= 7.0 mV
 pH= 6.859
 7 v= 14.520 mL E= 17.0 mV
 pH= 6.688
 8 v= 18.757 mL E= 27.5 mV
 pH= 6.507
 9 v= 23.459 mL E= 38.3 mV
 pH= 6.322
 10 v= 25.009 mL E= 41.9 mV
 pH= 6.260

4.9 min

=====

PRESET END POINT ANALYSIS

=====

*** preset endpoint was not reached

*** analysis failed

NO. 1 WASH OF 3
 10 SECOND WASH
 -23.3 mV pH 7.380
 NO. 2 WASH OF 3
 10 SECOND WASH
 -32.9 mV pH 7.545
 NO. 3 WASH OF 3
 10 SECOND WASH
 -29.6 mV pH 7.488
 BEAKER[37] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 32
 TEST: 4930-5
 SITE: _____
 ANALYST: _____
 18:41 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -48.8 mV
 pH= 7.818
 1 v= 0.568 mL E= -44.3 mV
 pH= 7.740
 2 v= 1.809 mL E= -33.9 mV
 pH= 7.562
 3 v= 2.945 mL E= -28.1 mV
 pH= 7.462
 4 v= 6.149 mL E= -11.5 mV
 pH= 7.177
 5 v= 8.061 mL E= -3.5 mV
 pH= 7.040
 6 v= 11.006 mL E= 7.0 mV
 pH= 6.859

7 v= 14.313 mL E= 16.6 mV
 pH= 6.694
 8 v= 18.550 mL E= 27.0 mV
 pH= 6.516
 9 v= 23.356 mL E= 38.0 mV
 pH= 6.327
 10 v= 25.009 mL E= 41.7 mV
 pH= 6.263

4.8 min

=====

PRESET END POINT ANALYSIS

=====

*** preset endpoint was not reached

*** analysis failed

NO. 1 WASH OF 3
 10 SECOND WASH
 -23.1 mV pH 7.376
 NO. 2 WASH OF 3
 10 SECOND WASH
 -32.7 mV pH 7.541
 NO. 3 WASH OF 3
 10 SECOND WASH
 -35.7 mV pH 7.593
 BEAKER[38] ANALYSIS

=====

METHOD 1 SUMMARY

=====

SAMPLE ID NUMBER: 33
 TEST: 4930-5
 SITE: _____
 ANALYST: _____
 18:47 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -46.2 mV
 pH= 7.773
 1 v= 0.568 mL E= -42.2 mV
 pH= 7.704
 2 v= 2.015 mL E= -31.7 mV
 pH= 7.524
 3 v= 3.359 mL E= -24.6 mV
 pH= 7.402
 4 v= 5.942 mL E= -12.0 mV
 pH= 7.186
 5 v= 8.164 mL E= -3.0 mV
 pH= 7.031
 6 v= 11.161 mL E= 7.5 mV
 pH= 6.851
 7 v= 14.468 mL E= 16.8 mV
 pH= 6.691
 8 v= 18.912 mL E= 27.5 mV
 pH= 6.507
 9 v= 23.769 mL E= 38.4 mV
 pH= 6.320
 10 v= 25.009 mL E= 41.2 mV
 pH= 6.272

4.8 min

===== PRESET END POINT ANALYSIS =====

*** preset endpoint was not reached
*** analysis failed

NO. 1 WASH OF 3
10 SECOND WASH
-24.7 mV pH 7.404
NO. 2 WASH OF 3
10 SECOND WASH
-34.2 mV pH 7.567
NO. 3 WASH OF 3
10 SECOND WASH
-15.0 mV pH 7.237

BEAKER[39] ANALYSIS

===== METHOD 1 SUMMARY =====

SAMPLE ID NUMBER: 34
TEST: 49311-1
SITE: _____
ANALYST: _____
18:54 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV

SAMPLE VOLUME 30.000 mL
TITRANT .02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR 3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500

0 v= 0.000 mL E= -16.7 mV
pH= 7.266
1 v= 0.155 mL E= -23.5 mV
pH= 7.383

*** deviating from endpoint
2 v= 0.362 mL E= -22.6 mV
pH= 7.371

3 v= 5.374 mL E= 45.8 mV
pH= 6.193

4 v= 5.529 mL E= 55.5 mV
pH= 6.026

5 v= 5.581 mL E= 58.0 mV
pH= 5.983

6 v= 5.839 mL E= 62.3 mV
pH= 5.909

7 v= 7.596 mL E= 139.2 mV
pH= 4.589

8 v= 7.648 mL E= 147.4 mV
pH= 4.448

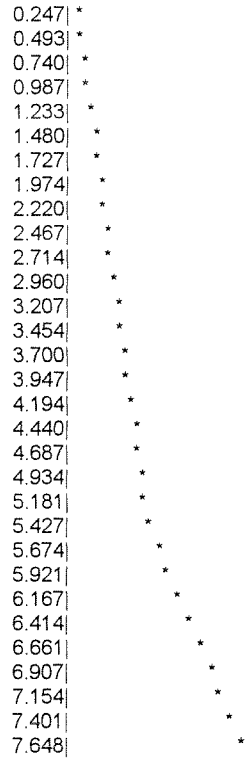
3.2 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 254.51 ppm (v)
END POINT VOL = 7.628 mL (144.4 mV)
(pH 4.500)

Excess Titre= 0.019 mL
Relative Scale

vol =====
0.000| * |



ml =====
Symbols: * = mV

NO. 1 WASH OF 3
10 SECOND WASH
46.6 mV pH 6.179
NO. 2 WASH OF 3
10 SECOND WASH
24.4 mV pH 6.560
NO. 3 WASH OF 3
10 SECOND WASH
19.5 mV pH 6.645
BEAKER[40] ANALYSIS

===== METHOD 1 SUMMARY =====

SAMPLE ID NUMBER: 35
TEST: 49311-2
SITE: _____
ANALYST: _____
19:00 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV

SAMPLE VOLUME 30.000 mL
TITRANT .02000 M of _____
CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL
TIMED READINGS 10.0 sec
PRESTIR 3.0 sec
CONTINUOUS STIRRING
REACTION RATIO 0.5000
MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345
PRESET pH(1) 8.300
PRESET pH(2) 4.500

0 v= 0.000 mL E= -30.2 mV
pH= 7.498
1 v= 0.052 mL E= -43.6 mV

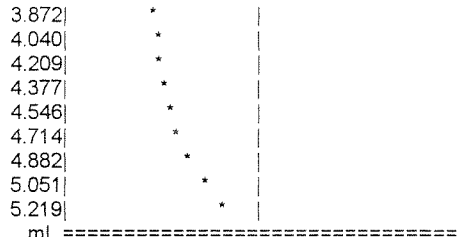
pH= 7.728
 *** deviating from endpoint
 2 v= 0.103 mL E= -47.2 mV
 pH= 7.790
 *** deviating from endpoint
 3 v= 0.620 mL E= -29.9 mV
 pH= 7.493
 4 v= 1.240 mL E= -12.8 mV
 pH= 7.199
 5 v= 1.705 mL E= -1.4 mV
 pH= 7.004
 6 v= 2.170 mL E= 8.1 mV
 pH= 6.840
 7 v= 2.739 mL E= 17.7 mV
 pH= 6.676
 8 v= 3.462 mL E= 30.6 mV
 pH= 6.454
 9 v= 3.979 mL E= 42.9 mV
 pH= 6.243
 10 v= 4.289 mL E= 51.4 mV
 pH= 6.097
 11 v= 4.599 mL E= 62.3 mV
 pH= 5.909
 12 v= 4.806 mL E= 73.3 mV
 pH= 5.721
 13 v= 4.909 mL E= 80.9 mV
 pH= 5.590
 14 v= 5.012 mL E= 91.4 mV
 pH= 5.410
 15 v= 5.064 mL E= 97.8 mV
 pH= 5.300
 16 v= 5.116 mL E= 108.9 mV
 pH= 5.109
 17 v= 5.167 mL E= 127.3 mV
 pH= 4.793
 18 v= 5.219 mL E= 145.8 mV
 pH= 4.475

6.3 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 173.99 ppm (v)
 END POINT VOL = 5.215 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.004 mL
 Relative Scale

voi =====
 0.000| *
 0.168| *
 0.337| *
 0.505| *
 0.673| *
 0.842| *
 1.010| *
 1.178| *
 1.347| *
 1.515| *
 1.684| *
 1.852| *
 2.020| *
 2.189| *
 2.357| *
 2.525| *
 2.694| *
 2.862| *
 3.030| *
 3.199| *
 3.367| *
 3.535| *
 3.704| *



ml =====
 Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 47.6 mV pH 6.162
 NO. 2 WASH OF 3
 10 SECOND WASH
 20.3 mV pH 6.631
 NO. 3 WASH OF 3
 10 SECOND WASH
 18.8 mV pH 6.657
 BEAKER[41] ANALYSIS

===== METHOD 1 SUMMARY =====

SAMPLE ID NUMBER: 36
 TEST: 49211-3
 SITE: _____
 ANALYST: _____
 19:08 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -76.9 mV
 pH= 8.300
 1 v= 0.413 mL E= -66.0 mV
 pH= 8.113
 2 v= 0.775 mL E= -46.8 mV
 pH= 7.783
 3 v= 0.878 mL E= -36.3 mV
 pH= 7.603
 4 v= 0.930 mL E= -33.2 mV
 pH= 7.550
 5 v= 1.188 mL E= -27.1 mV
 pH= 7.445
 6 v= 2.274 mL E= -8.9 mV
 pH= 7.132
 7 v= 3.100 mL E= 7.6 mV
 pH= 6.849
 8 v= 3.514 mL E= 15.9 mV
 pH= 6.706
 9 v= 4.030 mL E= 23.5 mV
 pH= 6.576
 10 v= 4.961 mL E= 38.6 mV
 pH= 6.317
 11 v= 5.529 mL E= 50.8 mV
 pH= 6.107
 12 v= 5.891 mL E= 64.5 mV

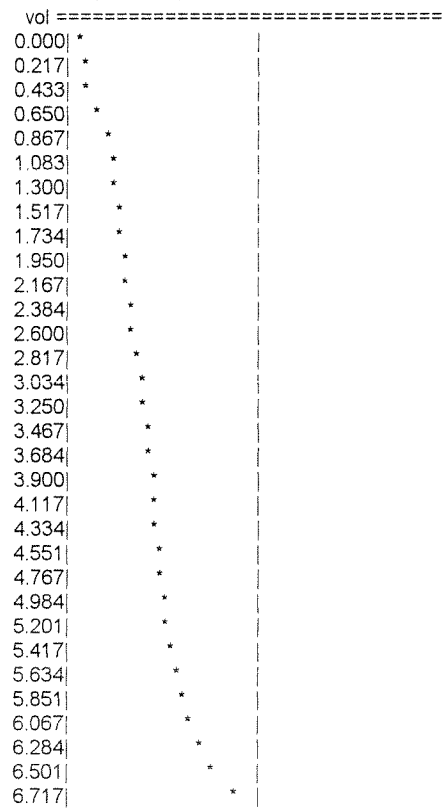
pH= 5.872
 13 v= 6.046 mL E= 71.0 mV
 pH= 5.760
 14 v= 6.252 mL E= 81.7 mV
 pH= 5.576
 15 v= 6.407 mL E= 93.9 mV
 pH= 5.367
 16 v= 6.511 mL E= 106.2 mV
 pH= 5.155
 17 v= 6.562 mL E= 114.6 mV
 pH= 5.011
 18 v= 6.614 mL E= 125.4 mV
 pH= 4.826
 19 v= 6.666 mL E= 138.3 mV
 pH= 4.604
 20 v= 6.717 mL E= 150.7 mV
 pH= 4.391

7.4 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = .027581 ppm (v)
 END POINT VOL= 0.000 mL (-76.9 mV)
 (pH 8.300)
 Excess Titre= 6.717 mL
 SAMPLE = 223.23 ppm (v)
~~END POINT VOL= 6.691 mL (144.4 mV)~~
 (pH 4.500)
 Excess Titre= 0.026 mL

Relative Scale



Symbols: * = mV

NO. 1 WASH OF 3
 10 SECOND WASH
 45.0 mV pH 6.207
 NO. 2 WASH OF 3

10 SECOND WASH
 41.5 mV pH 6.267
 NO. 3 WASH OF 3
 10 SECOND WASH
 28.0 mV pH 6.499
 BEAKER[42] ANALYSIS

===== METHOD 1 SUMMARY =====

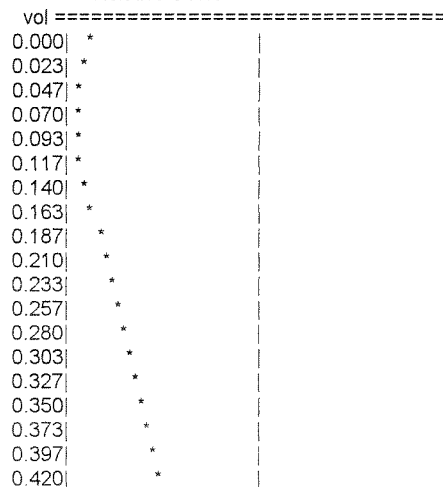
SAMPLE ID NUMBER: 37
 TEST: 493121
 SITE: _____
 ANALYST: _____
 19:18 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 25.5 mV
 pH= 6.542
 1 v= 0.052 mL E= 17.4 mV
 pH= 6.681
 *** deviating from endpoint
 2 v= 0.103 mL E= 14.7 mV
 pH= 6.727
 *** deviating from endpoint
 3 v= 0.672 mL E= 140.2 mV
 pH= 4.571
 4 v= 0.723 mL E= 159.0 mV
 pH= 4.249

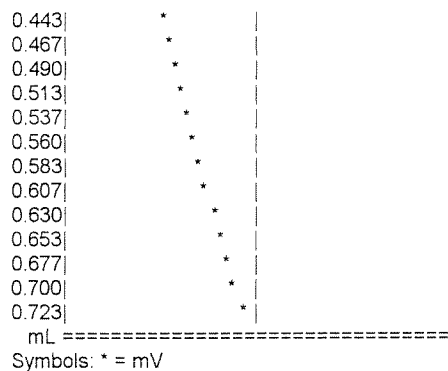
1.5 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 22.793 ppm (v)
~~END POINT VOL= 0.683 mL (144.4 mV)~~
 (pH 4.500)
 Excess Titre= 0.040 mL

Relative Scale





NO. 1 WASH OF 3
10 SECOND WASH
57.2 mV pH 5.997

NO. 2 WASH OF 3
10 SECOND WASH
30.9 mV pH 6.449

NO. 3 WASH OF 3
10 SECOND WASH
41.6 mV pH 6.265

BEAKER[43] ANALYSIS

METHOD 1 SUMMARY

SAMPLE ID NUMBER: 38
TEST: 4936-5
SITE: _____
ANALYST: _____

19:22 05-21-10 ELECTRODE: 1:pH
TECHNIQUE 8 PRESET END POINT
SLOPE 58.22 mV/dec
Eo -1.2 mV

SAMPLE VOLUME 30.000 mL
TITRANT .02000 M of _____

CONST INCREMENT 10.0 mV
MAX TITRANT VOL 25.000 mL

TIMED READINGS 10.0 sec
PRESTIR 3.0 sec

CONTINUOUS STIRRING
REACTION RATIO 0.5000

MOLECULAR WEIGHT 100.09
CAL CONSTANT 1.03345

PRESET pH(1) 8.300
PRESET pH(2) 4.500

0 v= 0.000 mL E= -10.6 mV
pH= 7.162

1 v= 0.052 mL E= -25.7 mV
pH= 7.421

*** deviating from endpoint

2 v= 0.103 mL E= -32.2 mV
pH= 7.533

*** deviating from endpoint

3 v= 0.310 mL E= -29.8 mV
pH= 7.491

4 v= 5.322 mL E= 45.0 mV
pH= 6.207

5 v= 5.839 mL E= 64.6 mV
pH= 5.870

6 v= 5.942 mL E= 69.5 mV
pH= 5.786

7 v= 6.097 mL E= 73.3 mV
pH= 5.721

8 v= 6.872 mL E= 106.1 mV
pH= 5.157

9 v= 7.027 mL E= 121.3 mV

pH= 4.896
10 v= 7.079 mL E= 127.7 mV
pH= 4.786
11 v= 7.131 mL E= 135.0 mV
pH= 4.661
12 v= 7.182 mL E= 143.1 mV
pH= 4.522
13 v= 7.234 mL E= 151.6 mV
pH= 4.376

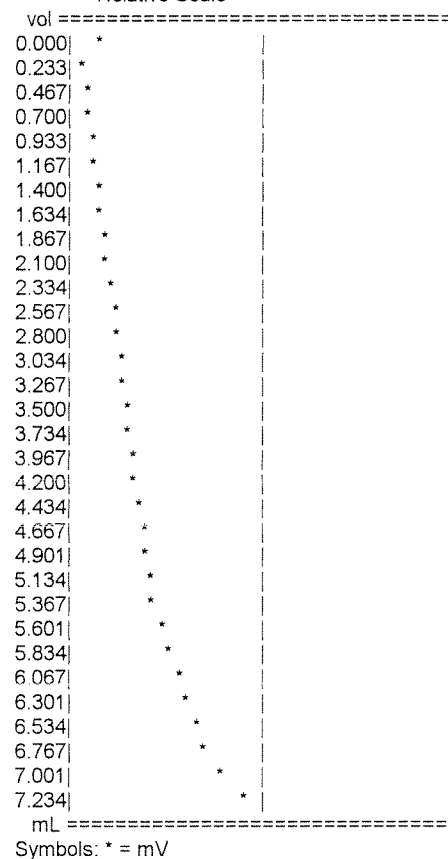
4.8 min

PRESET END POINT ANALYSIS

SAMPLE = 239.89 ppm (v)
END POINT VOL= ~~7.190~~ mL (144.4 mV)
(pH 4.500)

Excess Titre= 0.044 mL

Relative Scale



NO. 1 WASH OF 3
10 SECOND WASH
47.6 mV pH 6.162

NO. 2 WASH OF 3
10 SECOND WASH
25.2 mV pH 6.547

NO. 3 WASH OF 3
10 SECOND WASH
15.0 mV pH 6.722

BEAKER[44] ANALYSIS

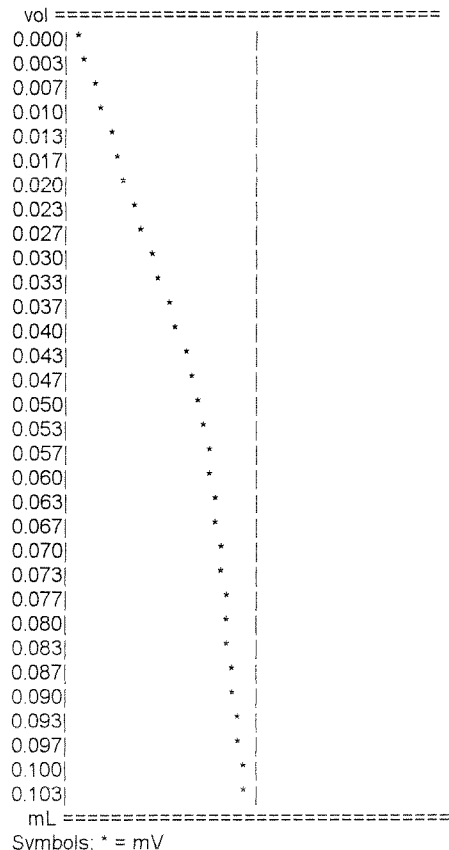
METHOD 1 SUMMARY

SAMPLE ID NUMBER: 39
TEST: W.B.
SITE: _____

ANALYST: _____
 19:30 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= 58.5 mV
 pH= 5.975
 1 v= 0.052 mL E= 130.2 mV
 pH= 4.743
 2 v= 0.103 mL E= 153.0 mV
 pH= 4.352
 0.9 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 2.7948 ppm (v)
 END POINT VOL = 0.084 mL (144.4 mV)
 (pH 4.500)
 Excess Titre= 0.020 mL
 Relative Scale



NO. 1 WASH OF 3
 10 SECOND WASH

55.8 mV pH 6.021
 NO. 2 WASH OF 3
 10 SECOND WASH
 45.8 mV pH 6.193
 NO. 3 WASH OF 3
 10 SECOND WASH
 30.8 mV pH 6.451
 BEAKER[45] ANALYSIS
 =====

===== METHOD 1 SUMMARY =====

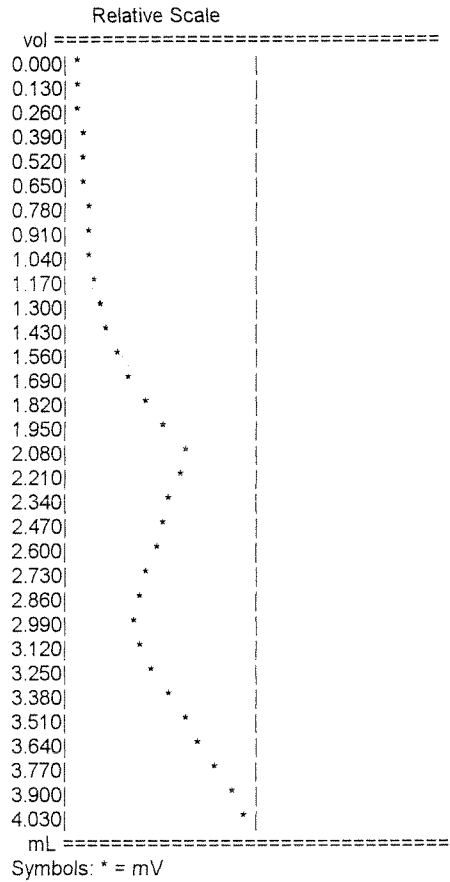
SAMPLE ID NUMBER: 40
 TEST: LC5
 SITE: _____
 ANALYST: _____
 19:33 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -113.7 mV
 pH= 8.932
 1 v= 0.568 mL E= -99.5 mV
 pH= 8.689
 2 v= 0.982 mL E= -84.5 mV
 pH= 8.431
 3 v= 1.033 mL E= -81.4 mV
 pH= 8.378
 4 v= 1.085 mL E= -78.6 mV
 pH= 8.330
 5 v= 1.137 mL E= -75.7 mV
 pH= 8.280
 6 v= 1.292 mL E= -66.2 mV
 pH= 8.117
 7 v= 1.447 mL E= -52.3 mV
 pH= 7.878
 8 v= 1.498 mL E= -42.7 mV
 pH= 7.713
 9 v= 1.550 mL E= -32.2 mV
 pH= 7.533
 10 v= 1.602 mL E= -19.3 mV
 pH= 7.311
 11 v= 1.654 mL E= -6.2 mV
 pH= 7.086
 12 v= 1.705 mL E= 7.2 mV
 pH= 6.856
 13 v= 1.757 mL E= 16.8 mV
 pH= 6.691
 14 v= 1.809 mL E= 26.4 mV
 pH= 6.526
 15 v= 1.860 mL E= 36.8 mV
 pH= 6.347
 16 v= 1.912 mL E= 54.0 mV
 pH= 6.052
 17 v= 1.964 mL E= 80.9 mV
 pH= 5.590
 18 v= 2.015 mL E= 120.9 mV
 pH= 4.903
 19 v= 2.067 mL E= 120.9 mV

pH= 4.903
 *** deviating from endpoint
 20 v= 3.049 mL E= 1.0 mV
 pH= 6.962
 *** deviating from endpoint
 21 v= 4.030 mL E= 243.1 mV
 pH= 2.804

7.5 min

===== PRESET END POINT ANALYSIS =====

SAMPLE = 37.227 ppm (v)
 END POINT VOL= 1.116 mL (-76.9 mV)
 (pH 8.300)
 Excess Titre= 2.915 mL
 SAMPLE = 121.11 ppm (v)
~~END POINT VOL= 3.630 mL (144.4 mV)~~
 (pH 4.500)
 Excess Titre= 0.400 mL



NO. 1 WASH OF 3
 10 SECOND WASH
 78.1 mV pH 5.638
 NO. 2 WASH OF 3
 10 SECOND WASH
 55.3 mV pH 6.030
 NO. 3 WASH OF 3
 10 SECOND WASH
 67.1 mV pH 5.827



Original
 Work Request # (4930) 4934 4970 4972 4973 5015 5055
 Tier: 1 V V 1 1 11 11
 Date Analyzed: 5.20.10 5058
 Analyst: mh V
 Analysis: TDS

201593

**DATA QUALITY REPORT
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

Final Approved by:  Date: 5/25/10 DQREPORT

COLUMBIA ANALYTICAL SERVICES, INC.

201593

Work Order #.:

Method: EPA SM 2540 C

Analysis:

Total Dissolved Solids

Sample #	Crucible #	Conductivity	Sample Volume (ml)	Wt, Cru. + Dry sample (1) (g)	Wt, Cru. + Dry sample (2) (g)	Wt, Cru. + Dry sample (3) (g)	Wt. Crucible (g)	Wt. Dry Sample (g)	TDS (mg/L)	TDS (mg/L) reported
MB-1	9A S		200	122.5065	122.5066		122.5061	0.0004	2	<5
MB-2	X10		200	121.0175	121.0174		121.0174	0.0001	1	<5
MB-3	13A S		200	133.3127	133.3128		133.3131	-0.0004	-2	<5
LCS1	bird		50	70.2972	70.2976		70.2608	0.0364	728	728.00
LCS2	J6		50	70.7322	70.7326		70.6960	0.0362	724	724.00
K1004930-003	40 S	148	100	74.1854	74.1855		74.1729	0.0125	125	125.00
K1004930-004	G27	2550	75	78.6040	78.6044		78.4870	0.1170	1560	1560.00
K1004930-005	2 C	2660	75	73.4354	73.4352		73.3202	0.1152	1536	1536.00
K1004934-001	25 S	666	100	77.9545	77.9545		77.9137	0.0408	408	408.00
K1004934-002	3/31/2008	574	100	85.0130	80.0131		84.9788	0.0342	342	342.00
K1004934-003	316	1400	75	81.4468	81.4466		81.3914	0.0554	739	738.70
K1004934-004	7	62	200	74.3282	74.3285		74.3194	0.0088	44	44.00
K1004934-005	36 A	709	100	75.0431	75.0428		75.0041	0.0390	390	390.00
K1004934-006	20A	1590	75	67.7969	67.7970		67.7353	0.0616	821	821.30
K1004934-007	Simon	686	100	70.0727	70.0723		70.0319	0.0408	408	408.00
K1004934-008	Dish	4	200	65.9473	65.9476		65.9485	-0.0012	-6	<5
K1004970-001	Larry	594	100	70.1164	70.1168		70.0867	0.0297	297	297.00
K1004970-002	17 S	884	100	78.9199	78.9199		78.8711	0.0488	488	488.00
K1004970-003	35 C	521	100	75.0316	75.0319		74.9943	0.0373	373	373.00
K1004970-004	39 S	144	100	78.4521	78.4525		78.4438	0.0083	83	83.00
K1004970-005	38 S	525	100	72.8189	72.8186		72.7885	0.0304	304	304.00
K1004970-006	29 C	606	100	76.7192	76.7196		76.6901	0.0291	291	291.00
K1004972-001	312 S	13200	25	75.6277	75.6273		75.3655	0.2622	10488	10488.00
K1004973-001	Dianne	661	100	85.9256	85.9257		85.8859	0.0397	397	397.00
K1005015-001	98604	21	200	70.7144	70.7147		70.7113	0.0031	16	15.50

Calculation: Dissolved Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml)

Balance#31

APG #:4033

Lot# 041109

ID#TDS/1-25-H

T.V. =750

% Rec =97, 97

Wt (1) Start	1430		Wt (2) Start	1500		Wt (3) Start	10:40	
Stop	1500	5.21	Stop	830	5.24	Stop	1400	
Wt (1) Start	105		Wt (2) Start	180		Wt (3) Start	180	
Temp Stop	105		Temp Stop	180		Temp Stop	180	
							date	time

Analyzed By:

nb

Date Analyzed:

5/20/2010

13:00

Reviewed By:

Date Reviewed:

5/25/10

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #: _____

Method: EPA SM 2540 C

Analysis: Total Dissolved Solids

Sample #	Crucible #	Conductivity	Sample Volume (ml)	Wt, Cru. + Dry sample (1) (g)	Wt, Cru. + Dry sample (2) (g)	Wt, Cru. + Dry sample (3) (g)	Wt. Crucible (g)	Wt. Dry Sample (g)	TDS (mg/L)	TDS (mg/L) reported
K1005055-001	NC7	466	100	76.1613	76.1616		76.1376	0.0237	237	237.00
K1005055-002	E21	529	100	81.4728	81.4733		81.4440	0.0288	288	288.00
K1005055-003	tree	962	100	77.8727	77.8731		77.8211	0.0516	516	516.00
K1005055-004	Cooter	399	100	69.4885	69.4888		69.4661	0.0224	224	224.00
K1005055-005	XIV	152	100	74.8804	74.8808		74.8721	0.0083	83	83.00
K1005055-006	Ben	153	100	86.0179	86.0177		86.0121	0.0058	58	58.00
K1005055-007	A18	566	100	75.7437	75.7441		75.7106	0.0331	331	331.00
K1005055-008	9 S	455	100	80.4261	80.4265		80.4001	0.0260	260	260.00
K1005058-001	115 S	133	100	86.5806	86.5809		86.5744	0.0062	62	62.00
K1005058-002	37 S	98	100	74.8098	74.8101		74.8055	0.0043	43	43.00
5055-8d	20 C	455	100	73.5725	73.5728		73.5475	0.0250	250	250.00
4930-4d	Sassy H		75	77.4342	77.4339		77.3145	0.1197	1596	1600.00
4934-1d	1A S		100	77.1835	77.1832		77.1441	0.0394	394	394.00
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!
								0.0000	#DIV/0!	#DIV/0!

Calculation: Dissolved Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml)

5055-8/8d	X=255	RPD=4
4930-4/4d	X=1580	RPD=3
4934-1/1d	X=401	RPD=3

Analyzed By: <i>nb</i>	Date Analyzed: 5/21/10	date	time
Reviewed By: <i>[Signature]</i>	Date Reviewed: 5/25/10		

Metals

Columbia Analytical Services

- Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent
Project Name: Heglar - Kronquist
Project No.: 0907194.000.0601

Service Request: K1004934

<u>Sample Name:</u>	<u>Lab Code:</u>
Batch QC1D	K1004870-004D
Batch QC1S	K1004870-004S
SW-1	K1004934-001
SW-4	K1004934-002
SW-5	K1004934-003
SW-6	K1004934-004
SW-2	K1004934-005
SW-2D	K1004934-005D
SW-2S	K1004934-005S
SW-3	K1004934-006
SW-9	K1004934-007
SW-9D	K1004934-007D
SW-9S	K1004934-007S
FB-051410	K1004934-008
Method Blank	K1004934-MB
Batch QC2D	K1005015-001D
Batch QC2S	K1005015-001S
Batch QC3D	K1005117-001D
Batch QC3S	K1005117-001S

Comments:

Approved By: 3C

Date: 6/11/10

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Date Collected: 05/14/10
 Project Name: Heglar - Kronquist Date Received: 05/15/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: SW-1 Lab Code: K1004934-001

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	70600		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	25200		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	4460		
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	25200		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Date Collected: 05/14/10
 Project Name: Heglar - Kronquist Date Received: 05/15/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: SW-4 Lab Code: K1004934-002

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	65000		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	18500		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	3350		
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	17200		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Date Collected: 05/14/10
 Project Name: Heglar - Kronquist Date Received: 05/15/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: SW-5 Lab Code: K1004934-003

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	104000		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	36300		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	10100		
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	96100		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004934
Project No.: 0907194.000.0601 Date Collected: 05/14/10
Project Name: Heglar - Kronquist Date Received: 05/15/10
Matrix: WATER Units: ug/L
Basis: N/A

Sample Name: SW-6 Lab Code: K1004934-004

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	4840		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	1060		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	851		
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	4510		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Date Collected: 05/14/10
 Project Name: Heglar - Kronquist Date Received: 05/15/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: SW-2 Lab Code: K1004934-005

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/27/10	06/04/10	30	U	
Antimony	200.8	0.05	0.02	1.0	05/27/10	06/04/10	0.10		
Arsenic	200.8	0.50	0.07	1.0	05/27/10	06/04/10	2.53		
Barium	200.7	5.0	0.6	1.0	05/27/10	06/04/10	119		
Beryllium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.003	J	
Cadmium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.024		
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	74000		
Chromium	200.8	0.20	0.04	1.0	05/27/10	06/04/10	0.76		
Cobalt	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.077		
Copper	200.8	0.10	0.02	1.0	05/27/10	06/04/10	0.53		
Iron	200.7	20.0	0.8	1.0	05/27/10	06/04/10	25.3		
Lead	200.8	0.020	0.005	1.0	05/27/10	06/04/10	0.046		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	26500		
Manganese	200.7	5.0	0.2	1.0	05/27/10	06/04/10	0.2	U	
Mercury	245.1	0.20	0.02	1.0	06/08/10	06/10/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/27/10	06/04/10	1.17		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	4880		
Selenium	200.8	1.0	0.3	1.0	05/27/10	06/04/10	0.7	J	
Silver	200.8	0.020	0.004	1.0	05/27/10	06/04/10	0.004	U	
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	27500		
Thallium	200.8	0.020	0.002	1.0	05/27/10	06/04/10	0.050		
Vanadium	200.8	0.20	0.03	1.0	05/27/10	06/04/10	6.46		
Zinc	200.8	0.50	0.20	1.0	05/27/10	06/04/10	2.37		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Date Collected: 05/14/10
 Project Name: Heglar - Kronquist Date Received: 05/15/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: SW-3 Lab Code: K1004934-006

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/27/10	06/04/10	30	U	
Antimony	200.8	0.05	0.02	1.0	05/27/10	06/04/10	0.09		
Arsenic	200.8	0.50	0.07	1.0	05/27/10	06/04/10	2.08		
Barium	200.7	5.0	0.6	1.0	05/27/10	06/04/10	211		
Beryllium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.003	U	
Cadmium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.027		
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	118000		
Chromium	200.8	0.20	0.04	1.0	05/27/10	06/04/10	0.77		
Cobalt	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.112		
Copper	200.8	0.10	0.02	1.0	05/27/10	06/04/10	0.47		
Iron	200.7	20.0	0.8	1.0	05/27/10	06/04/10	18.8	J	
Lead	200.8	0.020	0.005	1.0	05/27/10	06/04/10	0.040		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	39600		
Manganese	200.7	5.0	0.2	1.0	05/27/10	06/04/10	0.2	U	
Mercury	245.1	0.20	0.02	1.0	06/08/10	06/10/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/27/10	06/04/10	1.72		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	11300		
Selenium	200.8	1.0	0.3	1.0	05/27/10	06/04/10	0.9	J	
Silver	200.8	0.020	0.004	1.0	05/27/10	06/04/10	0.021		
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	111000		
Thallium	200.8	0.020	0.002	1.0	05/27/10	06/04/10	0.043		
Vanadium	200.8	0.20	0.03	1.0	05/27/10	06/04/10	5.26		
Zinc	200.8	0.50	0.20	1.0	05/27/10	06/04/10	0.96		

% Solids: 0.0

Comments:

Columbia Analytical Services

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Date Collected: 05/14/10
 Project Name: Heglar - Kronquist Date Received: 05/15/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: SW-9 Lab Code: K1004934-007

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/27/10	06/04/10	30	U	
Antimony	200.8	0.05	0.02	1.0	05/27/10	06/04/10	0.10		
Arsenic	200.8	0.50	0.07	1.0	05/27/10	06/04/10	2.40		
Barium	200.7	5.0	0.6	1.0	05/27/10	06/04/10	114		
Beryllium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.004	J	
Cadmium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.027		
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	71200		
Chromium	200.8	0.20	0.04	1.0	05/27/10	06/04/10	0.72		
Cobalt	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.073		
Copper	200.8	0.10	0.02	1.0	05/27/10	06/04/10	0.46		
Iron	200.7	20.0	0.8	1.0	05/27/10	06/04/10	22.8		
Lead	200.8	0.020	0.005	1.0	05/27/10	06/04/10	0.049		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	25600		
Manganese	200.7	5.0	0.2	1.0	05/27/10	06/04/10	0.2	U	
Mercury	245.1	0.20	0.02	1.0	06/08/10	06/10/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/27/10	06/04/10	1.08		
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	4710		
Selenium	200.8	1.0	0.3	1.0	05/27/10	06/04/10	0.5	J	
Silver	200.8	0.020	0.004	1.0	05/27/10	06/04/10	0.018	J	
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	26600		
Thallium	200.8	0.020	0.002	1.0	05/27/10	06/04/10	0.042		
Vanadium	200.8	0.20	0.03	1.0	05/27/10	06/04/10	6.12		
Zinc	200.8	0.50	0.20	1.0	05/27/10	06/04/10	2.30		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Date Collected: 05/14/10
 Project Name: Heglar - Kronquist Date Received: 05/15/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: FB-051410 Lab Code: K1004934-008

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/27/10	06/04/10	30	U	
Antimony	200.8	0.05	0.02	1.0	05/27/10	06/04/10	0.02	J	
Arsenic	200.8	0.50	0.07	1.0	05/27/10	06/04/10	0.07	U	
Barium	200.7	5.0	0.6	1.0	05/27/10	06/04/10	0.6	U	
Beryllium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.003	U	
Cadmium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.023		
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	6.0	U	
Chromium	200.8	0.20	0.04	1.0	05/27/10	06/04/10	0.11	J	
Cobalt	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.004	J	
Copper	200.8	0.10	0.02	1.0	05/27/10	06/04/10	0.02	U	
Iron	200.7	20.0	0.8	1.0	05/27/10	06/04/10	0.8	U	
Lead	200.8	0.020	0.005	1.0	05/27/10	06/04/10	0.040		
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	0.3	J	
Manganese	200.7	5.0	0.2	1.0	05/27/10	06/04/10	0.2	U	
Mercury	245.1	0.20	0.02	1.0	06/08/10	06/10/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/27/10	06/04/10	0.03	U	
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	40	U	
Selenium	200.8	1.0	0.3	1.0	05/27/10	06/04/10	0.3	U	
Silver	200.8	0.020	0.004	1.0	05/27/10	06/04/10	0.004	U	
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	20	U	
Thallium	200.8	0.020	0.002	1.0	05/27/10	06/04/10	0.042		
Vanadium	200.8	0.20	0.03	1.0	05/27/10	06/04/10	0.03	J	
Zinc	200.8	0.50	0.20	1.0	05/27/10	06/04/10	0.39	J	

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Date Collected:
 Project Name: Heglar - Kronquist Date Received:
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: Method Blank Lab Code: K1004934-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/27/10	06/04/10	30	U	
Antimony	200.8	0.05	0.02	1.0	05/27/10	06/04/10	0.02	U	
Arsenic	200.8	0.50	0.07	1.0	05/27/10	06/04/10	0.07	U	
Barium	200.7	5.0	0.6	1.0	05/27/10	06/04/10	0.6	U	
Beryllium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.003	U	
Cadmium	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.003	U	
Calcium	200.7	50.0	6.0	1.0	05/27/10	06/04/10	6.0	U	
Chromium	200.8	0.20	0.04	1.0	05/27/10	06/04/10	0.10	J	
Cobalt	200.8	0.020	0.003	1.0	05/27/10	06/04/10	0.003	U	
Copper	200.8	0.10	0.02	1.0	05/27/10	06/04/10	0.02	U	
Iron	200.7	20.0	0.8	1.0	05/27/10	06/04/10	1.5	J	
Lead	200.8	0.020	0.005	1.0	05/27/10	06/04/10	0.005	U	
Magnesium	200.7	20.0	0.3	1.0	05/27/10	06/04/10	0.5	J	
Manganese	200.7	5.0	0.2	1.0	05/27/10	06/04/10	0.2	U	
Mercury	245.1	0.20	0.02	1.0	06/08/10	06/10/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/27/10	06/04/10	0.03	U	
Potassium	200.7	400	40	1.0	05/27/10	06/04/10	40	U	
Selenium	200.8	1.0	0.3	1.0	05/27/10	06/04/10	0.3	U	
Silver	200.8	0.020	0.004	1.0	05/27/10	06/04/10	0.004	U	
Sodium	200.7	100	20	1.0	05/27/10	06/04/10	20	U	
Thallium	200.8	0.020	0.002	1.0	05/27/10	06/04/10	0.002	U	
Vanadium	200.8	0.20	0.03	1.0	05/27/10	06/04/10	0.03	J	
Zinc	200.8	0.50	0.20	1.0	05/27/10	06/04/10	0.20	U	

% Solids: 0.0

Comments:

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	5000	5048	101	5000	5017	100	5108	102	200.7
Antimony	25.0	23.7	95	25.0	24.5	98	24.7	99	200.8
Arsenic	25.0	25.0	100	25.0	25.0	100	24.9	100	200.8
Barium	5000	5183	104	2500	2509	100	2509	100	200.7
Beryllium	2.5	2.6	104	25.0	25.5	102	24.0	96	200.8
Cadmium	12.5	12.3	98	25.0	25.1	100	24.8	99	200.8
Calcium	5000	5075	102	2500	2477	99	2476	99	200.7
Calcium	12500	12693	102	25000	25425	102	25578	102	200.7
Chromium	10.0	9.9	99	25.0	24.7	99	24.5	98	200.8
Cobalt	25.0	24.9	100	25.0	25.8	103	24.3	97	200.8
Copper	12.5	12.5	100	25.0	25.5	102	24.2	97	200.8
Iron	2500	2468	99	500	485	97	505	101	200.7
Iron	10000	10123	101	25000	25207	101	25270	101	200.7
Lead	25.0	25.1	100	25.0	24.2	97	25.1	100	200.8
Magnesium	5000	4987	100	2000	1967	98	1982	99	200.7
Magnesium	12500	12461	100	25000	25093	100	25135	101	200.7
Manganese	1250	1208	97	1000	969	97	964	96	200.7
Manganese	10000	9996	100	5000	4988	100	4980	100	200.7
Mercury	5.00	4.98	100	5.00	5.13	103	5.13	103	245.1
Nickel	25.0	24.9	100	25.0	25.1	100	24.2	97	200.8
Potassium	12500	12384	99	10000	9960	100	9900	99	200.7
Selenium	25.0	24.7	99	25.0	24.9	100	24.7	99	200.8
Silver	12.5	12.3	98	25.0	24.9	100	24.1	96	200.8
Sodium	12500	12021	96	10000	9748	97	9693	97	200.7
Thallium	25.0	24.8	99	25.0	24.2	97	24.8	99	200.8
Vanadium	25.0	25.7	103	25.0	25.1	100	24.7	99	200.8
Zinc	25.0	26.4	106	25.0	24.7	99	24.8	99	200.8

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				5000	5064	101	5025	100	200.7
Barium				2500	2496	100	2513	101	200.7
Calcium				2500	2489	100	2482	99	200.7
Calcium				25000	25882	104	25807	103	200.7
Iron				500	505	101	507	101	200.7
Iron				25000	25306	101	25317	101	200.7
Magnesium				2000	1986	99	2000	100	200.7
Magnesium				25000	25351	101	25064	100	200.7
Manganese				1000	964	96	967	97	200.7
Manganese				5000	4958	99	4964	99	200.7
Potassium				10000	9949	99	9841	98	200.7
Sodium				10000	9755	98	9742	97	200.7

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	5000	4935	99	10000	9909	99	10300	103	200.7
Antimony	25.0	25.1	100	25.0	25.1	100	24.9	100	200.8
Arsenic	25.0	24.7	99	25.0	24.6	98	25.1	100	200.8
Barium	5000	5050	101	10000	10190	102	10480	105	200.7
Beryllium	2.5	2.7	108	25.0	25.1	100	26.1	104	200.8
Cadmium	12.5	12.9	103	25.0	24.8	99	24.5	98	200.8
Calcium	12500	12390	99	10000	10040	100	10370	104	200.7
Chromium	10.0	10.2	102	25.0	25.2	101	26.6	106	200.8
Cobalt	25.0	24.7	99	25.0	24.8	99	26.1	104	200.8
Copper	12.5	12.6	101	25.0	24.7	99	25.8	103	200.8
Iron	2500	2480	99	10000	10010	100	10280	103	200.7
Lead	25.0	25.9	104	25.0	25.2	101	25.0	100	200.8
Magnesium	12500	12470	100	10000	10050	100	10310	103	200.7
Magnesium	12500	12520	100	10000	9905	99	9972	100	200.7
Manganese	1250	1229	98	250	246	98	251	100	200.7
Manganese	1250	1255	100	250	247	99	247	99	200.7
Nickel	25.0	25.3	101	25.0	24.9	100	26.0	104	200.8
Potassium	12500	12620	101	10000	10010	100	10230	102	200.7
Selenium	25.0	25.5	102	25.0	24.5	98	24.8	99	200.8
Silver	12.5	13.3	106	25.0	24.8	99	25.1	100	200.8
Sodium	12500	12510	100	10000	9888	99	10060	101	200.7
Thallium	25.0	26.4	106	25.0	25.4	102	25.4	102	200.8
Vanadium	25.0	25.3	101	25.0	24.5	98	26.1	104	200.8
Zinc	25.0	26.2	105	25.0	24.9	100	25.0	100	200.8

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				10000	10030	100			200.7
Antimony				25.0	25.4	102			200.8
Arsenic				25.0	24.9	100			200.8
Barium				10000	10210	102			200.7
Beryllium				25.0	26.1	104			200.8
Cadmium				25.0	24.7	99			200.8
Calcium				10000	9991	100			200.7
Chromium				25.0	26.6	106			200.8
Cobalt				25.0	25.2	101			200.8
Copper				25.0	25.1	100			200.8
Iron				10000	9926	99			200.7
Lead				25.0	25.4	102			200.8
Magnesium				10000	10060	101			200.7
Magnesium				10000	9735	97			200.7
Manganese				250	254	102			200.7
Manganese				250	243	97			200.7
Nickel				25.0	25.3	101			200.8
Potassium				10000	9873	99			200.7
Selenium				25.0	24.4	98			200.8
Silver				25.0	25.4	102			200.8
Sodium				10000	9802	98			200.7
Thallium				25.0	25.5	102			200.8
Vanadium				25.0	25.6	102			200.8
Zinc				25.0	24.9	100			200.8

Metals

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial			Final	
				True	Found	%R	Found	%R
Aluminum				50.00	49.75	100		
Antimony				0.05	0.06	120		
Arsenic				0.50	0.53	106		
Barium				5.00	5.06	101		
Beryllium				0.020	0.016	80		
Cadmium				0.020	0.020	100		
Calcium				50.00	46.24	92		
Chromium				0.20	0.21	105		
Cobalt				0.020	0.020	100		
Copper				0.10	0.11	110		
Iron				20.00	21.99	110		
Lead				0.020	0.022	110		
Magnesium				20.00	17.81	89		
Manganese				5.00	4.90	98		
Mercury	0.20	0.20	100					
Nickel				0.20	0.19	95		
Potassium				400.00	376.77	94		
Selenium				1.0	1.1	110		
Silver				0.020	0.021	105		
Sodium				200.00	205.85	103		
Thallium				0.020	0.011	55		
Vanadium				0.20	0.20	100		
Zinc				0.50	0.47	94		

Metals

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglär - Kronquist

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				50.0	42.9	86		
Antimony				0.05	0.05	100		
Arsenic				0.50	0.59	118		
Barium				5.0	5.7	114		
Beryllium				0.020	0.018	90		
Cadmium				0.020	0.018	90		
Calcium				50.0	53.0	106		
Chromium				0.20	0.20	100		
Cobalt				0.020	0.020	100		
Copper				0.10	0.13	130		
Iron				20.0	13.4	67		
Lead				0.020	0.023	115		
Magnesium				20.0	13.1	66		
Manganese				5.0	5.0	100		
Nickel				0.20	0.24	120		
Potassium				400.0	394.6	99		
Selenium				1.0	1.1	110		
Silver				0.020	0.016	80		
Sodium				200.0	169.0	84		
Thallium				0.020	0.022	110		
Vanadium				0.20	0.21	105		
Zinc				0.50	0.56	112		

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank						Method
		C	1	C	2	C	3	C	
Aluminum	30	U	30	U	30	U	30	U	200.7
Antimony	0.020	U	0.020	U	0.020	U			200.8
Arsenic	0.07	U	0.07	U	0.07	U			200.8
Barium	0.6	U	0.6	U	0.9	J	0.6	U	200.7
Beryllium	0.003	U	0.003	U	0.003	J			200.8
Cadmium	0.003	U	0.003	U	0.003	J			200.8
Calcium	6.0	U	7.6	J	-7.3	J	6.0	U	200.7
Chromium	0.04	U	0.04	U	0.04	U			200.8
Cobalt	0.003	U	0.003	U	0.003	J			200.8
Copper	0.02	U	0.02	U	0.02	U			200.8
Iron	5.4	J	1.1	J	3.3	J	3.8	J	200.7
Lead	0.005	U	0.005	U	0.005	U			200.8
Magnesium	0.3	U	0.3	U	0.3	J	2.7	J	200.7
Manganese	1.2	J	0.7	J	0.8	J	0.8	J	200.7
Mercury	0.02	U	0.02	U	0.02	U			245.1
Nickel	0.03	U	0.03	U	-0.05	J			200.8
Potassium	40	U	40	U	40	U	40	U	200.7
Selenium	0.3	U	0.3	U	0.3	U			200.8
Silver	0.004	U	0.004	U	0.006	J			200.8
Sodium	20	U	20	U	20	U	20	U	200.7
Thallium	-0.005	J	-0.007	J	0.002	U			200.8
Vanadium	0.03	U	0.03	U	0.03	U			200.8
Zinc	0.2	U	0.2	U	0.2	U			200.8

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank	Continuing Calibration Blank						Method	
		C	1	C	2	C	3		C
Aluminum			-32	J					200.7
Barium			0.6	U					200.7
Calcium			6.0	U					200.7
Iron			4.9	J					200.7
Magnesium			4.3	J					200.7
Manganese			0.9	J					200.7
Potassium			40	U					200.7
Sodium			20	U					200.7

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank						Method
		C	1	C	2	C	3	C	
Aluminum	-5.1	J	-5.1	J	-5.8	J	-4.5	J	200.7
Antimony	0.020	U	0.020	U	0.020	U	0.020	U	200.8
Arsenic	0.07	U	0.07	U	0.07	U	0.07	U	200.8
Barium	0.4	U	0.4	U	0.4	U	0.4	J	200.7
Beryllium	0.003	U	0.003	U	0.003	U	0.003	U	200.8
Cadmium	0.003	U	0.003	U	0.003	U	0.003	U	200.8
Calcium	6.0	U	6.0	U	6.0	U	6.0	U	200.7
Chromium	0.04	U	-0.05	J	0.05	J	0.04	U	200.8
Cobalt	0.003	U	0.003	U	0.003	U	-0.005	J	200.8
Copper	0.02	U	0.02	U	0.03	J	0.02	U	200.8
Iron	-6.1	J	-4.3	J	3.0	U	-3.0	J	200.7
Lead	0.005	U	0.005	U	0.005	U	0.005	U	200.8
Magnesium	-4.5	J	-6.6	J	-2.5	J	-5.0	J	200.7
Manganese	0.6	J	0.2	U	0.2	U	0.2	J	200.7
Nickel	0.03	U	0.03	U	0.03	U	0.03	U	200.8
Potassium	50	U	50	U	-73	J	50	U	200.7
Selenium	0.3	U	0.3	U	0.3	U	0.3	U	200.8
Silver	0.006	J	0.004	U	0.004	U	0.004	U	200.8
Sodium	20.0	U	20.0	U	-28.9	J	-26.0	J	200.7
Thallium	0.002	U	0.002	U	0.003	J	-0.002	J	200.8
Vanadium	0.03	U	0.03	U	0.03	U	0.03	U	200.8
Zinc	0.2	U	0.2	U	0.2	U	0.2	U	200.8

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-02

ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	509194	506867.7	101.4			
Barium		500	0	475.1	95.0			
Calcium	500000	500000	494577	488159.1	97.6			
Iron	200000	200000	202253	199299.5	99.6			
Magnesium	500000	500000	526613	518210.0	103.6			
Manganese		500	14	475.0	95.0			
Potassium			-36	-61.2				
Sodium			107	47.0				

80-120% control criteria is not applicable to interfering elements (Al,Ca,Fe,Mg).

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	437200	444500	89			
Barium		500	1	520	104			
Calcium	500000	500000	468300	473400	95			
Iron	200000	200000	180800	180800	90			
Magnesium	500000	500000	514000	521700	104			
Manganese		500	3	513	103			
Potassium			-21	-117				
Sodium			21	-2				

80-120% control criteria is not applicable to interfering elements (Al,Ca,Fe,Mg).

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar - Kronquist

Basis: N/A

Matrix: WATER

% Solids: 0.0

Sample Name: Batch QC1S

Lab Code: K1004870-004S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Aluminum	70 - 130	1980	30 U	2000.00	99.0		200.7
Barium	70 - 130	2130	55.9	2000.00	103.7		200.7
Iron	70 - 130	1090	102	1000.00	98.8		200.7
Manganese	70 - 130	490	21.4	500.00	93.7		200.7

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar - Kronquist

Basis: N/A

Matrix: WATER

% Solids: 0.0

Sample Name: SW-2S

Lab Code: K1004934-005S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	70 - 130	20.2		0.10		20.00	100.5		200.8
Arsenic	70 - 130	23.3		2.53		20.00	103.8		200.8
Beryllium	70 - 130	18.8		0.003	J	20.00	94.0		200.8
Cadmium	70 - 130	20.1		0.024		20.00	100.4		200.8
Chromium	70 - 130	18.3		0.76		20.00	87.7		200.8
Cobalt	70 - 130	18.4		0.077		20.00	91.6		200.8
Copper	70 - 130	18.4		0.53		20.00	89.4		200.8
Lead	70 - 130	18.1		0.046		20.00	90.3		200.8
Nickel	70 - 130	18.4		1.17		20.00	86.2		200.8
Selenium	70 - 130	21.3		0.7	J	20.00	103.0		200.8
Silver	70 - 130	19.6		0.004	U	20.00	98.0		200.8
Thallium	70 - 130	18.8		0.050		20.00	93.8		200.8
Vanadium	70 - 130	24.5		6.46		20.00	90.2		200.8
Zinc	70 - 130	21.3		2.37		20.00	94.6		200.8

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: SW-9S

Lab Code: K1004934-007S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Mercury	70 - 130	1.04	0.02 U	1.00	104.0		245.1

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar - Kronquist

Basis: N/A

Matrix: WATER

% Solids: 0.0

Sample Name: Batch QC2S

Lab Code: K1005015-001S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Aluminum	70 - 130	2060	25.0 J	2000.00	101.8		200.7
Barium	70 - 130	2100	0.9 J	2000.00	105.0		200.7
Iron	70 - 130	1040	26.9	1000.00	101.3		200.7
Manganese	70 - 130	503	2.6 J	500.00	100.1		200.7

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QC3S

Lab Code: K1005117-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	70 - 130	20.0		0.38		20.00	98.1		200.8
Arsenic	70 - 130	23.7		3.84		20.00	99.3		200.8
Beryllium	70 - 130	19.8		0.008	J	20.00	99.0		200.8
Cadmium	70 - 130	20.0		0.144		20.00	99.3		200.8
Chromium	70 - 130	21.1		0.70		20.00	102.0		200.8
Cobalt	70 - 130	21.0		1.470		20.00	97.6		200.8
Copper	70 - 130	25.3		6.08		20.00	96.1		200.8
Lead	70 - 130	21.7		2.530		20.00	95.8		200.8
Nickel	70 - 130	23.3		3.26		20.00	100.2		200.8
Selenium	70 - 130	20.1		0.3	U	20.00	100.5		200.8
Silver	70 - 130	20.0		0.005	J	20.00	100.0		200.8
Thallium	70 - 130	19.8		0.057		20.00	98.7		200.8
Vanadium	70 - 130	21.6		2.10		20.00	97.5		200.8
Zinc		178		161		20.00	85.0		200.8

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5B -

POST SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar - Kronquist

Basis: N/A

Matrix: WATER

Sample Name: SW-9A

Lab Code: K1004934-007A

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Mercury	85 - 115	1.03	0.02 U	1.00	103		245.1

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QC1D

Lab Code: K1004870-004D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		30	U	30	U			200.7
Barium	20	55.9		55.4		0.9		200.7
Calcium	20	22100		22000		0.5		200.7
Iron		102		100		2.0		200.7
Magnesium	20	9210		9170		0.4		200.7
Manganese		21.4		21.2		0.9		200.7
Potassium	20	3320		3310		0.3		200.7
Sodium	20	11300		11300		0.0		200.7

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: SW-2D

Lab Code: K1004934-005D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		0.10		0.09		10.5		200.8
Arsenic		2.53		2.48		2.0		200.8
Beryllium		0.003	J	0.004	J	28.6		200.8
Cadmium		0.024		0.028		15.4		200.8
Chromium		0.76		0.74		2.7		200.8
Cobalt		0.077		0.079		2.6		200.8
Copper		0.53		0.50		5.8		200.8
Lead		0.046		0.047		2.2		200.8
Nickel	20	1.17		1.26		7.4		200.8
Selenium		0.7	J	0.6	J	15.4		200.8
Silver		0.004	U	0.004	U			200.8
Thallium		0.050		0.042		17.4		200.8
Vanadium	20	6.46		6.43		0.5		200.8
Zinc		2.37		2.40		1.3		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: SW-9D

Lab Code: K1004934-007D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury		0.02	U	0.02	U			245.1

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QC2D

Lab Code: K1005015-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		25.0	J	29.4	J	16.2		200.7
Barium		0.9	J	0.8	J	11.8		200.7
Calcium	20	1490		1470		1.4		200.7
Iron		26.9		25.6		5.0		200.7
Magnesium	20	568		566		0.4		200.7
Manganese		2.6	J	2.5	J	3.9		200.7
Potassium		117	J	115	J	1.7		200.7
Sodium	20	1150		1140		0.9		200.7

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar - Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QC3D

Lab Code: K1005117-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony	20	0.38		0.46		19.0		200.8
Arsenic	20	3.84		3.98		3.6		200.8
Beryllium		0.008	J	0.006	J	28.6		200.8
Cadmium	20	0.144		0.142		1.4		200.8
Chromium		0.70		0.72		2.8		200.8
Cobalt	20	1.470		1.480		0.7		200.8
Copper	20	6.08		6.12		0.7		200.8
Lead	20	2.530		2.550		0.8		200.8
Nickel	20	3.26		3.34		2.4		200.8
Selenium		0.3	U	0.3	U			200.8
Silver		0.005	J	0.004	U	200.0		200.8
Thallium		0.057		0.057		0.0		200.8
Vanadium	20	2.10		2.13		1.4		200.8
Zinc	20	161		165		2.5		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 7 -

LABORATORY CONTROL SAMPLE

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Aqueous LCS Source: CAS MIXED

Solid LCS Source:

Analyte	Aqueous: ug/L			Solid: mg/kg				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	5000	5020	100.4					
Antimony	20	20.0	100.0					
Arsenic	20	20.2	101.0					
Barium	5000	5080	101.6					
Beryllium	20	20.6	103.0					
Cadmium	20	20.4	102.0					
Calcium	12500	12300	98.4					
Chromium	20	20.6	103.0					
Cobalt	20	20.3	101.5					
Copper	20	20.4	102.0					
Iron	2500	2470	98.8					
Lead	20	20.4	102.0					
Magnesium	12500	11500	92.0					
Manganese	1250	1230	98.4					
Mercury	5	4.99	99.8					
Nickel	20	19.7	98.5					
Potassium	12500	12500	100.0					
Selenium	20	20.0	100.0					
Silver	20	20.9	104.5					
Sodium	12500	12400	99.2					
Thallium	20	20.6	103.0					
Vanadium	20	20.4	102.0					
Zinc	20	20.3	101.5					

Metals

- 9 -

ICP SERIAL DILUTIONS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar - Kronquist

Sample Name: Batch QC1L

Lab Code: K1004870-004L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum	30.00	U	150.00	U			P
Barium	55.90		58.10		3.9		P
Calcium	21734.31		21311.40		1.9		P
Iron	101.56		115.75		14.0	E	P
Magnesium	9208.33		9068.70		1.5		P
Manganese	21.37		21.45	J	0.4		P
Potassium	3322		3072		8		P
Sodium	11307.08		10658.95		5.7		P

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP/ICP-MS ID #: K-ICP-AES-02

GFAA ID #:

AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Aluminum	237.3		50	30.0	P
Barium	233.5		5	0.6	P
Calcium	211.2		50	6.0	P
Iron	259.90		20	0.8	P
Magnesium	202.5		20	0.3	P
Manganese	257.61		5	0.2	P
Potassium	766.49		400	40.0	P
Sodium	330.23		100	20.0	P

Comments:

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP/ICP-MS ID #: K-ICP-MS-02

GFAA ID #:

AA ID #:

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Antimony	123		0.05	0.02	MS
Arsenic	75		0.5	0.07	MS
Beryllium	9		0.02	0.003	MS
Cadmium	111		0.02	0.003	MS
Chromium	52		0.2	0.04	MS
Cobalt	59		0.02	0.003	MS
Copper	65		0.1	0.02	MS
Lead	208		0.02	0.005	MS
Nickel	60		0.2	0.03	MS
Selenium	82		1.0	0.3	MS
Silver	107		0.02	0.004	MS
Thallium	205		0.02	0.002	MS
Vanadium	51		0.2	0.03	MS
Zinc	66		0.5	0.20	MS

Comments:

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Aluminum	394.4		50	2.0	P
Barium	455.4		5.0	0.4	P
Calcium	315.8		50	6.0	P
Iron	259.9		20	3.0	P
Magnesium	285.2		20	2.0	P
Manganese	257.6		5.0	0.2	P
Potassium	766.5		400	50	P
Sodium	589.5		200	20.0	P

Comments:

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #: K-CVAA-01

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Mercury	253.70		0.2	0.02	CV

Comments:

Metals

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	As
Aluminum	308.215	0.0000000	0.0000000	-0.0004100	0.0000000	0.0000000
Aluminum	308.215	0.0000000	0.0000000	-0.0004100	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	-0.0001100	-0.0000900	0.0000000
Arsenic	189.042	0.0000000	0.0000000	-0.0001100	-0.0000900	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0005800	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0005800	0.0000000	0.0000000
Cadmium	228.802	0.0000000	0.0000000	0.0000900	0.0000000	0.0000000
Cadmium	228.802	0.0000000	0.0000000	0.0000900	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	-0.0000200	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	-0.0000200	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0001200	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0001200	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	-0.0000100	0.0000000	-0.0000100	-0.0000100	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglär - Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	Mn	Mo
Aluminum	308.215	-0.0052000	-0.0034300	0.0000000	0.0000000	0.0000000
Aluminum	308.215	-0.0052000	-0.0034300	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0002400	0.0080100	0.0000000	-0.0001500	-0.0184200
Antimony	206.838	0.0002400	0.0080100	0.0000000	-0.0001500	-0.0184200
Arsenic	189.042	0.0000000	0.0004000	0.0000000	0.0000000	0.0005700
Arsenic	189.042	0.0000000	0.0004000	0.0000000	0.0000000	0.0005700
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000800
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000800
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	-0.0001000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	-0.0001000	0.0000000	0.0000000	0.0000000
Cadmium	228.802	-0.0000500	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.802	-0.0000500	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0006000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0006000
Copper	324.754	0.0000000	-0.0000500	0.0000000	0.0000000	0.0002700
Copper	324.754	0.0000000	-0.0000500	0.0000000	0.0000000	0.0002700
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0003800	-0.0002100	0.0000000	0.0000000	-0.0016500
Lead	220.353	0.0003800	-0.0002100	0.0000000	0.0000000	-0.0016500
Magnesium	202.5	0.3183600	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.3183600	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	-0.0001200	0.0000000	0.0000000	-0.0000900	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:			
		Ni	P	Ti	V
Aluminum	308.215	0.0000000	0.0000000	0.0000000	0.0000000
Aluminum	308.215	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	-0.0014400
Barium	493.409	0.0000000	0.0000000	0.0000000	-0.0014400
Beryllium	313.042	0.0000000	0.0000000	-0.0000200	0.0016600
Beryllium	313.042	0.0000000	0.0000000	-0.0000200	0.0016600
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.802	-0.0000900	0.0000000	0.0000500	0.0000000
Cadmium	228.802	-0.0000900	0.0000000	0.0000500	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	211.2	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000200	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000200	0.0000000	0.0000000
Cobalt	228.616	0.0001300	0.0000000	0.0012500	0.0000000
Cobalt	228.616	0.0001300	0.0000000	0.0012500	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	-0.0008400
Copper	324.754	0.0000000	0.0000000	0.0000000	-0.0008400
Iron	271.4	0.0000000	0.0000000	0.0000000	-0.0315100
Iron	271.4	0.0000000	0.0000000	0.0000000	-0.0315100
Lead	220.353	0.0003800	0.0000000	-0.0006200	0.0000000
Lead	220.353	0.0003800	0.0000000	-0.0006200	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.9	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	-0.0000500	0.0000000	0.0000000	0.0000000

Comments:

Metals

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

Molybdenum	202.03	-0.0000100	0.0000000	-0.0000100	-0.0000100	0.0000000
Nickel	231.604	0.0000000	0.0000000	-0.0000700	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	-0.0000700	0.0000000	0.0000000
Phosphorus	214.9	-0.0002000	0.0000000	0.0004400	0.0000000	0.0000000
Phosphorus	214.9	-0.0002000	0.0000000	0.0004400	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0000600	0.0000000	-0.0000600	0.0000000	0.0000000
Selenium	196.026	-0.0000600	0.0000000	-0.0000600	0.0000000	0.0000000
Silicon	228.158	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	228.158	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0001100	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0001100	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	-0.0001900	-0.0000900	0.0000000
Thallium	190.864	0.0000000	0.0000000	-0.0001900	-0.0000900	0.0000000
Tin	189.989	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.856	-0.0000100	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.856	-0.0000100	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

Molybdenum	202.03	-0.0001200	0.0000000	0.0000000	-0.0000900	0.0000000
Nickel	231.604	0.0000700	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000700	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.9	0.0000000	0.0010100	-0.0810500	0.0000000	0.0038000
Phosphorus	214.9	0.0000000	0.0010100	-0.0810500	0.0000000	0.0038000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0003600	-0.0003700	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0003600	-0.0003700	0.0000000	0.0000000	0.0000000
Silicon	228.158	0.0000000	0.0000000	0.0000000	-0.0026300	0.0090100
Silicon	228.158	0.0000000	0.0000000	0.0000000	-0.0026300	0.0090100
Silver	328.068	0.0000000	0.0000800	0.0000000	0.0000000	-0.0005600
Silver	328.068	0.0000000	0.0000800	0.0000000	0.0000000	-0.0005600
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0073700	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0073700	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	-0.0002500	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	-0.0002500	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	-0.0000900	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	-0.0000900	0.0000000	0.0000000	0.0000000
Zinc	213.856	0.0000000	-0.0012600	0.0000000	0.0000000	-0.0001000
Zinc	213.856	0.0000000	-0.0012600	0.0000000	0.0000000	-0.0001000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglär - Kronquist

ICP ID Number: K-ICP-AES-03

Molybdenum	202.03	-0.0000500	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.9	0.0000000	0.0000000	0.0000000	-0.0020400
Phosphorus	214.9	0.0000000	0.0000000	0.0000000	-0.0020400
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0007900	0.0000000	0.0000000	0.0004900
Selenium	196.026	-0.0007900	0.0000000	0.0000000	0.0004900
Silicon	228.158	0.0000000	0.0000000	0.0753200	0.0000000
Silicon	228.158	0.0000000	0.0000000	0.0753200	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0007300	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0007300	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.995	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	-0.0015400	0.0000000
Thallium	190.864	0.0000000	0.0000000	-0.0015400	0.0000000
Tin	189.989	0.0000000	0.0000000	-0.0015800	0.0000000
Tin	189.989	0.0000000	0.0000000	-0.0015800	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.856	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.856	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

Metals
-12-
ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum	5.000	900000	200.7
Barium	5.000	45000	200.7
Calcium	5.000	1800000	200.7
Iron	5.000	900000	200.7
Magnesium	5.000	900000	200.7
Manganese	5.000	180000	200.7
Potassium	5.000	450000	200.7
Sodium	5.000	180000	200.7

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

ICP ID Number: K-ICP-AES-03

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum	15.000	900000	200.7
Barium	15.000	45000	200.7
Calcium	15.000	900000	200.7
Iron	15.000	360000	200.7
Magnesium	15.000	540000	200.7
Manganese	15.000	180000	200.7
Potassium	15.000	900000	200.7
Sodium	15.000	900000	200.7

Comments:

Metals
-12-
ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglär - Kronquist

ICP ID Number: K-ICP-MS-02

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony	15.000	900	200.8
Arsenic	15.000	900	200.8
Beryllium	15.000	450	200.8
Cadmium	15.000	900	200.8
Chromium	15.000	900	200.8
Cobalt	15.000	900	200.8
Copper	15.000	900	200.8
Lead	15.000	900	200.8
Nickel	15.000	900	200.8
Selenium	15.000	900	200.8
Silver	15.000	270	200.8
Thallium	15.000	450	200.8
Vanadium	15.000	900	200.8
Zinc	15.000	900	200.8

Comments:

Metals

-13-

PREPARATION LOG

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004870-004D	05/27/10	50.0	50.0
K1004870-004S	05/27/10	50.0	50.0
K1004934-001	05/27/10	50.0	50.0
K1004934-002	05/27/10	50.0	50.0
K1004934-003	05/27/10	50.0	50.0
K1004934-004	05/27/10	50.0	50.0
K1004934-005	05/27/10	50.0	50.0
K1004934-006	05/27/10	50.0	50.0
K1004934-007	05/27/10	50.0	50.0
K1004934-008	05/27/10	50.0	50.0
K1004934-MB	05/27/10	50.0	50.0
K1005015-001D	05/27/10	50.0	50.0
K1005015-001S	05/27/10	50.0	50.0
LCSW	05/27/10	50.0	50.0

Metals

-13-

PREPARATION LOG

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004934-005	05/27/10	50.0	50.0
K1004934-005D	05/27/10	50.0	50.0
K1004934-005S	05/27/10	50.0	50.0
K1004934-006	05/27/10	50.0	50.0
K1004934-007	05/27/10	50.0	50.0
K1004934-008	05/27/10	50.0	50.0
K1004934-MB	05/27/10	50.0	50.0
K1005117-001D	05/27/10	50.0	50.0
K1005117-001S	05/27/10	50.0	50.0
LCSW	05/27/10	50.0	50.0

Metals
-13-
PREPARATION LOG

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Method: CV

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004934-005	06/08/10	100.0	100.0
K1004934-006	06/08/10	100.0	100.0
K1004934-007	06/08/10	100.0	100.0
K1004934-007D	06/08/10	100.0	100.0
K1004934-007S	06/08/10	100.0	100.0
K1004934-008	06/08/10	100.0	100.0
K1004934-MB	06/08/10	100.0	100.0
LCSW	06/08/10	100.0	100.0

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 06/04/10

End Date: 06/04/10

Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V	Z N	C N		
Blank	1	08:26		X		X			X			X	X	X				X			X								
STDB	1	08:29		X		X			X			X	X	X				X			X								
STDA	1	08:32							X			X	X	X															
ICV1	1	08:35		X		X			X			X	X	X				X			X								
ICV1	1	08:38							X			X	X	X															
ICB1	1	08:41		X		X			X			X	X	X				X			X								
CCV1	1	08:50		X		X			X			X	X	X				X			X								
CCV1	1	08:58							X			X	X	X															
CCB1	1	09:04		X		X			X			X	X	X				X			X								
CRA1	1	09:07		X		X			X			X	X	X				X			X								
ICS-A1	1	09:10		X		X			X			X	X	X				X			X								
ICS-AB1	1	09:13		X		X			X			X	X	X				X			X								
ZZZZZ	1	09:16																											
CCV2	1	09:19		X		X			X			X	X	X				X			X								
CCV2	1	09:22							X			X	X	X															
CCB2	1	09:25		X		X			X			X	X	X				X			X								
K1004934-MB	1	09:31		X		X			X			X	X	X				X			X								
LCSW	1	09:34		X		X			X			X	X	X				X			X								
ZZZZZ	1	09:37																											
K1004870-004D	1	09:40		X		X			X			X	X	X				X			X								
K1004870-004L	5	09:43		X		X			X			X	X	X				X			X								
K1004870-004S	1	09:46		X		X						X		X															
ZZZZZ	1	09:49																											
ZZZZZ	1	09:52																											
ZZZZZ	1	09:55																											
ZZZZZ	1	09:58																											
CCV3	1	10:01		X		X			X			X	X	X				X			X								
CCV3	1	10:04							X			X	X	X															
CCB3	1	10:07		X		X			X			X	X	X				X			X								
K1004934-001	1	10:10							X				X					X			X								
K1004934-002	1	10:13							X				X					X			X								
K1004934-003	1	10:16							X				X					X			X								

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

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ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 06/04/10

End Date: 06/04/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
K1004934-004	1	10:19							X						X				X			X									
K1004934-005	1	10:22		X			X		X				X	X	X			X			X										
K1004934-006	1	10:25		X			X		X				X	X	X			X			X										
K1004934-007	1	10:28		X			X		X				X	X	X			X			X										
K1004934-008	1	10:31		X			X		X				X	X	X			X			X										
ZZZZZZ	1	10:34																													
ZZZZZZ	1	10:37																													
CCV4	1	10:40		X			X		X				X	X	X			X			X										
CCV4	1	10:43							X				X	X	X																
CCB4	1	10:46		X			X		X				X	X	X			X			X										

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Instrument ID Number: K-ICP-MS-02

Method: MS

Start Date: 06/04/10

End Date: 06/04/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
Cal. Blk	1	17:43		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Cal Std	1	17:47		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICV1	1	17:56		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV1	1	17:59		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICB1	1	18:13		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB1	1	18:17		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CRA1	1	18:21		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
K1004934-MB	1	18:25		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCSW	1	18:29		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
K1004934-005	1	18:38		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
K1004934-005D	1	18:42		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
K1004934-005S	1	18:47		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
K1004934-006	1	19:01		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
K1004934-007	1	19:07		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
K1004934-008	1	19:13		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV2	1	19:17		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB2	1	19:26		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

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Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Instrument ID Number: K-ICP-MS-02

Method: MS

Start Date: 06/07/10

End Date: 06/07/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
Cal. Blk	1	11:41			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
Cal. Stn	1	11:46			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
ICV2	1	11:51			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
CCV1	1	11:56			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
ICB2	1	12:06			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
CCB1	1	12:17			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
CRA2	1	12:21			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
ZZZZZZ	1	12:38																													
ZZZZZZ	1	12:42																													
ZZZZZZ	1	12:47																													
ZZZZZZ	1	12:51																													
ZZZZZZ	1	12:56																													
ZZZZZZ	1	13:01																													
ZZZZZZ	1	13:10																													
ZZZZZZ	1	13:19																													
ZZZZZZ	1	13:25																													
ZZZZZZ	1	13:31																													
CCV2	1	13:38			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
CCB2	1	13:46			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
ZZZZZZ	1	13:51																													
K1005117-001D	1	13:57			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
K1005117-001S	1	14:03			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
CCV3	1	14:12			X	X		X	X		X	X	X		X				X		X	X		X	X	X					
CCB3	1	14:20			X	X		X	X		X	X	X		X				X		X	X		X	X	X					

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Metals

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ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 06/07/10

End Date: 06/07/10

Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
BLK	1	18:24		X		X		X			X	X	X					X		X									
STD A	1	18:27													X														
STD B	1	18:30		X		X		X			X	X						X		X									
ICV2	1	18:34		X		X		X			X	X	X					X		X									
ICV2	1	18:38																											
ZZZZZZ	1	18:41																											
ICB2	1	18:44		X		X		X			X	X	X					X		X									
CCV1	1	18:47													X														
CCV1	1	18:56		X		X		X			X	X						X		X									
CCB1	1	19:24		X		X		X			X	X	X					X		X									
CRA2	1	19:26		X		X		X			X	X	X					X		X									
ZZZZZZ	1	19:29																											
ICS-A2	1	19:32		X		X		X			X	X	X					X		X									
ICS-AB2	1	19:36		X		X		X			X	X	X					X		X									
ZZZZZZ	1	19:43																											
ZZZZZZ	1	19:46																											
ZZZZZZ	1	19:49																											
ZZZZZZ	1	19:53																											
ZZZZZZ	1	19:57																											
K1005015-001D	1	20:00		X		X		X			X	X	X					X		X									
CCV2	1	20:03													X														
CCV2	1	20:06		X		X		X			X	X						X		X									
CCB2	1	20:10		X		X		X			X	X	X					X		X									
ZZZZZZ	5	20:12																											
ZZZZZZ	1	20:15																											
K1005015-001S	1	20:19		X		X					X		X																
ZZZZZZ	1	20:23																											
ZZZZZZ	1	20:26																											
ZZZZZZ	1	20:30																											
ZZZZZZ	1	20:33																											
ZZZZZZ	1	20:37																											
ZZZZZZ	1	20:41																											

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

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ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004934

Project No.: 0907194.000.0601

Project Name: Heglar - Kronquist

Instrument ID Number: K-ICP-AES-03

Method: P

Start Date: 06/07/10

End Date: 06/07/10

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1	20:45																													
CCV3	1	20:49																							X						
CCV3	1	20:52		X			X			X				X	X				X			X									
CCB3	1	20:56		X			X			X				X	X	X			X			X									

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Metals
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ANALYSIS RUN LOG

Client: Exponent Service Request: K1004934
 Project No.: 0907194.000.0601
 Project Name: Heglar - Kronquist

Instrument ID Number: K-CVAA-01

Method: CV

Start Date: 06/10/10

End Date: 06/10/10

Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A G	N A	T L	V	Z N	C N		
Standard #1	1	11:26															X												
Standard #2	1	11:28															X												
Standard #3	1	11:30															X												
Standard #4	1	11:32															X												
Standard #5	1	11:33															X												
ICV1	1	11:35															X												
ICB1	1	11:37															X												
CCV1	1	11:39															X												
CCB1	1	11:40															X												
CRA1	1	11:42															X												
K1004934-MB	1	11:44															X												
LCSW	1	11:46															X												
K1004934-005	1	11:47															X												
K1004934-006	1	11:49															X												
K1004934-007	1	11:51															X												
K1004934-007A	1	11:53															X												
K1004934-007D	1	11:55															X												
K1004934-007S	1	11:56															X												
K1004934-008	1	11:58															X												
CCV2	1	12:00															X												

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Columbia Analytical Services™ Preparation Information Benchsheet

Prep Run: 112433
Team: Metals
Analyst: WSchumann

Prep Workflow: MetDigAqMS
 EPA CLP-METALS
 ILM04.0,EPA CLP-METALS
 ILM05.3

Status: Prepped
Current Step: Digestion

Prep Date: 05/27/2010 04:15
Due Date: 05/30/2010

Rush/NPDES: N/A

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1004909-01	Method Blank		50 mL	50 mL			Metals D, Metals T	1% HNO3
KQ1004909-02	Lab Control Sample		50 mL	50 mL	1 mL 1 mL	11605 17425	Metals D, Metals T	1% HNO3
K1004870-001	BH-6	.05	50 mL	50 mL			Metals D	1% HNO3
K1004870-002	BH-7	.05	50 mL	50 mL			Metals D	1% HNO3
K1004870-003	BH-15	.05	50 mL	50 mL			Metals D	1% HNO3
K1004870-004	4aad	.05	50 mL	50 mL			Metals T	1% HNO3
K1004934-005	SW-2	.12	50 mL	50 mL			Metals T	1% HNO3
K1004934-005: KQ1004909-05	Duplicate	.12	50 mL	50 mL			Metals T	1% HNO3
K1004934-005: KQ1004909-06	Matrix Spike	.12	50 mL	50 mL	1 mL 1 mL	11605 17425	Metals T	1% HNO3
K1004934-006	SW-3	.12	50 mL	50 mL			Metals T	1% HNO3
K1004934-007	SW-9	.12	50 mL	50 mL			Metals T	1% HNO3
K1004934-008	FB-051410	.12	50 mL	50 mL			Metals T	1% HNO3
K1005015-001	BRUVPIlot1:BA92933	.03	50 mL	50 mL			Metals T	1% HNO3
K1005067-002	3bcd-2	.20	50 mL	50 mL			Metals D	1% HNO3
K1005067-003	3ddd	.20	50 mL	50 mL			Metals D	1% HNO3
K1005067-004	EB-051710	.20	50 mL	50 mL			Metals D	1% HNO3
K1005117-001	MS	.04	50 mL	50 mL			Metals T	1% HNO3
K1005117-001: KQ1004909-03	Duplicate	.04	50 mL	50 mL			Metals T	1% HNO3
K1005117-001: KQ1004909-04	Matrix Spike	.04	50 mL	50 mL	1 mL 1 mL	11605 17425	Metals T	1% HNO3
K1005117-002	MS-Roof	.04	50 mL	50 mL			Metals T	1% HNO3
K1005117-003	Pipe Under Tracks	.04	50 mL	50 mL			Metals T	1% HNO3

21 Total Samples consisting of 15 Client Samples, 4 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET 200.8 1000ug/L Stock	Spike	17425	10/24/2010	K-MET Ag 1000 ppb Stock	Spike	11605	8/17/2010

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET HN03 ULTREX	16811	Digestion	K-MET 50ml Centrifuge Tube	16850

Preparation Hardware / Equipment

Step	Name	Property	Value	
Digestion	K-BlockDigester-06	Temperature	95	deg C

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	27-MAY-10 04:15	27-MAY-10 07:15	WSchumann		N	

Comments

Review

Reviewed by: BJS Date: 5/27/10

Columbia Analytical Services Preparation Information Benchsheet

Prep Run: 112427 **Prep Workflow:** MetDigAqICP **Status:** Prepped **Prep Date:** 05/27/2010
Team: Metals **Prep Method:** EPA 3010A,EPA CLP-METALS ILM04.0 **Current Step:** Digestion **Due Date:** 04:15
Analyst: WSchumann **Rush/NPDES:** N/A

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1004904-01	Method Blank		50 mL	50 mL			Metals D, Metals T, Metals T	1% HNO3 5% HCL
KQ1004904-02	Lab Control Sample		50 mL	50 mL	0.25 mL 0.25 mL 0.25 mL	12778 14972 18109	Metals D, Metals T, Metals T	1% HNO3 5% HCL
KQ1004904-03	Lab Control Sample		50 mL	50 mL	0.5 mL	15209	Metals D, Metals T, Metals T	1% HNO3 5% HCL
K1004870-001	BH-6	.05	50 mL	50 mL			Metals D	1% HNO3 5% HCL
K1004870-002	BH-7	.05	50 mL	50 mL			Metals D	1% HNO3 5% HCL
K1004870-003	BH-15	.05	50 mL	50 mL			Metals D	1% HNO3 5% HCL
K1004870-004	4aad	.05	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004870-004: KQ1004904-06	Duplicate	.05	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004870-004: KQ1004904-07	Matrix Spike	.05	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL 0.5 mL	15209 17064 17544 17867 18003	Metals T	1% HNO3 5% HCL
K1004870-005	SW-8	.05	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-001	SW-1	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-002	SW-4	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-003	SW-5	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-004	SW-6	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-005	SW-2	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-006	SW-3	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-007	SW-9	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1004934-008	FB-051410	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1005015-001	BRUVPilot1:BA92933	.03	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1005015-001: KQ1004904-04	Duplicate	.03	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1005015-001: KQ1004904-05	Matrix Spike	.03	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL 0.5 mL	15209 17064 17544 17867	Metals T	1% HNO3 5% HCL

					0.5 mL	18003		
K1005067-001	SW-7	.12	50 mL	50 mL			Metals T	1% HNO3 5% HCL
K1005067-002	3bcd-2	.20	50 mL	50 mL			Metals D	1% HNO3 5% HCL
K1005067-003	3ddd	.20	50 mL	50 mL			Metals D	1% HNO3 5% HCL
K1005067-004	EB-051710	.20	50 mL	50 mL			Metals D	1% HNO3 5% HCL

25 Total Samples consisting of 18 Client Samples, 4 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET QCP-CICV-1	Spike	18109	6/1/2011	K-MET SS3	Spike	17064	12/1/2010
K-MET QCP-CICV-2	Spike	12778	7/1/2010	K-MET SS4	Spike	17867	12/1/2010
K-MET QCP-CICV-3	Spike	14972	1/28/2011	K-MET SS5	Spike	18003	11/20/2010
K-MET SS1	Spike	17544	9/11/2010	Silicon 1000 ug/mL Si	Spike	15209	10/26/2010

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET HNO3	15193	Digestion	K-MET 50ml Centrifuge Tube	16850
Digestion	K-MET HCL	16810			

Preparation Hardware / Equipment

Step	Name	Property	Value
Digestion	K-BlockDigester-08	Temperature	95 deg C

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	27-MAY-10 04:15	27-MAY-10 07:15	WSchumann		N	

Comments

Review

Reviewed by: BJS Date: 5/27/10

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mLs Added
K-MET SS1	HNO3	50.0	1000ml	-	0.50
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	200	
	Bc	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
	Mn	100*	1000ml	50	
	Ni	100*	1000ml	50	
	Sb	50	1000ml	50	
V	100*	1000ml	50		
Zn	100*	1000ml	50		
K-MET SS2	HNO3	25.0	500ml	-	
	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
	Cu	2.0	500ml	4	
K-MET SS3	HNO3	25.0	500ml	-	0.50
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	50.0	500ml	100	
K-MET SS4	HNO3	25	500ml	-	0.50
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	0.5
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	

K-MET GFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Ca, Mg, Na, K	no dilution	-	2500	0.25
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Bc	no dilution	-	25	
K-MET QCP-CICV-2	Sb	no dilution	-	500	0.25
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	0.25
	Cd	no dilution	-	250	

* Denotes volume of mixed stock standard.

** Denotes 10,000 ppm individual stock standards.

Standard	mLs of standard	ppm	Logbook #	Exp. Date
S1	0.5	1000	MET-73-0	6/10/10

CVAA Mercury Data Review Form

K-CVAA- 01

Element: Hg

Analysis Lot #: 204295

Cal. STD/CCV Source: HG1-92-S

Service Request Numbers:

K1004934, K1005506, K1005477, K1005605, K1005648, K1005645

	Yes	No	NA
1) Appropriate standardization completed	<u> X </u>	<u> </u>	<u> </u>
2) ICV within 10% of true value	<u> X </u>	<u> </u>	<u> </u>
3) CCVs in control	<u> X </u>	<u> </u>	<u> </u>
4) CCBs and or ICBs below MRL	<u> X </u>	<u> </u>	<u> </u>
5) All reported samples within calibration range	<u> X </u>	<u> </u>	<u> </u>
6) Calculations correct	<u> X </u>	<u> </u>	<u> </u>

Comments:

Data reviewed against service request(s) to ensure no samples were omitted: MS (initials)

Primary Reviewed By: MAF

Date: 6/10/10

Secondary Reviewed By: JOB

Date: 6/11/10

Method: (Circle One) 7470A 7471A <u>245.1</u>	Service Request # : K1004934, K1005506, K1005477, K1005605, K1005648, K1005645
Analysis For: Hg	

DATA

Pos.	SAMPLE NUMBER	Initial Sample (g) or (mL)	Initial Dilution (mL)	Dilution Factor	Measured (µg/L)	Sample Actual (mg/kg)	Sample Actual (µg/L)
1	ICV1	~	~	~	4.98		100%
2	ICB1	~	~	~	-0.01		< 0.2
3	CCV1	~	~	~	5.13		103%
4	CCB1	~	~	~	-0.01		< 0.2
5	CRA1	~	~	~	0.20		100%
6	K1004934-MB	100	100	~	0.00		0.00
7	LCSW K1004934	100	100	~	4.99		100%
8	K1004934-005	100	100	~	0.00		0.00
9	K1004934-006	100	100	~	0.00		0.00
10	K1004934-007	100	100	~	0.00		0.00
11	K1004934-007A	100	100	~	1.03		103%
12	K1004934-007D	100	100	~	0.00		0.00
13	K1004934-007S	100	100	~	1.04		104%
14	K1004934-008	100	100	~	0.00		0.00
15	CCV2	~	~	~	5.13		103%
16	CCB2	~	~	~	-0.01		< 0.2
17	K1005506-001	100	100	~	0.00		0.00
18	K1005506-002	100	100	~	0.01		0.01
19	K1005506-003	100	100	~	0.00		0.00
20	K1005506-004	100	100	~	0.01		0.01
21	K1005506-005	100	100	~	0.01		0.01
22	K1005506-006	100	100	~	0.00		0.00
23	K1005506-007	100	100	~	0.00		0.00
24	K1005477-004	100	100	~	0.07		0.07
25	K1005477-005	100	100	~	0.01		0.01

Comments: Reporting Levels:						
Soil/Tissue Spike Level:						
Post Spike Level:		1.0 ppb				
Method	Spike Level	MRL	LCS Limit	MS Limit	RPD	
7470A Water	1.0 µg/L	0.2 µg/L	83-117%	76-126%	20%	
245.1 Water	1.0 µg/L	0.2 µg/L	85-115%	70-130%	20%	
7470A TCLP	5.0 µg/L	1.0 µg/L	85-115%	75-125%	20%	
7471A Soil LCSS	6.80 mg/kg	0.02 mg/kg	72-128%	60-130%	30%	
7471A Tissue Tort	0.27 mg/kg	0.02 mg/kg	63-130%	60-130%	30%	

Analyst: <i>M. L. ...</i>	Date: <i>6/10/10</i>	Page Number: 1
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Method: (Circle One) 7470A 7471A (245.1)	Service Request # :
Analysis For: Hg	

DATA

Pos.	SAMPLE NUMBER	Initial Sample (g) or (mL)	Initial Dilution (mL)	Dilution Factor	Measured (µg/L)	Sample Actual (mg/kg)	Sample Actual (µg/L)
26	K1005605-001	100	100	~	0.01		0.01
27	CCV3	~	~	~	5.04		101%
28	CCB3	~	~	~	-0.01		< 0.2
29	K1005605-001D	100	100	~	0.00		0.00
30	K1005605-001S	100	100	~	1.02		102%
31	K1005605-003	100	100	~	0.01		0.01
32	K1005648-001	100	100	~	0.00		0.00
33	K1005648-002	100	100	~	0.00		0.00
34	K1005645-002	100	100	~	0.00		0.00
35	K1005645-003	100	100	~	0.00		0.00
36	CCV4	~	~	~	5.07		101%
37	CCB4	~	~	~	0.00		< 0.2
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							

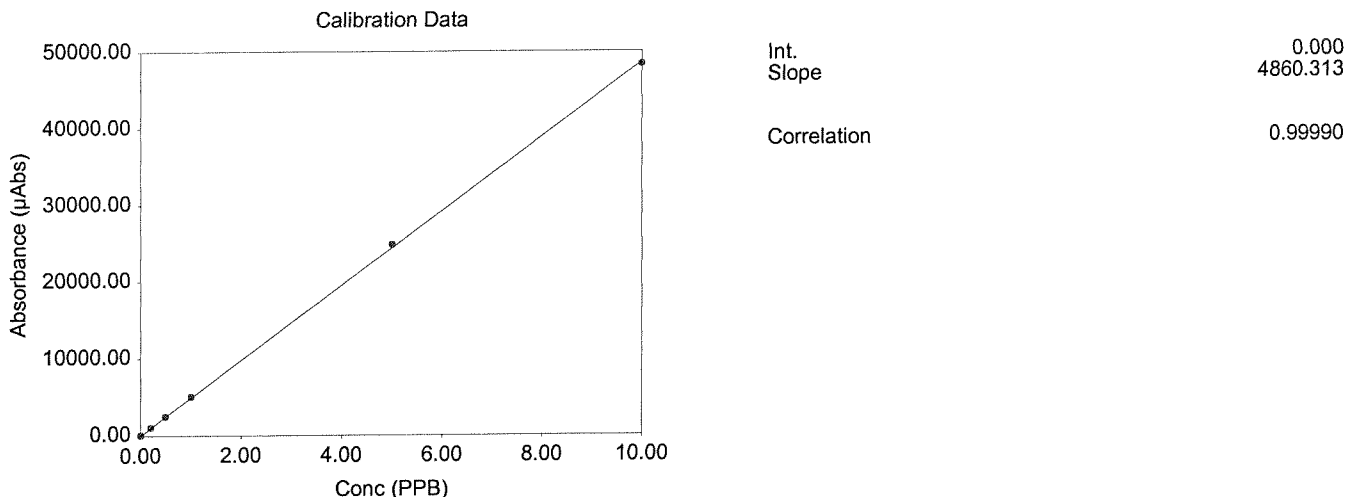
MS & LCS

Comments: Reporting Levels:					
Soil/Tissue Spike Level:					
Post Spike Level:					
Method	Spike Level	MRL	LCS Limit	MS Limit	RPD
7470A Water	1.0 µg/L	0.2 µg/L	83-117%	76-126%	20%
245.1 Water	1.0 µg/L	0.2 µg/L	85-115%	70-130%	20%
7470A TCLP	5.0 µg/L	1.0 µg/L	85-115%	75-125%	20%
7471A Soil LCSS	6.80 mg/kg	0.02 mg/kg	72-128%	60-130%	30%
7471A Tissue Tort	0.27 mg/kg	0.02 mg/kg	63-130%	60-130%	30%

Analyst: <i>Melissa G. F.</i>	Date: <i>6/10/10</i>	Page Number: 2
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Analyst M SMITH
 Date Started Thursday, June 10, 2010, 11:24:55
 Worksheet Hg 061010A
 Comment K-CVAA-01

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Readings				Flags
Calibration Zero	10-Jun-2010, 11:24	0.00	2.07	69.90	68	71	71	69	
Standard #1	10-Jun-2010, 11:26	0.20	0.94	1080.00	1073	1071	1091	1088	
Standard #2	10-Jun-2010, 11:28	0.50	1.54	2510.00	2562	2501	2481	2480	
Standard #3	10-Jun-2010, 11:30	1.00	0.50	5040.00	5035	5052	5067	5008	
Standard #4	10-Jun-2010, 11:32	5.00	0.68	24800.00	24774	24567	24833	24973	
Standard #5	10-Jun-2010, 11:33	10.00	0.66	48300.00	48711	48471	48168	47996	



Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Readings				Flags
ICV1	10-Jun-2010, 11:35	4.98	0.97	24200.00	24344	23882	24140	24401	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Readings				Flags
ICB1	10-Jun-2010, 11:37	-0.01	2.36	-41.80	-41	-41	-43	-42	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Readings				Flags
CCV1	10-Jun-2010, 11:39	5.13	3.57	24900.00	23788	25002	24908	25963	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Readings				Flags
CCB1	10-Jun-2010, 11:40	-0.01	8.78	-31.60	-28	-31	-32	-35	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Readings				Flags
CRA1	10-Jun-2010, 11:42	0.20	0.46	954.00	951	951	956	960	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Readings				Flags
K1004934-MB	10-Jun-2010, 11:44	-0.00	51.50	-4.16	-7	-2	-2	-5	
LCSW K1004934	10-Jun-2010, 11:46	4.99	2.64	24300.00	23485	23985	24617	24917	
K1004934-005	10-Jun-2010, 11:47	0.00	13.60	12.10	12	10	12	14	
K1004934-006	10-Jun-2010, 11:49	0.00	18.80	18.50	14	21	21	18	
K1004934-007	10-Jun-2010, 11:51	0.00	186.00	3.83	-4	13	2	4	
K1004934-007A	10-Jun-2010, 11:53	1.03	3.27	5010.00	4878	4934	4993	5249	
K1004934-007D	10-Jun-2010, 11:55	0.00	98.80	12.50	2	4	16	29	
K1004934-007S	10-Jun-2010, 11:56	1.04	0.86	5050.00	5069	5075	5064	4983	
K1004934-008	10-Jun-2010, 11:58	0.00	43.10	9.73	15	9	10	5	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Readings				Flags
CCV2	10-Jun-2010, 12:00	5.13	3.46	24900.00	24219	24262	25215	26025	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Readings				Flags
CCB2	10-Jun-2010, 12:02	-0.01	10.30	-26.50	-23	-29	-27	-28	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. μ Abs	Readings				Flags
K1005506-001	10-Jun-2010, 12:03	0.00	22.20	16.60	14	14	21	18	
K1005506-002	10-Jun-2010, 12:05	0.01	37.10	25.40	11	28	31	31	
K1005506-003	10-Jun-2010, 12:07	0.00	12.70	23.00	19	24	24	25	
K1005506-004	10-Jun-2010, 12:09	0.01	12.60	43.50	46	46	35	47	
K1005506-005	10-Jun-2010, 12:10	0.01	48.09	57.70	51	57	62	61	

Analyst M SMITH
 Date Started Thursday, June 10, 2010, 12:12:45
 Worksheet Hg 061010A
 Comment K-CVAA-01

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
K1005506-006	10-Jun-2010, 12:12	-0.00	113.00	-3.18	-4	-8	1	-2	
K1005506-007	10-Jun-2010, 12:14	-0.00	44.80	-11.80	-19	-8	-9	-11	
K1005477-004	10-Jun-2010, 12:16	0.07	3.75	322.00	304	330	325	328	
K1005477-005	10-Jun-2010, 12:18	0.01	27.10	29.80	36	38	22	24	
K1005605-001	10-Jun-2010, 12:19	0.01	14.60	35.30	30	35	42	34	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV3	10-Jun-2010, 12:21	5.04	1.42	24500.00	24989	24561	24291	24221	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB3	10-Jun-2010, 12:23	-0.01	4.61	-39.50	-42	-38	-38	-40	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
K1005605-001D	10-Jun-2010, 12:25	0.00	23.40	22.80	28	27	20	17	
K1005605-001S	10-Jun-2010, 12:26	1.02	1.74	4970.00	4903	4903	4991	5085	
K1005605-003	10-Jun-2010, 12:28	0.01	4.54	56.30	57	53	60	55	
K1005648-001	10-Jun-2010, 12:30	-0.00	275.00	-1.00	-5	-1	0	2	
K1005648-002	10-Jun-2010, 12:32	0.00	28.40	7.91	5	11	9	7	
K1005645-002	10-Jun-2010, 12:34	0.00	51.60	11.50	5	16	18	8	
K1005645-003	10-Jun-2010, 12:35	0.00	80.10	8.25	-2	12	11	12	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCV4	10-Jun-2010, 12:55	5.07	0.98	24600.00	24430	24434	24768	24909	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Readings				Flags
CCB4	10-Jun-2010, 12:57	-0.00	69.20	-9.99	-3	-18	-13	-6	

Columbia Analytical Services

EPA METHOD 245.1

Service Request Number(s) : K1004934 K1005506 K1005477 K1005605 K1005648 K1005645
 PREP RUN:113183 (113184 for K1005648 and K1005645)

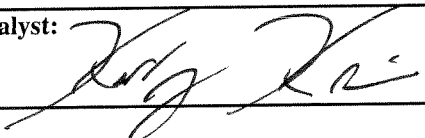
Sample	Initial Volume	Final Volume	Sample	Initial Volume	Final Volume
MB	100	100			
LCSW	100	100			
K1004934-005	100	100			
K1004934-006	100	100			
K1004934-007	100	100			
K1004934-007D	100	100			
K1004934-007S	100	100			
K1004934-008	100	100			
K1005506-001	100	100			
K1005506-002	100	100			
K1005506-003	100	100			
K1005506-004	100	100			
K1005506-005	100	100			
K1005506-006	100	100			
K1005506-007	100	100			
K1005477-004	100	100			
K1005477-005	100	100			
K1005605-001	100	100			
K1005605-001D	100	100			
K1005605-001S	100	100			
K1005605-003	100	100			
K1005648-001	100	100			
K1005648-002	100	100			
K1005645-002	100	100			
K1005645-003	100	100			
Std. 0.2	0.1 *	100			50
Std. 0.5	0.25 *	100			50
Std. 1.0	0.5 *	100			50
Std. 5.0	2.5*	100			50
Std. 10.0	5.0 *	100			50
ICV	0.25 **	100			50

Start Time: 9:30 AM Finish Time: 2:30 PM Waterbath Temp.: 95° C
 Balance#: 1

Lot # of Reagents Used:
 HNO₃: H14024 K₂S₂O₈: H02H06 NaCl : G28620
 H₂SO₄: 49160 KMnO₄: H24584 NH₂OH-HCL: H51598
 HCL: 201009101 SnCl₂: J14618 ERA CLP Soil: D065540

* Source Standard: H141-92-KS 100 ppb Spike = 1.0 ml * Source Standard
 **Source Standard: ICV H141-92-L 1000 ppb LCSW= 0.5 ml ICV **Source Standard

Comments:

Analyst:  Date: 6/8/2010

Service Request # K100 4934
Instrument ID# K-ICP-AES-02

ICP-OES Data Review Form

	Yes	No
1. Standardization completed	<u>✓</u>	<u> </u>
2. ICV within 10 % of true value	<u>✓</u>	<u> </u>
3. ICB below MRL	<u>✓</u>	<u> </u>
4. CRI standard analyzed.	<u>✓</u>	<u> </u>
5. ICS standards within 20% of true value	<u>✓</u>	<u> </u>
6. All preceding CCVs within 10 % of true value	<u>✓</u>	<u> </u>
7. Following CCV within 10 % of true value	<u>✓</u>	<u> </u>
8. Bracketing CCBs below MRL	<u>✓</u>	<u> </u>
9. Method Blank below MRL	<u>✓</u>	<u> </u>
10. MS-MSD or Dup-MS and LCS within CAS control limits	<u>✓</u>	<u> </u>
11. All analytes within instrument linear range	<u>✓</u>	<u> </u>
12. Adequate rinse out time allowed between samples to eliminate memory effect	<u>✓</u>	<u> </u>

Comments:

File Name: 060410AICP02

Star Lims: 203476

Primary Review by 3L Date 6/4/10

Secondary Review by LMMR Date 6/4/10

Method: 2010A Sample Name: Blank Operator:
 Comment:
 Run Time: 06/04/10 08:26 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335
Line	237.312 {141}	206.833 {162}	189.042 {177}	233.527 {144}
Avg	.1733	.0485	.0430	-.00015
Stddev	.0176	.0098	.0235	.00018
%RSD	10.18	20.21	54.74	118.93

#1	.1608	.0554	.0263	-.00002
#2	.1857	.0416	.0596	-.00027

Elem	Be3130	B_2497	Cd2265	Ca2112
Line	313.042 {107}	249.773 {134}	226.502 {148}	211.276 {159}
Avg	-.00315	.3791	.0001	.3673
Stddev	.00031	.0441	.0001	.0059
%RSD	9.8926	11.64	120.6	1.596

#1	-.00293	.4103	.0002	.3632
#2	-.00337	.3479	.0000	.3715

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	-.0912	-.0002	.0003	.0442
Stddev	.0078	.0001	.0000	.0625
%RSD	8.594	36.46	8.184	141.4

#1	-.0968	-.0003	.0003	.0000
#2	-.0857	-.0002	.0003	.0884

Elem	Fe2599	Fe2714	Pb2203	Mg2025
Line	259.940 {129}	271.441 {124}	220.353 {152}	202.582 {166}
Avg	.0013	.0004	.0002	.1053
Stddev	.0002	.0002	.0000	.0235
%RSD	16.07	55.46	6.903	22.33

#1	.0015	.0006	.0002	.1220
#2	.0012	.0003	.0002	.0887

Elem	Mg2795	Mn2576	Mn2939	Mo2020
Line	279.553 {120}	257.610 {131}	293.930 {114}	202.030 {166}
Avg	.00967	.00101	-.0002	.0002
Stddev	.02150	.00010	.0000	.0000
%RSD	222.27	10.405	14.08	24.43

#1	-.00553	.00108	-.0002	.0002
#2	.02487	.00093	-.0002	.0002

Elem	Ni2316	K_7664	Se1960	Ag3280
Line	231.604 {145}	766.490 {44}	196.090 {171}	328.068 {102}
Avg	.0000	.8957	-.0125	-.0553
Stddev	.0002	.1918	.0020	.0625
%RSD	964.6	21.41	15.71	113.1

#1	.0001	1.031	-.0111	-.0111
#2	-.0001	.7601	-.0139	-.0995

Sample Name: Blank Run Time: 06/04/10 08:26

Elem	Na5895	Sn1899	V_3102	Zn2062
Line	589.592 { 57}	189.989 {176}	310.230 {108}	206.200 {163}
Avg	.0052	.0006	.0080	.0010
Stddev	.0004	.0001	.0002	.0002
%RSD	7.463	17.60	3.022	16.74

#1	.0049	.0005	.0082	.0011
#2	.0055	.0007	.0079	.0009

Elem	P_2149	Si2516	Ti3234	Tl1908
Line	214.914 {156}	251.612 {134}	323.452 {104}	190.864 {176}
Avg	.0256	.2065	.00371	.0000
Stddev	.0206	.0020	.00009	.000
%RSD	80.27	.9446	2.3987	27.76

#1	.0402	.2052	.00365	.0000
#2	.0111	.2079	.00378	.0000

Elem	Li6707	Sr4077
Line	670.784 { 50}	407.771 { 82}
Avg	-.01242	.00283
Stddev	.11140	.00040
%RSD	896.59	14.209

#1	.06635	.00254
#2	-.09119	.00311

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	177.94
Stddev	.96
%RSD	.53714

#1	177.27
#2	178.62

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Method: 2010A

Sample Name: STDB

Operator:

Comment:

ICP-41-B

Run Time: 06/04/10 08:29 Type: Std

Mode: IR

Corr.Fact: 1.000000

Elem	Al2373	Ba2335	Be3130	Ca2112
Line	237.312 {141}	233.527 {144}	313.042 {107}	211.276 {159}
Avg	18.02	2.9166	.45395	37.30
Stddev	.09	.0113	.00031	.46
%RSD	.5014	.38882	.06865	1.220

#1	17.96	2.9246	.45417	36.98
#2	18.09	2.9086	.45373	37.62

Elem	Fe2714	Mg2025	Mn2939	K 7664
Line	271.441 {124}	202.582 {166}	293.930 {114}	766.490 { 44}
Avg	.7684	53.65	.6576	173.8
Stddev	.0020	.12	.0010	1.0
%RSD	.2632	.2168	.1490	.5656

#1	.7670	53.57	.6583	174.5
#2	.7699	53.73	.6569	173.1

Elem	Na5895	P 2149	Si2516	Li6707
Line	589.592 { 57}	214.914 {156}	251.612 {134}	670.784 { 50}
Avg	3.984	42.24	87.10	325.16
Stddev	.032	.22	.37	1.73
%RSD	.7899	.5278	.4220	.53283

#1	4.007	42.08	86.84	326.38
#2	3.962	42.40	87.36	323.93

Elem	Sr4077
Line	407.771 { 82}
Avg	7.5980
Stddev	.0096
%RSD	.12641

#1	7.6048
#2	7.5912

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	176.46
Stddev	.82
%RSD	.46644

#1	175.88
#2	177.04

Method: 2010A

Sample Name: STDA

JCPM-36-A

Operator:

Comment:

Run Time: 06/04/10 08:32 Type: Std

Mode: IR

Corr.Fact: 1.000000

Elem	Sb2068	As1890	B_2497	Cd2265
Line	206.833 {162}	189.042 {177}	249.773 {134}	226.502 {148}
Avg	14.72	10.58	41.99	.2946
Stddev	.15	.07	.22	.0018
%RSD	1.048	.6351	.5302	.6077

#1	14.61	10.53	41.83	.2933
#2	14.83	10.63	42.15	.2959

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	28.30	.1167	.1896	16.68
Stddev	.26	.0008	.0012	.03
%RSD	.9263	.6828	.6072	.2047

#1	28.12	.1162	.1887	16.66
#2	28.49	.1173	.1904	16.71

Elem	Fe2599	Pb2203	Mg2795	Mn2576
Line	259.940 {129}	220.353 {152}	279.553 {120}	257.610 {131}
Avg	.4072	.0897	1288.5	3.1254
Stddev	.0100	.0005	4.1	.0034
%RSD	2.450	.5621	.32068	.10904

#1	.4142	.0894	1285.6	3.1278
#2	.4001	.0901	1291.5	3.1230

Elem	Mo2020	Ni2316	Se1960	Ag3280
Line	202.030 {166}	231.604 {145}	196.090 {171}	328.068 {102}
Avg	.1548	.1734	9.288	16.38
Stddev	.0015	.0007	.014	.18
%RSD	.9580	.3822	.1522	1.092

#1	.1537	.1729	9.298	16.26
#2	.1558	.1739	9.278	16.51

Elem	Sn1899	V_3102	Zn2062	Ti3234
Line	189.989 {176}	310.230 {108}	206.200 {163}	323.452 {104}
Avg	.0846	.1448	.1577	.16661
Stddev	.0001	.0008	.0008	.00027
%RSD	.1740	.5684	.4904	.16400

#1	.0845	.1442	.1571	.16680
#2	.0847	.1454	.1582	.16642

Elem	Tl1908
Line	190.864 {176}
Avg	.0802
Stddev	.0004
%RSD	.5394

#1	.0798
#2	.0805

Sample Name: STDA Run Time: 06/04/10 08:32

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	180.02
Stddev	.07
%RSD	.04047

#1 179.97

#2 180.08

Method: 2010A Sample Name: ICV1

Comment:

ICP7-37C Operator:

Run Time: 06/04/10 08:35 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.048	2.538	2.561	5.1829	.12319	.0001
Stddev	.014	.020	.009	.1369	.00018	.0003
%RSD	.2835	.7972	.3444	2.6417	.14875	570.5
#1	5.038	2.552	2.555	5.0861	.12332	.0003
#2	5.058	2.523	2.568	5.2797	.12306	-.0002
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	5.000	2.500	2.500	5.0000	.12500	
Range	5.000%	5.000%	5.000%	5.0000%	5.0000%	
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.265	12.69	.5127	1.255	.6152	2.468
Stddev	.007	.02	.0058	.006	.0011	.015
%RSD	.5192	.1459	1.136	.4774	.1711	.5959
#1	1.261	12.68	.5086	1.251	.6144	2.458
#2	1.270	12.71	.5168	1.259	.6159	2.479
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	12.50	.5000	1.250	.6250	2.500
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.551	12.46	1.2076	2.058	1.250	12.38
Stddev	.006	.07	.0065	.022	.009	.05
%RSD	.2401	.5570	.54138	1.078	.6902	.4343
#1	2.556	12.41	1.2030	2.043	1.244	12.42
#2	2.547	12.51	1.2122	2.074	1.256	12.35
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	12.50	1.2500	2.000	1.250	12.50
Range	5.000%	5.000%	5.0000%	5.000%	5.000%	5.000%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.541	.6250	12.02	.0138	1.251	1.271
Stddev	.020	.0045	.07	.0013	.013	.009
%RSD	.7874	.7233	.5798	9.536	1.038	.6956
#1	2.527	.6281	12.07	.0128	1.242	1.264
#2	2.555	.6218	11.97	.0147	1.260	1.277
Check ?	QC Pass	QC Pass	QC Pass	None	QC Pass	QC Pass
Value	2.500	.6250	12.50		1.250	1.250
Range	5.000%	5.000%	5.000%		5.000%	5.000%

Sample Name: ICV1 Run Time: 06/04/10 08:35

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0049	-.1457	2.0083	2.533	.00073	.00737
Stddev	.0009	.0017	.0060	.027	.00066	.00008
%RSD	18.52	1.188	.30019	1.066	89.626	1.0344
#1	-.0043	-.1470	2.0040	2.552	.00119	.00742
#2	-.0056	-.1445	2.0126	2.514	.00027	.00731
Check ?	None	None	QC Pass	QC Pass	None	None
Value			2.0000	2.500		
Range			5.0000%	5.000%		

Int. Std.	Sc3572
Units	Cts/S
Avg	179.80
Stddev	.02
%RSD	.00924

#1	179.81
#2	179.79

Method: 2010A

Sample Name: ICVB1

ICP743-D

Operator:

Comment:

Run Time: 06/04/10 08:38 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9878	.0246	.0068	.00134	.00001	2.020
Stddev	.0175	.0120	.0000	.00057	.00003	.003
%RSD	1.777	49.00	.0988	42.503	311.15	.1289
#1	1.000	.0331	.0068	.00174	.00003	2.022
#2	.9754	.0161	.0068	.00093	-.00001	2.018
Check ?	None	None	None	None	None	QC Pass
Value						2.000
Range						5.000%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	5.075	.0050	.0012	-.0001	10.12
Stddev	.0000	.020	.0003	.0007	.0002	.04
%RSD	.0229	.3868	5.354	56.00	177.0	.4054
#1	.0016	5.061	.0052	.0016	.0000	10.09
#2	.0016	5.089	.0048	.0007	-.0003	10.15
Check ?	None	QC Pass	None	None	None	QC Pass
Value		5.000				10.00
Range		5.000%				5.000%
Elem	Pb2203	Mg2795	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066	4.9873	9.996	.0067	-.0010	.0048
Stddev	.0067	.0112	.013	.0051	.0010	.0036
%RSD	100.8	.22433	.1291	76.55	96.91	75.19
#1	.0113	4.9952	10.01	.0103	-.0003	.0074
#2	.0019	4.9793	9.987	.0031	-.0017	.0022
Check ?	None	QC Pass	QC Pass	None	None	None
Value		5.0000	10.00			
Range		5.0000%	5.000%			
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156	.0029	.0017	5.058	-.0020	.0007
Stddev	.0095	.0045	.0036	.000	.0009	.0018
%RSD	60.90	157.9	212.8	.0058	42.74	247.9
#1	.0089	-.0003	.0042	5.058	-.0014	.0019
#2	.0223	.0061	-.0009	5.058	-.0026	-.0005
Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 06/04/10 08:38

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.955	5.145	.00054	.0053	2.0214	1.9663
Stddev	.028	.000	.00057	.0135	.0002	.0024
%RSD	.5623	.0087	104.33	255.9	.01106	.11987
#1	4.935	5.145	.00014	.0149	2.0212	1.9680
#2	4.975	5.145	.00095	-.0043	2.0215	1.9647
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	5.000	5.000			2.0000	2.0000
Range	5.000%	5.000%			5.0000%	5.0000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	180.41					
Stddev	.26					
%RSD	.14591					
#1	180.59					
#2	180.22					

Method: 2010A

Sample Name: ICB

Operator:

Comment:

Run Time: 06/04/10 08:41 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	-.0014	.0092	.00015	.00001	.0006
Stddev	.0033	.0066	.0028	.00002	.00004	.0004
%RSD	70.28	472.7	30.28	12.361	348.03	67.63
#1	.0024	.0033	.0072	.00014	.00004	.0009
#2	.0070	-.0061	.0112	.00017	-.00002	.0003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0002	.0008	.0003	.0002	.0054
Stddev	.0001	.0072	.0001	.0002	.0014	.0073
%RSD	18.58	2975.	11.44	59.57	858.1	135.1
#1	.0005	-.0049	.0009	.0004	-.0008	.0105
#2	.0007	.0053	.0008	.0002	.0012	.0002
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-.00007	.00124	.0005	-.0013	-.0083
Stddev	.0015	.00009	.00149	.0006	.0010	.0077
%RSD	183.0	132.65	120.59	105.3	81.57	93.42
#1	.0019	-.00013	.00229	.0001	-.0020	-.0138
#2	-.0002	.00000	.00018	.0010	-.0005	-.0028
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0022	.0017	-.0038	.0022	-.0036	-.0011
Stddev	.0021	.0010	.0018	.0052	.0003	.0006
%RSD	94.32	56.56	47.55	235.6	8.315	56.88
#1	-.0037	.0024	-.0051	.0058	-.0038	-.0015
#2	-.0007	.0010	-.0025	-.0015	-.0034	-.0006
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: ICB Run Time: 06/04/10 08:41

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066	-.0016	-.00037	.0039	.00113	-.00004
Stddev	.0052	.0008	.00182	.0041	.00044	.00012
%RSD	79.52	48.89	493.98	106.0	39.144	322.60

#1	.0029	-.0022	.00092	.0068	.00145	.00005
#2	.0103	-.0011	-.00166	.0010	.00082	-.00012

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	178.63
Stddev	.35
%RSD	.19352

#1	178.88
#2	178.39

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 06/04/10 08:50 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.017	.0146	.0029	2.5088	.04979	-.0150
Stddev	.052	.0036	.0091	.0155	.00022	.0007
%RSD	1.046	24.94	316.9	.61641	.43639	4.669

#1	4.947	.0143	.0011	2.4971	.04948	-.0156
#2	5.023	.0096	-.0042	2.4939	.04996	-.0150
#3	5.025	.0181	-.0015	2.5207	.04991	-.0155
#4	5.074	.0162	.0162	2.5234	.04980	-.0140

Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	5.000%			5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	25.43	.0032	-.0012	-.0008	25.21
Stddev	.0003	.24	.0014	.0010	.0019	.12
%RSD	10.78	.9614	42.55	83.58	235.0	.4612

#1	.0028	25.06	.0038	-.0017	-.0017	25.06
#2	.0029	25.54	.0046	-.0004	.0010	25.26
#3	.0029	25.60	.0031	-.0003	-.0031	25.17
#4	.0023	25.50	.0014	-.0024	.0005	25.33

Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0041	25.09	4.988	-.0001	-.0026	9.960
Stddev	.0076	.09	.018	.0008	.0008	.047
%RSD	185.9	.3465	.3590	717.9	32.87	.4763

#1	-.0092	24.99	4.961	-.0012	-.0032	9.995
#2	.0056	25.06	4.993	.0006	-.0021	9.920
#3	-.0109	25.20	4.994	.0003	-.0016	9.918
#4	-.0018	25.12	5.001	-.0002	-.0033	10.01

Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		5.000%	5.000%			5.000%

Sample Name: CCVB Run Time: 06/04/10 08:50

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0038	.0023	9.748	.0018	.0002	.0005
Stddev	.0153	.0027	.051	.0022	.0012	.0011
%RSD	407.0	120.1	.5283	119.5	575.2	231.6
#1	.0011	.0054	9.807	-.0012	-.0007	.0000
#2	.0100	-.0003	9.740	.0029	.0015	-.0008
#3	-.0004	.0037	9.683	.0037	.0009	.0009
#4	-.0257	.0003	9.762	.0018	-.0009	.0018
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			5.000%			

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.05	2.504	.00157	-.0192	.49280	.50129
Stddev	.06	.014	.00086	.0070	.00176	.00046
%RSD	.5962	.5684	54.925	36.43	.35787	.09078
#1	9.968	2.485	.00206	-.0290	.49508	.50080
#2	10.05	2.503	.00069	-.0134	.49274	.50136
#3	10.10	2.509	.00100	-.0152	.49078	.50189
#4	10.09	2.519	.00252	-.0191	.49260	.50113
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	178.02
Stddev	.43
%RSD	.24237
#1	177.51
#2	177.82
#3	178.33
#4	178.42

Method: 2010A

Sample Name: CCVA

Operator:

Comment:

Run Time: 06/04/10 08:58 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4561	2.450	2.434	.46133	.52499	.5002
Stddev	.0181	.026	.012	.00280	.00092	.0009
%RSD	3.977	1.059	.4990	.60717	.17595	.1844
#1	.4620	2.422	2.438	.45859	.52566	.5003
#2	.4448	2.441	2.443	.46008	.52362	.5000
#3	.4386	2.484	2.440	.46512	.52530	.5014
#4	.4789	2.453	2.416	.46153	.52536	.4991
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		5.000%	5.000%			5.000%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4957	2.477	.4958	.4947	.4986	.4851
Stddev	.0028	.023	.0027	.0015	.0014	.0017
%RSD	.5653	.9249	.5434	.3033	.2798	.3581
#1	.4929	2.446	.4938	.4936	.4978	.4849
#2	.4940	2.484	.4974	.4933	.4998	.4830
#3	.4990	2.476	.4988	.4963	.4998	.4872
#4	.4971	2.501	.4934	.4956	.4971	.4855
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.460	1.9665	.96876	.9881	.4942	4.888
Stddev	.025	.0086	.00912	.0052	.0026	.026
%RSD	.9951	.43719	.94092	.5241	.5325	.5337
#1	2.428	1.9578	.95552	.9832	.4903	4.903
#2	2.455	1.9764	.97064	.9850	.4958	4.870
#3	2.479	1.9612	.97615	.9948	.4957	4.916
#4	2.480	1.9708	.97272	.9893	.4949	4.862
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	5.000%	5.0000%	5.0000%	5.000%	5.000%	

Sample Name: CCVA Run Time: 06/04/10 08:58

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.439	.4974	.4682	2.426	.4950	.4947
Stddev	.024	.0051	.0017	.021	.0026	.0043
%RSD	.9941	1.029	.3677	.8880	.5242	.8741
#1	2.456	.4999	.4685	2.412	.4924	.4892
#2	2.457	.5029	.4657	2.403	.4936	.4955
#3	2.405	.4959	.4696	2.440	.4955	.4997
#4	2.440	.4911	.4689	2.448	.4984	.4945

Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	5.000%	5.000%		5.000%	5.000%	5.000%

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0165	.2570	.48793	4.883	.00090	.00175
Stddev	.0118	.0012	.00214	.027	.00064	.00001
%RSD	71.85	.4553	.43912	.5471	70.989	.77211

#1	-.0008	.2586	.48927	4.876	.00140	.00175
#2	-.0203	.2561	.48521	4.915	.00113	.00176
#3	-.0158	.2570	.48998	4.892	-.00004	.00175
#4	-.0291	.2561	.48728	4.851	.00112	.00173

Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			5.0000%	5.000%		

Int. Std.	Sc3572
Units	Cts/S
Avg	181.70
Stddev	.43
%RSD	.23409

#1	181.45
#2	182.29
#3	181.34
#4	181.73

Method: 2010A

Sample Name: CCB

Operator:

Comment:

Run Time: 06/04/10

09:04 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0109	.0179	.0079	.00047	.00007
Stddev	.0209	.0073	.0046	.00029	.00001
%RSD	191.9	40.91	58.88	61.064	15.793

#1	-.0256	.0230	.0112	.00067	.00007
#2	.0039	.0127	.0046	.00027	.00006

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0005	.0075	-.0005	-.0001
Stddev	.0003	.0004	.0003	.0001	.0004
%RSD	28.33	72.49	4.543	10.44	531.2

#1	.0011	.0008	.0078	-.0005	.0002
#2	.0007	.0002	.0073	-.0006	-.0003

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0011	.0045	.00010	.00070
Stddev	.0012	.0020	.0012	.00005	.00044
%RSD	352.9	178.4	26.16	49.087	63.098

#1	-.0012	.0026	.0053	.00006	.00102
#2	.0005	-.0003	.0036	.00013	.00039

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0013	-.0001	-.0022	.0045	.0003
Stddev	.0006	.0010	.0027	.0137	.0033
%RSD	48.53	1433.	121.6	306.3	990.0

#1	.0017	-.0008	-.0003	-.0052	-.0020
#2	.0008	.0006	-.0042	.0142	.0027

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 06/04/10 09:04

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0029	-.0027	-.0011	-.0001	.0036
Stddev	.0051	.0087	.0024	.0015	.0029
%RSD	175.5	319.2	216.4	1717.	81.03
#1	-.0065	.0034	-.0028	-.0011	.0015
#2	.0007	-.0089	.0006	.0009	.0056
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0043	.00026	-.0106	.00022	.00002
Stddev	.0018	.00007	.0028	.00038	.00007
%RSD	42.12	27.641	26.18	177.51	388.50
#1	-.0030	.00031	-.0086	-.00006	.00007
#2	-.0055	.00021	-.0126	.00049	-.00003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572				
Units	Cts/S				
Avg	178.89				
Stddev	.51				
%RSD	.28785				
#1	179.25				
#2	178.53				

Method: 2010A

Sample Name: CRI

Operator:

Comment:

ICP741-A

Run Time: 06/04/10 09:07 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0498	.0485	.0766	.00506	.00450	.0487
Stddev	.0363	.0040	.0051	.00025	.00004	.0011
%RSD	73.04	8.325	6.594	4.8957	.85186	2.257
#1	.0241	.0456	.0802	.00523	.00447	.0479
#2	.0754	.0513	.0731	.00488	.00453	.0494
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	100.0%	100.0%	100.00%	100.00%	100.0%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.0462	.0050	.0097	.0100	.0220
Stddev	.0006	.0048	.0015	.0006	.0014	.0008
%RSD	11.10	10.41	29.46	5.972	14.12	3.737
#1	.0051	.0428	.0040	.0093	.0090	.0214
#2	.0060	.0496	.0061	.0102	.0110	.0226
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0504	.01781	.00490	.0082	.0191	.3768
Stddev	.0045	.00028	.00009	.0011	.0001	.0128
%RSD	8.905	1.5584	1.9321	12.94	.5748	3.408
#1	.0536	.01761	.00484	.0075	.0192	.3677
#2	.0472	.01800	.00497	.0090	.0190	.3859
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	100.0%	100.00%	100.00%	100.0%	100.0%	100.0%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0797	.0108	.2059	.0347	.0045	.0091
Stddev	.0042	.0000	.0024	.0045	.0002	.0002
%RSD	5.221	.0087	1.158	12.87	3.434	1.748
#1	.0827	.0108	.2075	.0378	.0046	.0092
#2	.0768	.0108	.2042	.0315	.0044	.0089
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sample Name: CRI Run Time: 06/04/10 09:07

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1807	.3858	.00898	.1552	.01035	.00876
Stddev	.0081	.0067	.00106	.0012	.00014	.00008
%RSD	4.503	1.741	11.857	.7973	1.3267	.94698
#1	.1749	.3810	.00823	.1560	.01026	.00871
#2	.1864	.3905	.00973	.1543	.01045	.00882
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.2000	.01000	.01000
Range	100.0%	100.0%	100.00%	100.0%	100.00%	100.00%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	180.53					
Stddev	.02					
%RSD	.01306					
#1	180.55					
#2	180.52					

Method: 2010A

Sample Name: ICSEA

ICP7-43-B

Operator:

Comment:

Run Time: 06/04/10 09:10 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	509.2	.0602	-.0057	-.00021	.00009	-.1592
Stddev	1.1	.0179	.0207	.00005	.00016	.0093
%RSD	.2207	29.72	364.3	26.079	172.91	5.855

#1	508.4	.0475	-.0203	-.00017	-.00002	-.1526
#2	510.0	.0728	.0090	-.00025	.00021	-.1658

Check ?	QC Pass	None	None	None	None	None
Value	500.0					
Range	20.00%					

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093	494.6	-.0006	.0005	.0012	202.3
Stddev	.0005	3.1	.0007	.0001	.0022	5.8
%RSD	5.401	.6242	122.1	23.00	182.8	2.869

#1	.0097	492.4	-.0001	.0004	-.0004	198.1
#2	.0090	496.8	-.0011	.0006	.0028	206.4

Check ?	None	QC Pass	None	None	None	QC Pass
Value		500.0				200.0
Range		20.00%				20.00%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	526.6	.00403	.0053	-.0043	-.0360
Stddev	.0003	.8	.00060	.0024	.0007	.0077
%RSD	29.44	.1526	14.985	45.54	16.07	21.36

#1	.0011	526.0	.00360	.0070	-.0038	-.0415
#2	.0007	527.2	.00446	.0036	-.0048	-.0306

Check ?	None	QC Pass	None	None	None	None
Value		500.0				
Range		20.00%				

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0419	-.0030	.1073	-.0166	.0002	.0059
Stddev	.0004	.0014	.0016	.0150	.0020	.0015
%RSD	.9915	47.03	1.501	90.02	842.0	25.99

#1	.0416	-.0020	.1062	-.0272	.0016	.0048
#2	.0422	-.0041	.1085	-.0060	-.0012	.0070

Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ICSA Run Time: 06/04/10 09:10

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215	-.0124	.01224	-.0515	.01268	.02751
Stddev	.0379	.0011	.00224	.0217	.00054	.00150
%RSD	176.6	8.799	18.289	42.12	4.2665	5.4371

#1	.0482	-.0132	.01066	-.0668	.01230	.02645
#2	-.0053	-.0117	.01382	-.0362	.01307	.02856

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	165.11
Stddev	3.70
%RSD	2.2401

#1	167.72
#2	162.49

Method: 2010A

Sample Name: ICSAB

Operator:

Comment:

Run Time: 06/04/10 09:13 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	506.9	1.078	-.0014	.47506	.53428	-.1546
Stddev	.1	.014	.0027	.00075	.00153	.0007
%RSD	.0117	1.292	196.1	.15724	.28549	.4333
#1	506.8	1.068	.0005	.47454	.53536	-.1551
#2	506.9	1.087	-.0033	.47559	.53320	-.1542
Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9792	488.2	.4970	.4864	.4701	199.3
Stddev	.0017	2.6	.0017	.0010	.0020	1.4
%RSD	.1748	.5279	.3412	.2135	.4195	.6923
#1	.9804	486.3	.4958	.4857	.4687	200.3
#2	.9780	490.0	.4982	.4871	.4715	198.3
Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.006	518.2	.45969	.0044	.9552	-.0612
Stddev	.021	2.7	.00043	.0000	.0014	.0129
%RSD	2.079	.5277	.09369	.8862	.1492	21.05
#1	1.021	516.3	.45938	.0043	.9542	-.0521
#2	.9913	520.1	.45999	.0044	.9562	-.0703
Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.9856	.0470	-.0117	.5057	.9641
Stddev	.0473	.0043	.0026	.0104	.0003	.0043
%RSD	3092.	.4350	5.537	88.92	.0512	.4499
#1	-.0319	.9825	.0451	-.0043	.5056	.9610
#2	.0350	.9886	.0488	-.0191	.5059	.9672
Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

Sample Name: ICSAB Run Time: 06/04/10 09:13

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0130	-.0028	.01354	-.0624	.01245	.02924
Stddev	.0203	.0020	.00279	.0098	.00001	.00064
%RSD	155.6	72.90	20.598	15.66	.09607	2.2052

#1	-.0274	-.0014	.01551	-.0555	.01246	.02969
#2	.0013	-.0042	.01157	-.0693	.01244	.02878

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	164.49
Stddev	.74
%RSD	.44743

#1	163.96
#2	165.01

Method: 2010A Sample Name: ICSAB Operator:
 Comment:
 Run Time: 06/04/10 09:16 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	508.0	1.073	.0004	.47300	.53387	-.1571
Stddev	1.3	.016	.0117	.00297	.00156	.0035
%RSD	.2539	1.477	3160.	.62875	.29189	2.238
#1	507.1	1.062	-.0079	.47090	.53277	-.1547
#2	508.9	1.084	.0087	.47510	.53144	-.1596
Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9779	487.7	.5005	.4879	.4733	198.8
Stddev	.0058	2.5	.0097	.0036	.0029	2.7
%RSD	.5957	.5105	1.931	.7466	.6222	1.345
#1	.9737	486.0	.4936	.4853	.4754	196.9
#2	.9820	489.5	.5073	.4905	.4712	200.7
Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9971	519.9	.45936	.0029	.9472	-.0692
Stddev	.0163	2.1	.00157	.0030	.0077	.0142
%RSD	1.630	.3999	.34106	101.7	.8087	20.58
#1	.9857	521.4	.45825	.0008	.9418	-.0793
#2	1.009	518.4	.46047	.0051	.9526	-.0591
Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105	.9919	.0476	-.0190	.5038	.9562
Stddev	.0261	.0077	.0059	.0001	.0090	.0071
%RSD	248.3	.7771	12.40	.7008	1.786	.7455
#1	.0289	.9865	.0434	-.0191	.4974	.9512
#2	-.0079	.9974	.0517	-.0190	.5102	.9613
Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

*SL
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Sample Name: ICSAB Run Time: 06/04/10 09:16

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067	-.0057	.01487	-.0870	.01304	.02898
Stddev	.0123	.0020	.00329	.0251	.00012	.00003
%RSD	183.7	34.53	22.145	28.84	.91207	.08966
#1	.0154	-.0043	.01254	-.1048	.01312	.02896
#2	-.0020	-.0071	.01720	-.0693	.01295	.02900
Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	164.98
Stddev	.39
%RSD	.23391
#1	165.25
#2	164.71

*3C
6/4/10*

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 06/04/10 09:19 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.108	.0082	.0044	2.5092	.04974	-.0153
Stddev	.004	.0007	.0009	.0027	.00030	.0003
%RSD	.0854	8.442	20.72	.10547	.60010	1.706

#1	5.105	.0087	.0050	2.5111	.04953	-.0155
#2	5.112	.0077	.0037	2.5073	.04995	-.0151

Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	25.58	.0040	-.0018	.0000	25.27
Stddev	.0000	.13	.0004	.0008	.0031	.08
%RSD	1.190	.5225	9.308	44.39	33320.	.3245

#1	.0021	25.48	.0043	-.0024	-.0022	25.21
#2	.0021	25.67	.0038	-.0013	.0022	25.33

Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0096	25.14	4.980	-.0015	-.0042	9.900
Stddev	.0123	.15	.007	.0017	.0010	.068
%RSD	127.7	.6020	.1360	116.3	23.81	.6820

#1	-.0183	25.03	4.976	-.0003	-.0035	9.947
#2	-.0009	25.24	4.985	-.0027	-.0050	9.852

Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0019	9.693	.0016	.0005	.0011
Stddev	.0147	.0012	.134	.0075	.0029	.0004
%RSD	3577.	64.16	1.382	461.3	638.6	34.14

#1	-.0108	-.0010	9.788	-.0037	-.0016	.0014
#2	.0100	-.0027	9.598	.0070	.0025	.0009

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 06/04/10 09:19

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.04	2.508	.00158	-.0075	.49140	.48661
Stddev	.01	.017	.00000	.0028	.00482	.00077
%RSD	.1397	.6925	.03423	37.06	.98159	.15819
#1	10.03	2.496	.00158	-.0094	.49481	.48606
#2	10.05	2.520	.00158	-.0055	.48798	.48715
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	178.34					
Stddev	.03					
%RSD	.01719					
#1	178.36					
#2	178.32					

Method: 2010A

Sample Name: CCVA

Operator:

Comment:

Run Time: 06/04/10 09:22 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4743	2.451	2.431	.46105	.52559	.5009
Stddev	.0086	.054	.004	.00026	.00115	.0039
%RSD	1.812	2.200	.1777	.05665	.21894	.7797
#1	.4682	2.413	2.428	.46086	.52640	.4981
#2	.4804	2.489	2.434	.46123	.52478	.5036
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4942	2.476	.4933	.4947	.4975	.5049
Stddev	.0008	.029	.0006	.0005	.0037	.0206
%RSD	.1558	1.155	.1267	.1023	.7340	4.081
#1	.4948	2.496	.4929	.4951	.5001	.5195
#2	.4937	2.456	.4938	.4944	.4950	.4903
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.454	1.9815	.96444	.9818	.4930	4.898
Stddev	.010	.0027	.00518	.0138	.0017	.045
%RSD	.3980	.13428	.53667	1.401	.3497	.9266
#1	2.447	1.9797	.96078	.9720	.4918	4.866
#2	2.461	1.9834	.96810	.9915	.4942	4.930
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.455	.4977	.4664	2.407	.4932	.4933
Stddev	.020	.0012	.0001	.018	.0017	.0027
%RSD	.8262	.2406	.0174	.7503	.3540	.5532
#1	2.441	.4968	.4663	2.394	.4944	.4913
#2	2.470	.4985	.4664	2.419	.4920	.4952
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 06/04/10 09:22

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0228	.2530	.49053	4.854	.00082	.00178
Stddev	.0001	.0003	.00842	.015	.00082	.00000
%RSD	.6058	.0994	1.7175	.3113	99.659	.15291
#1	-.0229	.2532	.49649	4.843	.00140	.00177
#2	-.0227	.2529	.48458	4.865	.00024	.00178
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.29					
Stddev	.89					
%RSD	.48578					
#1	181.66					
#2	182.92					

Method: 2010A

Sample Name: CCB

Operator:

Comment:

Run Time: 06/04/10 09:25 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0148	.0029	.0046	.00086	.00010
Stddev	.0022	.0180	.0046	.00018	.00009
%RSD	14.73	629.3	101.0	21.172	93.430

#1	-.0132	.0156	.0079	.00098	.00003
#2	-.0163	-.0098	.0013	.00073	.00017

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0006	-.0073	.0012	-.0007
Stddev	.0004	.0001	.0076	.0002	.0008
%RSD	151.8	20.55	103.7	14.86	108.1

#1	.0006	.0006	-.0019	.0014	-.0013
#2	.0000	.0005	-.0127	.0011	-.0002

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0033	-.0014	.00034	.00075
Stddev	.0016	.0011	.0040	.00015	.00022
%RSD	330.6	31.75	296.6	42.992	29.772

#1	-.0017	.0041	.0015	.00024	.00091
#2	.0007	.0026	-.0042	.00044	.00059

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0028	-.0008	-.0355	-.0134	.0015
Stddev	.0019	.0008	.0245	.0011	.0021
%RSD	69.24	99.33	68.99	7.893	141.6

#1	.0042	-.0002	-.0527	-.0127	.0030
#2	.0014	-.0013	-.0182	-.0142	.0000

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 06/04/10 09:25

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	.0030	-.0012	-.0005	.0058
Stddev	.0013	.0015	.0001	.0006	.0031
%RSD	42.01	48.50	5.816	128.5	53.11

#1	-.0040	.0041	-.0012	.0000	.0080
#2	-.0021	.0020	-.0013	-.0009	.0037

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.00107	.0058	.00086	.00000
Stddev	.0004	.00085	.0068	.00037	.0000
%RSD	51.62	79.721	117.1	43.155	938.31

#1	-.0005	-.00167	.0107	.00113	.00001
#2	-.0010	-.00047	.0010	.00060	-.00001

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	178.97
Stddev	.80
%RSD	.44837

#1	178.41
#2	179.54

Method: 2010A Sample Name: K1004870-MB Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:31 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	-.0066	-.0010	.00033	.00000
#1	-.0179	-.0080	.0000	.00018	-.00004
#2	.0131	-.0052	-.0020	.00048	.00004
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0004	.0024	.0008	-.0003
#1	-.0008	.0009	-.0019	.0008	-.0001
#2	.0000	-.0001	.0068	.0008	-.0006
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0015	.0029	.00045	.00001
#1	-.0003	.0020	.0079	.00027	.00001
#2	.0013	.0011	-.0020	.00063	.00001
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	-.0012	-.0224	.0030	-.0007
#1	-.0020	-.0006	-.0201	.0022	.0007
#2	-.0013	-.0017	-.0246	.0037	-.0020
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0098	-.0033	-.0037	-.0016	.2567
#1	-.0100	-.0003	-.0036	-.0013	.2662
#2	-.0097	-.0062	-.0039	-.0020	.2471
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0028	.00015	.0076	.00074	-.00008
#1	-.0018	.00217	.0068	.00118	-.00011
#2	-.0038	-.00186	.0084	.00029	-.00005
Int. Std.	Sc3572				
Units	Cts/S				
Avg	186.21				
#1	179.49				
#2	192.94				

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1004870 (203476) (060410A)
 Run Time: 06/04/10 09:34 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.024	2.640	2.550	5.0842	.12305	1.028
#1	5.019	2.647	2.545	5.0974	.12307	1.027
#2	5.030	2.633	2.555	5.0709	.12303	1.028
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.256	12.61	.5144	1.254	.6230	2.465
#1	1.254	12.59	.5148	1.253	.6265	2.465
#2	1.257	12.63	.5140	1.255	.6194	2.466
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.495	12.51	1.2289	1.003	1.247	12.45
#1	2.485	12.55	1.2239	.9998	1.247	12.46
#2	2.504	12.48	1.2340	1.007	1.246	12.45
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.531	.6264	12.35	-.0024	1.242	1.262
#1	2.509	.6220	12.35	-.0030	1.240	1.258
#2	2.552	.6308	12.35	-.0017	1.244	1.265
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2048	.0111	.00089	2.468	.00077	.00747
#1	.2022	.0105	.00014	2.443	.00064	.00748
#2	.2075	.0117	.00163	2.494	.00091	.00747
Int. Std.	Sc3572					
Units	Cts/S					
Avg	179.24					
#1	179.13					
#2	179.36					

Method: 2010A Sample Name: K1004870-004 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:37 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094	-.0004	-.0058	.05590	.00001	.0040
#1	.0163	-.0004	-.0038	.05597	.00002	.0039
#2	.0024	-.0004	-.0077	.05583	.00000	.0040
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	22.07	.0001	.0004	.0004	.1016
#1	.0007	21.99	.0003	.0003	.0015	.1023
#2	.0004	22.15	-.0001	.0004	-.0007	.1008
Elem	Pb2203	Mg2025	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	9.208	8.8631	.02137	.0053	-.0007
#1	.0055	9.223	8.8543	.02127	.0058	-.0001
#2	.0000	9.194	8.8718	.02148	.0049	-.0014
Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.322	.0030	.0024	11.31	-.0057	-.0012
#1	3.331	.0112	.0040	11.31	-.0062	-.0016
#2	3.313	-.0052	.0007	11.31	-.0051	-.0008
Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.2751	38.14	.00174	.0076	.01038
#1	.0025	.2715	38.05	.00186	.0095	.01024
#2	.0018	.2787	38.22	.00161	.0057	.01051
Elem	Sr4077					
Units	ppm					
Avg	.09767					
#1	.09747					
#2	.09788					
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.33					
#1	181.78					
#2	180.89					

Method: 2010A Sample Name: K1004870-004D Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:40 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0054	-.0079	-.0054	.05543	-.00002
#1	-.0038	-.0145	-.0051	.05482	-.00003
#2	-.0069	-.0013	-.0058	.05605	-.00002
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0026	.0008	22.02	-.0016	.0011
#1	.0027	.0006	21.93	-.0013	.0013
#2	.0026	.0010	22.11	-.0018	.0008
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mg2795
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	.1002	.0101	9.174	8.770
#1	-.0027	.1011	.0112	9.145	8.7440
#2	-.0012	.0993	.0090	9.202	8.7975
<i>Don't report SC 6/4/10</i>					
Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02123	.0035	-.0019	3.314	.0007
#1	.02118	.0028	-.0017	3.341	.0037
#2	.02129	.0043	-.0021	3.287	-.0022
Elem	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0020	11.34	-.0110	-.0020	.0006
#1	.0007	11.42	-.0124	-.0013	.0005
#2	.0034	11.26	-.0097	-.0026	.0007
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm
Avg	.2730	37.89	.00183	-.0001	.01115
#1	.2785	37.74	.00073	.0038	.01176
#2	.2675	38.04	.00292	-.0039	.01054
Elem	Sr4077				
Units	ppm				
Avg	.09708				
#1	.09713				
#2	.09704				
Int. Std.	Sc3572				
Units	Cts/S				
Avg	180.65				
#1	180.40				
#2	180.90				

Method: 2010A Sample Name: K1004870-004L Operator: JC
 Comment: 1/5 (203476) (060410A)
 Run Time: 06/04/10 09:43 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0210	.0042	-.0035	.01162	.00002
#1	-.0101	.0004	.0028	.01174	.00000
#2	-.0318	.0080	-.0097	.01150	.00004
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0003	4.262	.0018	.0003
#1	-.0009	.0003	4.264	.0018	.0001
#2	.0008	.0003	4.260	.0018	.0005
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0231	-.0021	1.8137	.00429
#1	.0002	.0238	.0005	1.8163	.00439
#2	.0002	.0225	-.0047	1.8111	.00419
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	-.0015	.6143	.0052	-.0027
#1	-.0009	-.0013	.6222	.0022	.0003
#2	-.0004	-.0016	.6065	.0082	-.0057
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.132	-.0047	-.0031	.0005	.0670
#1	2.136	-.0073	-.0019	.0005	.0516
#2	2.127	-.0021	-.0043	.0004	.0824
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	6.990	.00069	.0156	.00221	.01969
#1	6.980	.00190	.0299	.00211	.01971
#2	7.000	-.00052	.0012	.00231	.01967
Int. Std.	Sc3572				
Units	Cts/S				
Avg	181.16				
#1	180.53				
#2	181.78				

Method: 2010A Sample Name: K1004870-004S Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:46 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.977	.4789	.9998	2.1327	.04885	1.027

#1	1.961	.4746	.9892	2.1419	.04896	1.026
#2	1.994	.4832	1.010	2.1236	.04873	1.028

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0517	32.06	.2058	.5022	.2394	1.090

#1	.0518	32.03	.2054	.5019	.2384	1.091
#2	.0517	32.08	.2062	.5024	.2405	1.089

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5026	19.17	.48996	1.016	.4967	13.08

#1	.4997	19.11	.48981	1.010	.4946	13.07
#2	.5056	19.22	.49012	1.022	.4989	13.10

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9710	.0488	37.77	.0060	.5014	.5151

#1	.9576	.0496	37.77	.0016	.4962	.5151
#2	.9845	.0480	37.76	.0103	.5067	.5151

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2936	48.95	.00202	.9616	.01096	.10060

#1	.2909	48.80	.00015	.9630	.01050	.10073
#2	.2963	49.11	.00389	.9601	.01143	.10048

Int. Std.	Sc3572
Units	Cts/S
Avg	177.86

#1	177.59
#2	178.13

Method: 2010A Sample Name: K1004870-001 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:49 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0020	-.0020	.0068	.15086	.00007
#1	-.0012	-.0019	.0025	.15089	.00011
#2	-.0027	-.0020	.0111	.15084	.00003
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.0014	29.28	.0002	.0000
#1	.0023	.0009	29.22	-.0003	-.0003
#2	.0013	.0018	29.33	.0008	.0002
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	6.570	-.0048	12.72	.73986
#1	.0008	6.530	-.0124	12.74	.74131
#2	-.0015	6.609	.0027	12.69	.73840
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0151	.0001	6.408	.0071	-.0055
#1	.0174	.0013	6.369	.0190	-.0060
#2	.0127	-.0010	6.447	-.0048	-.0050
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	17.07	.0028	-.0010	.0055	.2369
#1	17.03	.0017	-.0012	.0050	.2351
#2	17.11	.0040	-.0008	.0060	.2388
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	27.61	.00003	-.0216	.01656	.14705
#1	27.56	.00002	-.0043	.01656	.14688
#2	27.66	.00003	-.0389	.01657	.14722
Int. Std.	Sc3572				
Units	Cts/S				
Avg	180.03				
#1	180.06				
#2	180.01				

Method: 2010A Sample Name: K1004870-002 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:52 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5290	-.0035	-.0158	.05526	.00012	.0053

#1	.5111	-.0086	-.0194	.05506	.00007	.0050
#2	.5469	.0017	-.0121	.05546	.00017	.0057

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	29.63	.0027	.0034	.0007	1.727

#1	.0008	29.57	.0018	.0036	.0007	1.725
#2	.0007	29.69	.0037	.0033	.0007	1.729

Elem	Pb2203	Mg2025	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	9.437	8.9636	.15014	.0162	.0093

#1	.0092	9.390	8.9494	.15000	.0158	.0082
#2	-.0059	9.484	8.9778	.15029	.0165	.0105

Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.878	.0061	.0003	16.99	.0005	.0025

#1	3.853	.0113	.0003	16.94	.0024	.0005
#2	3.903	.0009	.0003	17.03	-.0013	.0044

Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100	.2703	34.89	.01118	-.0084	.01453

#1	.0093	.2690	34.81	.01189	-.0074	.01429
#2	.0108	.2716	34.97	.01048	-.0093	.01477

Elem	Sr4077
Units	ppm
Avg	.13667

#1	.13729
#2	.13606

Int. Std.	Sc3572
Units	Cts/S
Avg	180.36

#1	180.14
#2	180.58

Method:	2010A	Sample Name:	K1004870-003	Operator:	JC
Comment:		(203476)	(060410A)		
Run Time:	06/04/10 09:55	Type:	Unk	Mode:	CONC
				Corr.Fact:	1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0139	.0062	.0312	.17851	-.00003
#1	.0008	.0034	.0355	.17724	-.00002
#2	-.0287	.0090	.0270	.17977	-.00004
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0028	.0015	73.77	.0013	-.0005
#1	.0028	.0009	73.53	.0016	-.0012
#2	.0028	.0020	74.00	.0010	.0001
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0299	-.0003	29.11	.02865
#1	-.0008	.0307	-.0058	28.96	.02850
#2	-.0022	.0292	.0051	29.25	.02880
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0562	-.0013	6.037	.0097	-.0025
#1	.0554	-.0009	6.039	.0186	-.0003
#2	.0571	-.0017	6.035	.0007	-.0047
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	49.56	-.0048	-.0005	.0001	.2342
#1	49.80	-.0083	-.0011	.0002	.2392
#2	49.32	-.0014	.0002	.0000	.2292
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	23.77	-.00038	-.0032	.01207	.38975
#1	23.68	.00015	-.0062	.01208	.39030
#2	23.85	-.00090	-.0003	.01206	.38920
Int. Std.	Sc3572				
Units	Cts/S				
Avg	177.98				
#1	177.63				
#2	178.34				

Method: 2010A Sample Name: K1004870-005 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 09:58 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2004	-.0047	-.0010	.16874	.00002	.0149
#1	.2074	-.0051	-.0013	.16917	.00007	.0147
#2	.1935	-.0042	-.0006	.16832	-.00002	.0152
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	108.1	.0007	-.0003	-.0010	.2592
#1	.0017	107.8	.0007	-.0012	-.0017	.2603
#2	.0011	108.4	.0007	.0006	-.0003	.2581
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	36.60	.02848	.0017	-.0012	9.059
#1	-.0062	36.55	.02857	.0013	-.0019	9.109
#2	.0003	36.65	.02838	.0020	-.0006	9.009
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038	.0005	84.92	.0025	.0014	.0015
#1	-.0037	.0007	85.71	.0000	.0031	.0008
#2	.0112	.0003	84.12	.0051	-.0002	.0021
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2733	19.82	.01071	-.0025	.01226	.51550
#1	.2771	19.86	.01077	.0063	.01228	.51731
#2	.2694	19.79	.01065	-.0112	.01224	.51369
Int. Std.	Sc3572					
Units	Cts/S					
Avg	177.00					
#1	176.02					
#2	177.97					

Method: 2010A Sample Name: CCVB Operator:
 Comment:
 Run Time: 06/04/10 10:01 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.064	.0054	.0103	2.4965	.04958	-.0155
Stddev	.005	.0113	.0009	.0231	.00020	.0009
%RSD	.1092	207.8	8.813	.92681	.39925	5.785
#1	5.060	.0134	.0110	2.4801	.04972	-.0148
#2	5.068	-.0026	.0097	2.5128	.04944	-.0161
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	25.88	.0021	-.0022	-.0028	25.31
Stddev	.0005	.26	.0027	.0009	.0023	.17
%RSD	21.37	1.009	124.5	39.21	83.30	.6519
#1	.0020	25.70	.0003	-.0028	-.0012	25.19
#2	.0027	26.07	.0040	-.0016	-.0045	25.42
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%
Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0034	25.35	4.958	.0011	-.0042	9.949
Stddev	.0101	.05	.013	.0005	.0003	.117
%RSD	298.2	.1858	.2732	45.87	6.355	1.171
#1	-.0105	25.32	4.948	.0007	-.0044	9.867
#2	.0037	25.38	4.967	.0014	-.0040	10.03
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0020	9.755	.0088	-.0018	.0012
Stddev	.0042	.0038	.046	.0010	.0002	.0002
%RSD	1025.	188.8	.4701	10.93	10.74	14.70
#1	-.0034	-.0007	9.723	.0081	-.0017	.0011
#2	.0026	.0047	9.788	.0094	-.0020	.0013
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 06/04/10 10:04 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4448	2.458	2.453	.46133	.52543	.5002
Stddev	.0043	.019	.033	.00217	.00015	.0021
%RSD	.9663	.7730	1.342	.47082	.02811	.4221
#1	.4479	2.445	2.430	.45980	.52533	.4987
#2	.4418	2.472	2.477	.46287	.52554	.5017
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4958	2.489	.4960	.4945	.4955	.5053
Stddev	.0032	.039	.0032	.0027	.0053	.0188
%RSD	.6441	1.576	.6439	.5378	1.065	3.725
#1	.4936	2.461	.4938	.4926	.4918	.5186
#2	.4981	2.517	.4983	.4964	.4993	.4920
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.442	1.9863	.96368	.9806	.4945	4.898
Stddev	.045	.0075	.00517	.0043	.0018	.006
%RSD	1.840	.37606	.53623	.4429	.3623	.1210
#1	2.410	1.9810	.96734	.9775	.4933	4.902
#2	2.474	1.9916	.96003	.9836	.4958	4.893
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.463	.4928	.4671	2.416	.4909	.4912
Stddev	.007	.0067	.0059	.009	.0001	.0012
%RSD	.2712	1.351	1.263	.3601	.0114	.2420
#1	2.458	.4881	.4713	2.410	.4908	.4921
#2	2.468	.4975	.4630	2.422	.4909	.4904
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 06/04/10 10:04

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0253	.2629	.49103	4.872	.00062	.00191
Stddev	.0032	.0045	.00080	.022	.00001	.00001
%RSD	12.65	1.696	.16239	.4614	1.9514	.30360

#1	-.0275	.2661	.49159	4.856	.00062	.00191
#2	-.0230	.2598	.49046	4.888	.00061	.00191

Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	182.41
Stddev	.19
%RSD	.10302

#1	182.28
#2	182.54

Method: 2010A

Sample Name: CCB

Operator:

Comment:

Run Time: 06/04/10

10:07 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.0038	-.0010	.00059	.00011
Stddev	.0121	.0047	.0042	.00007	.00004
%RSD	384.3	124.0	420.9	12.034	33.577

#1	.0054	.0071	-.0040	.00064	.00014
#2	-.0117	.0005	.0020	.00054	.00008

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0006	-.0044	.0008	-.0003
Stddev	.001	.0001	.0007	.0007	.0009
%RSD	1683.	18.72	15.53	78.38	321.0

#1	.0005	.0007	-.0049	.0004	-.0009
#2	-.0006	.0005	-.0039	.0013	.0004

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0037	-.0068	.00268	.00082
Stddev	.0018	.0019	.0073	.00032	.00006
%RSD	712.6	50.26	107.6	12.052	7.4675

#1	-.0010	.0051	-.0120	.00245	.00087
#2	.0015	.0024	-.0016	.00290	.00078

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0023	-.0003	-.0325	-.0067	.0017
Stddev	.0023	.0003	.0133	.0063	.0038
%RSD	97.54	84.08	40.99	94.33	225.9

#1	.0040	-.0001	-.0231	-.0022	-.0010
#2	.0007	-.0005	-.0419	-.0112	.0044

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 06/04/10 10:07

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0025	.0099	-.0022	-.0004	.0069
Stddev	.0010	.0008	.0026	.0002	.0036
%RSD	38.38	8.273	117.8	45.36	51.78
#1	-.0018	.0105	-.0004	-.0005	.0094
#2	-.0032	.0093	-.0040	-.0003	.0044
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0025	.00023	.0116	.00154	.00009
Stddev	.0027	.00086	.0150	.00014	.00005
%RSD	109.5	376.19	129.2	8.9466	56.574
#1	-.0006	-.00038	.0223	.00164	.00012
#2	-.0045	.00084	.0010	.00144	.00005
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572				
Units	Cts/S				
Avg	179.10				
Stddev	.67				
%RSD	.37426				
#1	178.63				
#2	179.57				

Method:	2010A	Sample Name:	K1004934-001	Operator:	JC
Comment:		(203476)	(060410A)		
Run Time:	06/04/10 10:10	Type:	Unk	Mode:	CONC
				Corr.Fact:	1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0092	.0033	-.0036	.11692	-.00002
#1	-.0116	-.0052	.0023	.11656	-.00001
#2	-.0069	.0118	-.0096	.11729	-.00002
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0065	.0010	70.61	.0018	.0001
#1	.0065	.0012	70.19	.0012	.0005
#2	.0065	.0009	71.04	.0025	-.0003
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0101	-.0061	25.16	-.00073
#1	.0020	.0101	-.0067	25.05	-.00084
#2	-.0017	.0101	-.0054	25.28	-.00063
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0020	-.0012	4.464	-.0008	.0042
#1	.0005	-.0015	4.454	.0007	.0050
#2	.0035	-.0010	4.475	-.0022	.0034
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	25.18	-.0019	.0034	-.0003	.3213
#1	25.12	-.0037	.0023	-.0012	.3139
#2	25.23	.0000	.0044	.0006	.3287
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	23.57	.00094	-.0084	.00875	.32958
#1	23.54	.00197	-.0142	.00852	.32969
#2	23.61	-.00009	-.0026	.00897	.32948
Int. Std.	Sc3572				
Units	Cts/S				
Avg	178.29				
#1	178.26				
#2	178.32				

Method: 2010A Sample Name: K1004934-002 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 10:13 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0545	.0085	-.0121	.02171	.00007	.0029
#1	.0568	.0146	-.0161	.02135	.00012	.0031
#2	.0522	.0024	-.0082	.02208	.00003	.0027
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	64.95	.0009	.0006	-.0011	.1353
#1	.0010	64.74	.0010	.0003	.0008	.1350
#2	.0014	65.16	.0008	.0010	-.0030	.1356
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	18.49	.00495	.0024	-.0011	3.345
#1	.0010	18.39	.00491	.0029	-.0013	3.330
#2	-.0024	18.59	.00499	.0019	-.0009	3.360
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	-.0027	17.22	-.0066	.0030	.0002
#1	-.0127	-.0040	17.16	-.0066	.0025	.0003
#2	.0067	-.0014	17.27	-.0065	.0035	.0000
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2890	24.08	.00588	-.0128	.00558	.31648
#1	.2881	24.00	.00547	-.0263	.00611	.31519
#2	.2899	24.16	.00630	.0007	.00505	.31777
Int. Std.	Sc3572					
Units	Cts/S					
Avg	178.79					
#1	179.00					
#2	178.58					

Method: 2010A Sample Name: K1004934-003 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 10:16 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1834	-.0019	.0000	.15511	.00002	.0176

#1	.1749	.0014	.0013	.15403	.00000	.0178
#2	.1919	-.0052	-.0013	.15619	.00004	.0174

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	104.3	.0015	.0004	-.0057	.2872

#1	.0010	103.7	.0005	.0005	-.0063	.2848
#2	.0016	104.9	.0025	.0004	-.0051	.2895

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	36.33	.00908	.0004	-.0004	10.07

#1	.0033	36.17	.00911	.0007	-.0007	10.08
#2	.0077	36.49	.00905	.0001	-.0002	10.06

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0082	.0010	96.12	-.0069	.0041	.0011

#1	-.0112	-.0003	96.02	-.0046	.0033	.0009
#2	-.0052	.0023	96.23	-.0091	.0048	.0013

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2641	19.44	.01332	.0082	.01274	.52942

#1	.2756	19.35	.01193	.0043	.01248	.52885
#2	.2526	19.53	.01470	.0121	.01300	.53000

Int. Std.	Sc3572
Units	Cts/S
Avg	177.71

#1	177.97
#2	177.45

Method: 2010A Sample Name: K1004934-004 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 10:19 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2276	-.0037	.0028	.01280	.00012	.0022
#1	.2090	.0024	.0028	.01260	.00011	.0025
#2	.2463	-.0099	.0028	.01299	.00013	.0019
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	4.836	.0011	.0003	.0017	.2652
#1	.0005	4.819	.0009	.0003	.0020	.2654
#2	.0008	4.854	.0014	.0003	.0013	.2650
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	1.0603	.01719	.0009	-.0005	.8506
#1	.0041	1.0566	.01708	.0011	-.0001	.8738
#2	-.0046	1.0640	.01730	.0008	-.0008	.8273
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030	-.0039	4.510	-.0041	.0001	.0003
#1	.0052	-.0030	4.530	.0008	.0005	.0001
#2	.0008	-.0047	4.489	-.0090	-.0002	.0006
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3142	12.13	.01053	-.0027	.00336	.04437
#1	.3123	12.06	.00907	.0031	.00374	.04433
#2	.3162	12.20	.01199	-.0085	.00299	.04441
Int. Std.	Sc3572					
Units	Cts/S					
Avg	179.28					
#1	178.97					
#2	179.59					

Method: 2010A Sample Name: K1004934-005 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 10:22 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032	-.0037	-.0035	.11867	.00001	.0066
#1	-.0256	-.0014	-.0048	.11809	-.00003	.0064
#2	.0319	-.0061	-.0022	.11926	.00005	.0069
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	74.03	.0023	-.0008	-.0039	.0253
#1	.0008	73.64	.0010	.0001	-.0043	.0253
#2	.0006	74.42	.0036	-.0018	-.0035	.0253
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0063	26.53	-.00033	.0019	-.0024	4.880
#1	-.0141	26.47	-.00030	.0010	-.0027	4.876
#2	.0016	26.59	-.00037	.0027	-.0021	4.884
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	-.0030	27.49	-.0041	.0020	.0019
#1	.0067	-.0013	27.53	-.0003	-.0009	.0021
#2	-.0022	-.0047	27.45	-.0078	.0050	.0017
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3542	24.23	.00301	-.0113	.00872	.34538
#1	.3568	24.17	.00264	-.0259	.00823	.34550
#2	.3516	24.30	.00338	.0034	.00920	.34526
Int. Std.	Sc3572					
Units	Cts/S					
Avg	177.64					
#1	177.56					
#2	177.72					

Method: 2010A Sample Name: K1004934-006 Operator: JC
Comment: (203476) (060410A)
Run Time: 06/04/10 10:25 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031	.0010	-.0063	.21056	-.00003	.0189
#1	.0132	.0042	.0009	.20794	-.00002	.0193
#2	-.0069	-.0023	-.0135	.21317	-.00005	.0185
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	118.0	.0013	-.0004	-.0021	.0188
#1	.0006	116.9	.0014	.0000	.0007	.0188
#2	.0005	119.1	.0012	-.0008	-.0048	.0189
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	39.60	-.00086	.0018	-.0012	11.31
#1	.0016	39.31	-.00088	.0009	-.0011	11.27
#2	.0013	39.89	-.00084	.0027	-.0013	11.35
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067	.0045	110.7	-.0076	.0042	.0001
#1	.0112	.0061	110.1	-.0063	.0043	.0010
#2	.0022	.0030	111.3	-.0089	.0041	-.0008
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3423	23.83	.00156	-.0112	.01415	.58859
#1	.3352	23.75	.00078	-.0053	.01394	.58758
#2	.3495	23.92	.00235	-.0171	.01436	.58959
Int. Std.	Sc3572					
Units	Cts/S					
Avg	176.53					
#1	177.17					
#2	175.89					

Method: 2010A Sample Name: K1004934-007 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 10:28 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0038	.0063	.11385	.00005	.0064
#1	-.0101	.0024	.0056	.11344	.00005	.0065
#2	.0116	.0052	.0069	.11426	.00005	.0062
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	71.18	.0005	-.0007	.0003	.0228
#1	.0008	70.71	.0001	-.0005	.0043	.0231
#2	.0001	71.65	.0010	-.0008	-.0036	.0226
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	25.63	-.00045	.0028	-.0018	4.715
#1	-.0024	25.59	-.00051	.0022	-.0024	4.716
#2	.0050	25.68	-.00040	.0034	-.0012	4.713
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067	.0002	26.63	-.0041	.0059	.0006
#1	-.0008	.0010	26.64	-.0060	.0045	.0007
#2	.0142	-.0007	26.61	-.0023	.0074	.0006
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3782	23.47	.00059	-.0045	.00877	.33236
#1	.3672	23.43	-.00121	-.0084	.00832	.33225
#2	.3893	23.50	.00238	-.0006	.00923	.33246
Int. Std.	Sc3572					
Units	Cts/S					
Avg	177.87					
#1	177.75					
#2	178.00					

Method: 2010A Sample Name: K1004934-008 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 10:31 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0202	-.0005	.0079	.00026	.00004
#1	.0085	.0004	.0007	.00026	.00007
#2	-.0489	-.0014	.0151	.00026	.00001
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0004	-.0017	.0011	.0001
#1	.0004	.0004	.0039	.0014	.0000
#2	.0003	.0004	-.0073	.0009	.0002
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0001	.0086	.00030	.00012
#1	.0003	.0000	.0057	.00054	.00002
#2	.0012	.0002	.0115	.00007	.00023
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0002	-.0096	.0127	.0010
#1	-.0005	-.0004	-.0029	.0216	.0013
#2	.0011	.0000	-.0163	.0037	.0007
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	-.0028	-.0030	-.0005	.2959
#1	.0006	-.0036	-.0039	-.0004	.2906
#2	-.0044	-.0020	-.0020	-.0005	.3012
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.00109	-.0018	.00062	-.00006
#1	.0063	.00248	.0010	.00028	-.00001
#2	.0047	-.00030	-.0047	.00096	-.00011
Int. Std.	Sc3572				
Units	Cts/S				
Avg	180.57				
#1	179.99				
#2	181.15				

Method: 2010A Sample Name: K1005067-001 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 10:34 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1618	-.0037	-.0119	.10483	-.00001	.0111
#1	.1595	.0099	-.0119	.10507	-.00002	.0108
#2	.1641	-.0173	-.0119	.10458	.00001	.0114
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	48.44	-.0019	.0001	-.0008	.2000
#1	.0005	48.33	-.0015	-.0001	.0003	.1996
#2	.0000	48.55	-.0023	.0002	-.0020	.2003
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	13.47	.01651	.0027	-.0012	3.140
#1	-.0015	13.48	.01643	.0020	-.0008	3.180
#2	.0006	13.47	.01659	.0033	-.0016	3.101
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037	-.0003	16.96	-.0018	.0028	.0009
#1	-.0022	-.0054	17.18	-.0050	.0014	.0009
#2	.0097	.0047	16.73	.0013	.0041	.0008
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4359	22.85	.00960	-.0143	.00495	.31816
#1	.4143	22.81	.01048	-.0153	.00527	.32083
#2	.4575	22.89	.00872	-.0132	.00462	.31549
Int. Std.	Sc3572					
Units	Cts/S					
Avg	178.16					
#1	177.47					
#2	178.84					

Method: 2010A Sample Name: K1005067-002 Operator: JC
 Comment: (203476) (060410A)
 Run Time: 06/04/10 10:37 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0593	-.0014	.0013	.05480	.00002	.0047
#1	.0492	-.0090	.0026	.05572	-.00001	.0044
#2	.0694	.0061	.0000	.05388	.00005	.0049
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	80.58	.0014	-.0003	-.0043	.7226
#1	.0016	80.63	.0023	-.0013	-.0026	.7259
#2	.0007	80.52	.0004	.0006	-.0060	.7193
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	35.59	.03836	-.0003	.0010	7.581
#1	-.0036	35.52	.03869	-.0014	.0015	7.594
#2	.0023	35.66	.03804	.0007	.0006	7.568
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0014	59.41	-.0074	-.0010	.0008
#1	.0008	-.0027	59.76	-.0128	-.0016	.0006
#2	-.0007	.0000	59.05	-.0019	-.0003	.0010
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3418	18.41	.00833	-.0102	.01320	.44923
#1	.3387	18.36	.00734	.0063	.01352	.45122
#2	.3449	18.45	.00932	-.0266	.01289	.44725
Int. Std.	Sc3572					
Units	Cts/S					
Avg	177.77					
#1	176.90					
#2	178.65					

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 06/04/10 10:40 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.025	.0134	.0034	2.5131	.04976	-.0152
Stddev	.041	.0040	.0079	.0197	.00015	.0001
%RSD	.8119	29.71	232.1	.78175	.31041	.3465
#1	4.997	.0162	.0090	2.4992	.04965	-.0152
#2	5.054	.0106	-.0022	2.5270	.04987	-.0151
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024	25.81	.0030	-.0007	-.0012	25.32
Stddev	.0002	.21	.0008	.0001	.0002	.12
%RSD	7.043	.8302	24.89	21.19	20.61	.4830
#1	.0023	25.66	.0036	-.0008	-.0013	25.23
#2	.0025	25.96	.0025	-.0006	-.0010	25.40
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%
Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	25.06	4.964	-.0004	-.0034	9.841
Stddev	.0131	.30	.017	.0001	.0004	.012
%RSD	1092.	1.200	.3446	37.39	10.71	.1205
#1	-.0105	24.85	4.951	-.0003	-.0032	9.850
#2	.0081	25.28	4.976	-.0005	-.0037	9.833
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.0019	9.742	-.0010	.0003	.0015
Stddev	.0011	.0045	.058	.0020	.0012	.0001
%RSD	58.32	243.5	.5966	192.4	421.6	4.185
#1	.0011	-.0051	9.783	.0004	-.0005	.0014
#2	.0026	.0013	9.700	-.0024	.0011	.0015
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 06/04/10 10:40

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.10	2.509	.00188	-.0093	.48992	.49912
Stddev	.11	.016	.00049	.0219	.00018	.00023
%RSD	1.041	.6411	25.905	235.0	.03772	.04554
#1	10.03	2.497	.00154	-.0248	.49005	.49928
#2	10.17	2.520	.00223	.0062	.48979	.49896
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	178.99					
Stddev	.19					
%RSD	.10360					
#1	178.85					
#2	179.12					

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 06/04/10 10:43 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4628	2.467	2.469	.46423	.52924	.5022
Stddev	.0186	.023	.011	.00347	.00176	.0016
%RSD	4.020	.9335	.4349	.74708	.33326	.3122
#1	.4496	2.450	2.476	.46178	.52799	.5011
#2	.4759	2.483	2.461	.46668	.53048	.5033
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5002	2.482	.4988	.4992	.4980	.5070
Stddev	.0024	.008	.0075	.0028	.0004	.0092
%RSD	.4860	.3251	1.499	.5674	.0802	1.810
#1	.4985	2.476	.4935	.4972	.4983	.5135
#2	.5019	2.487	.5041	.5012	.4977	.5005
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.471	2.0004	.96676	.9873	.4970	4.880
Stddev	.014	.0039	.00427	.0175	.0014	.000
%RSD	.5685	.19403	.44218	1.769	.2794	.0058
#1	2.461	1.9977	.96374	.9750	.4960	4.880
#2	2.481	2.0032	.96978	.9997	.4980	4.880
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.466	.4958	.4748	2.449	.4906	.4980
Stddev	.027	.0061	.0009	.025	.0030	.0057
%RSD	1.092	1.240	.1817	1.007	.6148	1.149
#1	2.447	.4915	.4742	2.431	.4927	.4939
#2	2.485	.5002	.4754	2.466	.4885	.5020
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 06/04/10 10:43

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0142	.2619	.48986	4.861	.00054	.00192
Stddev	.0052	.0021	.00559	.054	.00072	.00005
%RSD	36.54	.7938	1.1412	1.110	133.64	2.8281
#1	-.0106	.2604	.48591	4.823	.00105	.00188
#2	-.0179	.2633	.49381	4.899	.00003	.00196
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.45					
Stddev	.10					
%RSD	.05632					
#1	182.38					
#2	182.53					

Method: 2010A Sample Name: CCB Operator:
 Comment:
 Run Time: 06/04/10 10:46 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0319	.0094	.0039	.00056	.00014
Stddev	.0087	.0219	.0019	.00005	.00005
%RSD	27.42	232.3	47.59	8.2000	35.328

#1	-.0257	.0249	.0026	.00059	.00017
#2	-.0380	-.0061	.0053	.00053	.00010

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0004	.0039	-.0005	.0000
Stddev	.0001	.0006	.0028	.0002	.001
%RSD	22.66	130.7	70.79	34.50	1777.

#1	.0005	.0008	.0019	-.0007	-.0005
#2	.0006	.0000	.0058	-.0004	.0004

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	.0049	.0046	.00429	.00093
Stddev	.0032	.0010	.0009	.00028	.00012
%RSD	200.9	20.60	19.59	6.5298	12.592

#1	.0007	.0056	.0052	.00449	.00101
#2	-.0038	.0042	.0039	.00410	.00084

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0023	-.0015	-.0011	.0037	-.0013
Stddev	.0001	.0014	.0133	.0000	.0000
%RSD	6.334	95.40	1179.	.0333	.0024

#1	.0022	-.0025	-.0105	.0037	-.0013
#2	.0024	-.0005	.0083	.0037	-.0013

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 06/04/10 10:46

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0041	-.0046	-.0012	.0000	-.0067
Stddev	.0005	.0013	.0002	.001	.0132
%RSD	13.18	27.38	13.32	2700.	196.8
#1	-.0037	-.0037	-.0013	.0007	-.0160
#2	-.0045	-.0055	-.0011	-.0008	.0026
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	-.00171	.0144	.00070	.00007
Stddev	.0005	.00213	.0027	.00038	.00007
%RSD	30.21	124.48	18.83	54.835	89.677
#1	-.0021	-.00322	.0125	.00043	.00012
#2	-.0014	-.00021	.0164	.00097	.00003
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572				
Units	Cts/S				
Avg	180.33				
Stddev	.07				
%RSD	.04044				
#1	180.38				
#2	180.28				

Service Request # K1004934 BOL
Instrument ID# K-ICP-AES-03

ICP-OES Data Review Form

	Yes	No
1. Standardization completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. ICV within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. ICB below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. CRI standard analyzed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. ICS standards within 20% of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. All preceding CCVs within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Following CCV within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bracketing CCBs below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Method Blank below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. MS-MSD or Dup-MS and LCS within CAS control limits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. All analytes within instrument linear range	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Adequate rinse out time allowed between samples to eliminate memory effect	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments:

StarLIMS Run # 203750 Saved under 060710DICP03
NR LL Al, Ca, Fe, Mg. NR Cu2247.
Report Al3944, Ca3158, Cu3273, Mg2852, Zn2062.

Primary Review by mmr Date 6/8/10

Secondary Review by zc Date 6/8/10

Sample Name: BLK Acquired: 6/7/2010 18:24:28 Type: Cal
 Method: 2010b2007(v6) Mode: IR Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0021	-42.14	2.778	3.417	.0077	1.7999	R 29.85
Stddev	.0004	18.15	1.002	.207	.0009	2.3336	2.83
%RSD	16.93	43.08	36.07	6.055	11.10	129.65	9.487

#1	.0019	-29.30	2.069	3.563	.0083	3.4500	27.85
#2	.0024	-54.97	3.486	3.271	.0071	.14979	31.86

Elem	Cd2144	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0009	-.0001	2.428	.0019	.0826	.0001	.0005
Stddev	.0004	.0001	1.088	.0002	.0019	.0000	.0001
%RSD	49.04	155.3	44.82	11.30	2.315	24.14	17.45

#1	-.0006	-.0002	1.658	.0018	.0839	.0001	.0006
#2	-.0012	.0000	3.197	.0021	.0812	.0001	.0005

Elem	Cu2247	Cu3273	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0023	43.77	.0019	.0010	.0001	.0370	R 44.88
Stddev	.0001	1.81	.0002	.0005	.0001	.0008	1.27
%RSD	5.754	4.135	8.617	49.94	121.4	2.155	2.840

#1	-.0024	45.05	.0020	.0007	.0000	.0376	45.78
#2	-.0022	42.49	.0018	.0014	.0002	.0365	43.97

Elem	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0001	.0000	.0001	.0002	147.5	1.280	-28.61
Stddev	.0000	.0000	.0001	.0003	5.5	.293	18.01
%RSD	37.18	2.995	107.5	104.8	3.703	22.92	62.95

#1	.0001	.0000	.0002	.0001	143.6	1.487	-41.35
#2	.0000	.0000	.0000	.0004	151.3	1.072	-15.88

Sample Name: BLK Acquired: 6/7/2010 18:24:28 Type: Cal
 Method: 2010b2007(v6) Mode: IR Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	46.03	.0024	.0002	.0003	7.101	2.261	23.11
Stddev	38.50	.0011	.0001	.0008	1.508	2.040	2.23
%RSD	83.64	47.04	28.27	278.0	21.24	90.19	9.650
#1	73.25	.0016	.0003	.0009	6.034	.8192	21.53
#2	18.80	.0032	.0002	-.0003	8.167	3.704	24.69

Elem	Ti3361	Tl1908	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0018	-.0061	-51.77	-.00187
Stddev	.0000	.0005	18.07	.00031
%RSD	2.189	7.458	34.90	16.543
#1	.0019	-.0064	-64.55	-.00165
#2	.0018	-.0058	-38.99	-.00208

*WMMR
6/5/10*

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9953.0	224540.	18394.	914.13
Stddev	12.9	110.	121.	1.24
%RSD	.12942	.04907	.65599	.13588
#1	9962.1	224620.	18308.	915.01
#2	9943.9	224460.	18479.	913.26

Sample Name: STD A Acquired: 6/7/2010 18:27:39 Type: Cal
 Method: 2010b2007(v6) Mode: IR Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-44-B

Elem	Al1670	Sb2068	Be2348	B_2496	Cd2144	Cd2265	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2383	537.4	64144.	R 4004.	19.74	1.617	7724.
Stddev	.0008	.8	165.	12.	.00	.003	2.
%RSD	.3198	.1529	.25695	.2919	.0202	.1847	.0201

#1	.2377	538.0	64027.	3995.	19.74	1.615	7725.
#2	.2388	536.9	64260.	4012.	19.74	1.620	7723.

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Pb2203	Mg2795
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8.409	.0681	.4992	2.823	14450.	1.319	2.998
Stddev	.037	.0001	.0005	.008	17.	.002	.013
%RSD	.4445	.1003	.1101	.2771	.1181	.1357	.4395

#1	8.383	.0681	.4988	2.828	14440.	1.321	2.988
#2	8.436	.0680	.4996	2.817	14460.	1.318	3.007

Elem	Mn2576	Mn2605	Mo2020	Ni2216	Se1960	Ag3280	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3446	.0100	.3967	.5825	391.7	15950.	.8756
Stddev	.0007	.0001	.0017	.0015	1.0	69.	.0006
%RSD	.2122	.9987	.4288	.2490	.2631	.4347	.0661

#1	.3441	.0100	.3955	.5815	391.0	15900.	.8752
#2	.3451	.0099	.3979	.5836	392.5	16000.	.8760

Elem	V_2924	Zn2062	Zn2138	Ti3361	Ti1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0727	5.561	R 12140.	.2693	.7743
Stddev	.0003	.005	14.	.0006	.0015
%RSD	.3809	.0977	.1185	.2410	.1912

#1	.0725	5.565	12130.	.2689	.7753
#2	.0729	5.557	12150.	.2698	.7732

Sample Name: STD A Acquired: 6/7/2010 18:27:39 Type: Cal
Method: 2010b2007(v6) Mode: IR Corr. Factor: 1.000000
User: admin : : :
Comment: 060710D ICP7-44-B

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9879.7	223330.	18298.	914.50
Stddev	8.8	420.	94.	2.37
%RSD	.08953	.18797	.51283	.25919
#1	9886.0	223030.	18364.	912.82
#2	9873.4	223630.	18231.	916.18

Sample Name: STD B Acquired: 6/7/2010 18:30:30 Type: Cal
 Method: 2010b2007(v6) Mode: IR Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-45-C

Elem	Al3944	As1890	Ba4554	Ca3158	Fe2599	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	R 150000.	1499.	R 81.17	2.237	2.708	.3813
Stddev	1189.	2.	.91	.008	.010	.0004
%RSD	.7926	.1018	1.121	.3678	.3540	.1067

#1	150900.	1498.	80.52	2.231	2.701	.3810
#2	149200.	1501.	81.81	2.243	2.715	.3815

Elem	Mg2852	K_7664	Na5895	P_2149	Si2516	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	R 91110.	16640.	45970.	12700.	11440.	34970.
Stddev	91.	8.	22.	17.	18.	21.
%RSD	.1002	.0497	.0473	.1342	.1568	.0610

#1	91050.	16640.	45960.	12690.	11450.	34950.
#2	91180.	16650.	45990.	12710.	11420.	34980.

Elem	Sr4077
Units	Cts/S
Avg	16.349
Stddev	.030
%RSD	.18447

#1	16.327
#2	16.370

Int. Std.	Y_2243	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S
Avg	9718.6	18079.	866.40
Stddev	8.8	74.	.01
%RSD	.09060	.41088	.00147

#1	9712.4	18131.	866.40
#2	9724.8	18026.	866.41

Sample Name: ICV1 Acquired: 6/7/2010 18:34:04 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D ICP7-48-A

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.007	4.935	2.435	2.522	5.050	.12564	.0008	1.251	1.230
Stddev	.010	.041	.002	.004	.064	.00003	.0008	.000	.002
%RSD	.2463	.8235	.0852	.1453	1.275	.02442	97.05	.0268	.1821
#1	4.000	4.906	2.437	2.519	5.004	.12567	.0014	1.252	1.228
#2	4.014	4.964	2.434	2.524	5.095	.12562	.0003	1.251	1.232

Check ? None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
 Value
 Range

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.237	12.39	11.61	.4989	1.224	.6320	.6175	2.480	2.483
Stddev	.000	.10	.11	.0015	.001	.0003	.0009	.010	.002
%RSD	.0154	.7877	.9130	.2972	.0737	.0418	.1488	.4026	.0775
#1	1.237	12.32	11.54	.4979	1.224	.6318	.6168	2.473	2.481
#2	1.237	12.46	11.69	.5000	1.225	.6322	.6181	2.487	2.484

Check ? Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.47	11.83	12.52	1.229	1.255	2.010	1.218	12.62	2.484
Stddev	.17	.11	.01	.003	.007	.003	.002	.05	.000
%RSD	1.377	.9188	.0729	.2133	.5429	.1615	.1356	.3630	.0057
#1	12.35	11.76	12.53	1.227	1.250	2.007	1.217	12.59	2.484
#2	12.60	11.91	12.52	1.231	1.260	2.012	1.220	12.65	2.484

Check ? Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Sample Name: ICV1 Acquired: 6/7/2010 18:34:04 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-48-A

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6230	12.51	.0005	1.254	1.253	1.223	-.0041	-.0038	2.021
Stddev	.0029	.02	.0005	.005	.000	.000	.0029	.0058	.002
%RSD	.4654	.1258	96.69	.3975	.0114	.0038	72.01	152.1	.0804
#1	.6209	12.52	.0001	1.250	1.253	1.223	-.0020	.0003	2.020
#2	.6250	12.50	.0008	1.257	1.253	1.223	-.0061	-.0080	2.022

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value									
Range									

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.510	.0028	.00075
Stddev	.003	.0011	.00010
%RSD	.1175	38.08	13.878
#1	2.512	.0020	.00083
#2	2.508	.0035	.00068

Check ?	Chk Pass	None	None
Value			
Range			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9803.4	221110.	18324.	888.91
Stddev	8.0	312.	110.	1.15
%RSD	.08120	.14088	.60292	.12889
#1	9809.0	221330.	18402.	888.10
#2	9797.7	220890.	18246.	889.72

Sample Name: ICVB1 Acquired: 6/7/2010 18:38:05 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-43-D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9741	.9733	.0047	.0039	.0016	-.00010	1.987	-.0001
Stddev	.0006	.0007	.0004	.0004	.0001	.00001	.013	.0001
%RSD	.0666	.0670	8.411	10.89	8.812	13.729	.6449	92.86
#1	.9736	.9737	.0044	.0036	.0017	-.00011	1.978	-.0001
#2	.9746	.9728	.0050	.0042	.0015	-.00009	1.996	.0000
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None
Value								
Range								

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0000	5.121	4.893	.0002	.0001	.0086	-.0004
Stddev	.0000	.0000	.018	.024	.0004	.0000	.0001	.0002
%RSD	5.690	142.3	.3587	.4946	256.4	26.30	1.366	55.51
#1	.0003	.0000	5.108	4.876	.0005	.0001	.0085	-.0002
#2	.0003	.0001	5.134	4.910	-.0001	.0001	.0086	-.0006
Check ?	None	None	None	Chk Pass	None	None	None	None
Value								
Range								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.877	.0011	4.991	4.882	5.017	9.378	10.07	.0005
Stddev	.042	.0005	.039	.033	.015	.004	.03	.0002
%RSD	.4199	44.59	.7787	.6757	.3025	.0385	.2854	42.69
#1	9.848	.0014	4.964	4.905	5.006	9.380	10.05	.0007
#2	9.907	.0007	5.019	4.859	5.028	9.375	10.09	.0004
Check ?	None	None	None	Chk Pass	None	None	None	None
Value								
Range								

Sample Name: ICVB1 Acquired: 6/7/2010 18:38:05 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-43-D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0498	-.0001	-.0001	.0015	5.016	-.0117	-.0001
Stddev	.0000	.0741	.0015	.0007	.0105	.007	.0003	.0001
%RSD	10.33	148.7	1341.	491.6	717.9	.1498	2.555	121.7
#1	.0004	-.0026	-.0012	.0004	.0089	5.022	-.0115	-.0002
#2	.0004	.1022	.0009	-.0006	-.0060	5.011	-.0120	.0000
Check ?	None	None	None	None	None	Chk Pass	None	None
Value								
Range								

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	5.051	5.077	.0004	-.0019	2.020	2.0277
Stddev	.0001	.001	.057	.0002	.0003	.006	.0007
%RSD	21.79	.0192	1.128	49.91	13.98	.2811	.03600
#1	.0003	5.050	5.036	.0006	-.0021	2.016	2.0282
#2	.0002	5.052	5.117	.0003	-.0017	2.024	2.0272
Check ?	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9806.0	220950.	18156.	898.26
Stddev	17.9	408.	30.	1.78
%RSD	.18213	.18451	.16269	.19764
#1	9818.6	220660.	18136.	897.00
#2	9793.3	221240.	18177.	899.51

Sample Name: ICB Acquired: 6/7/2010 18:41:35 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0026	-.0011	-.0002	.0012	.0004	.00003	.0067	.0001
Stddev	.0001	.0002	.0006	.0012	.0002	.00001	.0003	.0000
%RSD	2.397	17.68	332.8	98.94	46.04	42.717	4.065	44.13

#1	-.0026	-.0012	-.0006	.0021	.0005	.00004	.0065	.0001
#2	-.0027	-.0010	.0002	.0004	.0003	.00002	.0068	.0000

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020							
Low Limit	-.0020							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0029	-.0011	-.0003	-.0002	-.0005	.0002
Stddev	.0000	.0001	.0013	.0001	.0001	.0000	.0004	.0005
%RSD	36.73	96.51	44.78	8.309	22.76	14.07	90.17	214.0

#1	.0000	.0001	.0020	-.0011	-.0003	-.0002	-.0008	-.0001
#2	.0001	.0000	.0038	-.0012	-.0002	-.0002	-.0002	.0006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0041	.0004	-.0138	F -.0029	-.0036	F .0010	.0020	.0001
Stddev	.0017	.0002	.0037	.0001	.0012	.0000	.0004	.0002
%RSD	42.23	58.97	26.90	3.791	31.91	4.249	19.15	230.6

#1	-.0029	.0005	-.0165	-.0029	-.0045	.0010	.0022	.0002
#2	-.0053	.0002	-.0112	-.0030	-.0028	.0009	.0017	.0000

Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0020		.0006		
Low Limit				-.0020		-.0006		

*rerun
 Cu2247
 6/15/10*

Sample Name: ICB Acquired: 6/7/2010 18:41:35 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0256	-.0002	-.0006	-.0165	-.0001	.0001	.0001
Stddev	.0003	.0211	.0011	.0001	.0075	.0001	.0003	.0001
%RSD	585.4	82.59	476.2	16.56	45.27	114.0	436.6	142.3
#1	.0003	.0106	-.0010	-.0007	-.0218	.0000	.0003	.0002
#2	-.0002	.0405	.0006	-.0005	-.0112	-.0002	-.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0023	-.0032	.0003	.0005	.0002	.00008
Stddev	.000	.0026	.0133	.0001	.0007	.0012	.00005
%RSD	152.6	113.0	411.4	17.84	130.5	497.2	59.287
#1	-.0001	.0005	-.0126	.0004	.0010	.0011	.00005
#2	.0000	.0042	.0062	.0003	.0000	-.0006	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9837.9	222470.	18182.	905.59
Stddev	.9	592.	126.	1.58
%RSD	.00879	.26622	.69130	.17493
#1	9837.3	222060.	18094.	904.47
#2	9838.5	222890.	18271.	906.71

*Sample
6/18/10*

Sample Name: ICB Acquired: 6/7/2010 18:44:31 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0039	-.0051	.0015	.0000	-.0001	.00005	.0017	.0000
Stddev	.0001	.0011	.0005	.000	.0002	.00000	.0003	.0000
%RSD	1.598	21.18	31.30	3317.	336.5	8.1457	15.82	23.22
#1	-.0039	-.0043	.0011	.0003	-.0002	.00006	.0019	.0000
#2	-.0038	-.0058	.0018	-.0003	.0001	.00005	.0015	.0000

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020							
Low Limit	-.0020							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	.0031	-.0029	-.0004	-.0001	-.0001	.0003
Stddev	.0001	.0000	.0010	.0000	.0005	.0000	.0002	.0001
%RSD	1089.	29.06	32.88	.0577	124.7	54.65	366.4	21.04
#1	.0000	.0002	.0024	-.0029	.0000	-.0001	-.0002	.0003
#2	.0000	.0001	.0038	-.0029	-.0007	.0000	.0001	.0004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0061	-.0003	-.0061	F -.0044	-.0045	.0006	.0001	.0000
Stddev	.0015	.0018	.0041	.0000	.0008	.0000	.0003	.0001
%RSD	25.51	593.4	67.90	.2542	17.22	.8137	346.0	254.0
#1	-.0050	.0010	-.0090	-.0044	-.0040	.0006	-.0001	.0001
#2	-.0072	-.0016	-.0032	-.0044	-.0051	.0006	.0003	.0000

Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020				
Low Limit				-.0020				

Sample Name: ICB Acquired: 6/7/2010 18:44:31 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D RERUN

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0205	-.0022	.0003	.0045	.0005	-.0001	-.0001
Stddev	.0001	.0516	.0002	.0003	.0081	.0003	.0004	.0001
%RSD	68.98	251.9	7.352	111.5	180.8	63.33	344.1	174.9
#1	-.0002	.0160	-.0023	.0005	-.0012	.0008	-.0004	.0000
#2	-.0001	-.0570	-.0021	.0001	.0102	.0003	.0002	-.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Zn2138	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0051	-.0042	.0000	.0013	.0012	.00005
Stddev	.0001	.0025	.0038	.0001	.0007	.0012	.00005
%RSD	38.83	48.43	89.55	520.0	57.83	104.3	96.157
#1	-.0001	.0068	-.0015	.0001	.0018	.0003	.00002
#2	-.0002	.0033	-.0069	-.0001	.0007	.0020	.00009

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9840.6	222580.	18146.	902.94
Stddev	8.8	67.	98.	1.58
%RSD	.08919	.03024	.53801	.17531
#1	9846.8	222530.	18077.	904.06
#2	9834.4	222630.	18215.	901.82

Sample Name: CCVA1 Acquired: 6/7/2010 18:47:20 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2462	.2369	.2487	.2511	.2523	.24889	.2507	.2465	.2463
Stddev	.0003	.0006	.0010	.0033	.0007	.00058	.0020	.0009	.0001
%RSD	.1173	.2453	.4076	1.308	.2712	.23149	.7952	.3450	.0607

#1	.2458	.2364	.2482	.2492	.2527	.24848	.2496	.2456	.2464
#2	.2463	.2377	.2494	.2558	.2516	.24896	.2535	.2460	.2463
#3	.2461	.2368	.2496	.2485	.2518	.24843	.2490	.2475	.2462
#4	.2465	.2365	.2474	.2510	.2530	.24967	.2508	.2467	.2466

Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2497	.2426	.2427	.2459	.2463	.2462	.2486	.2422	.2446
Stddev	.0002	.0034	.0006	.0011	.0003	.0008	.0006	.0013	.0015
%RSD	.0611	1.383	.2670	.4400	.1170	.3185	.2299	.5467	.6258

#1	.2498	.2465	.2427	.2472	.2460	.2458	.2478	.2419	.2442
#2	.2498	.2393	.2418	.2451	.2463	.2458	.2490	.2423	.2442
#3	.2495	.2403	.2431	.2449	.2466	.2474	.2486	.2438	.2468
#4	.2496	.2442	.2432	.2462	.2464	.2458	.2489	.2406	.2433

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value									
Range									

Sample Name: CCVA1 Acquired: 6/7/2010 18:47:20 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2452	.2423	.2451	.2463	.2473	.2458	.2472	2.534	.2505
Stddev	.0100	.0004	.0027	.0009	.0009	.0004	.0003	.054	.0010
%RSD	4.085	.1805	1.107	.3712	.3738	.1679	.1329	2.115	.4023
#1	.2398	.2424	.2415	.2466	.2466	.2460	.2473	2.571	.2507
#2	.2516	.2418	.2452	.2450	.2466	.2453	.2468	2.523	.2494
#3	.2555	.2421	.2453	.2464	.2485	.2456	.2472	2.463	.2501
#4	.2341	.2429	.2482	.2472	.2474	.2462	.2476	2.580	.2518

Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value Range									

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2494	.2250	.2453	.2471	.2462	.2503	.0015	.1263	.2461
Stddev	.0007	.0036	.0011	.0007	.0008	.0002	.0022	.0016	.0004
%RSD	.2750	1.615	.4493	.2768	.3223	.0682	142.8	1.270	.1781
#1	.2484	.2215	.2459	.2476	.2456	.2503	.0000	.1242	.2465
#2	.2501	.2236	.2449	.2462	.2455	.2504	-.0001	.1274	.2461
#3	.2494	.2301	.2464	.2469	.2472	.2500	.0017	.1257	.2455
#4	.2496	.2247	.2439	.2476	.2464	.2503	.0046	.1277	.2463

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value Range									

Sample Name: CCVA1 Acquired: 6/7/2010 18:47:20 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2465	-.0005	.00003
Stddev	.0011	.0010	.00005
%RSD	.4578	180.8	194.31

#1	.2465	.0007	.00009
#2	.2449	-.0012	-.00003
#3	.2475	-.0014	.00003
#4	.2470	-.0003	.00001

Check ?	Chk Pass	None	None
Value			
Range			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10002.	225820.	18472.	927.81
Stddev	17.	586.	39.	3.63
%RSD	.17377	.25967	.21068	.39076
#1	10020.	225050.	18431.	931.04
#2	10011.	226350.	18499.	929.36
#3	9981.0	225690.	18511.	922.67
#4	9995.6	226190.	18447.	928.17

Sample Name: CCVB1 Acquired: 6/7/2010 18:56:22 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.594	9.909	.0026	1.003	10.19	.00003	.0031	-.0001	.0001
Stddev	.009	.068	.0013	.002	.14	.00002	.0013	.0000	.0000
%RSD	.1352	.6870	52.40	.1494	1.363	59.175	41.48	31.76	50.32
#1	6.590	9.899	.0034	1.003	10.38	.00001	.0018	-.0001	.0001
#2	6.583	9.966	.0036	1.001	10.13	.00003	.0029	-.0001	.0000
#3	6.599	9.817	.0007	1.002	10.06	.00002	.0049	-.0001	.0002
#4	6.603	9.954	.0024	1.005	10.18	.00005	.0027	-.0002	.0001
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	10.04	9.523	-.0005	.0001	.0085	-.0001	10.01	.0007
Stddev	.0000	.02	.049	.0002	.0001	.0003	.0002	.03	.0008
%RSD	1.098	.2146	.5095	47.16	135.9	3.661	202.9	.2679	110.1
#1	.0045	10.04	9.574	-.0003	.0000	.0086	.0001	10.03	.0017
#2	.0045	10.04	9.493	-.0006	.0001	.0088	.0001	10.04	.0006
#3	.0046	10.01	9.554	-.0003	.0001	.0084	-.0003	9.979	.0007
#4	.0046	10.06	9.473	-.0008	.0000	.0081	-.0003	10.00	-.0002
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass	None
Value									
Range									

Sample Name: CCVB1 Acquired: 6/7/2010 18:56:22 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.05	9.719	9.905	.0004	-.0003	.0001	.0000	10.01	-.0015
Stddev	.04	.064	.087	.0000	.0006	.0001	.000	.06	.0006
%RSD	.3676	.6579	.8760	9.246	170.7	229.5	31230.	.6483	39.87

#1	10.00	9.798	9.811	.0003	-.0011	.0002	-.0001	9.980	-.0013
#2	10.06	9.735	9.874	.0004	-.0003	-.0001	.0001	10.05	-.0022
#3	10.05	9.646	10.02	.0004	.0003	.0002	-.0001	10.09	-.0018
#4	10.09	9.698	9.916	.0004	-.0003	.0000	.0001	9.944	-.0008

Check ?	Chk Pass	None	Chk Pass	None	None	None	None	Chk Pass	None
Value									
Range									

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	9.888	-.0002	.0002	-.0002	-.0002	10.06	9.931	.0003
Stddev	.0003	.078	.0004	.0003	.0001	.0001	.02	.077	.0001
%RSD	72.70	.7845	180.5	167.2	45.79	32.23	.1825	.7746	48.66

#1	-.0008	9.808	-.0005	-.0002	-.0004	-.0002	10.06	9.858	.0001
#2	-.0003	9.847	.0000	.0005	-.0001	-.0001	10.06	9.898	.0003
#3	-.0001	9.985	.0002	.0002	-.0003	-.0002	10.09	10.04	.0004
#4	-.0006	9.911	-.0007	.0003	-.0002	-.0001	10.04	9.929	.0002

Check ?	None	Chk Pass	None	None	None	None	Chk Pass	Chk Pass	None
Value									
Range									

Sample Name: CCVB1 Acquired: 6/7/2010 18:56:22 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006	.9835	1.0096
Stddev	.0004	.0048	.0014
%RSD	78.50	.4867	.13441

#1	.0001	.9771	1.0086
#2	.0006	.9838	1.0104
#3	.0012	.9887	1.0083
#4	.0004	.9843	1.0110

Check ? None Chk Pass Chk Pass
 Value
 Range

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9749.2	219490.	17917.	884.74
Stddev	3.1	1083.	118.	1.93
%RSD	.03171	.49322	.65892	.21859

#1	9745.0	219390.	17812.	883.96
#2	9752.3	219970.	17869.	882.71
#3	9749.2	218030.	18085.	885.01
#4	9750.3	220560.	17900.	887.27

Sample Name: CCB1 Acquired: 6/7/2010 19:24:23 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0039	-.0051	.0006	.0019	-.0003	.00002	.0009	.0000
Stddev	.0000	.0017	.0005	.0009	.0000	.00001	.0007	.0000
%RSD	1.207	32.23	92.45	50.17	11.30	75.384	69.12	9.560

#1	-.0039	-.0040	.0009	.0012	-.0003	.00003	.0014	.0000
#2	-.0039	-.0063	.0002	.0026	-.0003	.00001	.0005	.0000

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020							
Low Limit	-.0020							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	.0008	-.0029	-.0003	-.0002	-.0002	.0004
Stddev	.0001	.000	.0023	.0001	.0002	.0001	.0003	.0002
%RSD	424.9	281.5	291.2	2.523	73.81	55.44	122.5	40.51

#1	-.0001	-.0001	-.0008	-.0029	-.0004	-.0001	.0000	.0003
#2	.0001	.0000	.0024	-.0030	-.0001	-.0003	-.0004	.0005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0043	.0006	-.0097	F -.0053	-.0066	.0001	.0004	-.0001
Stddev	.0027	.0004	.0022	.0001	.0003	.0000	.0005	.0001
%RSD	64.30	69.55	22.57	2.168	4.072	5.601	114.6	43.31

#1	-.0062	.0010	-.0081	-.0052	-.0064	.0001	.0008	-.0001
#2	-.0023	.0003	-.0112	-.0053	-.0068	.0001	.0001	-.0002

Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020				
Low Limit				-.0020				

Sample Name: CCB1 Acquired: 6/7/2010 19:24:23 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0079	-.0022	-.0001	-.0175	-.0001	.0002	.0000
Stddev	.0000	.0065	.0007	.0002	.0136	.0001	.0001	.0000
%RSD	21.59	82.09	33.49	180.1	77.53	86.73	52.16	123.5
#1	-.0001	-.0125	-.0028	.0000	-.0271	-.0002	.0002	.0000
#2	-.0001	-.0033	-.0017	-.0003	-.0079	.0000	.0001	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0028	.0001	.0000	.0007	-.0005	.00000
Stddev	.0000	.0032	.0141	.000	.0007	.0005	.00007
%RSD	40.26	113.8	17410.	67.60	98.53	103.5	2293.2
#1	-.0001	.0006	-.0099	.0000	.0012	-.0008	-.00004
#2	-.0001	.0051	.0101	.0000	.0002	-.0001	.00005

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9838.3	222030.	18072.	913.94
Stddev	14.6	1071.	138.	2.24
%RSD	.14873	.48237	.76273	.24466
#1	9848.6	221270.	17975.	915.52
#2	9828.0	222790.	18170.	912.36

Sample Name: CRI Acquired: 6/7/2010 19:26:49 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-41-A

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0478	.0429	.0510	.0986	.0057	.00471	.0484	.0051
Stddev	.0003	.0007	.0002	.0001	.0001	.00004	.0001	.0000
%RSD	.5719	1.556	.4782	.0894	1.653	.89276	.2787	.7935
#1	.0476	.0424	.0508	.0986	.0058	.00474	.0483	.0050
#2	.0480	.0433	.0511	.0987	.0056	.00469	.0485	.0051

Check ? None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051	.0057	.0530	.0470	.0049	.0100	.0095	.0090
Stddev	.0001	.0001	.0092	.0002	.0001	.0001	.0000	.0001
%RSD	1.718	1.347	17.26	.4166	1.852	1.173	.0613	1.284
#1	.0051	.0057	.0466	.0468	.0048	.0099	.0095	.0091
#2	.0050	.0056	.0595	.0471	.0050	.0100	.0095	.0089

Check ? Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0134	.0467	.0126	.0146	F .0131	.0050	.0057	.0094
Stddev	.0011	.0002	.0027	.0001	.0010	.0000	.0008	.0001
%RSD	8.359	.3234	21.41	.5274	7.463	.6384	13.18	1.577
#1	.0126	.0466	.0145	.0146	.0124	.0050	.0063	.0095
#2	.0142	.0468	.0107	.0147	.0138	.0050	.0052	.0093

Check ? Chk Fail Chk Pass None None Chk Fail Chk Pass None Chk Pass
 Value
 Range .0200 -20.00% .0200 -20.00%

** Chk pass for Non-DOD work 6/15/10*

Sample Name: CRI Acquired: 6/7/2010 19:26:49 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-41-A

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193	.3946	.0971	.0094	.1690	.0480	.0096	.0094
Stddev	.0002	.0491	.0003	.0003	.0013	.0012	.0005	.0001
%RSD	.8551	12.44	.3583	2.818	.7684	2.427	5.428	.9951
#1	.0192	.3599	.0968	.0096	.1681	.0471	.0100	.0094
#2	.0194	.4293	.0973	.0092	.1699	.0488	.0092	.0095

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Elem	Zn2138	P_2149	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096	.1992	.3841	.0099	.1904	.0100	.00975
Stddev	.0000	.0029	.0055	.0001	.0001	.0006	.00008
%RSD	.1233	1.464	1.438	.7106	.0372	5.767	.85331
#1	.0096	.2012	.3880	.0099	.1903	.0096	.00969
#2	.0096	.1971	.3802	.0098	.1904	.0104	.00981

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 Value
 Range

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9852.1	221100.	17936.	924.01
Stddev	18.6	333.	19.	3.94
%RSD	.18859	.15081	.10569	.42642
#1	9865.3	221340.	17949.	926.80
#2	9839.0	220860.	17923.	921.23

Sample Name: CRI Acquired: 6/7/2010 19:29:49 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICAP ICP7-39-B 0.1/10

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0012	-.0008	.0099	.0110	.0019	.00017	.0109	.0005
Stddev	.0001	.0029	.0006	.0010	.0001	.00000	.0010	.0000
%RSD	6.833	369.1	6.076	8.966	7.539	1.9535	9.581	5.852

#1	-.0011	.0013	.0095	.0103	.0020	.00018	.0102	.0006
#2	-.0013	-.0029	.0104	.0117	.0018	.00017	.0116	.0005

Check ?	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0020							
Range	-50.00%							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0007	.0040	F .0019	.0018	.0008	.0020	.0022
Stddev	.0000	.0001	.0003	.0001	.0002	.0002	.0002	.0005
%RSD	2.950	10.85	8.482	3.278	11.16	21.44	10.88	20.70

#1	.0005	.0008	.0037	.0020	.0017	.0007	.0022	.0019
#2	.0006	.0007	.0042	.0019	.0019	.0009	.0019	.0026

Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.0040				
Range				-50.00%				

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0028	.0094	-.0040	F -.0029	-.0026	.0006	.0011	.0020
Stddev	.0025	.0009	.0093	.0001	.0001	.0000	.0004	.0003
%RSD	90.87	9.294	230.7	2.055	3.895	3.702	36.38	17.09

#1	.0046	.0100	.0025	-.0028	-.0026	.0007	.0008	.0018
#2	.0010	.0088	-.0106	-.0029	-.0027	.0006	.0014	.0022

Check ?	Chk Fail	Chk Pass	None	Chk Fail	None	Chk Pass	None	Chk Pass
Value	.0100			.0020				
Range	-50.00%			-50.00%				

Sample Name: CRI Acquired: 6/7/2010 19:29:49 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICAP ICP7-39-B 0.1/10

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0881	.0172	.0019	.1652	.0093	.0022	.0019
Stddev	.0001	.0229	.0006	.0001	.0113	.0004	.0000	.0000
%RSD	5.273	26.02	3.693	3.852	6.865	4.298	.2610	2.031

#1	.0022	.1043	.0167	.0019	.1572	.0090	.0022	.0019
#2	.0021	.0719	.0176	.0018	.1732	.0096	.0022	.0019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0227	.0457	.0010	.0108	.0093	.00033
Stddev	.0000	.0008	.0054	.0000	.0001	.0011	.00008
%RSD	1.259	3.307	11.80	3.576	.8551	11.80	23.824

#1	.0020	.0222	.0495	.0010	.0107	.0100	.00027
#2	.0019	.0233	.0418	.0010	.0108	.0085	.00038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9750.4	219950.	17813.	910.39
Stddev	12.7	488.	84.	3.90
%RSD	.13005	.22176	.47125	.42826

#1	9759.4	220300.	17754.	913.14
#2	9741.5	219610.	17873.	907.63

Sample Name: ICSA Acquired: 6/7/2010 19:32:16 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-43-B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.61	437.2	.0217	-.0101	.0008	-.00051	.0172	-.0025
Stddev	.04	2.7	.0002	.0006	.0003	.00001	.0004	.0002
%RSD	.2481	.6279	.8387	5.787	35.14	1.1613	2.261	8.662

#1	15.58	439.2	.0218	-.0097	.0006	-.00051	.0175	-.0023
#2	15.64	435.3	.0216	-.0105	.0010	-.00050	.0170	-.0026

Check ?	None	Chk Pass	None	None	None	None	None	None
Value								
Range								

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	-.0013	468.3	*****	-.0005	-.0016	.1653	.0001
Stddev	.0000	.0003	2.4	----	.0003	.0000	.0004	.0008
%RSD	1.451	21.65	.5164	----	53.86	1.007	.2439	754.6

#1	.0034	-.0011	466.6	----	-.0003	-.0016	.1650	-.0004
#2	.0033	-.0015	470.0	----	-.0008	-.0016	.1656	.0006

Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	180.8	.0056	514.0	*****	415.9	.0178	.0029	.0002
Stddev	1.3	.0005	.9	----	3.0	.0001	.0010	.0006
%RSD	.7006	8.382	.1699	----	.7319	.8434	35.51	237.9

#1	179.9	.0053	513.4	----	413.8	.0179	.0021	.0006
#2	181.7	.0059	514.6	----	418.1	.0177	.0036	-.0002

Check ?	Chk Pass	None	Chk Pass	None	None	None	None	None
Value								
Range								

Sample Name: ICSA Acquired: 6/7/2010 19:32:16 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-43-B

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	-.0213	-.0127	-.0002	.0210	.0020	.0010	-.0037
Stddev	.0001	.0044	.0033	.0004	.0146	.0000	.0001	.0001
%RSD	2.744	20.89	26.20	220.7	69.79	2.080	6.053	2.228

#1	.0026	-.0244	-.0150	.0001	.0106	.0019	.0010	-.0037
#2	.0027	-.0182	-.0103	-.0004	.0313	.0020	.0011	-.0038

Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0018	.0252	-.0137	.0040	-.0017	-.0009	-.00087
Stddev	.0001	.0004	.0065	.0001	.0031	.0012	.00021
%RSD	4.161	1.613	47.68	1.766	181.4	132.2	24.152

#1	-.0017	.0249	-.0091	.0040	.0005	-.0018	-.00072
#2	-.0018	.0255	-.0183	.0041	-.0039	-.0001	-.00101

Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8947.7	196600.	17230.	763.56
Stddev	9.8	1961.	95.	2.11
%RSD	.10987	.99766	.55062	.27663

#1	8940.8	197980.	17297.	762.07
#2	8954.7	195210.	17163.	765.06

Sample Name: ICSAB Acquired: 6/7/2010 19:36:30 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-38-C

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.53	444.5	.9307	-.0061	.5199	.47961	.0148	.9856
Stddev	.04	.8	.0002	.0004	.0003	.00272	.0009	.0004
%RSD	.2833	.1871	.0217	7.183	.0565	.56733	6.355	.0414

#1	15.50	443.9	.9309	-.0058	.5197	.47769	.0155	.9859
#2	15.56	445.1	.9306	-.0064	.5201	.48154	.0141	.9853

Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9023	.9016	473.4	*****	.4869	.4477	F .6471	.4656
Stddev	.0026	.0008	4.1	----	.0016	.0012	.0020	.0026
%RSD	.2900	.0864	.8699	----	.3243	.2739	.3154	.5666

#1	.9005	.9022	470.5	----	.4880	.4468	.6486	.4638
#2	.9042	.9011	476.4	----	.4857	.4486	.6457	.4675

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value							.5000	
Range							20.00%	

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	180.8	.9664	521.7	*****	424.6	.4913	.5131	-.0001
Stddev	1.7	.0014	2.8	----	3.7	.0015	.0007	.0000
%RSD	.9311	.1469	.5428	----	.8774	.3122	.1425	38.64

#1	179.6	.9674	519.7	----	421.9	.4924	.5136	-.0001
#2	182.0	.9654	523.7	----	427.2	.4902	.5126	-.0001

Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	None
Value								
Range								

Sample Name: ICSAB Acquired: 6/7/2010 19:36:30 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D ICP7-38-C

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8815	-.1166	-.0165	.9714	-.0019	.0020	.4944	.9780
Stddev	.0030	.0458	.0032	.0033	.0124	.0010	.0009	.0022
%RSD	.3357	39.26	19.57	.3412	635.0	47.84	.1883	.2249
#1	.8794	-.0842	-.0188	.9691	.0068	.0027	.4951	.9796
#2	.8836	-.1489	-.0142	.9738	-.0107	.0013	.4938	.9765

Check ?	Chk Pass	None	None	Chk Pass	None	None	Chk Pass	Chk Pass
Value Range								

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8789	.0177	.0143	.0038	-.0032	-.0019	-.00668
Stddev	.0007	.0038	.0009	.0002	.0030	.0008	.00008
%RSD	.0831	21.17	5.951	5.728	92.98	40.55	1.2602
#1	.8784	.0204	.0149	.0039	-.0054	-.0025	-.00662
#2	.8794	.0151	.0137	.0036	-.0011	-.0014	-.00674

Check ?	Chk Pass	None	None	None	None	None	None
Value Range							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8995.5	198490.	17365.	759.31
Stddev	15.3	1128.	58.	1.49
%RSD	.16981	.56835	.33600	.19652
#1	9006.3	197690.	17407.	758.26
#2	8984.7	199290.	17324.	760.37

Sample Name: RB Acquired: 6/7/2010 19:43:14 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0168	F .0179	.0011	.0001	F -.0002	.00007	F -.0004	.0000
#1	.0167	.0170	.0017	-.0002	-.0002	.00005	-.0004	.0000
#2	.0168	.0187	.0005	.0003	-.0003	.00008	-.0004	.0001
Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0224	.0225	F -.0001	-.0003	.0001	.0007
#1	.0001	.0000	.0277	.0233	.0002	-.0004	.0003	.0007
#2	.0000	.0001	.0172	.0216	-.0003	-.0001	.0000	.0007
Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0190	.0003	.0522	.0512	.0001	-.0001	.0001	F -.0409
#1	.0189	-.0005	.0512	.0513	.0000	-.0002	.0002	-.0205
#2	.0192	.0012	.0532	.0511	.0001	.0000	.0000	-.0614
Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0001	F -.0375	-.0005	.0000	F .0002	F .0000	.0049
#1	-.0008	.0002	-.0386	-.0009	.0000	.0003	.0001	.0039
#2	-.0011	.0001	-.0363	.0000	-.0001	.0001	.0000	.0058
Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077			
Units	ppm	ppm	ppm	ppm	ppm			
Avg	-.0045	.0000	.0002	-.0019	.00006			
#1	.0035	.0001	.0004	-.0014	.00006			
#2	-.0125	.0000	-.0001	-.0024	.00006			
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10036.	225510.	18239.	920.18				
#1	10038.	226130.	18301.	920.14				
#2	10034.	224900.	18176.	920.21				

Sample Name: K1005015-MB Acquired: 6/7/2010 19:46:18 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

User: admin : : :

Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0105	.0125	.0014	.0000	-.0002	-.00001	.0017	.0000
#1	.0108	.0132	.0015	-.0002	-.0002	.00000	.0016	.0000
#2	.0102	.0119	.0013	.0002	-.0002	-.00003	.0017	.0000
Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0162	F .0138	-.0002	-.0001	.0000	-.0003
#1	.0001	.0003	.0196	.0140	-.0001	-.0002	.0001	-.0001
#2	.0001	.0000	.0128	.0136	-.0003	-.0001	.0000	-.0004
Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	-.0005	F .0466	F .0448	.0001	.0000	.0001	-.1000
#1	.0091	-.0008	.0463	.0440	.0001	-.0001	.0002	-.1142
#2	.0093	-.0003	.0469	.0456	.0001	.0000	.0001	-.0857
Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0000	-.0450	-.0003	-.0005	.0001	.0001	F .2854
#1	-.0002	-.0002	-.0498	-.0004	-.0004	.0002	.0001	.2857
#2	-.0018	.0002	-.0402	-.0002	-.0005	.0000	.0001	.2852
Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077			
Units	ppm	ppm	ppm	ppm	ppm			
Avg	-.0168	.0001	.0008	.0010	.00006			
#1	-.0195	.0000	.0001	.0006	.00010			
#2	-.0141	.0001	.0014	.0015	.00001			
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10069.	226060.	18206.	930.81				
#1	10078.	225330.	18261.	932.05				
#2	10061.	226800.	18151.	929.57				

*Review w/ K1005015-1
LAWRENCE
6/8/10*

Sample Name: LCSW Acquired: 6/7/2010 19:49:22 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.990	2.601	2.550	5.186	.12633	1.001	1.247	1.215	1.237
#1	4.986	2.602	2.551	5.159	.12605	1.002	1.242	1.213	1.237
#2	4.993	2.601	2.548	5.212	.12660	.9994	1.252	1.217	1.238
Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.48	11.85	.5044	1.223	.6335	.6233	2.520	2.479	12.29
#1	12.42	11.73	.5039	1.223	.6308	.6244	2.513	2.474	12.31
#2	12.54	11.98	.5049	1.223	.6362	.6223	2.527	2.484	12.26
Elem	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.260	.9915	1.221	12.68	2.434	.6241	12.37	.0000	1.269
#1	1.259	.9892	1.220	12.70	2.435	.6258	12.42	-.0002	1.269
#2	1.261	.9938	1.223	12.66	2.433	.6225	12.33	.0002	1.268
Elem	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.242	1.230	.2180	.0058	.0000	2.491	-.0006	.00029	
#1	1.239	1.230	.2199	.0104	.0000	2.489	-.0024	.00028	
#2	1.246	1.231	.2161	.0012	.0000	2.493	.0011	.00029	
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	9973.2	222210.	18101.	900.34					
#1	9982.4	222130.	18198.	902.70					
#2	9964.0	222300.	18004.	897.98					

*Comment
6/15/10*

Sample Name: LCSW Acquired: 6/7/2010 19:53:21 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D SILICON

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	F .0017	.0019	.0007	F .0003	.00004	F .0022	.0002
#1	.0021	.0010	.0024	.0004	.0003	.00003	.0016	.0002
#2	.0030	.0023	.0014	.0011	.0003	.00005	.0029	.0002
Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	F .0090	.0048	F .0001	.0000	.0002	.0004
#1	.0002	.0002	.0050	.0048	-.0002	-.0001	.0002	.0004
#2	.0003	.0001	.0129	.0047	.0003	.0002	.0002	.0004
Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0042	.0007	.0119	F .0113	.0034	.0001	.0003	F -.0153
#1	.0049	.0009	.0118	.0116	.0034	.0002	.0004	-.0289
#2	.0035	.0004	.0120	.0111	.0033	.0001	.0003	-.0016
Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0000	F 16.53	-.0004	.0000	F .0002	F .0001	.2436
#1	.0000	-.0004	16.45	-.0003	.0001	.0002	.0001	.2451
#2	-.0001	.0003	16.62	-.0005	-.0001	.0002	.0001	.2421
Elem	Si2516	Ti3361	Ti1908	Li6707	Sr4077			
Units	ppm	ppm	ppm	ppm	ppm			
Avg	9.909	.0005	.0016	-.0005	-.00005			
#1	9.883	.0004	.0020	-.0007	-.00006			
#2	9.935	.0005	.0011	-.0004	-.00004			
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10049.	225550.	18362.	927.70				
#1	10052.	225220.	18390.	928.64				
#2	10047.	225880.	18334.	926.75				

*www
6/15/10*

Sample Name: K1005015-001 Acquired: 6/7/2010 19:57:11 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

User: admin

Comment: 060710D

BQC for K1005007, K1004934

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0299	.0250	.0016	.0000	F .0009	.00004	F .0032	.0001

#1	.0291	.0248	.0007	.0013	.0011	.00003	.0027	.0001
#2	.0306	.0252	.0025	-.0013	.0008	.00006	.0037	.0001

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	1.486	1.457	F -.0006	-.0002	.0132	.0141

#1	.0001	.0003	1.483	1.450	-.0005	-.0002	.0133	.0141
#2	.0001	.0001	1.489	1.464	-.0007	-.0002	.0131	.0142

Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0269	.0001	.5666	.5679	.0026	.0000	.0000	F .1174

#1	.0273	.0001	.5646	.5690	.0026	-.0001	.0000	.1160
#2	.0266	.0001	.5686	.5669	.0025	.0001	.0001	.1188

Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0005	1.150	-.0001	.0003	F .0005	F .0005	.3340

#1	.0004	.0000	1.149	.0005	.0002	.0006	.0004	.3289
#2	-.0001	-.0009	1.152	-.0007	.0003	.0005	.0005	.3391

Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.686	.0004	.0000	-.0013	.01244

#1	3.698	.0002	-.0002	-.0009	.01235
#2	3.674	.0005	.0002	-.0017	.01252

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10048.	225560.	18303.	933.01

#1	10026.	226360.	18418.	930.42
#2	10070.	224760.	18187.	935.59

Sample Name: K1005015-001D Acquired: 6/7/2010 20:00:19 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0301	.0294	.0008	.0001	F .0008	-.00002	F .0012	.0000

#1	.0299	.0305	.0008	.0017	.0009	.00000	.0019	.0000
#2	.0304	.0283	.0009	-.0014	.0007	-.00004	.0006	.0000

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	1.473	1.457	F .0002	-.0004	.0131	.0135

#1	.0001	.0000	1.467	1.460	.0005	-.0004	.0133	.0136
#2	.0000	.0001	1.480	1.453	-.0001	-.0004	.0129	.0134

Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0256	-.0005	.5644	.5662	.0025	-.0001	.0002	F .1152

#1	.0264	-.0006	.5612	.5585	.0025	.0000	.0003	.1176
#2	.0247	-.0003	.5675	.5740	.0024	-.0001	.0000	.1128

Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0001	1.139	.0001	.0007	F .0004	F .0004	.3215

#1	.0001	-.0003	1.126	-.0002	.0007	.0003	.0004	.3200
#2	-.0012	.0000	1.151	.0004	.0008	.0004	.0004	.3231

Elem	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.655	.0005	-.0004	-.0005	.01238

#1	3.630	.0006	.0002	.0007	.01230
#2	3.681	.0003	-.0009	-.0016	.01245

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10042.	226200.	18316.	933.91

#1	10053.	226010.	18267.	934.99
#2	10032.	226380.	18366.	932.83

Sample Name: CCVA2 Acquired: 6/7/2010 20:03:28 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2555	.2429	.2526	.2590	.2582	.25257	.2541	.2534
Stddev	.0004	.0013	.0030	.0006	.0012	.00077	.0007	.0010
%RSD	.1724	.5459	1.186	.2148	.4464	.30335	.2791	.4063
#1	.2552	.2438	.2504	.2586	.2574	.25203	.2536	.2527
#2	.2558	.2420	.2547	.2594	.2590	.25311	.2546	.2542
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2530	.2559	.2516	.2504	.2521	.2507	.2523	.2516
Stddev	.0004	.0004	.0041	.0021	.0003	.0008	.0012	.0006
%RSD	.1499	.1527	1.616	.8469	.1225	.3165	.4816	.2289
#1	.2527	.2561	.2487	.2489	.2519	.2502	.2515	.2512
#2	.2533	.2556	.2545	.2519	.2523	.2513	.2532	.2520
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2575	.2506	.2517	.2522	.2481	.2514	.2471	.2514
Stddev	.0003	.0000	.0075	.0019	.0008	.0004	.0000	.0002
%RSD	.1242	.0174	2.989	.7347	.3259	.1528	.0105	.0621
#1	.2573	.2505	.2570	.2509	.2486	.2511	.2471	.2513
#2	.2578	.2506	.2464	.2535	.2475	.2517	.2471	.2515
Check ?	None	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value Range								

Sample Name: CCVA2 Acquired: 6/7/2010 20:03:28 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2530	2.496	.2586	.2557	.2086	.2490	.2520	.2524
Stddev	.0005	.027	.0015	.0009	.0028	.0012	.0002	.0007
%RSD	.1855	1.082	.5867	.3414	1.365	.4707	.0717	.2728
#1	.2526	2.477	.2575	.2551	.2107	.2481	.2521	.2519
#2	.2533	2.515	.2597	.2564	.2066	.2498	.2518	.2529

Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2559	.0049	.1204	.2505	.2501	.0002	-.00001
Stddev	.0001	.0005	.0082	.0001	.0022	.0010	.00002
%RSD	.0584	10.94	6.807	.0254	.8952	431.7	285.53
#1	.2558	.0045	.1146	.2506	.2485	.0010	.00001
#2	.2560	.0053	.1262	.2505	.2517	-.0005	-.00002

Check ?	Chk Pass	None	None	Chk Pass	Chk Pass	None	None
Value Range							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9982.2	224680.	18000.	929.34
Stddev	9.4	596.	19.	2.07
%RSD	.09395	.26507	.10296	.22242
#1	9988.9	224260.	18013.	930.80
#2	9975.6	225100.	17987.	927.88

Sample Name: CCVB2 Acquired: 6/7/2010 20:06:19 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.803	10.30	.0017	1.054	10.48	.00003	.0034	-.0001	.0002
Stddev	.006	.09	.0010	.002	.22	.00000	.0006	.0000	.0001
%RSD	.0852	.8265	56.02	.1426	2.080	.60628	16.92	45.92	46.78
#1	6.807	10.36	.0010	1.052	10.33	.00003	.0038	-.0001	.0001
#2	6.799	10.24	.0024	1.055	10.64	.00003	.0030	.0000	.0002
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value Range									

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	10.37	9.754	-.0006	.0001	.0087	.0000	10.28	.0002
Stddev	.0001	.07	.195	.0000	.0001	.0004	.000	.08	.0008
%RSD	1.057	.6707	1.994	8.084	57.14	4.585	1318.	.7553	362.7
#1	.0050	10.32	9.617	-.0006	.0001	.0090	.0002	10.23	.0008
#2	.0049	10.42	9.892	-.0006	.0001	.0084	-.0003	10.34	-.0003
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass	None
Value Range									

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.31	9.961	9.972	.0003	.0004	.0000	.0003	10.23	-.0007
Stddev	.01	.159	.013	.0000	.0009	.000	.0001	.00	.0005
%RSD	.1308	1.593	.1291	11.40	206.5	2251.	30.81	.0264	69.17
#1	10.30	9.849	9.963	.0003	-.0002	.0000	.0003	10.23	-.0003
#2	10.32	10.07	9.981	.0003	.0011	.0000	.0004	10.23	-.0010
Check ?	Chk Pass	None	Chk Pass	None	None	None	None	Chk Pass	None
Value Range									

Sample Name: CCVB2 Acquired: 6/7/2010 20:06:19 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	10.06	-.0006	-.0001	-.0002	-.0001	10.53	10.01	.0002
Stddev	.0006	.00	.0001	.0008	.0000	.0001	.00	.04	.0000
%RSD	94.04	.0224	11.06	778.2	22.91	66.16	.0251	.4115	12.99
#1	.0002	10.06	-.0007	.0005	-.0001	.0000	10.53	9.980	.0002
#2	.0011	10.06	-.0006	-.0007	-.0002	-.0001	10.53	10.04	.0002
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	Chk Pass	None
Value									
Range									

Elem	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002	1.009	1.0384
Stddev	.0003	.002	.0043
%RSD	162.9	.2058	.41807
#1	.0000	1.007	1.0353
#2	.0004	1.010	1.0415

Check ?	None	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9907.8	220720.	17821.	898.55
Stddev	16.2	1483.	43.	1.60
%RSD	.16393	.67188	.24154	.17758
#1	9919.3	221770.	17851.	899.68
#2	9896.3	219670.	17790.	897.42

Sample Name: CCB2 Acquired: 6/7/2010 20:10:24 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0036	-.0058	.0019	.0011	.0002	.00002	.0004	.0001
Stddev	.0000	.0014	.0014	.0005	.0004	.00000	.0011	.0000
%RSD	.3980	24.10	77.65	45.74	276.3	15.816	256.2	45.53

#1	-.0036	-.0049	.0029	.0007	.0004	.00002	.0012	.0000
#2	-.0036	-.0068	.0008	.0014	-.0001	.00003	-.0004	.0001

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020							
Low Limit	-.0020							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0000	-.0008	-.0027	-.0002	-.0002	.0000	.0005
Stddev	.0000	.0000	.0023	.0000	.0000	.0001	.000	.0002
%RSD	85.62	82.93	291.2	1.457	20.45	39.64	1388.	44.97

#1	.0001	.0000	.0008	-.0026	-.0001	-.0002	.0003	.0004
#2	.0000	.0000	-.0025	-.0027	-.0002	-.0003	-.0003	.0007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0008	-.0015	-.0018	-.0025	.0001	.0009	.0001
Stddev	.0016	.0002	.0006	.0002	.0020	.0000	.0011	.0001
%RSD	335.0	24.79	38.31	10.37	81.66	14.68	112.9	229.9

#1	-.0007	-.0010	-.0011	-.0020	-.0039	.0001	.0002	.0002
#2	.0016	-.0007	-.0019	-.0017	-.0011	.0001	.0017	.0000

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB2 Acquired: 6/7/2010 20:10:24 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0734	-.0025	.0006	-.0289	-.0009	-.0001	.0001
Stddev	.0002	.0036	.0015	.0000	.0125	.0009	.0001	.0000
%RSD	129.7	4.903	57.68	3.042	43.24	96.52	207.2	41.51

#1	.0000	-.0708	-.0036	.0006	-.0378	-.0003	.0000	.0001
#2	.0002	-.0759	-.0015	.0006	-.0201	-.0015	-.0002	.0001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0051	-.0009	.0001	.0004	-.0025	-.00005
Stddev	.0000	.0008	.0017	.0000	.0004	.0015	.00000
%RSD	21.52	15.38	201.7	23.75	101.5	57.97	8.6207

#1	-.0001	.0056	.0004	.0001	.0001	-.0015	-.00004
#2	-.0001	.0045	-.0021	.0002	.0007	-.0036	-.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9958.2	222350.	17910.	917.67
Stddev	5.4	83.	134.	.21
%RSD	.05394	.03733	.75022	.02263

#1	9954.4	222410.	18005.	917.82
#2	9962.0	222290.	17815.	917.52

Sample Name: K1005015-001L Acquired: 6/7/2010 20:12:52 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

User: admin : : :

Comment: 060710D 1/5

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	F .0026	.0022	.0003	F .0004	.00001	F .0015	.0000

#1	.0034	.0047	.0028	.0000	.0004	.00001	.0016	.0000
#2	.0034	.0006	.0017	.0006	.0004	.00000	.0015	.0000

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	.3037	.2949	F .0001	-.0002	.0028	.0026

#1	.0001	.0000	.3027	.2942	.0002	.0000	.0031	.0026
#2	.0000	.0001	.3048	.2955	-.0001	-.0003	.0026	.0027

Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0039	-.0002	.1133	.1096	.0008	-.0001	.0002	F -.0260

#1	.0041	.0006	.1134	.1083	.0008	-.0001	.0001	-.0235
#2	.0038	-.0010	.1132	.1109	.0008	-.0002	.0002	-.0284

Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0002	.2051	.0000	-.0002	F .0000	F .0001	.0690

#1	-.0002	.0001	.2012	.0004	-.0003	.0000	.0000	.0710
#2	-.0009	.0002	.2090	-.0004	-.0001	.0001	.0001	.0670

Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077			
Units	ppm	ppm	ppm	ppm	ppm			
Avg	.7229	.0002	.0011	.0005	.00253			

#1	.7180	.0002	.0007	.0022	.00250			
#2	.7277	.0002	.0014	-.0012	.00256			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10056.	225360.	18063.	934.89				

#1	10075.	225280.	17997.	936.31				
#2	10037.	225450.	18128.	933.47				

Sample Name: K1005015-001D Acquired: 6/7/2010 20:15:57 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

User: admin : : :

Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0275	.0258	.0009	.0001	F .0013	-0.0004	F .0019	.0000
#1	.0270	.0263	.0002	.0000	.0014	.00001	.0014	.0000
#2	.0281	.0253	.0015	.0002	.0011	-0.0008	.0025	.0000
Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	1.466	1.444	F .0000	-0.0001	.0132	.0140
#1	.0001	.0002	1.462	1.446	-0.0002	-0.0002	.0128	.0137
#2	.0001	.0000	1.470	1.441	.0003	-0.0001	.0136	.0142
Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225	.0001	.5578	.5522	.0025	.0000	.0000	F .0901
#1	.0241	-0.0002	.5570	.5503	.0025	-0.0001	.0001	.1000
#2	.0208	.0004	.5587	.5540	.0025	.0001	-0.0001	.0803
Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-0.0002	1.115	-0.0003	.0002	F .0004	F .0004	.3270
#1	.0013	-0.0003	1.108	.0000	.0001	.0005	.0005	.3259
#2	-0.0012	-0.0002	1.123	-0.0005	.0003	.0004	.0003	.3280
Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077			
Units	ppm	ppm	ppm	ppm	ppm			
Avg	3.608	.0004	-0.0004	-0.0007	.01245			
#1	3.597	.0004	-0.0009	.0001	.01237			
#2	3.619	.0004	.0002	-0.0015	.01253			
Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306				
Units	Cts/S	Cts/S	Cts/S	Cts/S				
Avg	10042.	225470.	18126.	938.22				
#1	10056.	226460.	18090.	939.54				
#2	10028.	224480.	18162.	936.90				

*not needed
change
6/8/10*

Sample Name: K1005015-001S Acquired: 6/7/2010 20:19:05 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.061	.4952	1.034	2.102	.05057	1.018	.0505	.0492
#1	2.054	.4967	1.036	2.098	.05031	1.015	.0503	.0492
#2	2.068	.4937	1.033	2.106	.05083	1.021	.0506	.0492

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0534	F 11.60	11.07	.2029	.4923	.2639	.2628	1.041
#1	.0536	11.57	11.14	.2031	.4919	.2632	.2623	1.041
#2	.0533	11.63	11.00	.2027	.4928	.2646	.2633	1.042

Elem	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4959	F 10.40	.5034	1.002	.4925	F 10.22	.9689	.0504
#1	.4952	10.35	.5035	1.001	.4918	10.18	.9670	.0497
#2	.4966	10.46	.5032	1.003	.4932	10.27	.9707	.0510

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 27.71	-.0003	.5201	.5066	F .4992	.3126	13.86	.0013
#1	27.56	-.0008	.5198	.5058	.4991	.3117	13.83	.0013
#2	27.86	.0003	.5204	.5075	.4992	.3135	13.90	.0014

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.006	.0002	.01272
#1	1.006	.0000	.01271
#2	1.006	.0003	.01273

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9903.0	221550.	17930.	899.31
#1	9907.7	221130.	17894.	900.12
#2	9898.4	221970.	17965.	898.50

Sample Name: K1004880-MB Acquired: 6/7/2010 20:23:41 Type: Unk

Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000

User: admin : : :

Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0026	-.0053	.0020	-.0009	-.0003	-.00002	.0031	.0000

#1	-.0026	-.0054	.0013	-.0013	-.0002	-.00001	.0033	.0000
#2	-.0025	-.0052	.0028	-.0005	-.0004	-.00004	.0030	.0000

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	-.0007	-.0003	-.0001	-.0003	-.0002	.0000

#1	.0001	.0001	.0017	-.0003	.0000	-.0002	-.0004	-.0003
#2	.0001	.0001	-.0032	-.0003	-.0003	-.0005	.0001	.0003

Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0037	-.0002	-.0018	-.0036	.0000	.0000	.0001	-.0245

#1	-.0040	.0003	-.0018	-.0043	.0000	.0000	.0002	-.0277
#2	-.0035	-.0008	-.0017	-.0029	.0001	.0000	.0000	-.0213

Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0003	.0212	-.0006	-.0001	.0002	.0002	F .2411

#1	-.0013	.0000	.0170	-.0009	-.0006	.0001	.0002	.2427
#2	.0003	-.0005	.0255	-.0002	.0004	.0003	.0001	.2396

Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0059	-.0001	.0008	-.0008	.00001

#1	-.0068	-.0001	.0008	-.0011	.00003
#2	-.0051	.0000	.0007	-.0004	-.00001

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10022.	225790.	18062.	931.98

#1	10032.	225760.	18088.	931.80
#2	10012.	225820.	18036.	932.16

** Review
normal
6/8/10*

Sample Name: LCSW Acquired: 6/7/2010 20:26:09 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.054	2.606	2.567	5.210	.12732	F .0017	1.270	1.235

#1	5.070	2.603	2.565	5.224	.12743	.0013	1.268	1.234
#2	5.039	2.609	2.568	5.196	.12722	.0020	1.272	1.236

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.248	12.70	11.95	.5143	1.242	.6439	.6306	2.528

#1	1.247	12.69	11.87	.5129	1.240	.6433	.6316	2.527
#2	1.249	12.71	12.02	.5158	1.244	.6446	.6297	2.530

Elem	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.522	12.50	1.280	F .0000	1.243	12.78	2.447	.6341

#1	2.520	12.47	1.279	.0000	1.241	12.80	2.443	.6337
#2	2.524	12.53	1.281	-.0001	1.245	12.75	2.451	.6346

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.62	-.0005	1.283	1.268	1.241	.1764	-.0027	.0000

#1	12.59	-.0002	1.282	1.268	1.240	.1755	-.0012	.0002
#2	12.65	-.0007	1.284	1.268	1.242	.1774	-.0042	-.0001

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.529	-.0006	.00020

#1	2.530	-.0004	.00017
#2	2.528	-.0007	.00023

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9910.2	221440.	18034.	893.30

#1	9913.8	221800.	18008.	893.47
#2	9906.5	221070.	18059.	893.12

Sample Name: LCSW Acquired: 6/7/2010 20:30:09 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D SILICON

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0030	F -.0015	.0016	.0012	F -.0002	-.00003	F .0014	.0000

#1	-0.0032	-.0022	.0007	.0005	-.0001	.00002	.0011	.0000
#2	-0.0029	-.0008	.0025	.0018	-.0002	-.00008	.0016	.0000

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	F .0032	-.0006	F -.0002	.0000	.0000	.0002

#1	.0001	.0001	-.0008	-.0005	-.0002	.0000	.0001	.0009
#2	.0000	.0000	.0071	-.0007	-.0002	.0000	-.0002	-.0006

Elem	Fe2599	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0031	-.0009	-.0030	F -.0041	.0001	.0000	.0003	F -.0704

#1	-0.0032	-.0003	-.0029	-.0033	.0001	.0000	.0003	-.0796
#2	-0.0030	-.0014	-.0030	-.0048	.0001	.0000	.0004	-.0612

Elem	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0001	F 16.76	-.0003	.0004	F .0006	F .0005	.1878

#1	.0021	.0000	16.77	-.0006	.0002	.0006	.0005	.1846
#2	.0004	.0001	16.76	-.0001	.0005	.0006	.0006	.1909

Elem	Si2516	Ti3361	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.07	.0005	.0004	-.0009	-.00002

#1	10.05	.0005	.0006	-.0005	-.00006
#2	10.08	.0005	.0002	-.0012	.00001

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9981.6	224710.	18085.	924.68

#1	9977.6	224600.	18096.	924.02
#2	9985.5	224830.	18074.	925.33

Sample Name: K1004880-001 Acquired: 6/7/2010 20:33:59 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 16.80	.0041	.0112	.2082	.00073	F .0090	-.0003	.0009

#1	16.77	.0042	.0127	.2085	.00070	.0096	-.0004	.0009
#2	16.83	.0040	.0097	.2079	.00076	.0084	-.0003	.0009

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F 13.18	12.45	.0207	.0147	.0892	.0542	F 42.41

#1	.0001	13.24	12.49	.0213	.0146	.0887	.0542	42.52
#2	.0001	13.12	12.42	.0202	.0148	.0897	.0542	42.31

Elem	Pb2203	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184	9.300	F 9.639	1.512	.0004	.0151	2.320	-.0033

#1	.0183	9.364	9.632	1.518	.0005	.0152	2.348	-.0030
#2	.0185	9.236	9.646	1.506	.0004	.0150	2.293	-.0036

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	F 9.185	.0008	.0713	.0710	F .0724	.9591	40.27

#1	-.0001	9.195	.0012	.0714	.0707	.0725	.9570	40.11
#2	-.0002	9.175	.0005	.0712	.0713	.0723	.9611	40.43

Elem	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.9814	.0003	.0087	.06733

#1	.9817	.0001	.0078	.06750
#2	.9811	.0005	.0095	.06716

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10038.	223650.	18205.	912.56

#1	10032.	223120.	18115.	913.79
#2	10044.	224190.	18294.	911.34

Sample Name: K1004880-001D Acquired: 6/7/2010 20:37:57 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 23.33	.0016	.0128	.2221	.00089	F .0096	-.0005	.0010
#1	23.26	.0018	.0121	.2218	.00089	.0087	-.0005	.0010
#2	23.40	.0014	.0134	.2224	.00089	.0106	-.0005	.0010

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	F 13.25	12.52	.0272	.0170	.1016	.0624	F 49.84
#1	.0003	13.24	12.54	.0271	.0169	.1018	.0623	49.69
#2	.0001	13.26	12.50	.0273	.0172	.1013	.0624	49.99

Elem	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214	F 10.73	1.529	.0007	.0197	2.783	-.0041	.0003
#1	.0211	10.75	1.531	.0005	.0197	2.766	-.0029	.0005
#2	.0218	10.71	1.527	.0008	.0198	2.800	-.0054	.0001

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 9.272	.0014	.0877	.0838	F .0858	1.108	48.21	1.346
#1	9.282	.0007	.0880	.0840	.0857	1.108	48.12	1.345
#2	9.261	.0022	.0874	.0836	.0859	1.108	48.31	1.347

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006	.0110	.06998
#1	.0004	.0116	.06990
#2	.0007	.0104	.07006

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10106.	225900.	18316.	917.89
#1	10100.	225990.	18305.	914.18
#2	10112.	225810.	18327.	921.61

Sample Name: K1004880-001S Acquired: 6/7/2010 20:41:49 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 27.89	.3803	.9844	2.243	.05049	.9918	.0492	.0481

#1	27.81	.3800	.9868	2.230	.05057	.9925	.0491	.0482
#2	27.97	.3806	.9821	2.255	.05041	.9912	.0493	.0480

Elem	Cd2288	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0518	F 22.33	.2239	.4927	.3470	.3066	F 48.32	.5071

#1	.0518	22.21	.2243	.4919	.3460	.3049	48.15	.5056
#2	.0519	22.45	.2234	.4934	.3479	.3083	48.49	.5086

Elem	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 20.37	1.930	.9186	.4912	F 12.29	.8886	.0489	F 35.16

#1	20.30	1.935	.9173	.4904	12.28	.8903	.0492	35.05
#2	20.45	1.925	.9200	.4920	12.30	.8869	.0486	35.27

Elem	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.5826	.5851	.5657	1.072	52.80	1.233	.9705

#1	.0015	.5839	.5833	.5654	1.071	52.81	1.234	.9675
#2	.0010	.5813	.5870	.5659	1.073	52.79	1.231	.9734

Elem	Li6707	Sr4077
Units	ppm	ppm
Avg	.0124	.06608

#1	.0141	.06578
#2	.0108	.06637

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9962.3	223640.	18211.	883.78

#1	9968.8	223450.	18264.	885.34
#2	9955.9	223830.	18158.	882.21

Sample Name: K1004880-002 Acquired: 6/7/2010 20:45:39 Type: Unk
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : :
 Comment: 060710D

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 39.45	.0045	.0048	.2871	.00212	F .0124	.0004	.0019

#1	39.56	.0039	.0035	.2866	.00214	.0113	.0004	.0018
#2	39.34	.0051	.0061	.2877	.00211	.0134	.0005	.0019

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	F 14.19	13.38	.0475	.0180	.1016	.0567	F 53.38

#1	.0010	14.15	13.22	.0478	.0180	.1018	.0570	53.24
#2	.0009	14.23	13.53	.0472	.0179	.1014	.0563	53.52

Elem	Pb2203	Mg2852	Mn2576	Mo2020	Ni2216	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0360	F 11.16	.5451	.0003	.0324	2.770	-.0039	.0001

#1	.0360	11.15	.5458	.0003	.0325	2.790	-.0033	.0004
#2	.0359	11.17	.5444	.0003	.0323	2.749	-.0046	-.0002

Elem	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.662	.0029	.1612	.1199	F .1221	1.442	50.64	2.028

#1	5.661	.0029	.1616	.1199	.1221	1.442	50.70	2.029
#2	5.662	.0029	.1608	.1198	.1221	1.442	50.59	2.026

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005	.0223	.12358

#1	.0000	.0225	.12336
#2	.0010	.0222	.12381

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10302.	228300.	18610.	913.65

#1	10310.	228560.	18684.	913.25
#2	10294.	228030.	18536.	914.05

Sample Name: CCVA3 Acquired: 6/7/2010 20:49:35 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2533	.2423	.2528	.2583	.2579	.25286	.2535	.2521	.2519
Stddev	.0004	.0007	.0006	.0001	.0013	.00130	.0014	.0011	.0002
%RSD	.1620	.2781	.2221	.0505	.5134	.51381	.5677	.4196	.0934
#1	.2536	.2428	.2524	.2582	.2589	.25378	.2546	.2514	.2518
#2	.2530	.2419	.2532	.2584	.2570	.25195	.2525	.2529	.2521
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2545	.2550	.2516	.2536	.2520	.2513	.2517	.2565	.2494
Stddev	.0004	.0004	.0007	.0008	.0000	.0006	.0014	.0003	.0016
%RSD	.1453	.1575	.2928	.3213	.0044	.2580	.5464	.1285	.6387
#1	.2542	.2547	.2521	.2531	.2520	.2508	.2526	.2563	.2483
#2	.2547	.2553	.2510	.2542	.2520	.2517	.2507	.2568	.2505
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value									
Range									

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2449	.2474	.2392	.2541	.2431	.2509	.2527	2.474	.2551
Stddev	.0121	.0012	.0003	.0003	.0030	.0002	.0005	.012	.0012
%RSD	4.944	.4964	.1129	.1084	1.233	.0654	.1989	.4664	.4755
#1	.2363	.2482	.2394	.2543	.2409	.2510	.2524	2.483	.2559
#2	.2534	.2465	.2390	.2539	.2452	.2508	.2531	2.466	.2542
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value									
Range									

Sample Name: CCVA3 Acquired: 6/7/2010 20:49:35 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2527	.2105	.2515	.2539	.2523	.2548	.0012	.1227	.2530
Stddev	.0019	.0122	.0004	.0004	.0010	.0003	.0011	.0150	.0004
%RSD	.7637	5.786	.1686	.1450	.4100	.1132	94.33	12.26	.1658
#1	.2541	.2191	.2512	.2541	.2516	.2546	.0020	.1120	.2527
#2	.2514	.2018	.2518	.2536	.2531	.2550	.0004	.1333	.2533

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value									
Range									

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2501	.0006	.00001
Stddev	.0014	.0005	.00006
%RSD	.5591	83.40	930.67
#1	.2491	.0003	-.00004
#2	.2510	.0010	.00005

Check ?	Chk Pass	None	None
Value			
Range			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9961.7	223230.	17713.	927.09
Stddev	18.2	1223.	109.	2.39
%RSD	.18245	.54780	.61451	.25749
#1	9948.8	224090.	17636.	928.77
#2	9974.5	222360.	17790.	925.40

Sample Name: CCVB3 Acquired: 6/7/2010 20:52:27 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.585	10.03	.0018	1.015	10.21	.00005	.0032	-.0001	.0002
Stddev	.004	.08	.0012	.002	.02	.00003	.0001	.0000	.0000
%RSD	.0602	.7666	69.13	.1697	.1677	67.710	2.304	34.10	16.69

#1	6.588	9.977	.0027	1.014	10.20	.00007	.0033	-.0001	.0002
#2	6.582	10.09	.0009	1.016	10.22	.00003	.0031	-.0001	.0002

Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
Value									
Range									

Elem	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	9.991	9.491	-.0005	.0000	.0087	-.0002	9.926	.0003
Stddev	.0002	.087	.013	.0001	.0001	.0006	.0001	.026	.0004
%RSD	3.450	.8682	.1327	16.58	787.0	6.913	51.49	.2617	143.4

#1	.0045	9.930	9.482	-.0005	.0001	.0083	-.0001	9.908	.0005
#2	.0043	10.05	9.500	-.0006	-.0001	.0092	-.0002	9.945	.0000

Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass	None
Value									
Range									

Elem	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020	Ni2216	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.06	9.664	9.735	.0004	-.0001	.0002	.0004	9.873	-.0030
Stddev	.05	.010	.070	.0001	.0002	.0002	.0002	.072	.0005
%RSD	.5199	.1003	.7245	19.27	253.1	92.37	43.45	.7340	16.78

#1	10.03	9.671	9.686	.0004	.0001	.0001	.0005	9.822	-.0027
#2	10.10	9.658	9.785	.0005	-.0003	.0003	.0003	9.925	-.0034

Check ?	Chk Pass	None	Chk Pass	None	None	None	None	Chk Pass	None
Value									
Range									

Sample Name: CCVB3 Acquired: 6/7/2010 20:52:27 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Ag3280	Na5895	Sn1899	V_2924	Zn2062	Zn2138	P_2149	Si2516	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	9.802	-.0008	.0001	-.0002	.0000	10.22	9.774	.0003
Stddev	.0004	.083	.0008	.0000	.0000	.000	.01	.027	.0001
%RSD	152.5	.8437	95.50	56.87	3.033	909.4	.1455	.2786	54.84
#1	.0000	9.744	-.0014	.0001	-.0002	.0000	10.21	9.755	.0002
#2	.0005	9.861	-.0003	.0000	-.0002	.0000	10.23	9.793	.0003
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	Chk Pass	None
Value									
Range									

Elem	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0004	.9746	.99974
Stddev	.0003	.0106	.00721
%RSD	74.18	1.087	.72089
#1	.0002	.9671	.99465
#2	.0007	.9821	1.0048
Check ?	None	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9909.4	221010.	17698.	892.72
Stddev	5.4	971.	7.	4.00
%RSD	.05470	.43949	.04172	.44828
#1	9913.3	220320.	17703.	895.55
#2	9905.6	221700.	17693.	889.89

Sample Name: CCB3 Acquired: 6/7/2010 20:56:32 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0036	-.0045	.0018	.0015	.0004	.00003	.0010	.0000
Stddev	.0001	.0010	.0002	.0010	.0001	.00001	.0001	.0000
%RSD	2.977	21.28	12.29	65.96	24.38	33.853	9.271	27.30
#1	-.0035	-.0051	.0020	.0008	.0005	.00002	.0011	.0000
#2	-.0036	-.0038	.0017	.0022	.0004	.00004	.0009	.0000

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020							
Low Limit	-.0020							

Elem	Cd2265	Cd2288	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	.0007	-.0025	-.0005	-.0002	-.0002	.0000
Stddev	.0000	.0000	.0035	.0000	.0003	.0001	.0002	.0000
%RSD	88.11	6.630	536.0	1.870	62.68	30.57	105.8	36.32
#1	.0000	.0000	-.0018	-.0025	-.0008	-.0002	.0000	.0000
#2	.0000	.0000	.0032	-.0026	-.0003	-.0001	-.0003	.0000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Fe2599	Pb2203	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	.0001	-.0041	F -.0045	-.0050	.0002	.0009	.0000
Stddev	.0014	.0000	.0107	.0001	.0004	.0000	.0001	.000
%RSD	45.47	65.38	262.7	1.334	8.636	11.50	12.14	518.8
#1	-.0020	.0000	-.0116	-.0044	-.0053	.0002	.0009	-.0002
#2	-.0040	.0001	.0035	-.0045	-.0047	.0001	.0008	.0001

Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020				
Low Limit				-.0020				

Sample Name: CCB3 Acquired: 6/7/2010 20:56:32 Type: QC
 Method: 2010b2007(v6) Mode: CONC Corr. Factor: 1.000000
 User: admin : : :
 Comment: 060710D

Elem	Ni2216	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0378	.0000	.0003	-.0260	-.0003	-.0002	.0000
Stddev	.0000	.0171	.002	.0006	.0048	.0001	.0002	.0001
%RSD	27.32	45.21	103700.	180.4	18.31	37.15	76.67	712.3
#1	.0001	-.0257	-.0016	.0007	-.0227	-.0002	-.0003	.0001
#2	.0001	-.0499	.0016	-.0001	-.0294	-.0003	-.0001	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Zn2138	P_2149	Si2516	Ti3361	Ti1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0031	-.0067	.0000	.0007	.0013	-.00004
Stddev	.0001	.0007	.0072	.000	.0007	.0001	.00005
%RSD	70.87	21.60	106.0	844.9	98.30	9.719	143.70
#1	-.0001	.0035	-.0118	-.0001	.0002	.0014	.00000
#2	-.0002	.0026	-.0017	.0000	.0011	.0012	-.00007

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	Y_2243	Y_3600	Y_3600-2	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9886.1	222700.	17701.	910.68
Stddev	2.8	286.	9.	1.84
%RSD	.02865	.12860	.05289	.20173
#1	9888.1	222490.	17694.	911.98
#2	9884.1	222900.	17707.	909.39

Service Request K1004934 _____
 Calibration _____ 060410D _____
 QC in calibration 060410D _____
 QC Service Request # K1004934 _____
 STARLIMS Batch # 203621 _____

ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	<u> X </u>	<u> </u>	<u> </u>
2. ICV within 10 % of true value	<u> X </u>	<u> </u>	<u> </u>
3. CCV's in control	<u> X </u>	<u> </u>	<u> </u>
4. CCB's and/or ICB's below MRL	<u> X </u>	<u> </u>	<u> </u>
5. Method blank below MRL	<u> X </u>	<u> </u>	<u> </u>
6. LCS in control	<u> X </u>	<u> </u>	<u> </u>
7. Spike and duplicate in control	<u> X </u>	<u> </u>	<u> </u>
8. All analytes within instrument linear range	<u> X </u>	<u> </u>	<u> </u>
9. Adequate rinse out time allowed	<u> X </u>	<u> </u>	<u> </u>
10. Internal standards in control	<u> X </u>	<u> </u>	<u> </u>
11. Interferences checked	<u> X </u>	<u> </u>	<u> </u>
12. Se over MRL	<u> </u>	<u> X </u>	<u> </u>
13. CRA run	<u> X </u>	<u> </u>	<u> </u>
14. ICSA and ICSAB in control	<u> </u>	<u> </u>	<u> X </u>
15. Serial dilution run	<u> </u>	<u> </u>	<u> X </u>
16. Post spike in control	<u> </u>	<u> </u>	<u> X </u>

Comments: 060710B BQC

Primary Review by B

Date 6/7/10

Secondary Review by JPB

Date 6/7/10

R:\icplmisc\data review forms\IPQ ExCell review form

Sample List

Num	Label	Type	Weight	Volume	Dilution	Rack	Row	Column	Height
1	Cal. Blk	Blank	0 kg	0 ml	1.00	0	1	1	145
2	Cal Std	Fully Quant Standard	0 kg	0 ml	1.00	0	1	2	145
3	ICV1	Unknown	0 kg	0 ml	1.00	0	1	3	145
4	CCV1	Unknown	0 kg	0 ml	1.00	0	1	2	145
5	ICB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
6	CCB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
7	SOIL CRA	Unknown	0 kg	0 ml	1.00	0	1	4	145
8	K1004934-MB	Unknown	0 kg	0 ml	1.00	1	1	1	145
9	LCSW K1004934	Unknown	0 kg	0 ml	1.00	1	1	2	145
10	K1004934-005	Unknown	0 kg	0 ml	1.00	1	1	3	145
11	K1004934-005D	Unknown	0 kg	0 ml	1.00	1	1	4	145
12	K1004934-005S	Unknown	0 kg	0 ml	1.00	1	1	5	145
13	K1004934-006	Unknown	0 kg	0 ml	1.00	1	1	6	145
14	K1004934-007	Unknown	0 kg	0 ml	1.00	1	1	7	145
15	K1004934-008	Unknown	0 kg	0 ml	1.00	1	1	8	145
16	CCV2	Unknown	0 kg	0 ml	1.00	0	1	2	145
17	CCB2	Unknown	0 kg	0 ml	1.00	0	1	1	145
18	K1004870-001	Unknown	0 kg	0 ml	1.00	1	1	9	145
19	K1004870-002	Unknown	0 kg	0 ml	1.00	1	1	10	145
20	K1004870-003	Unknown	0 kg	0 ml	1.00	1	1	11	145
21	K1004870-004	Unknown	0 kg	0 ml	1.00	1	1	12	145
22	K1005067-002	Unknown	0 kg	0 ml	1.00	1	2	1	145
23	K1005067-003	Unknown	0 kg	0 ml	1.00	1	2	2	145
24	K1005067-004	Unknown	0 kg	0 ml	1.00	1	2	3	145
25	CCV3	Unknown	0 kg	0 ml	1.00	0	1	2	145
26	CCB3	Unknown	0 kg	0 ml	1.00	0	1	1	145

Instrument Setup - Sample Configuration

Sample	Configuration	Date
All Samples	acqmet11	17:39:30 6/4/10

Instrument Setup - Configurations

Configuration Name - acqmet11

Description - PQExcell CCT Sim Default

Date - 17:39:30 6/4/10

Maximum Uptake Time - 0

Maximum Washout Time - 0

S-Option Pump Running - No

Plasma Screen Forward - No

Makeup Gas On - No

Use CCT - No

Use Accessory Gas - No

Setting	Value
Extraction	-450.00
Lens1	5.00
Lens2	-60.00
Lens3	-25.00
Pole Bias	5.00
Sampling Depth	400.00
Horizontal	-40.00
Vertical	105.00
Cool	13.00
Auxiliary	0.80
Nebuliser	0.82
Forward power	1,365.00
HT1 Voltage	1,900.00
HT2 Voltage	2,600.00
D1	-40.00
Focus	8.00

					Masses in
Mass	Mass DAC	Peak Width (AMU)	Error (AMU)	Include	Tune Solution
6.015	1303	0.715	0.015	TRUE	
7.016	1550	0.715	-0.015	TRUE	Li-7
9.012	2057	0.715	-0.019	TRUE	Be-9
23.985	5876	0.715	0.015	TRUE	Mg-24
24.986	6129	0.664	0.009	TRUE	Co-59
25.983	6383	0.715	0.01	TRUE	In-115
26.982	6636	0.664	0.005	TRUE	Ce-140
43.956	10966	0.715	0.042	TRUE	Pb-208
45.953	11460	0.715	-0.015	TRUE	Bi-209
51.94	12987	0.766	-0.004	TRUE	U-238
53.949	13501	0.715	0.006	TRUE	
55.935	14008	0.715	0.012	TRUE	
56.935	14255	0.715	-0.018	TRUE	
57.934	14515	0.715	0.004	TRUE	
58.933	14762	0.715	-0.025	TRUE	
65.926	16543	0.715	-0.023	TRUE	
75.92	19091	0.715	-0.011	TRUE	
112.904	28505	0.714	-0.036	TRUE	
114.904	29018	0.663	-0.022	TRUE	
128.905	32593	0.663	0.008	TRUE	
130.905	33107	0.612	0.025	TRUE	
131.905	33360	0.663	0.018	TRUE	
139.905	35401	0.663	0.026	TRUE	
141.908	35908	0.663	0.013	TRUE	
155.923	39477	0.612	0.001	TRUE	
157.924	39984	0.612	-0.011	TRUE	
203.973	51729	0.561	0.004	TRUE	
205.974	52236	0.561	-0.01	TRUE	
206.976	52496	0.561	0.008	TRUE	
207.977	52750	0.612	0.003	TRUE	
208.98	53003	0.561	-0.009	TRUE	
238.051	60420	0.51	-0.005	TRUE	

Excluded in Caltb	Excluded in Results	Cal	Multi Element	Standard	Internal Standard	Standard Addition		
Uncorrected ICPS Per Mass								
			S-Calibration Has Edited Standard F-Interference Correction Failed	E-Calibration Edited T-Tripped	I-Invalid Calibration P-Pulse Counting	V-Valley Integration Failed M-Result Over Max		
Run	Label	TimeStamp	59Li	7Li	9Be	59Co	115In	208Pb
1	Stability 06-04-2010	6/4/2010 7:33:36 AM	(P)0.167	(P)29496.589	(P)5950.906	(P)39276.923	(P)92108.524	(P)46202.597
2	Stability 06-04-2010	6/4/2010 7:34:52 AM	(P)0.333	(P)29334.755	(P)5919.393	(P)39982.877	(P)92887.192	(P)46964.743
3	Stability 06-04-2010	6/4/2010 7:36:07 AM	(P)0.333	(P)29629.195	(P)5989.589	(P)40965.491	(P)94234.119	(P)46997.688
4	Stability 06-04-2010	6/4/2010 7:37:22 AM	(P)0.333	(P)29623.182	(P)6048.947	(P)41215.041	(P)94785.600	(P)47413.222
5	Stability 06-04-2010	6/4/2010 7:38:37 AM	(P)0.333	(P)30026.357	(P)5890.881	(P)41029.011	(P)94505.403	(P)47220.920
	Mean of Stability 06-04	6/4/2010 7:33:36 AM	(P)0.300	(P)29622.016	(P)5959.943	(P)40493.868	(P)93704.168	(P)46959.834
	SD of Stability 06-04-20		(P)0.075	(P)255.830	(P)61.839	(P)832.311	(P)1151.722	(P)460.595
	%RSD of Stability 06		(P)24.845	(P)0.864	(P)1.038	(P)2.055	(P)1.229	(P)0.981

Run	Label	TimeStamp	209Bi	230Bi	238U
1	Stability 06-04-2010	6/4/2010 7:33:36 AM	(P)75278.990	(P)0.333	(P)72823.022
2	Stability 06-04-2010	6/4/2010 7:34:52 AM	(P)76036.666	(P)0.000	(P)73955.302
3	Stability 06-04-2010	6/4/2010 7:36:07 AM	(P)76369.601	(P)0.000	(P)74474.170
4	Stability 06-04-2010	6/4/2010 7:37:22 AM	(P)76620.946	(P)0.000	(P)75370.876
5	Stability 06-04-2010	6/4/2010 7:38:37 AM	(P)76709.750	(P)0.500	(P)75509.881
	Mean of Stability 06-04	6/4/2010 7:33:36 AM	(P)76203.191	(P)0.167	(P)74426.650
	SD of Stability 06-04-20		(P)578.941	(P)0.236	(P)1102.384
	%RSD of Stability 06		(P)0.760	(P)141.421	(P)1.481

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		Cal. Blk			Mean	SD	%RSD
TimeStamp		6/4/10 17:43					
Antimony	121	-0.0012	0.0003	0.0008	0	0.001	0
Antimony	123	0.0006	-0.0001	-0.0005	0	0.0006	0
Arsenic	75	-0.0414	0.0638	-0.0225	0	0.0561	0
Beryllium	9	0.0003	-0.0004	0.0001	0	0.0004	0
Cadmium	111	-0.0002	-0.0005	0.0007	0	0.0006	0
Cadmium	114	0.001	-0.0005	-0.0006	0	0.0009	0
Chromium	52	-0.0059	0.0007	0.0052	0	0.0056	0
Chromium	53	0.0008	0.0021	-0.0029	0	0.0026	0
Cobalt	59	-0.0003	0.0003	0	0	0.0003	0
Copper	63	-0.0078	0.0007	0.0071	0	0.0075	0
Copper	65	-0.0011	0.0041	-0.0031	0	0.0037	0
Lead	206	-0.0003	0.0014	-0.0011	0	0.0013	0
Lead	207	0.0005	0.0009	-0.0013	0	0.0012	0
Lead	208	-0.0001	0.0002	-0.0002	0	0.0002	0
Molybdenum	95	-0.0009	0.0011	-0.0002	0	0.001	0
Molybdenum	97	-0.0009	-0.0002	0.001	0	0.0009	0
Molybdenum	98	-0.0002	0.0009	-0.0006	0	0.0008	0
Nickel	60	-0.0077	0.0101	-0.0024	0	0.0092	0
Nickel	62	-0.0363	0.0396	-0.0033	0	0.038	0
Selenium	77	-0.0408	0.0264	0.0144	0	0.0359	0
Selenium	78	-0.007	0.0342	-0.0272	0	0.0313	0
Selenium	82	-0.175	0.2338	-0.0589	0	0.2107	0
Silver	107	0.0016	-0.001	-0.0006	0	0.0014	0
Silver	109	-0.0004	-0.0002	0.0006	0	0.0006	0
Thallium	203	0.0023	-0.0008	-0.0016	0	0.0021	0
Thallium	205	0.0022	-0.0014	-0.0007	0	0.0019	0
Vanadium	51	-0.003	-0.0015	0.0045	0	0.004	0
Zinc	66	0.0058	0.0028	-0.0086	0	0.0076	0
Zinc	67	-0.0348	0.0104	0.0244	0	0.031	0
Zinc	68	0.006	-0.0088	0.0027	0	0.0078	0

Internal Standard Factors:

Lithium	6	0.944	1.009	1.053	0.944 n/a	n/a
Scandium	45	0.944	1.026	1.035	0.944 n/a	n/a
Gallium	71	0.935	1.043	1.029	0.935 n/a	n/a
Rhodium	103	0.977	1.004	1.02	0.977 n/a	n/a
Indium	115	0.969	1.016	1.017	0.969 n/a	n/a
Lutetium	175	0.983	0.996	1.022	0.983 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name: TimeStamp	Cal Std 6/4/10 17:47	Mean	SD	%RSD		
Antimony 121	24.59	24.98	25.43	25	0.4226	1.691
Antimony 123	24.83	24.97	25.2	25	0.1853	0.7413
Arsenic 75	25.41	24.91	24.67	25	0.379	1.516
Beryllium 9	24.86	24.94	25.21	25	0.1821	0.7285
Cadmium 111	24.66	25.24	25.11	25	0.3039	1.216
Cadmium 114	24.78	24.53	25.69	25	0.6102	2.441
Chromium 52	25.08	25.01	24.91	25	0.083	0.3318
Chromium 53	25.33	24.78	24.89	25	0.2878	1.151
Cobalt 59	24.69	25.21	25.09	25	0.2717	1.087
Copper 63	25.45	24.24	25.31	25	0.6629	2.651
Copper 65	25.71	24.79	24.5	25	0.6338	2.535
Lead 206	24.98	24.99	25.03	25	0.0266	0.1064
Lead 207	24.34	25.55	25.11	25	0.6155	2.462
Lead 208	24.72	25.04	25.24	25	0.2635	1.054
Molybdenum 95	25.22	24.99	24.79	25	0.2166	0.8664
Molybdenum 97	24.89	25.33	24.78	25	0.2893	1.157
Molybdenum 98	25.44	24.7	24.86	25	0.3912	1.565
Nickel 60	25.21	24.84	24.95	25	0.1878	0.7514
Nickel 62	25.17	24.75	25.08	25	0.2221	0.8884
Selenium 77	25.39	24.82	24.78	25	0.3406	1.362
Selenium 78	25.4	24.83	24.76	25	0.3498	1.399
Selenium 82	25.64	25.22	24.14	25	0.7772	3.109
Silver 107	25.03	25.21	24.76	25	0.2308	0.923
Silver 109	24.74	25.22	25.04	25	0.2394	0.9575
Thallium 203	24.95	25.13	24.92	25	0.1112	0.4448
Thallium 205	25.08	24.92	25	25	0.0764	0.3057
Vanadium 51	25.04	24.93	25.03	25	0.0574	0.2295
Zinc 66	25.34	25.17	24.49	25	0.4495	1.798
Zinc 67	24.8	25.71	24.49	25	0.6318	2.527
Zinc 68	25.18	24.5	25.32	25	0.4392	1.757

**Internal Standard
Factors:**

Lithium 6	0.999	1.003	1.034	0.999	n/a	n/a
Scandium 45	0.973	1.037	1.081	0.973	n/a	n/a
Gallium 71	0.979	1.017	1.009	0.979	n/a	n/a
Rhodium 103	0.974	1.024	1.03	0.974	n/a	n/a
Indium 115	0.969	1.012	1.039	0.969	n/a	n/a
Lutetium 175	0.985	1.015	1.022	0.985	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	ICV1				Mean	SD	%RSD
TimeStamp	6/4/10 17:56						
Antimony	121	23.06	24.91	24.14	24.04	0.9289	3.865
Antimony	123	23.63	23.83	23.68	23.72	0.1056	0.4454
Arsenic	75	24.48	25.56	24.85	24.96	0.5495	2.201
Beryllium	9	2.676	2.611	2.462	2.583	0.11	4.26
Cadmium	111	12.15	12.44	12.29	12.29	0.1413	1.149
Cadmium	114	13.31	13.38	13.11	13.27	0.1448	1.091
Chromium	52	10.08	9.795	9.8	9.892	0.1634	1.652
Chromium	53	11.34	11.39	10.66	11.13	0.4062	3.649
Cobalt	59	25.3	25.22	24.24	24.92	0.5901	2.368
Copper	63	12.71	12.8	12.77	12.76	0.0434	0.3401
Copper	65	12.49	12.78	12.17	12.48	0.3055	2.447
Lead	206	24.05	23.56	24.1	23.9	0.2982	1.248
Lead	207	25.89	26.15	25.36	25.8	0.4021	1.558
Lead	208	25.45	24.91	24.96	25.1	0.2977	1.186
Molybdenum	95	24	26.05	24.7	24.92	1.043	4.184
Molybdenum	97	24.31	25.1	24.95	24.79	0.4167	1.681
Molybdenum	98	23.91	25.27	24.24	24.47	0.7099	2.901
Nickel	60	25.17	24.76	24.64	24.86	0.2826	1.137
Nickel	62	24.69	25.61	24.4	24.9	0.6331	2.542
Selenium	77	25.33	25.45	25.41	25.4	0.059	0.2323
Selenium	78	25.32	25.27	26.26	25.62	0.5593	2.183
Selenium	82	23.56	25.4	25.24	24.73	1.021	4.128
Silver	107	11.83	12.81	12.29	12.31	0.4918	3.995
Silver	109	12.78	13.21	12.8	12.93	0.245	1.895
Thallium	203	25.35	24.52	24.81	24.89	0.4208	1.691
Thallium	205	24.94	25.35	24.05	24.78	0.6613	2.669
Vanadium	51	26.38	25.13	25.61	25.71	0.6289	2.446
Zinc	66	26.95	26.09	26.06	26.37	0.5082	1.927
Zinc	67	28.24	28.81	28.48	28.51	0.2859	1.003
Zinc	68	28.85	28.7	28.98	28.84	0.1365	0.4732

Internal Standard Factors:

Lithium	6	0.989	1.059	1.04	0.989	n/a	n/a
Scandium	45	1.01	1.072	1.082	1.01	n/a	n/a
Gallium	71	0.951	1.02	1.041	0.951	n/a	n/a
Rhodium	103	0.948	1.061	1.033	0.948	n/a	n/a
Indium	115	0.967	1.036	1.021	0.967	n/a	n/a
Lutetium	175	0.987	1.008	1.009	0.987	n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 06-04-10D

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #203621

Sample Name:		CCV1			Mean	SD	%RSD
TimeStamp		6/4/10 17:59					
Antimony	121	26.25	25.8	23.68	25.24	1.373	5.44
Antimony	123	24.18	24.4	24.99	24.52	0.4207	1.716
Arsenic	75	25.83	25.68	23.5	25.01	1.306	5.224
Beryllium	9	27.13	25.18	24.07	25.46	1.548	6.082
Cadmium	111	24.56	25.68	25.08	25.11	0.5622	2.239
Cadmium	114	25.97	26.2	23.31	25.16	1.603	6.37
Chromium	52	24.19	25.49	24.52	24.73	0.6731	2.721
Chromium	53	25.8	25.76	24.08	25.22	0.9809	3.89
Cobalt	59	26.11	26.68	24.46	25.75	1.153	4.476
Copper	63	25.45	25.09	23.84	24.79	0.8415	3.394
Copper	65	25.43	25.61	25.3	25.45	0.1544	0.6068
Lead	206	24.07	23.45	24.62	24.05	0.5834	2.426
Lead	207	23.67	24.65	25.94	24.75	1.138	4.597
Lead	208	24.03	23.95	24.62	24.2	0.3657	1.511
Molybdenum	95	24.87	25.3	24.94	25.03	0.2302	0.9194
Molybdenum	97	25.13	24.78	24.93	24.95	0.176	0.7054
Molybdenum	98	24.67	25.28	25.37	25.11	0.3799	1.513
Nickel	60	25.33	25.37	24.51	25.07	0.488	1.947
Nickel	62	25.31	25.43	24.22	24.99	0.6635	2.655
Selenium	77	25.11	25.12	25.41	25.22	0.1717	0.681
Selenium	78	26.02	24.51	24.88	25.14	0.7879	3.134
Selenium	82	24.99	25.47	24.31	24.92	0.5822	2.336
Silver	107	24.55	25.08	24.92	24.85	0.2714	1.092
Silver	109	26.02	25.44	24.28	25.25	0.8836	3.5
Thallium	203	23.49	23.32	24.17	23.66	0.4514	1.908
Thallium	205	23.25	24.44	24.76	24.15	0.7975	3.302
Vanadium	51	25.31	25.83	24.27	25.14	0.7912	3.147
Zinc	66	25.68	25.04	23.51	24.74	1.111	4.492
Zinc	67	25.13	25.33	25.39	25.28	0.1373	0.5432
Zinc	68	26.39	25.56	23.63	25.19	1.418	5.628

Internal Standard Factors:

Lithium	6	1.008	1.019	1.01	1.008	n/a	n/a
Scandium	45	1.024	1.103	1.054	1.024	n/a	n/a
Gallium	71	0.995	1.036	1.001	0.995	n/a	n/a
Rhodium	103	1.009	1.048	1.063	1.009	n/a	n/a
Indium	115	0.997	1.052	0.993	0.997	n/a	n/a
Lutetium	175	0.945	0.973	1.003	0.945	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		ICB1			Mean	SD	%RSD
TimeStamp		6/4/10 18:13					
Antimony	121	0.0105	0.0098	0.0093	0.0099	0.0006	6.102
Antimony	123	0.0096	0.0131	0.0093	0.0107	0.0021	19.54
Arsenic	75	-0.0199	-0.0301	-0.0168	-0.0223	0.007	31.36
Beryllium	9	0.0011	0.0012	0.0018	0.0014	0.0004	26.08
Cadmium	111	0.001	0.0007	0.0007	0.0008	0.0002	25.48
Cadmium	114	0.0004	0.0004	0.0013	0.0007	0.0005	78.33
Chromium	52	0.0173	-0.0085	0.0198	0.0095	0.0157	164.3
Chromium	53	0.0031	0.0157	0.002	0.0069	0.0076	109.6
Cobalt	59	-0.0001	0.0009	0.0027	0.0012	0.0014	123.1
Copper	63	-0.0042	0.0037	0.0005	0	0.004	12790
Copper	65	0.001	0.0053	-0.0009	0.0018	0.0032	176
Lead	206	0.0016	0.0025	0.0009	0.0017	0.0008	48.16
Lead	207	0.0045	0.0057	0.0016	0.0039	0.0021	53.89
Lead	208	0.0025	0.0033	0.0012	0.0023	0.0011	46.13
Molybdenum	95	0.0004	0.0002	0.0012	0.0006	0.0005	90.24
Molybdenum	97	-0.0013	-0.0016	-0.0005	-0.0011	0.0006	53.81
Molybdenum	98	0	0.0006	-0.0006	0	0.0006	2637
Nickel	60	-0.0032	-0.0015	-0.0197	-0.0081	0.01	122.8
Nickel	62	-0.0314	-0.0008	-0.0217	-0.018	0.0156	87.07
Selenium	77	0.0572	0.1038	0.0485	0.0699	0.0298	42.62
Selenium	78	-0.2011	-0.1437	-0.0767	-0.1405	0.0622	44.3
Selenium	82	-0.0204	0.0006	-0.0209	-0.0136	0.0123	90.31
Silver	107	0.003	0.0028	0.003	0.0029	0.0001	3.356
Silver	109	0.0039	0.0024	0.0029	0.003	0.0008	25.16
Thallium	203	-0.0046	-0.0014	-0.0043	-0.0034	0.0018	51.71
Thallium	205	-0.0041	-0.0046	-0.0055	-0.0047	0.0007	14.92
Vanadium	51	0.0089	-0.0064	0.0103	0.0043	0.0092	216.1
Zinc	66	0.0021	0.0109	0.0108	0.0079	0.005	63.71
Zinc	67	0.0084	-0.0153	-0.0438	-0.0169	0.0261	154.7
Zinc	68	0.0173	0.0406	0.0119	0.0232	0.0153	65.81

Internal Standard Factors:

Lithium	6	0.83	0.933	0.975	0.83 n/a	n/a
Scandium	45	0.879	1.004	1.036	0.879 n/a	n/a
Gallium	71	0.893	0.994	1.009	0.893 n/a	n/a
Rhodium	103	0.912	1.012	1.023	0.912 n/a	n/a
Indium	115	0.919	0.984	0.991	0.919 n/a	n/a
Lutetium	175	0.91	0.975	0.961	0.91 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCB1			Mean	SD	%RSD	
TimeStamp	6/4/10 18:17						
Antimony	121	0.0074	0.0054	0.0072	0.0067	0.0011	17.07
Antimony	123	0.0089	0.005	0.0058	0.0066	0.0021	31.44
Arsenic	75	0.0022	0.0111	0.0586	0.0239	0.0303	126.6
Beryllium	9	0.0014	0.0028	0.0002	0.0015	0.0013	90.73
Cadmium	111	0.0018	0.0004	0.0013	0.0012	0.0007	58.18
Cadmium	114	0.0004	0.0008	0.0025	0.0012	0.0011	86.93
Chromium	52	0.0085	0.033	0.0336	0.025	0.0143	57.15
Chromium	53	0.0005	0.0053	0.0113	0.0057	0.0054	94.31
Cobalt	59	0.0009	-0.0012	0.0017	0.0005	0.0015	299.9
Copper	63	-0.0021	-0.0047	0.0004	-0.0021	0.0026	121.2
Copper	65	0.0061	-0.002	0.0111	0.005	0.0066	131.2
Lead	206	-0.0005	0.0007	0.0046	0.0016	0.0027	167.4
Lead	207	-0.0011	0.0013	0.004	0.0014	0.0025	182
Lead	208	-0.0003	0.001	0.0037	0.0015	0.002	137.9
Molybdenum	95	-0.001	-0.0016	0.0012	-0.0005	0.0014	310.7
Molybdenum	97	-0.0033	-0.0026	-0.001	-0.0023	0.0012	52.62
Molybdenum	98	-0.0015	-0.0004	-0.0012	-0.001	0.0005	53.13
Nickel	60	-0.0023	-0.0145	0.0014	-0.0051	0.0083	161.7
Nickel	62	0.0324	0.0103	0.0909	0.0445	0.0416	93.54
Selenium	77	0.1246	0.013	0.0323	0.0566	0.0597	105.3
Selenium	78	-0.3303	-0.1066	-0.06	-0.1656	0.1445	87.23
Selenium	82	0.105	0.0286	0.2123	0.1153	0.0923	80.02
Silver	107	0.0012	0.0009	0	0.0007	0.0006	84.18
Silver	109	0.0007	0.0002	0.0011	0.0007	0.0005	72.28
Thallium	203	-0.0055	-0.0042	-0.0048	-0.0048	0.0006	13.4
Thallium	205	-0.0062	-0.0074	-0.0066	-0.0067	0.0006	9.056
Vanadium	51	0.0052	0.0123	0.012	0.0098	0.004	40.55
Zinc	66	-0.0078	-0.0143	0.0265	0.0014	0.0219	1530
Zinc	67	-0.0238	-0.0248	0.0169	-0.0106	0.0238	225.5
Zinc	68	0.019	0.015	0.0501	0.028	0.0192	68.51

Internal Standard Factors:

Lithium	6	0.923	0.991	0.982	0.923 n/a	n/a
Scandium	45	0.95	1.008	1.046	0.95 n/a	n/a
Gallium	71	0.939	0.991	1.051	0.939 n/a	n/a
Rhodium	103	0.967	1.036	1.051	0.967 n/a	n/a
Indium	115	0.972	1.009	1	0.972 n/a	n/a
Lutetium	175	0.948	0.982	0.989	0.948 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		SOIL CRA			Mean	SD	%RSD
TimeStamp		6/4/10 18:21					
Antimony	121	0.0524	0.0567	0.0519	0.0537	0.0026	4.9
Antimony	123	0.0556	0.0555	0.0554	0.0555	0.0001	0.141
Arsenic	75	0.5633	0.4813	0.5331	0.5259	0.0415	7.881
Beryllium	9	0.0159	0.0182	0.0141	0.0161	0.0021	12.78
Cadmium	111	0.0197	0.0238	0.0178	0.0204	0.0031	15.11
Cadmium	114	0.018	0.0234	0.0208	0.0207	0.0027	12.88
Chromium	52	0.2324	0.2165	0.1907	0.2132	0.0211	9.886
Chromium	53	0.208	0.2094	0.2181	0.2118	0.0055	2.573
Cobalt	59	0.0199	0.0204	0.0209	0.0204	0.0005	2.401
Copper	63	0.1091	0.1074	0.0994	0.1053	0.0052	4.921
Copper	65	0.1007	0.0986	0.118	0.1058	0.0106	10.05
Lead	206	0.0227	0.0221	0.0246	0.0231	0.0013	5.57
Lead	207	0.0179	0.0246	0.0215	0.0213	0.0034	15.88
Lead	208	0.0209	0.0237	0.0212	0.0219	0.0015	7.042
Molybdenum	95	0.0485	0.0515	0.0423	0.0474	0.0047	9.917
Molybdenum	97	0.0452	0.0446	0.0478	0.0459	0.0017	3.663
Molybdenum	98	0.0407	0.0469	0.0442	0.0439	0.0031	7.122
Nickel	60	0.2026	0.1812	0.1869	0.1902	0.0111	5.842
Nickel	62	0.2076	0.2273	0.2132	0.216	0.0102	4.716
Selenium	77	1.022	1.128	1.048	1.066	0.0555	5.209
Selenium	78	1.111	0.993	0.7752	0.9598	0.1704	17.76
Selenium	82	1.246	0.9381	1.038	1.074	0.157	14.62
Silver	107	0.0198	0.0212	0.0208	0.0206	0.0007	3.509
Silver	109	0.0227	0.0203	0.0198	0.021	0.0015	7.337
Thallium	203	0.0142	0.0171	0.0172	0.0162	0.0017	10.76
Thallium	205	0.0106	0.0105	0.0116	0.0109	0.0006	5.5
Vanadium	51	0.2165	0.2048	0.189	0.2034	0.0138	6.796
Zinc	66	0.492	0.4608	0.4658	0.4729	0.0168	3.547
Zinc	67	0.4586	0.4942	0.4597	0.4708	0.0202	4.294
Zinc	68	0.4471	0.494	0.4929	0.478	0.0268	5.598

Internal Standard Factors:

Lithium	6	0.935	0.98	1.012	0.935 n/a	n/a
Scandium	45	0.977	1.046	1.027	0.977 n/a	n/a
Gallium	71	0.959	1.006	1.009	0.959 n/a	n/a
Rhodium	103	0.994	1.009	1.023	0.994 n/a	n/a
Indium	115	0.961	1.009	0.999	0.961 n/a	n/a
Lutetium	175	0.972	0.994	1.007	0.972 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004934-MB			Mean	SD	%RSD
TimeStamp		6/4/10 18:25					
Antimony	121	0.0029	0.003	0.0035	0.0031	0.0004	11.72
Antimony	123	0.0037	0.0023	0.0035	0.0032	0.0008	23.68
Arsenic	75	0.0382	0.0169	0.0026	0.0192	0.0179	93.31
Beryllium	9	-0.0007	0.0017	0.0007	0.0006	0.0012	211.5
Cadmium	111	0.0001	-0.0014	0.0004	-0.0003	0.001	319.2
Cadmium	114	-0.001	-0.0006	-0.0003	-0.0007	0.0003	51.6
Chromium	52	0.1164	0.1098	0.067	0.0978	0.0268	27.43
Chromium	53	0.0124	0.0045	0.0138	0.0102	0.005	49.33
Cobalt	59	-0.0021	-0.0002	0.0006	-0.0006	0.0014	231.9
Copper	63	-0.0178	-0.0166	-0.0143	-0.0162	0.0018	11.1
Copper	65	-0.0081	-0.0132	-0.0063	-0.0092	0.0036	38.74
Lead	206	-0.0021	-0.0011	-0.0004	-0.0012	0.0009	71.54
Lead	207	-0.0016	0	-0.0036	-0.0017	0.0018	104.9
Lead	208	-0.0021	-0.0019	-0.0026	-0.0022	0.0003	14.59
Molybdenum	95	-0.0013	-0.0015	-0.0032	-0.002	0.001	51.51
Molybdenum	97	-0.0042	-0.0052	-0.0044	-0.0046	0.0005	10.7
Molybdenum	98	-0.0017	-0.0018	-0.0031	-0.0022	0.0008	34.5
Nickel	60	-0.0253	-0.0224	-0.0379	-0.0285	0.0082	28.9
Nickel	62	-0.0571	0.0055	0.0126	-0.013	0.0384	295.1
Selenium	77	-0.0061	0.0606	0.0699	0.0415	0.0414	99.86
Selenium	78	-0.1098	0.0042	0.0055	-0.0334	0.0662	198.4
Selenium	82	0.1165	0.1086	0.0724	0.0992	0.0235	23.73
Silver	107	-0.0031	-0.0032	-0.0033	-0.0032	0.0001	2.778
Silver	109	-0.004	-0.0035	-0.004	-0.0038	0.0003	7.873
Thallium	203	-0.0086	-0.0096	-0.0098	-0.0093	0.0007	7.118
Thallium	205	-0.0097	-0.0103	-0.0108	-0.0103	0.0006	5.406
Vanadium	51	0.0386	0.0404	0.0221	0.0337	0.0101	29.9
Zinc	66	-0.0612	-0.0534	-0.0625	-0.059	0.0049	8.333
Zinc	67	-0.0751	-0.0457	-0.0731	-0.0646	0.0164	25.42
Zinc	68	-0.0322	-0.0263	-0.0309	-0.0298	0.0031	10.39

Internal Standard Factors:

Lithium	6	0.94	1.026	1.02	0.94 n/a	n/a
Scandium	45	0.952	1.023	1.026	0.952 n/a	n/a
Gallium	71	0.965	1.031	1.032	0.965 n/a	n/a
Rhodium	103	0.997	1.028	1.025	0.997 n/a	n/a
Indium	115	0.981	0.993	1.007	0.981 n/a	n/a
Lutetium	175	0.969	1.02	1.004	0.969 n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 06-04-10D

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #203621

Sample Name:	LCSW K1004934			Mean	SD	%RSD	
TimeStamp	6/4/10 18:29						
Antimony	121	20.2	20.42	19.98	20.2	0.2233	1.105
Antimony	123	19.77	20.28	19.79	19.95	0.2935	1.471
Arsenic	75	20.52	19.86	20.07	20.15	0.3373	1.674
Beryllium	9	20.59	20.64	20.65	20.63	0.0318	0.1539
Cadmium	111	20.14	20.68	20.3	20.37	0.277	1.359
Cadmium	114	20.23	20.86	19.89	20.33	0.4918	2.42
Chromium	52	20.49	20.98	20.34	20.6	0.3356	1.629
Chromium	53	20.43	20.47	20.17	20.36	0.163	0.8005
Cobalt	59	20.44	20.09	20.41	20.31	0.1945	0.9578
Copper	63	19.94	19.72	19.93	19.86	0.1191	0.5995
Copper	65	19.7	20.83	20.59	20.37	0.5933	2.912
Lead	206	21.01	19.57	19.77	20.12	0.782	3.887
Lead	207	20.86	20.52	20.75	20.71	0.1776	0.8577
Lead	208	20.98	20.05	20.24	20.42	0.4921	2.409
Molybdenum	95	20.29	20.68	20.61	20.53	0.2111	1.028
Molybdenum	97	20.5	20.77	20.21	20.49	0.282	1.376
Molybdenum	98	19.9	20.3	20.21	20.14	0.21	1.043
Nickel	60	19.59	19.56	19.88	19.68	0.1758	0.8933
Nickel	62	19.4	19.51	19.57	19.49	0.0857	0.4395
Selenium	77	19.68	19.78	20.02	19.83	0.1735	0.8751
Selenium	78	20.71	20.5	20.6	20.61	0.1045	0.5073
Selenium	82	20.2	19.9	19.85	19.98	0.1895	0.9482
Silver	107	20.9	20.83	21.04	20.92	0.1095	0.5235
Silver	109	20.55	20.99	20.12	20.55	0.434	2.112
Thallium	203	20.49	20.04	20	20.18	0.2679	1.328
Thallium	205	21.14	20.01	20.67	20.61	0.5634	2.734
Vanadium	51	20.85	20.14	20.24	20.41	0.3858	1.89
Zinc	66	20.49	19.91	20.39	20.26	0.3081	1.52
Zinc	67	20.48	19.55	20.99	20.34	0.7292	3.585
Zinc	68	21.11	20.07	20.61	20.6	0.5199	2.524

Internal Standard Factors:

Lithium	6	0.949	1.01	1.029	0.949	n/a	n/a
Scandium	45	0.953	1.033	1.036	0.953	n/a	n/a
Gallium	71	0.937	0.967	0.997	0.937	n/a	n/a
Rhodium	103	0.971	1.031	1.017	0.971	n/a	n/a
Indium	115	0.946	0.999	0.998	0.946	n/a	n/a
Lutetium	175	0.978	0.981	0.989	0.978	n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 06-04-10D

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #203621

Sample Name:		K1004934-005			Mean	SD	%RSD
TimeStamp		6/4/10 18:38					
Antimony	121	0.1061	0.1094	0.0992	0.1049	0.0052	4.988
Antimony	123	0.099	0.0937	0.0936	0.0954	0.0031	3.258
Arsenic	75	2.466	2.536	2.578	2.527	0.0567	2.246
Beryllium	9	0.0046	0.0019	0.0033	0.0032	0.0013	40.76
Cadmium	111	0.0241	0.0234	0.0259	0.0245	0.0013	5.274
Cadmium	114	0.0263	0.0212	0.0247	0.0241	0.0027	11.02
Chromium	52	0.6882	0.7998	0.776	0.7547	0.0588	7.787
Chromium	53	1.201	1.32	1.383	1.301	0.0927	7.122
Cobalt	59	0.0731	0.077	0.0812	0.0771	0.0041	5.272
Copper	63	0.6536	0.6477	0.6735	0.6582	0.0135	2.056
Copper	65	0.5182	0.5422	0.5339	0.5314	0.0122	2.296
Lead	206	0.0433	0.0404	0.0383	0.0407	0.0025	6.074
Lead	207	0.0439	0.0415	0.0519	0.0458	0.0054	11.87
Lead	208	0.0462	0.0451	0.0454	0.0455	0.0006	1.268
Molybdenum	95	0.8024	0.8069	0.8192	0.8095	0.0087	1.076
Molybdenum	97	0.7807	0.8266	0.8022	0.8031	0.023	2.859
Molybdenum	98	0.8104	0.7867	0.7965	0.7979	0.0119	1.494
Nickel	60	1.126	1.271	1.103	1.167	0.0909	7.793
Nickel	62	0.2215	0.2056	0.2703	0.2325	0.0337	14.51
Selenium	77	0.5968	0.5888	0.6013	0.5956	0.0063	1.063
Selenium	78	0.5198	0.6003	0.5419	0.554	0.0416	7.505
Selenium	82	0.5865	0.71	0.8325	0.7097	0.123	17.33
Silver	107	0.0034	0.005	0.0033	0.0039	0.001	24.76
Silver	109	0.0045	0.003	0.0027	0.0034	0.001	27.86
Thallium	203	0.0487	0.0481	0.0478	0.0482	0.0005	0.9943
Thallium	205	0.0517	0.0479	0.0491	0.0496	0.002	3.976
Vanadium	51	6.327	6.584	6.467	6.459	0.1284	1.987
Zinc	66	2.365	2.427	2.317	2.37	0.0556	2.346
Zinc	67	6.742	6.787	6.475	6.668	0.1685	2.527
Zinc	68	5.753	5.902	5.737	5.797	0.091	1.57

Internal Standard Factors:

Lithium	6	1.056	1.134	1.166	1.056 n/a	n/a
Scandium	45	0.85	0.983	1.029	0.85 n/a	n/a
Gallium	71	1.081	1.226	1.234	1.081 n/a	n/a
Rhodium	103	1.144	1.216	1.268	1.144 n/a	n/a
Indium	115	1.097	1.173	1.197	1.097 n/a	n/a
Lutetium	175	1.045	1.086	1.109	1.045 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004934-005D			Mean	SD	%RSD
TimeStamp		6/4/10 18:42					
Antimony	121	0.0946	0.0921	0.0989	0.0952	0.0034	3.592
Antimony	123	0.0892	0.0975	0.092	0.0929	0.0042	4.525
Arsenic	75	2.485	2.441	2.531	2.485	0.0451	1.815
Beryllium	9	0.0059	0.0018	0.0031	0.0036	0.0021	59.22
Cadmium	111	0.0281	0.0288	0.0288	0.0285	0.0004	1.378
Cadmium	114	0.0265	0.0261	0.0277	0.0268	0.0009	3.24
Chromium	52	0.7399	0.7421	0.7515	0.7445	0.0062	0.829
Chromium	53	1.39	1.32	1.352	1.354	0.035	2.588
Cobalt	59	0.0777	0.0816	0.0789	0.0794	0.002	2.485
Copper	63	0.658	0.6668	0.6311	0.652	0.0186	2.856
Copper	65	0.5021	0.5152	0.48	0.4991	0.0178	3.559
Lead	206	0.0444	0.0419	0.043	0.0431	0.0012	2.833
Lead	207	0.0498	0.0499	0.0532	0.051	0.0019	3.796
Lead	208	0.0479	0.0448	0.0487	0.0471	0.0021	4.41
Molybdenum	95	0.8399	0.8047	0.7987	0.8144	0.0222	2.729
Molybdenum	97	0.792	0.8491	0.8131	0.8181	0.0289	3.53
Molybdenum	98	0.7834	0.7909	0.8212	0.7985	0.02	2.507
Nickel	60	1.35	1.182	1.237	1.256	0.0858	6.83
Nickel	62	0.105	0.1546	0.1495	0.1364	0.0273	20.03
Selenium	77	0.6592	0.5464	0.4698	0.5584	0.0952	17.06
Selenium	78	0.5154	0.5096	0.458	0.4943	0.0316	6.386
Selenium	82	0.5884	0.5596	0.7816	0.6432	0.1207	18.77
Silver	107	0	0.0014	0.002	0.0012	0.001	90.78
Silver	109	0.0001	-0.0005	0.0011	0.0002	0.0008	335.2
Thallium	203	0.0489	0.0423	0.0394	0.0435	0.0049	11.16
Thallium	205	0.0429	0.0398	0.0422	0.0416	0.0016	3.876
Vanadium	51	6.615	6.262	6.418	6.431	0.1773	2.757
Zinc	66	2.414	2.357	2.422	2.398	0.0356	1.484
Zinc	67	6.625	7.013	6.496	6.711	0.2691	4.009
Zinc	68	5.568	5.864	5.679	5.704	0.1498	2.627

Internal Standard Factors:

Lithium	6	1.085	1.182	1.198	1.085	n/a	n/a
Scandium	45	0.936	0.986	1.007	0.936	n/a	n/a
Gallium	71	1.154	1.237	1.237	1.154	n/a	n/a
Rhodium	103	1.176	1.25	1.245	1.176	n/a	n/a
Indium	115	1.119	1.183	1.184	1.119	n/a	n/a
Lutetium	175	1.062	1.099	1.094	1.062	n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 06-04-10D

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #203621

Sample Name:		K1004934-005S			Mean	SD	%RSD
TimeStamp		6/4/10 18:47					
Antimony	121	19.92	20	20.46	20.13	0.2875	1.428
Antimony	123	19.77	20.37	20.37	20.17	0.3469	1.72
Arsenic	75	23.34	23.52	22.99	23.29	0.2691	1.156
Beryllium	9	18.27	19.06	19.13	18.82	0.4779	2.539
Cadmium	111	20.29	20.3	19.77	20.12	0.3015	1.498
Cadmium	114	19.22	19.95	19.91	19.69	0.409	2.077
Chromium	52	18.23	18.38	18.2	18.27	0.0944	0.5169
Chromium	53	19.5	19.37	18.65	19.17	0.4554	2.375
Cobalt	59	18.31	18.99	17.9	18.4	0.552	3
Copper	63	17.62	18.61	17.89	18.04	0.5123	2.84
Copper	65	18.69	18.83	17.72	18.41	0.6051	3.286
Lead	206	17.77	17.72	17.97	17.82	0.1338	0.751
Lead	207	18.3	18.02	18.31	18.21	0.1632	0.8964
Lead	208	18.07	17.76	18.3	18.05	0.2706	1.499
Molybdenum	95	23.32	23.41	22.7	23.14	0.3889	1.681
Molybdenum	97	23.2	23.35	22.85	23.14	0.2547	1.101
Molybdenum	98	22.69	23.53	22.64	22.95	0.4998	2.177
Nickel	60	17.92	18.82	18.3	18.35	0.4532	2.47
Nickel	62	17.41	18.11	17.32	17.62	0.4347	2.468
Selenium	77	20.5	21.65	20.71	20.96	0.6115	2.918
Selenium	78	20.91	21.72	21.65	21.43	0.4473	2.088
Selenium	82	21.3	21.49	20.99	21.26	0.2566	1.207
Silver	107	19.47	20.08	19.34	19.63	0.3954	2.014
Silver	109	19.39	19.39	19.47	19.42	0.045	0.2318
Thallium	203	18.31	17.98	18.73	18.34	0.3742	2.04
Thallium	205	19.28	18.82	18.26	18.79	0.509	2.709
Vanadium	51	23.94	24.84	24.66	24.48	0.473	1.932
Zinc	66	21.13	21.35	21.42	21.3	0.1496	0.7025
Zinc	67	24.87	25.89	24.95	25.24	0.5678	2.249
Zinc	68	24.2	24.85	24.45	24.5	0.3256	1.329

**Internal Standard
Factors:**

Lithium	6	1.091	1.167	1.24	1.091	n/a	n/a
Scandium	45	0.895	1.013	0.996	0.895	n/a	n/a
Gallium	71	1.121	1.21	1.194	1.121	n/a	n/a
Rhodium	103	1.177	1.249	1.234	1.177	n/a	n/a
Indium	115	1.087	1.15	1.178	1.087	n/a	n/a
Lutetium	175	1.016	1.018	1.052	1.016	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004934-006			Mean	SD	%RSD
TimeStamp		6/4/10 19:01					
Antimony	121	0.0805	0.089	0.0904	0.0866	0.0053	6.152
Antimony	123	0.0862	0.088	0.0865	0.0869	0.001	1.108
Arsenic	75	2.146	2.089	2.015	2.083	0.0657	3.152
Beryllium	9	0.0014	0.0049	0.002	0.0028	0.0019	68.28
Cadmium	111	0.0275	0.0273	0.0252	0.0267	0.0013	4.904
Cadmium	114	0.021	0.0262	0.03	0.0257	0.0045	17.63
Chromium	52	0.7903	0.7216	0.8081	0.7733	0.0457	5.905
Chromium	53	4.43	4.427	4.648	4.501	0.1265	2.811
Cobalt	59	0.1119	0.1116	0.1109	0.1115	0.0005	0.4903
Copper	63	1.266	1.268	1.281	1.272	0.0081	0.6367
Copper	65	0.474	0.4614	0.4701	0.4685	0.0064	1.371
Lead	206	0.0357	0.039	0.0386	0.0377	0.0018	4.713
Lead	207	0.0385	0.0473	0.054	0.0466	0.0078	16.68
Lead	208	0.0385	0.0409	0.042	0.0405	0.0018	4.523
Molybdenum	95	0.6398	0.6146	0.6853	0.6465	0.0358	5.541
Molybdenum	97	0.6283	0.6568	0.6616	0.6489	0.018	2.779
Molybdenum	98	0.642	0.6475	0.627	0.6388	0.0106	1.66
Nickel	60	1.601	1.814	1.742	1.719	0.1086	6.318
Nickel	62	0.4419	0.4693	0.2847	0.3986	0.0996	24.99
Selenium	77	2.519	2.618	2.572	2.57	0.0498	1.94
Selenium	78	0.4828	0.7377	0.4186	0.5464	0.1688	30.89
Selenium	82	1.092	0.9468	0.7851	0.9414	0.1537	16.32
Silver	107	0.0185	0.022	0.0225	0.021	0.0022	10.44
Silver	109	0.018	0.0183	0.0211	0.0191	0.0017	8.974
Thallium	203	0.0472	0.0405	0.0401	0.0426	0.004	9.405
Thallium	205	0.0421	0.043	0.0439	0.043	0.0009	2.041
Vanadium	51	5.289	5.089	5.386	5.255	0.1512	2.877
Zinc	66	0.961	0.9458	0.9759	0.9609	0.0151	1.567
Zinc	67	8.187	8.508	8.454	8.383	0.1719	2.051
Zinc	68	6.575	6.711	6.704	6.663	0.0768	1.152

Internal Standard Factors:

Lithium	6	1.181	1.366	1.316	1.181 n/a	n/a
Scandium	45	0.909	1.012	1.047	0.909 n/a	n/a
Gallium	71	1.239	1.356	1.355	1.239 n/a	n/a
Rhodium	103	1.307	1.359	1.411	1.307 n/a	n/a
Indium	115	1.19	1.297	1.317	1.19 n/a	n/a
Lutetium	175	1.057	1.132	1.144	1.057 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004934-007			Mean	SD	%RSD
TimeStamp		6/4/10 19:07					
Antimony	121	0.1005	0.092	0.0925	0.095	0.0048	5.025
Antimony	123	0.1007	0.0922	0.0948	0.0959	0.0044	4.566
Arsenic	75	2.462	2.32	2.428	2.403	0.074	3.078
Beryllium	9	0.0036	0.0059	0.004	0.0045	0.0013	28.27
Cadmium	111	0.0341	0.0237	0.0241	0.0273	0.0059	21.64
Cadmium	114	0.0313	0.0292	0.0256	0.0287	0.0029	10.12
Chromium	52	0.7385	0.7061	0.7069	0.7172	0.0185	2.578
Chromium	53	1.435	1.47	1.452	1.452	0.0173	1.191
Cobalt	59	0.0723	0.0722	0.0739	0.0728	0.001	1.341
Copper	63	0.6274	0.6046	0.5891	0.607	0.0192	3.168
Copper	65	0.442	0.4807	0.4591	0.4606	0.0194	4.211
Lead	206	0.0395	0.0483	0.0425	0.0434	0.0045	10.26
Lead	207	0.0486	0.0525	0.0501	0.0504	0.0019	3.859
Lead	208	0.0464	0.051	0.0486	0.0487	0.0023	4.649
Molybdenum	95	0.7882	0.7853	0.7999	0.7912	0.0077	0.9782
Molybdenum	97	0.7795	0.8346	0.8021	0.8054	0.0277	3.436
Molybdenum	98	0.8115	0.7986	0.8127	0.8076	0.0078	0.9659
Nickel	60	1.124	1.028	1.099	1.084	0.0496	4.572
Nickel	62	0.1243	0.1666	0.1558	0.1489	0.022	14.77
Selenium	77	0.7006	0.6787	0.485	0.6214	0.1187	19.1
Selenium	78	0.413	0.4907	0.3677	0.4238	0.0622	14.67
Selenium	82	0.5365	0.3904	0.6347	0.5205	0.1229	23.62
Silver	107	0.0172	0.0174	0.0183	0.0176	0.0006	3.198
Silver	109	0.0164	0.0149	0.0163	0.0159	0.0008	5.131
Thallium	203	0.0422	0.0461	0.0408	0.043	0.0027	6.335
Thallium	205	0.0425	0.0428	0.041	0.0421	0.0009	2.207
Vanadium	51	6.194	6.244	5.924	6.121	0.1721	2.812
Zinc	66	2.306	2.26	2.326	2.298	0.034	1.481
Zinc	67	6.592	6.346	6.262	6.4	0.1714	2.678
Zinc	68	5.621	5.568	5.505	5.564	0.0583	1.048

Internal Standard Factors:

Lithium	6	1.11	1.17	1.162	1.11 n/a	n/a
Scandium	45	0.872	0.948	0.958	0.872 n/a	n/a
Gallium	71	1.112	1.191	1.211	1.112 n/a	n/a
Rhodium	103	1.136	1.198	1.265	1.136 n/a	n/a
Indium	115	1.087	1.129	1.147	1.087 n/a	n/a
Lutetium	175	0.986	1.03	1.033	0.986 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	K1004934-008				Mean	SD	%RSD
TimeStamp	6/4/10 19:13						
Antimony	121	0.0187	0.0223	0.0184	0.0198	0.0022	11.1
Antimony	123	0.021	0.0212	0.0191	0.0204	0.0012	5.815
Arsenic	75	0.0567	0.0778	0.0408	0.0585	0.0186	31.8
Beryllium	9	-0.0003	0.0013	0.0021	0.001	0.0012	118.3
Cadmium	111	0.0268	0.0209	0.0211	0.023	0.0034	14.64
Cadmium	114	0.0231	0.0224	0.0204	0.022	0.0014	6.572
Chromium	52	0.0947	0.1353	0.1086	0.1129	0.0206	18.28
Chromium	53	0.1394	0.1294	0.1368	0.1352	0.0052	3.845
Cobalt	59	0.0048	0.0028	0.0061	0.0045	0.0016	36.31
Copper	63	0.0353	0.0367	0.0374	0.0365	0.001	2.854
Copper	65	0.0072	0.006	0.0179	0.0104	0.0066	63.52
Lead	206	0.0366	0.039	0.0355	0.037	0.0018	4.809
Lead	207	0.0432	0.0472	0.0392	0.0432	0.004	9.291
Lead	208	0.0396	0.0437	0.0381	0.0404	0.0029	7.12
Molybdenum	95	0.0018	0.0029	0.0026	0.0024	0.0006	23.25
Molybdenum	97	-0.0007	0.0063	-0.0008	0.0016	0.0041	254.1
Molybdenum	98	0.0008	0.0033	0.0028	0.0023	0.0013	55.89
Nickel	60	-0.048	-0.0535	-0.0474	-0.0496	0.0033	6.713
Nickel	62	-0.1155	-0.1155	-0.1052	-0.112	0.006	5.318
Selenium	77	0.0915	0.1101	0.0893	0.097	0.0114	11.77
Selenium	78	-0.0589	-0.1729	0.0764	-0.0518	0.1248	240.9
Selenium	82	0.0982	0.1952	0.0735	0.1223	0.0643	52.6
Silver	107	0.0023	0.0012	0.0018	0.0018	0.0006	33.15
Silver	109	0.001	0.0009	0.0015	0.0011	0.0003	26.76
Thallium	203	0.0413	0.0472	0.0411	0.0432	0.0034	7.958
Thallium	205	0.0422	0.0442	0.0389	0.0418	0.0027	6.382
Vanadium	51	0.0247	0.0444	0.0322	0.0338	0.01	29.48
Zinc	66	0.4323	0.3732	0.3738	0.3931	0.0339	8.629
Zinc	67	0.4101	0.4279	0.3395	0.3925	0.0468	11.91
Zinc	68	0.4031	0.3772	0.4263	0.4022	0.0246	6.108

Internal Standard Factors:

Lithium	6	0.96	0.969	1.04	0.96 n/a	n/a
Scandium	45	0.859	0.919	0.948	0.859 n/a	n/a
Gallium	71	0.881	0.913	0.951	0.881 n/a	n/a
Rhodium	103	0.912	0.97	0.984	0.912 n/a	n/a
Indium	115	0.876	0.923	0.945	0.876 n/a	n/a
Lutetium	175	0.853	0.914	0.866	0.853 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCV2				Mean	SD	%RSD
TimeStamp	6/4/10 19:17						
Antimony	121	24.8	24.43	25.12	24.78	0.3473	1.401
Antimony	123	24.76	24.23	25.07	24.68	0.4234	1.716
Arsenic	75	25.25	24.68	24.77	24.9	0.3109	1.249
Beryllium	9	24.58	24.21	23.18	23.99	0.7251	3.022
Cadmium	111	24.51	24.73	25.02	24.75	0.2522	1.019
Cadmium	114	25.22	24.97	24.69	24.96	0.2637	1.056
Chromium	52	24.15	24.5	24.77	24.47	0.3103	1.268
Chromium	53	25.18	24.61	24.99	24.93	0.2892	1.16
Cobalt	59	24.81	23.75	24.37	24.31	0.5348	2.2
Copper	63	24.9	24.54	25.3	24.91	0.3795	1.523
Copper	65	24.72	23.97	23.97	24.22	0.435	1.796
Lead	206	24.71	25.31	25.58	25.2	0.4408	1.749
Lead	207	25.02	24.91	25.79	25.24	0.4789	1.897
Lead	208	24.64	24.96	25.66	25.08	0.5206	2.075
Molybdenum	95	24.59	24.5	25.06	24.72	0.302	1.222
Molybdenum	97	24.04	24.85	24.42	24.44	0.4066	1.664
Molybdenum	98	24.01	24.95	24.42	24.46	0.4728	1.933
Nickel	60	24.39	24.5	23.77	24.22	0.3953	1.632
Nickel	62	24.07	23.4	23.5	23.66	0.3641	1.539
Selenium	77	24.64	23.86	23.83	24.11	0.4637	1.923
Selenium	78	25.23	24.8	25.63	25.22	0.4149	1.645
Selenium	82	24.89	24.12	25.08	24.7	0.5048	2.044
Silver	107	24.3	24.04	23.96	24.1	0.1785	0.7408
Silver	109	24.72	24.77	25.11	24.87	0.2114	0.8504
Thallium	203	24.19	24.63	25.48	24.77	0.654	2.64
Thallium	205	24.29	24.35	25.68	24.77	0.7854	3.171
Vanadium	51	24.03	24.56	25.42	24.67	0.7005	2.839
Zinc	66	25.38	24.65	24.34	24.79	0.5344	2.156
Zinc	67	25.59	24.64	23.39	24.54	1.105	4.502
Zinc	68	24.89	24.87	24.96	24.91	0.0442	0.1774

Internal Standard Factors:

Lithium	6	0.95	1.002	1.006	0.95 n/a	n/a
Scandium	45	0.885	0.957	0.999	0.885 n/a	n/a
Gallium	71	0.91	0.939	0.967	0.91 n/a	n/a
Rhodium	103	0.883	0.957	0.96	0.883 n/a	n/a
Indium	115	0.893	0.916	0.959	0.893 n/a	n/a
Lutetium	175	0.847	0.875	0.915	0.847 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		CCB2			Mean	SD	%RSD
TimeStamp		6/4/10 19:26					
Antimony	121	0.0021	0.0033	0	0.0018	0.0017	93.54
Antimony	123	0.0044	0.0025	0.0024	0.0031	0.0011	35.67
Arsenic	75	0.0833	-0.0317	0.0638	0.0385	0.0615	160.1
Beryllium	9	0.0027	0.0071	-0.0007	0.003	0.0039	129.8
Cadmium	111	0.0045	0.0035	0.0009	0.003	0.0018	61.95
Cadmium	114	0.0028	0.004	0.0025	0.0031	0.0008	24.9
Chromium	52	0.0143	0.0119	0.0237	0.0167	0.0062	37.41
Chromium	53	0.0619	0.062	0.0585	0.0608	0.002	3.222
Cobalt	59	0.0033	0.0046	0.0018	0.0032	0.0014	42.51
Copper	63	0.0283	0.0347	0.0339	0.0323	0.0035	10.8
Copper	65	0.0066	0.0022	0.003	0.0039	0.0023	59.36
Lead	206	0.0049	0.0061	0.0022	0.0044	0.002	44.69
Lead	207	0.0054	0.003	0.0017	0.0034	0.0019	56.78
Lead	208	0.0041	0.0054	0.0022	0.0039	0.0016	41.22
Molybdenum	95	0.003	0.0041	0.0039	0.0036	0.0006	15.67
Molybdenum	97	0.0009	0.0075	0.004	0.0041	0.0033	79.96
Molybdenum	98	0.0037	0.0054	0.0003	0.0031	0.0026	83.43
Nickel	60	-0.0422	-0.0484	-0.0493	-0.0466	0.0038	8.213
Nickel	62	-0.0625	-0.0742	-0.1087	-0.0818	0.024	29.38
Selenium	77	-0.0333	-0.0226	-0.0049	-0.0203	0.0143	70.61
Selenium	78	-0.249	-0.1341	-0.1442	-0.1757	0.0636	36.2
Selenium	82	0.2352	-0.1347	0.1847	0.0951	0.2006	211
Silver	107	0.0078	0.0069	0.0041	0.0063	0.0019	30.31
Silver	109	0.0065	0.0073	0.0032	0.0056	0.0022	38.76
Thallium	203	0.0044	0.0043	-0.001	0.0026	0.0031	119.6
Thallium	205	0.0036	0.0029	-0.0012	0.0018	0.0026	144.6
Vanadium	51	0.0124	0.0065	0.009	0.0093	0.0029	31.56
Zinc	66	-0.0129	0.0009	-0.0035	-0.0052	0.0071	137
Zinc	67	-0.0122	-0.01	-0.033	-0.0184	0.0127	68.94
Zinc	68	0.0174	-0.0095	-0.0111	-0.0011	0.016	1486

Internal Standard Factors:

Lithium	6	0.894	0.994	1.014	0.894	n/a	n/a
Scandium	45	0.881	0.977	0.997	0.881	n/a	n/a
Gallium	71	0.88	0.951	0.961	0.88	n/a	n/a
Rhodium	103	0.909	0.999	0.97	0.909	n/a	n/a
Indium	115	0.895	0.966	0.974	0.895	n/a	n/a
Lutetium	175	0.867	0.898	0.922	0.867	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004870-001			Mean	SD	%RSD
TimeStamp		6/4/10 19:30					
Antimony	121	0.2671	0.2637	0.26	0.2636	0.0035	1.341
Antimony	123	0.2755	0.2661	0.2496	0.2637	0.0131	4.979
Arsenic	75	1.028	1.069	1.098	1.065	0.0356	3.338
Beryllium	9	0.0082	0.0159	0.0147	0.0129	0.0041	32.02
Cadmium	111	0.0661	0.0629	0.0635	0.0641	0.0017	2.688
Cadmium	114	0.047	0.0564	0.0484	0.0506	0.0051	10.01
Chromium	52	0.0027	0.0122	0.0126	0.0091	0.0056	60.96
Chromium	53	0.2751	0.2817	0.2765	0.2778	0.0035	1.26
Cobalt	59	0.4304	0.4301	0.4308	0.4304	0.0003	0.0737
Copper	63	0.4372	0.4389	0.4184	0.4315	0.0114	2.643
Copper	65	0.3266	0.3237	0.3296	0.3266	0.0029	0.896
Lead	206	0.0455	0.0506	0.0536	0.0499	0.0041	8.261
Lead	207	0.0591	0.0568	0.0633	0.0597	0.0033	5.485
Lead	208	0.0525	0.0547	0.0567	0.0546	0.0021	3.834
Molybdenum	95	12.6	12.85	13.07	12.84	0.2335	1.818
Molybdenum	97	12.83	13.12	13.25	13.07	0.2138	1.636
Molybdenum	98	12.59	12.94	13.12	12.88	0.2662	2.066
Nickel	60	2.55	2.591	2.558	2.567	0.0219	0.8532
Nickel	62	2.151	2.205	2.277	2.211	0.0634	2.866
Selenium	77	0.1652	0.1258	0.0833	0.1248	0.041	32.87
Selenium	78	0.0815	0.2419	-0.0233	0.1	0.1336	133.5
Selenium	82	0.156	0.2041	0.3395	0.2332	0.0951	40.79
Silver	107	0.0202	0.0164	0.0209	0.0192	0.0024	12.78
Silver	109	0.0159	0.0207	0.0172	0.0179	0.0025	13.94
Thallium	203	0.057	0.0583	0.0452	0.0535	0.0072	13.54
Thallium	205	0.0549	0.052	0.0519	0.053	0.0017	3.13
Vanadium	51	0.0669	0.0716	0.0742	0.0709	0.0037	5.22
Zinc	66	4.863	5.13	5.144	5.046	0.1585	3.142
Zinc	67	10.23	10.36	10.3	10.3	0.0635	0.6166
Zinc	68	8.921	9.555	9.044	9.173	0.3361	3.664

Internal Standard Factors:

Lithium	6	1.069	1.147	1.166	1.069	n/a	n/a
Scandium	45	0.876	0.924	0.961	0.876	n/a	n/a
Galium	71	1.087	1.196	1.162	1.087	n/a	n/a
Rhodium	103	1.151	1.24	1.228	1.151	n/a	n/a
Indium	115	1.1	1.121	1.133	1.1	n/a	n/a
Lutetium	175	0.981	1.021	1.035	0.981	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004870-002			Mean	SD	%RSD
TimeStamp		6/4/10 19:35					
Antimony	121	0.1156	0.1211	0.1181	0.1183	0.0028	2.33
Antimony	123	0.1105	0.1076	0.1092	0.1091	0.0015	1.339
Arsenic	75	0.468	0.5386	0.5083	0.5049	0.0354	7.017
Beryllium	9	0.1082	0.0953	0.1111	0.1049	0.0084	8.025
Cadmium	111	0.0874	0.0963	0.0936	0.0924	0.0045	4.896
Cadmium	114	0.0778	0.0854	0.0849	0.0827	0.0042	5.139
Chromium	52	1.447	1.202	1.2	1.283	0.1419	11.06
Chromium	53	1.703	1.587	1.549	1.613	0.0804	4.987
Cobalt	59	3.243	3.461	3.343	3.349	0.1093	3.263
Copper	63	1.077	1.085	1.034	1.066	0.0275	2.58
Copper	65	0.9751	1.015	0.944	0.9779	0.0354	3.617
Lead	206	1.103	0.9885	1.072	1.055	0.0594	5.635
Lead	207	1.161	1.144	1.152	1.152	0.0085	0.7407
Lead	208	1.145	1.076	1.118	1.113	0.0349	3.133
Molybdenum	95	15.37	15.7	15.41	15.5	0.1795	1.158
Molybdenum	97	15.1	15.62	15.71	15.48	0.3316	2.142
Molybdenum	98	14.81	15.5	15.51	15.27	0.4031	2.639
Nickel	60	9.551	9.779	9.663	9.664	0.1139	1.178
Nickel	62	9.24	9.76	9.43	9.476	0.2632	2.778
Selenium	77	1.529	1.682	1.52	1.577	0.0909	5.764
Selenium	78	1.443	1.596	1.26	1.433	0.1684	11.75
Selenium	82	1.496	1.806	1.559	1.62	0.1642	10.13
Silver	107	0.0037	0.0043	0.0038	0.0039	0.0003	8.102
Silver	109	0.0023	0.0019	0.0034	0.0025	0.0008	30.94
Thallium	203	0.0714	0.0669	0.0656	0.068	0.003	4.45
Thallium	205	0.0639	0.062	0.0621	0.0627	0.001	1.65
Vanadium	51	1.465	1.419	1.413	1.432	0.0283	1.975
Zinc	66	10.59	11.05	10.32	10.66	0.3678	3.452
Zinc	67	12.22	12.46	12.32	12.33	0.1204	0.9765
Zinc	68	12.77	12.65	12.01	12.48	0.4114	3.297

Internal Standard Factors:

Lithium	6	1.047	1.137	1.171	1.047	n/a	n/a
Scandium	45	0.849	0.89	0.899	0.849	n/a	n/a
Gallium	71	1.06	1.163	1.138	1.06	n/a	n/a
Rhodium	103	1.12	1.199	1.213	1.12	n/a	n/a
Indium	115	1.046	1.11	1.11	1.046	n/a	n/a
Lutetium	175	0.996	1.014	1.03	0.996	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004870-003			Mean	SD	%RSD
TimeStamp		6/4/10 19:40					
Antimony	121	6.833	6.648	7.199	6.893	0.2808	4.073
Antimony	123	6.633	6.787	6.982	6.801	0.175	2.574
Arsenic	75	35.14	34.73	36.4	35.42	0.8705	2.458
Beryllium	9	0.012	0.0058	0.0122	0.01	0.0036	36.56
Cadmium	111	0.1162	0.0968	0.1127	0.1086	0.0104	9.534
Cadmium	114	0.0908	0.0885	0.0805	0.0866	0.0054	6.287
Chromium	52	0.0574	0.0858	0.0729	0.072	0.0143	19.8
Chromium	53	0.8666	0.8337	0.894	0.8648	0.0302	3.494
Cobalt	59	0.3421	0.3464	0.3657	0.3514	0.0126	3.572
Copper	63	0.7267	0.7832	0.7501	0.7534	0.0284	3.766
Copper	65	0.458	0.431	0.4366	0.4419	0.0142	3.223
Lead	206	0.0538	0.0556	0.057	0.0555	0.0016	2.875
Lead	207	0.0651	0.0644	0.0623	0.0639	0.0015	2.336
Lead	208	0.06	0.0604	0.059	0.0598	0.0007	1.152
Molybdenum	95	67.98	67.43	69.21	68.21	0.9111	1.336
Molybdenum	97	66.73	68.65	67.93	67.77	0.9736	1.437
Molybdenum	98	67.44	67.12	67.96	67.51	0.4226	0.626
Nickel	60	1.649	1.606	1.721	1.659	0.058	3.499
Nickel	62	0.9006	0.9028	0.8435	0.8823	0.0336	3.811
Selenium	77	0.4757	0.444	0.3809	0.4335	0.0483	11.13
Selenium	78	0.5401	0.4077	0.3714	0.4397	0.0888	20.19
Selenium	82	0.5568	0.6547	0.709	0.6402	0.0771	12.05
Silver	107	0.0085	0.0094	0.0084	0.0087	0.0006	6.766
Silver	109	0.006	0.0047	0.0074	0.006	0.0014	22.61
Thallium	203	0.0447	0.0462	0.0448	0.0452	0.0008	1.817
Thallium	205	0.0442	0.0434	0.0426	0.0434	0.0008	1.846
Vanadium	51	1.481	1.414	1.471	1.455	0.036	2.475
Zinc	66	1.049	1.127	1.181	1.119	0.0662	5.916
Zinc	67	7.548	7.617	7.638	7.601	0.0469	0.6171
Zinc	68	5.806	6.017	6.07	5.964	0.1396	2.341

Internal Standard Factors:

Lithium	6	1.112	1.199	1.239	1.112	n/a	n/a
Scandium	45	0.887	0.934	0.968	0.887	n/a	n/a
Gallium	71	1.144	1.222	1.24	1.144	n/a	n/a
Rhodium	103	1.211	1.273	1.258	1.211	n/a	n/a
Indium	115	1.134	1.163	1.226	1.134	n/a	n/a
Lutetium	175	1.013	1.063	1.068	1.013	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1004870-004			Mean	SD	%RSD
TimeStamp		6/4/10 19:45					
Antimony	121	0.0514	0.0533	0.049	0.0512	0.0021	4.157
Antimony	123	0.0478	0.0542	0.0469	0.0497	0.004	8.067
Arsenic	75	0.815	0.7619	0.7829	0.7866	0.0267	3.399
Beryllium	9	0.006	0.0082	0.0016	0.0053	0.0034	63.41
Cadmium	111	0.032	0.0349	0.0327	0.0332	0.0015	4.646
Cadmium	114	0.0371	0.0353	0.0323	0.0349	0.0024	7.003
Chromium	52	0.1011	0.0907	0.048	0.0799	0.0281	35.22
Chromium	53	0.3199	0.2947	0.2474	0.2873	0.0368	12.8
Cobalt	59	0.358	0.372	0.364	0.3647	0.007	1.923
Copper	63	0.307	0.3339	0.2991	0.3133	0.0183	5.823
Copper	65	0.2383	0.2471	0.225	0.2368	0.0111	4.702
Lead	206	0.0926	0.0911	0.0867	0.0902	0.0031	3.396
Lead	207	0.0973	0.1025	0.0929	0.0976	0.0048	4.949
Lead	208	0.0948	0.0963	0.0942	0.0951	0.0011	1.138
Molybdenum	95	1.131	1.162	1.149	1.147	0.0154	1.342
Molybdenum	97	1.108	1.14	1.13	1.126	0.0166	1.477
Molybdenum	98	1.129	1.143	1.134	1.135	0.0073	0.6411
Nickel	60	0.4945	0.5606	0.5113	0.5221	0.0344	6.581
Nickel	62	0.1869	0.2433	0.2407	0.2236	0.0318	14.22
Selenium	77	0.1342	0.233	0.1881	0.1851	0.0495	26.72
Selenium	78	0.1006	0.2237	0.1032	0.1425	0.0703	49.34
Selenium	82	0.4956	0.4609	0.3485	0.435	0.0769	17.67
Silver	107	0.0316	0.0331	0.0301	0.0316	0.0015	4.727
Silver	109	0.0315	0.0329	0.0341	0.0329	0.0013	3.944
Thallium	203	0.0408	0.045	0.041	0.0423	0.0024	5.608
Thallium	205	0.0438	0.0428	0.044	0.0435	0.0006	1.431
Vanadium	51	1.86	1.892	1.774	1.842	0.061	3.313
Zinc	66	2.361	2.456	2.325	2.381	0.0674	2.832
Zinc	67	4.234	4.4	4.253	4.296	0.0904	2.104
Zinc	68	4.086	4.136	4.02	4.081	0.0583	1.43

Internal Standard Factors:

Lithium	6	1.034	1.074	1.093	1.034	n/a	n/a
Scandium	45	0.78	0.842	0.815	0.78	n/a	n/a
Gallium	71	0.997	1.087	1.08	0.997	n/a	n/a
Rhodium	103	1.044	1.109	1.118	1.044	n/a	n/a
Indium	115	0.995	1.066	1.06	0.995	n/a	n/a
Lutetium	175	0.924	0.954	0.973	0.924	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005067-002			Mean	SD	%RSD
TimeStamp		6/4/10 19:50					
Antimony	121	0.1104	0.1114	0.1099	0.1106	0.0008	0.6844
Antimony	123	0.1119	0.1042	0.1042	0.1068	0.0044	4.143
Arsenic	75	0.2908	0.3114	0.3102	0.3041	0.0116	3.808
Beryllium	9	0.0067	0.0099	0.0092	0.0086	0.0017	19.85
Cadmium	111	0.0385	0.0403	0.0357	0.0382	0.0023	6.057
Cadmium	114	0.0391	0.041	0.036	0.0387	0.0025	6.578
Chromium	52	0.5003	0.5097	0.503	0.5043	0.0049	0.9657
Chromium	53	2.004	1.686	1.696	1.795	0.1804	10.05
Cobalt	59	0.2127	0.2085	0.2124	0.2112	0.0023	1.111
Copper	63	2.164	2.114	2.142	2.14	0.0252	1.177
Copper	65	1.727	1.74	1.733	1.733	0.0063	0.3633
Lead	206	0.1461	0.143	0.1482	0.1458	0.0026	1.782
Lead	207	0.1597	0.1465	0.1684	0.1582	0.011	6.954
Lead	208	0.1581	0.1481	0.1569	0.1544	0.0055	3.54
Molybdenum	95	0.4457	0.4578	0.4251	0.4429	0.0166	3.738
Molybdenum	97	0.4517	0.4346	0.4181	0.4348	0.0169	3.875
Molybdenum	98	0.4284	0.419	0.4281	0.4252	0.0053	1.256
Nickel	60	3.486	3.316	3.383	3.395	0.0857	2.523
Nickel	62	2.681	2.447	2.56	2.563	0.1169	4.56
Selenium	77	0.8205	0.7941	0.8292	0.8146	0.0183	2.242
Selenium	78	0.4764	0.4627	0.5121	0.4837	0.0255	5.273
Selenium	82	0.6603	0.7973	0.7199	0.7258	0.0687	9.459
Silver	107	-0.0009	-0.0008	-0.0011	-0.0009	0.0002	16.31
Silver	109	-0.0012	-0.0021	-0.0003	-0.0012	0.0009	75.82
Thallium	203	0.0423	0.0424	0.0398	0.0415	0.0015	3.587
Thallium	205	0.0429	0.0405	0.0461	0.0432	0.0028	6.429
Vanadium	51	0.4745	0.4898	0.5302	0.4982	0.0288	5.776
Zinc	66	2.152	2.055	2.08	2.095	0.0503	2.402
Zinc	67	3.915	3.76	4.018	3.898	0.1302	3.339
Zinc	68	3.683	3.586	3.584	3.618	0.0563	1.557

Internal Standard Factors:

Lithium	6	1.168	1.216	1.225	1.168 n/a	n/a
Scandium	45	0.916	0.946	0.991	0.916 n/a	n/a
Gallium	71	1.162	1.228	1.237	1.162 n/a	n/a
Rhodium	103	1.218	1.283	1.257	1.218 n/a	n/a
Indium	115	1.138	1.184	1.185	1.138 n/a	n/a
Lutetium	175	1.023	1.037	1.061	1.023 n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 06-04-10D

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #203621

Sample Name:		K1005067-003			Mean	SD	%RSD
TimeStamp		6/4/10 19:55					
Antimony	121	0.1001	0.1	0.0964	0.0988	0.0021	2.142
Antimony	123	0.1017	0.1031	0.1004	0.1017	0.0014	1.339
Arsenic	75	0.2816	0.283	0.3348	0.2998	0.0303	10.11
Beryllium	9	0.0053	0.0011	0.0065	0.0043	0.0028	66.21
Cadmium	111	0.0285	0.0374	0.0353	0.0338	0.0046	13.76
Cadmium	114	0.026	0.0343	0.0322	0.0308	0.0043	14.02
Chromium	52	0.3861	0.34	0.4036	0.3766	0.0329	8.732
Chromium	53	1.561	1.491	1.493	1.515	0.0396	2.611
Cobalt	59	0.1702	0.1703	0.1637	0.1681	0.0038	2.232
Copper	63	1.687	1.686	1.617	1.664	0.0401	2.411
Copper	65	1.262	1.262	1.261	1.262	0.0005	0.0365
Lead	206	0.0817	0.0751	0.079	0.0786	0.0033	4.213
Lead	207	0.0906	0.093	0.0936	0.0924	0.0016	1.729
Lead	208	0.0885	0.0855	0.085	0.0863	0.0019	2.175
Molybdenum	95	0.4211	0.411	0.4189	0.417	0.0053	1.268
Molybdenum	97	0.4127	0.3988	0.4225	0.4113	0.0119	2.888
Molybdenum	98	0.4217	0.4362	0.4333	0.4304	0.0077	1.789
Nickel	60	2.602	2.654	2.483	2.58	0.0873	3.383
Nickel	62	1.75	1.748	1.652	1.717	0.0562	3.27
Selenium	77	0.7129	0.6975	0.6477	0.686	0.034	4.96
Selenium	78	0.5134	0.6106	0.6202	0.5814	0.0591	10.16
Selenium	82	0.6311	0.6122	0.7969	0.6801	0.1016	14.94
Silver	107	-0.0001	-0.0003	0.0011	0.0002	0.0008	346.8
Silver	109	-0.0018	-0.0022	-0.0017	-0.0019	0.0002	12.06
Thallium	203	0.0403	0.0449	0.0397	0.0416	0.0028	6.814
Thallium	205	0.0416	0.0422	0.0409	0.0416	0.0007	1.574
Vanadium	51	0.4137	0.4059	0.4627	0.4274	0.0308	7.205
Zinc	66	1.658	1.638	1.596	1.631	0.0317	1.942
Zinc	67	3.371	3.496	3.419	3.429	0.0627	1.829
Zinc	68	3.115	3.186	3.076	3.126	0.0561	1.795

Internal Standard

Factors:

Lithium	6	1.145	1.203	1.233	1.145	n/a	n/a
Scandium	45	0.915	0.944	0.976	0.915	n/a	n/a
Gallium	71	1.143	1.216	1.206	1.143	n/a	n/a
Rhodium	103	1.185	1.235	1.237	1.185	n/a	n/a
Indium	115	1.12	1.175	1.177	1.12	n/a	n/a
Lutetium	175	1.027	1.049	1.047	1.027	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005067-004			Mean	SD	%RSD
TimeStamp		6/4/10 20:00					
Antimony	121	0.024	0.0237	0.0252	0.0243	0.0008	3.22
Antimony	123	0.0221	0.0253	0.0243	0.0239	0.0016	6.737
Arsenic	75	0.0785	0.1406	0.0818	0.1003	0.0349	34.85
Beryllium	9	0.0016	-0.0002	0.0023	0.0012	0.0013	105.6
Cadmium	111	0.0286	0.0322	0.0282	0.0297	0.0022	7.477
Cadmium	114	0.0286	0.0235	0.0272	0.0264	0.0026	9.832
Chromium	52	0.3759	0.3699	0.3726	0.3728	0.003	0.8053
Chromium	53	0.4394	0.4508	0.4248	0.4383	0.013	2.973
Cobalt	59	0.0458	0.0464	0.0494	0.0472	0.0019	4.059
Copper	63	0.231	0.2342	0.2307	0.232	0.0019	0.8252
Copper	65	0.1965	0.1896	0.1921	0.1927	0.0035	1.827
Lead	206	0.0885	0.0904	0.0864	0.0884	0.002	2.283
Lead	207	0.1041	0.0975	0.1032	0.1016	0.0035	3.489
Lead	208	0.0978	0.0941	0.0969	0.0963	0.0019	1.97
Molybdenum	95	0.0921	0.0987	0.0924	0.0944	0.0038	3.991
Molybdenum	97	0.0964	0.0929	0.0886	0.0926	0.0039	4.233
Molybdenum	98	0.0938	0.0914	0.0983	0.0945	0.0035	3.711
Nickel	60	0.9274	0.9803	0.971	0.9596	0.0282	2.943
Nickel	62	0.9451	1.021	0.9913	0.9858	0.0382	3.872
Selenium	77	0.0672	0.0641	0.0388	0.0567	0.0156	27.53
Selenium	78	-0.0913	0.0449	0.0766	0.0101	0.0892	887.3
Selenium	82	0.1299	0.3403	0.1138	0.1947	0.1264	64.91
Silver	107	0.0005	0.0001	0.0008	0.0004	0.0004	81.38
Silver	109	-0.0008	0	0	-0.0002	0.0005	190.7
Thallium	203	0.0399	0.0379	0.0429	0.0402	0.0025	6.263
Thallium	205	0.0432	0.0432	0.0416	0.0427	0.0009	2.123
Vanadium	51	0.1063	0.0988	0.1091	0.1048	0.0053	5.088
Zinc	66	1.898	1.865	1.939	1.901	0.0371	1.953
Zinc	67	1.88	1.806	2.007	1.898	0.1012	5.334
Zinc	68	1.966	1.905	1.931	1.934	0.0308	1.595

Internal Standard Factors:

Lithium	6	0.917	0.98	1.019	0.917	n/a	n/a
Scandium	45	0.825	0.901	0.927	0.825	n/a	n/a
Gallium	71	0.864	0.936	0.957	0.864	n/a	n/a
Rhodium	103	0.893	0.95	0.954	0.893	n/a	n/a
Indium	115	0.88	0.926	0.945	0.88	n/a	n/a
Lutetium	175	0.863	0.88	0.889	0.863	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCV3				Mean	SD	%RSD
TimeStamp	6/4/10 20:04						
Antimony	121	24.91	24.36	24.89	24.72	0.3138	1.27
Antimony	123	24.48	24.55	24.21	24.41	0.1785	0.7309
Arsenic	75	25.5	25.06	24.45	25	0.5268	2.107
Beryllium	9	24.86	25.22	26.04	25.37	0.6048	2.384
Cadmium	111	24.65	24.86	24.86	24.79	0.1232	0.497
Cadmium	114	24.89	24.28	25	24.72	0.3862	1.562
Chromium	52	24.77	24.72	25.09	24.86	0.2012	0.8091
Chromium	53	25.71	24.61	25.88	25.4	0.6923	2.726
Cobalt	59	25.37	23.81	24.32	24.5	0.7952	3.246
Copper	63	24.92	24.85	24.08	24.61	0.4677	1.9
Copper	65	24.31	23.95	25.01	24.43	0.5392	2.207
Lead	206	25	25.39	24.35	24.91	0.5258	2.111
Lead	207	24.74	24.98	25.01	24.91	0.1474	0.5918
Lead	208	24.86	25.35	24.28	24.83	0.5331	2.147
Molybdenum	95	24.53	25.5	25.56	25.2	0.5804	2.303
Molybdenum	97	24.43	25.69	25.49	25.2	0.6771	2.687
Molybdenum	98	24.81	25.53	25.24	25.19	0.3627	1.44
Nickel	60	23.96	23.87	24.07	23.97	0.1031	0.43
Nickel	62	24.73	24.39	24.41	24.51	0.1926	0.7859
Selenium	77	24.38	23.93	23.94	24.08	0.2572	1.068
Selenium	78	25.09	25.3	25.26	25.22	0.1126	0.4465
Selenium	82	25.05	24.64	24.81	24.83	0.2053	0.8268
Silver	107	23.92	24.25	24.77	24.31	0.4296	1.767
Silver	109	25.19	24.94	24.95	25.03	0.1421	0.5679
Thallium	203	23.84	24.87	23.89	24.2	0.5788	2.392
Thallium	205	24.19	25.47	24.75	24.8	0.6456	2.603
Vanadium	51	25.08	25.07	24.87	25.01	0.118	0.4717
Zinc	66	24.87	24.73	23.83	24.48	0.564	2.304
Zinc	67	25.23	24.45	24.33	24.67	0.489	1.982
Zinc	68	25.47	24.71	24.8	24.99	0.4175	1.67

Internal Standard Factors:

Lithium	6	0.927	1.016	1.049	0.927 n/a	n/a
Scandium	45	0.888	0.941	0.965	0.888 n/a	n/a
Gallium	71	0.883	0.936	0.937	0.883 n/a	n/a
Rhodium	103	0.891	0.967	0.981	0.891 n/a	n/a
Indium	115	0.88	0.918	0.93	0.88 n/a	n/a
Lutetium	175	0.844	0.896	0.87	0.844 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-04-10D
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCB3	Mean	SD	%RSD
TimeStamp	6/4/10 20:13			
Antimony 121	0.0065	0.0039	0.0029	0.0045 0.0018 40.68
Antimony 123	0.0106	0.008	0.0018	0.0068 0.0045 66.35
Arsenic 75	0.0345	0.0534	-0.0061	0.0273 0.0304 111.5
Beryllium 9	0.0075	0.0065	0.0021	0.0054 0.0029 53.97
Cadmium 111	0.0041	0.0059	0.0026	0.0042 0.0017 39.27
Cadmium 114	0.0038	0.0051	0.0017	0.0036 0.0017 48.74
Chromium 52	-0.0075	0.0052	0.0102	0.0027 0.0091 342
Chromium 53	0.057	0.0465	0.0493	0.0509 0.0054 10.69
Cobalt 59	0.0044	0.0068	0.0018	0.0043 0.0025 57.55
Copper 63	0.0323	0.0474	0.0403	0.04 0.0076 18.94
Copper 65	0.0012	0.0055	-0.0059	0.0003 0.0058 1983
Lead 206	0.0055	0.0051	0.0018	0.0042 0.002 48.46
Lead 207	0.0056	0.0072	0.0035	0.0054 0.0019 34.01
Lead 208	0.0052	0.0055	0.0028	0.0045 0.0015 33.73
Molybdenum 95	0.0092	0.0066	0.0024	0.0061 0.0034 56.59
Molybdenum 97	0.0047	0.0105	0.002	0.0057 0.0043 75.25
Molybdenum 98	0.0063	0.0059	0.003	0.0051 0.0018 35.11
Nickel 60	-0.0518	-0.0454	-0.0338	-0.0437 0.0091 20.9
Nickel 62	-0.079	-0.0538	-0.081	-0.0712 0.0152 21.26
Selenium 77	-0.0031	-0.0002	0.0248	0.0072 0.0153 213.9
Selenium 78	-0.0888	0.0393	-0.0374	-0.029 0.0644 222.6
Selenium 82	0.0818	0.1445	0.0009	0.0757 0.072 95.1
Silver 107	0.0083	0.0072	0.0023	0.0059 0.0032 54.02
Silver 109	0.0083	0.0053	0.0034	0.0057 0.0025 43.98
Thallium 203	0.0054	0.0026	-0.0005	0.0025 0.003 119.3
Thallium 205	0.0068	0.0015	-0.0009	0.0025 0.004 160.3
Vanadium 51	0.0025	0.0078	0.0031	0.0045 0.0029 65.23
Zinc 66	0.0235	0.0261	0.015	0.0215 0.0058 26.92
Zinc 67	0.0066	0.0143	-0.0018	0.0064 0.0081 127.1
Zinc 68	0.0004	0.0121	0.0121	0.0082 0.0067 82.22

Internal Standard Factors:

Lithium 6	0.902	1	1.033	0.902 n/a n/a
Scandium 45	0.826	0.937	0.971	0.826 n/a n/a
Gallium 71	0.865	0.974	0.973	0.865 n/a n/a
Rhodium 103	0.91	0.981	0.977	0.91 n/a n/a
Indium 115	0.878	0.925	0.952	0.878 n/a n/a
Lutetium 175	0.859	0.884	0.904	0.859 n/a n/a

Sample List

Num	Label	Type	Weight	Volume	Dilution	Rack	Row	Column	Height
1	Cal. Blk	Blank	0 kg	0 ml	1.00	0	1	1	145
2	Cal. Stn	Fully Quant Standard	0 kg	0 ml	1.00	0	1	2	145
3	ICV1	Unknown	0 kg	0 ml	1.00	0	1	3	145
4	CCV1	Unknown	0 kg	0 ml	1.00	0	1	2	145
5	ICB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
6	CCB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
7	WATER CRA	Unknown	0 kg	0 ml	1.00	0	1	4	145
8	K1005055-MB	Unknown	0 kg	0 ml	1.00	1	1	1	145
9	K1005055-008	Unknown	0 kg	0 ml	1.00	1	1	4	145
10	K1005055-008S	Unknown	0 kg	0 ml	1.00	1	1	5	145
11	K1005055-008SD	Unknown	0 kg	0 ml	1.00	1	1	6	145
12	LCSW K1005055	Unknown	0 kg	0 ml	1.00	1	1	2	145
13	LCSW K1005055D	Unknown	0 kg	0 ml	1.00	1	1	3	145
14	K1005055-001	Unknown	0 kg	0 ml	1.00	1	1	7	145
15	K1005055-002	Unknown	0 kg	0 ml	1.00	1	1	8	145
16	K1005055-003	Unknown	0 kg	0 ml	1.00	1	1	9	145
17	K1005055-004	Unknown	0 kg	0 ml	1.00	1	1	10	145
18	CCV2	Unknown	0 kg	0 ml	1.00	0	1	2	145
19	CCB2	Unknown	0 kg	0 ml	1.00	0	1	1	145
20	K1005117-001	Unknown	0 kg	0 ml	1.00	2	1	10	145
21	K1005117-001D	Unknown	0 kg	0 ml	1.00	2	1	11	145
22	K1005117-001S	Unknown	0 kg	0 ml	1.00	2	1	12	145
23	CCV3	Unknown	0 kg	0 ml	1.00	0	1	2	145
24	CCB3	Unknown	0 kg	0 ml	1.00	0	1	1	145
25	K1005055-005	Unknown	0 kg	0 ml	1.00	1	1	11	145
26	K1005055-006	Unknown	0 kg	0 ml	1.00	1	1	12	145
27	K1005055-007	Unknown	0 kg	0 ml	1.00	1	2	1	145
28	K1005055-009	Unknown	0 kg	0 ml	1.00	1	2	2	145
29	K1005055-010	Unknown	0 kg	0 ml	1.00	1	2	3	145
30	K1005055-001 DISS	Unknown	0 kg	0 ml	1.00	1	2	4	145
31	K1005055-002 DISS	Unknown	0 kg	0 ml	1.00	1	2	5	145
32	K1005055-003 DISS	Unknown	0 kg	0 ml	1.00	1	2	6	145
33	K1005055-004 DISS	Unknown	0 kg	0 ml	1.00	1	2	7	145
34	K1005055-005 DISS	Unknown	0 kg	0 ml	1.00	1	2	8	145
35	CCV4	QC Sample	0 kg	0 ml	1.00	0	1	2	145
36	CCB4	QC Sample	0 kg	0 ml	1.00	0	1	1	145
37	K1005055-006 DISS	Unknown	0 kg	0 ml	1.00	1	2	9	145
38	K1005055-007 DISS	Unknown	0 kg	0 ml	1.00	1	2	10	145
39	K1005055-008 DISS	Unknown	0 kg	0 ml	1.00	1	2	11	145
40	K1005055-008 DISSS	Unknown	0 kg	0 ml	1.00	1	2	12	145
41	K1005055-008 DISSSD	Unknown	0 kg	0 ml	1.00	1	3	1	145
42	K1005055-009 DISS	Unknown	0 kg	0 ml	1.00	1	3	2	145
43	K1005055-011 DISS	Unknown	0 kg	0 ml	1.00	1	3	3	145
44	K1005258-MB	Unknown	0 kg	0 ml	1.00	1	3	4	145
45	LCSW K1005258	Unknown	0 kg	0 ml	1.00	1	3	5	145
46	LCSW K1005258D	Unknown	0 kg	0 ml	1.00	1	3	6	145
47	CCV5	QC Sample	0 kg	0 ml	1.00	0	1	2	145
48	CCB5	QC Sample	0 kg	0 ml	1.00	0	1	1	145

49	K1005055-013	Unknown	0 kg	0 ml	1.00	1	3	7	145
50	K1005258-001	Unknown	0 kg	0 ml	1.00	1	3	8	145
51	K1005258-001S	Unknown	0 kg	0 ml	1.00	1	3	9	145
52	K1005258-001SD	Unknown	0 kg	0 ml	1.00	1	3	10	145
53	K1005258-002	Unknown	0 kg	0 ml	1.00	1	3	11	145
54	K1005258-002S	Unknown	0 kg	0 ml	1.00	1	3	12	145
55	K1005258-002SD	Unknown	0 kg	0 ml	1.00	1	4	1	145
56	K1005258-003	Unknown	0 kg	0 ml	1.00	1	4	2	145
57	K1005258-004	Unknown	0 kg	0 ml	1.00	1	4	3	145
58	K1005258-005	Unknown	0 kg	0 ml	1.00	1	4	4	145
59	CCV6	QC Sample	0 kg	0 ml	1.00	0	1	2	145
60	CCB6	QC Sample	0 kg	0 ml	1.00	0	1	1	145
61	K1005258-006	Unknown	0 kg	0 ml	1.00	1	4	5	145
62	K1005258-007	Unknown	0 kg	0 ml	1.00	1	4	6	145
63	K1005258-009	Unknown	0 kg	0 ml	1.00	1	4	7	145
64	K1005258-001 DISS	Unknown	0 kg	0 ml	1.00	1	4	8	145
65	K1005258-001 DISSS	Unknown	0 kg	0 ml	1.00	1	4	9	145
66	K1005258-001 DISSSD	Unknown	0 kg	0 ml	1.00	1	4	10	145
67	K1005258-002 DISS	Unknown	0 kg	0 ml	1.00	1	4	11	145
68	K1005258-002 DISSS	Unknown	0 kg	0 ml	1.00	1	4	12	145
69	K1005258-002 DISSSD	Unknown	0 kg	0 ml	1.00	1	5	1	145
70	CCV7	QC Sample	0 kg	0 ml	1.00	0	1	2	145
71	CCB7	QC Sample	0 kg	0 ml	1.00	0	1	1	145
72	K1005258-003 DISS	Unknown	0 kg	0 ml	1.00	1	5	2	145
73	K1005258-004 DISS	Unknown	0 kg	0 ml	1.00	1	5	3	145
74	K1005258-005 DISS	Unknown	0 kg	0 ml	1.00	1	5	4	145
75	K1005258-006 DISS	Unknown	0 kg	0 ml	1.00	1	5	5	145
76	K1005258-010 DISS	Unknown	0 kg	0 ml	1.00	1	5	6	145
77	K1005258-011 DISS	Unknown	0 kg	0 ml	1.00	1	5	7	145
78	K1005055-008 1/50	Unknown	0 kg	0 ml	1.00	1	5	8	145
79	K1005055-008 1/50D	Unknown	0 kg	0 ml	1.00	1	5	9	145
80	K1005055-008 1/50S	Unknown	0 kg	0 ml	1.00	1	5	10	145
81	K1005055-009 1/20	Unknown	0 kg	0 ml	1.00	1	5	11	145
82	CCV8	QC Sample	0 kg	0 ml	1.00	0	1	2	145
83	CCB8	QC Sample	0 kg	0 ml	1.00	0	1	1	145
84	K1005055-008 DISS	Unknown	0 kg	0 ml	1.00	1	5	12	145
85	^{1/50} K1005055-008 DISS	Unknown	0 kg	0 ml	1.00	2	1	1	145
86	^{1/50D} K1005055-008 DISS	Unknown	0 kg	0 ml	1.00	2	1	2	145
87	^{1/50S} K1005055-009 DISS	Unknown	0 kg	0 ml	1.00	2	1	3	145
88	^{1/20} K1005258-001 1/10	Unknown	0 kg	0 ml	1.00	2	1	4	145
89	K1005258-001 1/10S	Unknown	0 kg	0 ml	1.00	2	1	5	145
90	K1005258-001 1/10SD	Unknown	0 kg	0 ml	1.00	2	1	6	145
91	K1005258-002 1/10	Unknown	0 kg	0 ml	1.00	2	1	7	145
92	K1005258-002 1/10S	Unknown	0 kg	0 ml	1.00	2	1	8	145
93	K1005258-002 1/10SD	Unknown	0 kg	0 ml	1.00	2	1	9	145
94	CCV9	QC Sample	0 kg	0 ml	1.00	0	1	2	145
95	CCB9	QC Sample	0 kg	0 ml	1.00	0	1	1	145
96	K1004672-MB 1/5	Unknown	0 kg	0 ml	1.00	2	2	1	145
97	LCSW K1004672 1/25	Unknown	0 kg	0 ml	1.00	2	2	2	145
98	K1004672-001 1/5	Unknown	0 kg	0 ml	1.00	2	2	3	145
99	K1004672-001 1/5D	Unknown	0 kg	0 ml	1.00	2	2	4	145

100	K1004672-001 1/25S	Unknown	0 kg	0 ml	1.00	2	2	5	145
101	CCV10	QC Sample	0 kg	0 ml	1.00	0	1	2	145
102	CCB10	QC Sample	0 kg	0 ml	1.00	0	1	1	145

Instrument Setup - Configurations

Configuration Name - acqmet11
 Description - PQExcell CCT Sim Default
 Date - 7:55:02 6/7/10
 Maximum Uptake Time - 0
 Maximum Washout Time - 0
 S-Option Pump Running - No
 Plasma Screen Forward - No
 Makeup Gas On - No
 Use CCT - No
 Use Accessory Gas - No

Setting	Value
Extraction	-650.00
Lens1	5.00
Lens2	-60.00
Lens3	-25.00
Pole Bias	5.00
Sampling Depth	400.00
Horizontal	0.00
Vertical	95.00
Cool	13.00
Auxiliary	0.80
Nebuliser	0.82
Forward power	1,365.00
HT1 Voltage	1,900.00
HT2 Voltage	2,600.00
D1	-42.00
Focus	8.00

Configuration Name - acqmet11
 Description - PQExcell CCT Sim Default
 Date - 7:55:02 6/7/10
 Maximum Uptake Time - 0
 Maximum Washout Time - 0
 S-Option Pump Running - No
 Plasma Screen Forward - No
 Makeup Gas On - No
 Use CCT - No
 Use Accessory Gas - No

Setting	Value
Extraction	-650.00
Lens1	5.00
Lens2	-60.00
Lens3	-25.00
Pole Bias	5.00
Sampling Depth	400.00
Horizontal	0.00
Vertical	95.00
Cool	13.00
Auxiliary	0.80

					Masses in
Mass	Mass DAC	Peak Width (AMU)	Error (AMU)	Include	Tune Solution
6.015	1297	0.664	0	TRUE	
7.016	1551	0.715	-0.003	TRUE	Li-7
9.012	2058	0.715	-0.007	TRUE	Be-9
23.985	5879	0.715	0.031	TRUE	Mg-24
24.986	6126	0.715	0.001	TRUE	Co-59
25.983	6386	0.715	0.026	TRUE	In-115
26.982	6633	0.715	-0.003	TRUE	Ce-140
51.94	12990	0.766	0.006	TRUE	Pb-208
53.949	13497	0.766	-0.011	TRUE	Bi-209
55.935	14004	0.766	-0.006	TRUE	U-238
56.935	14264	0.766	0.015	TRUE	
57.934	14511	0.766	-0.014	TRUE	
58.933	14765	0.715	-0.016	TRUE	
62.93	15779	0.715	-0.03	TRUE	
63.929	16039	0.715	-0.008	TRUE	
75.92	19087	0.766	-0.032	TRUE	
112.904	28510	0.714	-0.025	TRUE	
114.904	29017	0.714	-0.035	TRUE	
118.903	30070	0.714	0.098	TRUE	
128.905	32598	0.663	0.017	TRUE	
130.905	33105	0.663	0.007	TRUE	
131.905	33359	0.612	0.004	TRUE	
133.905	33872	0.663	0.016	TRUE	
135.906	34379	0.663	0.005	TRUE	
137.906	34886	0.663	-0.006	TRUE	
139.905	35400	0.612	0.012	TRUE	
141.908	35907	0.612	-0.002	TRUE	
155.923	39475	0.663	-0.018	TRUE	
157.924	39989	0.612	-0.003	TRUE	
203.973	51728	0.612	-0.01	TRUE	
205.974	52241	0.561	0	TRUE	
206.976	52495	0.612	-0.005	TRUE	
207.977	52748	0.561	-0.014	TRUE	
208.98	53008	0.561	0.002	TRUE	
238.051	60425	0.51	0.009	TRUE	

Excluded In Calib	Excluded In Results	Time Exceeded	Multi Element	Scrub Queue	Internal Standard	Standard Addition		
Uncorrected ICPS Per Mass			S-Calibration Has Edited Standard F-Interference Correction Failed	E-Calibration Edited T-Tripped	I-Invalid Calibration P-Pulse Counting	V-Valley Integration Failed M-Result Over Max		
Run	Label	TimeStamp	208Hg	7Li	9Be	59Co	115In	208Pb
1	Stability 06-07-2010	6/7/2010 8:10:33 AM	(P)1.667	(P)24576.624	(P)5766.164	(P)63156.393	(P)121051.420	(P)58993.409
2	Stability 06-07-2010	6/7/2010 8:11:48 AM	(P)1.000	(P)24102.485	(P)5686.965	(P)61869.073	(P)117841.230	(P)56990.663
3	Stability 06-07-2010	6/7/2010 8:13:03 AM	(P)0.833	(P)24575.456	(P)5837.693	(P)62278.167	(P)117896.740	(P)55644.574
4	Stability 06-07-2010	6/7/2010 8:14:19 AM	(P)0.167	(P)25095.858	(P)5940.235	(P)62326.230	(P)119009.380	(P)57039.712
5	Stability 06-07-2010	6/7/2010 8:15:34 AM	(P)0.333	(P)24753.434	(P)5865.538	(P)62329.225	(P)119470.620	(P)55685.874
	Mean of Stability 06-07	6/7/2010 8:10:33 AM	(P)0.800	(P)24620.771	(P)5819.319	(P)62391.818	(P)119053.880	(P)56870.846
	SD of Stability 06-07-20		(P)0.594	(P)359.142	(P)96.744	(P)468.768	(P)1320.543	(P)1365.288
	%RSD of Stability 06		(P)74.244	(P)1.459	(P)1.662	(P)0.751	(P)1.109	(P)2.401

Run	Label	TimeStamp	209Bi	208Pb	238U
1	Stability 06-07-2010	6/7/2010 8:10:33 AM	(P)95984.882	(P)0.167	(P)92165.818
2	Stability 06-07-2010	6/7/2010 8:11:48 AM	(P)93402.705	(P)0.167	(P)90879.262
3	Stability 06-07-2010	6/7/2010 8:13:03 AM	(P)90342.134	(P)0.000	(P)87492.038
4	Stability 06-07-2010	6/7/2010 8:14:19 AM	(P)92395.356	(P)0.167	(P)89656.487
5	Stability 06-07-2010	6/7/2010 8:15:34 AM	(P)90788.303	(P)0.500	(P)91157.885
	Mean of Stability 06-07	6/7/2010 8:10:33 AM	(P)92582.676	(P)0.200	(P)90270.298
	SD of Stability 06-07-20		(P)2265.080	(P)0.183	(P)1792.145
	%RSD of Stability 06		(P)2.447	(P)91.287	(P)1.985

Sample Name:	Cal. Blk				Mean	SD	%RSD
TimeStamp	6/7/10 11:41						
Aluminum	27	-0.005	0.0064	-0.0015	0	0.0058	0
Antimony	121	0	0.0001	-0.0001	0	0.0001	0
Antimony	123	-0.0004	0.002	-0.0016	0	0.0018	0
Arsenic	75	0.0002	-0.0055	0.0052	0	0.0053	0
Barium	137	0.0003	0.0023	-0.0025	0	0.0024	0
Barium	138	0.0015	-0.0004	-0.0011	0	0.0013	0
Beryllium	9	0.0006	0.0015	-0.0022	0	0.002	0
Bismuth	209	0.0012	0.0001	-0.0013	0	0.0012	0
Boron	10	-0.0118	0.0056	0.0063	0	0.0103	0
Boron	11	0.0082	-0.0039	-0.0043	0	0.0071	0
Cadmium	111	-0.0018	0.0006	0.0012	0	0.0016	0
Cadmium	114	0.0018	-0.0004	-0.0014	0	0.0016	0
Chromium	52	-0.016	0.0192	-0.0032	0	0.0178	0
Chromium	53	-0.0057	-0.0035	0.0092	0	0.0081	0
Cobalt	59	0.0036	-0.0014	-0.0023	0	0.0032	0
Copper	63	-0.0088	0.0066	0.0023	0	0.0079	0
Copper	65	-0.0007	0.0028	-0.0021	0	0.0025	0
Lead	206	-0.0002	0.0021	-0.0019	0	0.002	0
Lead	207	0.0013	0.0016	-0.0029	0	0.0025	0
Lead	208	0.0003	0.0016	-0.002	0	0.0018	0
Manganese	55	0.0007	0.0002	-0.0009	0	0.0008	0
Molybdenum	95	0.0008	0.0007	-0.0015	0	0.0013	0
Molybdenum	97	0.0015	0.0027	-0.0042	0	0.0037	0
Molybdenum	98	0.0005	-0.0007	0.0002	0	0.0006	0
Nickel	60	0.004	0.0016	-0.0056	0	0.005	0
Nickel	62	-0.1626	0.2415	-0.0789	0	0.2133	0
Selenium	77	-0.0533	0.0511	0.0022	0	0.0522	0
Selenium	78	-0.136	0.0361	0.1	0	0.1221	0
Selenium	82	-0.0525	0.0354	0.017	0	0.0464	0
Silver	107	0.0008	0	-0.0008	0	0.0008	0
Silver	109	0.002	0.0011	-0.0031	0	0.0027	0
Thallium	203	0.0001	0.0002	-0.0003	0	0.0003	0
Thallium	205	0.0011	-0.0002	-0.0009	0	0.001	0
Tin	118	0.0001	-0.0004	0.0003	0	0.0004	0
Tin	120	-0.0007	0.0016	-0.0009	0	0.0014	0
Vanadium	51	-0.003	0.0075	-0.0045	0	0.0065	0
Zinc	66	-0.0087	0.0072	0.0015	0	0.0081	0
Zinc	68	0.0046	0.0041	-0.0087	0	0.0075	0

Internal Standard

Factors:

Lithium	6	0.977	1.015	1.009	0.977	n/a	n/a
Gallium	71	0.976	1.012	1.013	0.976	n/a	n/a
Rhodium	103	0.966	1.016	1.02	0.966	n/a	n/a
Indium	115	0.971	1.023	1.008	0.971	n/a	n/a
Lutetium	175	0.987	1.009	1.004	0.987	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name: TimeStamp	Cal. Stn 6/7/10 11:46	Mean	SD	%RSD		
Aluminum 27	24.71	25.22	25.07	25	0.2609	1.044
Antimony 121	24.73	24.97	25.31	25	0.2918	1.167
Antimony 123	25.32	24.25	25.43	25	0.6535	2.614
Arsenic 75	24.91	24.92	25.17	25	0.1452	0.5809
Barium 137	24.8	25.26	24.94	25	0.2329	0.9318
Barium 138	24.85	25.25	24.9	25	0.2193	0.8774
Beryllium 9	24.36	25.64	25	25	0.639	2.556
Bismuth 209	24.02	25.4	25.58	25	0.8562	3.425
Boron 10	23.98	26.09	24.94	25	1.055	4.221
Boron 11	23.63	26.23	25.13	25	1.304	5.215
Cadmium 111	25.04	24.8	25.16	25	0.1846	0.7383
Cadmium 114	25.04	24.78	25.18	25	0.2016	0.8065
Chromium 52	24.51	25.05	25.44	25	0.4643	1.857
Chromium 53	24.65	25.01	25.33	25	0.3406	1.362
Cobalt 59	24.73	25.12	25.16	25	0.2372	0.9488
Copper 63	24.82	25.13	25.05	25	0.1581	0.6322
Copper 65	24.86	24.88	25.26	25	0.2294	0.9176
Lead 206	25.08	24.9	25.01	25	0.0905	0.3618
Lead 207	24.59	25.51	24.9	25	0.4711	1.884
Lead 208	24.69	25.16	25.16	25	0.2727	1.091
Manganese 55	24.62	24.88	25.51	25	0.4564	1.826
Molybdenum 95	25.27	24.77	24.96	25	0.2509	1.004
Molybdenum 97	24.86	25.32	24.82	25	0.2779	1.112
Molybdenum 98	24.77	25.17	25.06	25	0.2048	0.8192
Nickel 60	24.79	25.15	25.06	25	0.1865	0.7461
Nickel 62	25.14	25.09	24.78	25	0.1954	0.7817
Selenium 77	24.93	25.25	24.82	25	0.2228	0.8913
Selenium 78	24.89	24.62	25.49	25	0.4414	1.766
Selenium 82	24.87	25.09	25.04	25	0.1172	0.4689
Silver 107	24.95	25.09	24.96	25	0.0802	0.3208
Silver 109	25	24.77	25.24	25	0.2349	0.9394
Thallium 203	24.93	24.83	25.25	25	0.2193	0.8773
Thallium 205	24.62	25.19	25.19	25	0.3328	1.331
Tin 118	25.02	24.82	25.17	25	0.1763	0.705
Tin 120	24.62	24.82	25.56	25	0.4949	1.979
Vanadium 51	24.57	25.52	24.91	25	0.4815	1.926
Zinc 66	24.64	25.15	25.21	25	0.3109	1.244
Zinc 68	24.94	24.95	25.1	25	0.0892	0.357

Internal Standard Factors:

Lithium 6	0.937	1.02	1.007	0.937	n/a	n/a
Gallium 71	1.006	1.041	1.052	1.006	n/a	n/a
Rhodium 103	1.001	1.029	1.037	1.001	n/a	n/a
Indium 115	0.985	1.033	1.036	0.985	n/a	n/a
Lutetium 175	0.981	1.035	1.037	0.981	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	ICV1	Mean	SD	%RSD			
TimeStamp	6/7/10 11:51						
Aluminum	27	98.64	98.64	101.4	98.38	3.176	3.228
Antimony	121	24.71	24.81	25.36	24.96	0.3465	1.388
Antimony	123	24.85	25.09	25.2	25.05	0.1788	0.7138
Arsenic	75	24.84	24.73	24.36	24.65	0.2498	1.014
Barium	137	106.2	106.6	107	106.6	0.3742	0.351
Barium	138	109.8	108.6	109	109.1	0.6033	0.5529
Beryllium	9	2.66	2.735	2.708	2.701	0.0379	1.402
Bismuth	209	24.88	25.58	24.39	24.95	0.5988	2.4
Boron	10	25.32	27.22	26.6	26.38	0.97	3.677
Boron	11	26.39	26.17	26.92	26.49	0.3861	1.458
Cadmium	111	12.8	12.9	13.09	12.93	0.1474	1.14
Cadmium	114	13.14	13.6	13.33	13.36	0.2288	1.713
Chromium	52	10.22	10.09	10.37	10.23	0.1374	1.343
Chromium	53	10.7	10.95	10.69	10.78	0.1466	1.36
Cobalt	59	24.18	24.85	24.97	24.67	0.4255	1.725
Copper	63	12.88	12.64	12.61	12.71	0.1481	1.165
Copper	65	12.62	12.51	12.66	12.59	0.0765	0.6077
Lead	206	24.04	24.69	23.99	24.24	0.3908	1.612
Lead	207	27.17	26.67	27.19	27.01	0.2971	1.1
Lead	208	25.89	25.97	25.92	25.93	0.0421	0.1623
Manganese	55	25	25.18	25.85	25.34	0.4487	1.771
Molybdenum	95	25.03	25.56	25.56	25.38	0.3105	1.223
Molybdenum	97	24.84	24.93	25.78	25.18	0.5194	2.063
Molybdenum	98	25.15	25.34	26.28	25.59	0.6043	2.362
Nickel	60	25.64	25.13	25.04	25.27	0.3224	1.276
Nickel	62	25.3	24.72	24.65	24.89	0.3559	1.43
Selenium	77	25.37	25.64	26.03	25.68	0.3311	1.289
Selenium	78	24.72	25.34	25.3	25.12	0.3451	1.374
Selenium	82	25.08	25.76	25.66	25.5	0.3643	1.429
Silver	107	13.56	12.84	13.4	13.27	0.3813	2.874
Silver	109	13.25	13.14	13.22	13.2	0.0587	0.4443
Thallium	203	26.13	26.09	26.55	26.25	0.2562	0.9758
Thallium	205	26.02	26.3	26.79	26.37	0.3868	1.467
Tin	118	24.42	24.54	24.52	24.49	0.0644	0.263
Tin	120	24.21	24.39	24.54	24.38	0.1636	0.6712
Vanadium	51	25.15	24.98	25.85	25.33	0.4586	1.811
Zinc	66	25.91	26.37	26.28	26.19	0.2478	0.9463
Zinc	68	27.71	27.92	28	27.88	0.1459	0.5235

Internal Standard Factors:

Lithium	6	0.967	1.007	1.03	0.967	n/a	n/a
Gallium	71	1.018	1.029	1.031	1.018	n/a	n/a
Rhodium	103	1.006	1.039	1.06	1.006	n/a	n/a
Indium	115	1.012	1.044	1.046	1.012	n/a	n/a
Lutetium	175	1.002	1.041	1.044	1.002	n/a	n/a

Sample Name:	CCV1	Mean	SD	%RSD			
TimeStamp	6/7/10 11:56						
Aluminum	27	23.57	25.48	24.45	24.5	0.956	3.903
Antimony	121	25.07	24.66	25.1	24.94	0.2475	0.9923
Antimony	123	25.37	25.06	25	25.14	0.1946	0.7738
Arsenic	75	24.76	24.38	24.61	24.59	0.1908	0.7759
Barium	137	25.38	25.61	24.73	25.24	0.4585	1.816
Barium	138	24.8	24.8	24.6	24.73	0.1165	0.4708
Beryllium	9	24.88	24.67	25.61	25.05	0.491	1.96
Bismuth	209	24.58	25.33	24.94	24.95	0.3756	1.505
Boron	10	24.38	25.25	26.76	25.46	1.203	4.723
Boron	11	24.9	24.9	25.55	25.12	0.3744	1.491
Cadmium	111	25.45	24.73	24.23	24.8	0.6102	2.46
Cadmium	114	24.6	24.93	24.45	24.66	0.2436	0.9878
Chromium	52	25.01	25.11	25.34	25.15	0.1694	0.6733
Chromium	53	25.28	24.72	25.48	25.16	0.3936	1.564
Cobalt	59	24.85	24.73	24.84	24.8	0.0668	0.2695
Copper	63	25.17	24.2	24.82	24.73	0.4929	1.993
Copper	65	24.82	24.36	24.88	24.69	0.2821	1.143
Lead	206	25.01	25.46	24.66	25.05	0.4004	1.599
Lead	207	24.67	25.51	24.65	24.94	0.4901	1.965
Lead	208	24.92	25.67	24.98	25.19	0.4128	1.639
Manganese	55	25.39	24.7	25.04	25.04	0.3428	1.369
Molybdenum	95	25.18	24.62	25.04	24.95	0.2883	1.156
Molybdenum	97	25.06	24.27	24.63	24.65	0.3958	1.606
Molybdenum	98	25.64	24.6	24.68	24.98	0.5768	2.31
Nickel	60	25.01	24.84	24.7	24.85	0.1578	0.635
Nickel	62	25.63	24.69	25.11	25.14	0.4726	1.88
Selenium	77	25.12	24.3	24.72	24.71	0.4088	1.654
Selenium	78	26.26	25.53	25.1	25.63	0.5898	2.301
Selenium	82	24.35	24.43	24.78	24.52	0.227	0.9257
Silver	107	24.84	24.75	24.86	24.81	0.0588	0.2368
Silver	109	25.31	24.8	25.3	25.14	0.2902	1.154
Thallium	203	24.79	25.59	24.69	25.02	0.4939	1.974
Thallium	205	25.25	26.07	24.99	25.44	0.5605	2.204
Tin	118	25.7	25.04	24.79	25.18	0.4729	1.878
Tin	120	25.08	25.2	25.09	25.12	0.0671	0.267
Vanadium	51	24.92	23.9	24.52	24.45	0.5151	2.107
Zinc	66	25.35	24.38	25.04	24.92	0.4978	1.997
Zinc	68	25.36	24.49	24.99	24.95	0.4395	1.762

**Internal Standard
Factors:**

Lithium	6	0.953	0.991	1.033	0.953	n/a	n/a
Gallium	71	1.047	1.047	1.051	1.047	n/a	n/a
Rhodium	103	1.035	1.049	1.043	1.035	n/a	n/a
Indium	115	1.013	1.031	1.034	1.013	n/a	n/a
Lutetium	175	0.997	1.045	1.028	0.997	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	ICB1	Mean	SD	%RSD
TimeStamp	6/7/10 12:06			
Aluminum 27	0.0075	0.025	0.0131	0.0152 0.0089 58.67
Antimony 121	0.0132	0.0138	0.0103	0.0124 0.0019 15.39
Antimony 123	0.0173	0.0142	0.0133	0.0149 0.0021 14.02
Arsenic 75	0.0057	-0.0281	-0.0241	-0.0155 0.0185 118.9
Barium 137	-0.0014	-0.0019	-0.0013	-0.0015 0.0003 22.13
Barium 138	0.0006	0.0006	0.002	0.0011 0.0008 77.96
Beryllium 9	0.0017	-0.0013	-0.0028	-0.0008 0.0023 288.8
Bismuth 209	0.0027	0.0037	0.0014	0.0026 0.0011 44.71
Boron 10	0.0472	0.0222	0.0255	0.0316 0.0135 42.79
Boron 11	0.0297	0.0268	0.0294	0.0286 0.0016 5.468
Cadmium 111	0.0026	0.0013	0.0025	0.0021 0.0008 35.39
Cadmium 114	0.0003	-0.0008	-0.0006	-0.0004 0.0006 161.3
Chromium 52	-0.0601	-0.0294	0.0002	-0.0298 0.0302 101.3
Chromium 53	0.0285	0.0483	0.0349	0.0372 0.0101 27.18
Cobalt 59	0.0057	0.0018	-0.0004	0.0024 0.0031 131
Copper 63	-0.0299	-0.024	-0.0105	-0.0215 0.01 46.41
Copper 65	-0.0001	0.0001	0.0077	0.0026 0.0044 172.2
Lead 206	0.0015	-0.0005	-0.0014	-0.0002 0.0015 975.8
Lead 207	0.0024	0.0006	0.0043	0.0024 0.0019 76.72
Lead 208	0	0.0009	0.0002	0.0004 0.0005 122.7
Manganese 55	-0.0032	-0.0009	0.0033	-0.0003 0.0033 1290
Molybdenum 95	0.0036	0.0059	0.0045	0.0047 0.0012 24.94
Molybdenum 97	0.0059	0.0054	0.006	0.0057 0.0003 5.462
Molybdenum 98	0.0086	0.0059	0.0075	0.0073 0.0014 18.53
Nickel 60	-0.0291	0.0159	0.0025	-0.0036 0.0231 651.5
Nickel 62	-0.1986	-0.1883	0.0623	-0.1082 0.1477 136.5
Selenium 77	-0.0849	0.0174	0.0338	-0.0112 0.0644 573.8
Selenium 78	0.0202	0.085	-0.0708	0.0115 0.0783 682.5
Selenium 82	-0.0383	-0.0955	-0.0422	-0.0587 0.032 54.53
Silver 107	0.0073	0.0043	0.006	0.0059 0.0015 25.94
Silver 109	0.0064	0.0058	0.0038	0.0053 0.0014 26.3
Thallium 203	0.0033	0.0018	0.0027	0.0026 0.0008 29.71
Thallium 205	0.0013	0.0018	0.0018	0.0016 0.0003 19.23
Tin 118	0.0126	0.0119	0.0122	0.0122 0.0003 2.828
Tin 120	0.013	0.012	0.0071	0.0107 0.0031 29.22
Vanadium 51	-0.0163	-0.012	0.0019	-0.0088 0.0095 108.2
Zinc 66	-0.022	-0.0253	-0.0129	-0.0201 0.0064 31.91
Zinc 68	-0.0267	-0.005	-0.0174	-0.0164 0.0109 66.36

Internal Standard Factors:

Lithium 6	0.932	0.986	1.001	0.932 n/a n/a
Gallium 71	1.004	1.048	1.037	1.004 n/a n/a
Rhodium 103	0.99	1.04	1.025	0.99 n/a n/a
Indium 115	0.976	1.019	1.017	0.976 n/a n/a
Lutetium 175	0.978	0.993	1.012	0.978 n/a n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCB1	Mean	SD	%RSD			
TimeStamp	6/7/10 12:17						
Aluminum	27	-0.0182	0.0061	-0.0067	-0.0062	0.0121	194.3
Antimony	121	0.0031	0.0061	0.0045	0.0046	0.0015	32.95
Antimony	123	0.0056	0.0071	0.0054	0.006	0.0009	15.08
Arsenic	75	-0.0437	-0.0372	0.0298	-0.017	0.0407	239.3
Barium	137	0.0024	-0.0014	0.0011	0.0007	0.0019	277.7
Barium	138	-0.0002	0.0019	0.0013	0.001	0.0011	105.6
Beryllium	9	-0.0029	0.0014	0.001	-0.0002	0.0024	1354
Bismuth	209	-0.0024	-0.0015	-0.0024	-0.0021	0.0005	24.29
Boron	10	-0.0132	-0.0104	-0.0213	-0.015	0.0057	37.76
Boron	11	-0.0172	-0.007	-0.0315	-0.0186	0.0123	66.31
Cadmium	111	0.0035	0.0012	0.0015	0.0021	0.0013	61.23
Cadmium	114	0.0003	0.0001	-0.0002	0.0001	0.0003	387.7
Chromium	52	-0.0661	-0.0341	-0.0497	-0.05	0.016	32
Chromium	53	0.0052	0.0116	0.0039	0.0069	0.0041	59.58
Cobalt	59	0.0029	0.0002	-0.0031	0	0.003	25970
Copper	63	-0.0201	-0.0242	-0.0305	-0.025	0.0052	20.98
Copper	65	-0.0017	-0.0019	-0.0104	-0.0046	0.005	106.8
Lead	206	0	0.0009	0.0006	0.0005	0.0005	91.29
Lead	207	0.0028	0.002	0.0012	0.002	0.0008	38.54
Lead	208	0.0005	0.0008	0.001	0.0007	0.0003	34.95
Manganese	55	-0.0033	-0.0009	-0.0004	-0.0015	0.0016	102
Molybdenum	95	-0.001	-0.0023	0.0002	-0.001	0.0012	117.7
Molybdenum	97	0.002	0.0022	0.0046	0.0029	0.0015	50.24
Molybdenum	98	0.0011	0.0032	0.0029	0.0024	0.0011	45.91
Nickel	60	-0.0076	0.0092	-0.0046	-0.001	0.0089	882.6
Nickel	62	-0.146	-0.1791	-0.2629	-0.196	0.0602	30.73
Selenium	77	-0.054	-0.0134	-0.0522	-0.0399	0.023	57.63
Selenium	78	0.0016	-0.0628	-0.2121	-0.0911	0.1096	120.4
Selenium	82	-0.1801	-0.1238	0.0453	-0.0862	0.1173	136.1
Silver	107	-0.0002	-0.0008	-0.0022	-0.001	0.0011	101
Silver	109	-0.0026	-0.001	-0.002	-0.0019	0.0008	42.32
Thallium	203	0.0009	0.0009	0.0024	0.0014	0.0008	59.72
Thallium	205	0.0002	0.0004	0.0002	0.0003	0.0001	34.03
Tin	118	0.0038	0.0037	0.0013	0.0029	0.0014	48.2
Tin	120	0.0007	0.003	0.0009	0.0015	0.0013	82.18
Vanadium	51	-0.0226	-0.0144	-0.0181	-0.0184	0.0041	22.25
Zinc	66	-0.0183	-0.0293	-0.0287	-0.0255	0.0062	24.34
Zinc	68	-0.0146	-0.029	-0.0302	-0.0246	0.0087	35.21

Internal Standard Factors:

Lithium	6	0.9	0.949	0.957	0.9 n/a	n/a
Gallium	71	1.016	1.037	0.992	1.016 n/a	n/a
Rhodium	103	0.971	0.989	1.014	0.971 n/a	n/a
Indium	115	0.978	1.016	1.008	0.978 n/a	n/a
Lutetium	175	0.948	0.979	0.983	0.948 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		WATER CRA			Mean	SD	%RSD
TimeStamp		6/7/10 12:21					
Aluminum	27	2.237	2.407	2.229	2.291	0.1008	4.4
Antimony	121	0.0591	0.0611	0.0524	0.0575	0.0045	7.902
Antimony	123	0.0574	0.0572	0.0486	0.0544	0.005	9.27
Arsenic	75	0.5482	0.6015	0.6281	0.5926	0.0406	6.86
Barium	137	0.0498	0.0608	0.05	0.0536	0.0063	11.77
Barium	138	0.0596	0.0593	0.0526	0.0571	0.0039	6.885
Beryllium	9	0.0123	0.023	0.0179	0.0177	0.0053	29.94
Bismuth	209	0.0511	0.0579	0.0467	0.0519	0.0056	10.88
Boron	10	0.5833	0.6158	0.6022	0.6004	0.0163	2.717
Boron	11	0.5628	0.5744	0.6082	0.5818	0.0236	4.059
Cadmium	111	0.0171	0.0192	0.0168	0.0177	0.0013	7.304
Cadmium	114	0.0203	0.02	0.0218	0.0207	0.0009	4.498
Chromium	52	0.1632	0.2301	0.2093	0.2009	0.0343	17.06
Chromium	53	0.1954	0.2055	0.18	0.1936	0.0129	6.651
Cobalt	59	0.0194	0.0224	0.019	0.0203	0.0019	9.296
Copper	63	0.0999	0.1149	0.0965	0.1038	0.0097	9.387
Copper	65	0.1404	0.1268	0.1314	0.1329	0.0069	5.188
Lead	206	0.0225	0.024	0.0181	0.0215	0.0031	14.26
Lead	207	0.0264	0.0283	0.0235	0.0261	0.0024	9.212
Lead	208	0.0245	0.0254	0.0203	0.0234	0.0027	11.66
Manganese	55	0.0544	0.0615	0.0575	0.0578	0.0036	6.193
Molybdenum	95	0.044	0.0555	0.041	0.0468	0.0076	16.34
Molybdenum	97	0.0576	0.0537	0.0502	0.0538	0.0037	6.81
Molybdenum	98	0.0508	0.0573	0.0499	0.0527	0.004	7.657
Nickel	60	0.2458	0.2413	0.2438	0.2436	0.0023	0.9333
Nickel	62	-0.1362	0.0689	-0.0853	-0.0509	0.1068	210
Selenium	77	0.8895	0.9722	1.001	0.9542	0.0578	6.062
Selenium	78	0.9472	1.102	0.936	0.995	0.0926	9.307
Selenium	82	0.9329	1.049	1.21	1.064	0.1393	13.09
Silver	107	0.0156	0.0167	0.017	0.0164	0.0008	4.591
Silver	109	0.016	0.0151	0.0173	0.0161	0.0011	7.068
Thallium	203	0.0205	0.0226	0.0195	0.0209	0.0016	7.516
Thallium	205	0.0225	0.0212	0.0211	0.0216	0.0008	3.595
Tin	118	0.055	0.0617	0.0494	0.0554	0.0062	11.14
Tin	120	0.0593	0.0602	0.051	0.0568	0.005	8.883
Vanadium	51	0.1822	0.2307	0.216	0.2096	0.0249	11.88
Zinc	66	0.5306	0.5828	0.5663	0.5599	0.0267	4.763
Zinc	68	0.5669	0.6191	0.5802	0.5887	0.0271	4.603

Internal Standard
Factors:

Lithium	6	0.906	0.969	0.954	0.906	n/a	n/a
Gallium	71	0.985	1.037	1.003	0.985	n/a	n/a
Rhodium	103	0.955	1.02	0.98	0.955	n/a	n/a
Indium	115	0.985	1.028	0.972	0.985	n/a	n/a
Lutetium	175	0.969	1.037	0.977	0.969	n/a	n/a

Sample Name:		K1005055-MB			Mean	SD	%RSD
TimeStamp		6/7/10 12:38					
Aluminum	27	-0.0074	-0.0182	0.009	-0.0055	0.0137	247.8
Antimony	121	-0.0025	-0.0042	-0.0038	-0.0035	0.0009	26.26
Antimony	123	-0.0018	-0.0012	-0.0018	-0.0016	0.0004	23.25
Arsenic	75	-0.0298	0.034	-0.0292	-0.0083	0.0367	439.8
Barium	137	-0.0057	-0.0067	-0.0051	-0.0058	0.0008	14.07
Barium	138	-0.0046	-0.005	-0.0052	-0.0049	0.0003	6.386
Beryllium	9	-0.0065	-0.0035	-0.0015	-0.0038	0.0025	64.45
Bismuth	209	-0.0088	-0.0074	-0.0074	-0.0079	0.0008	10.24
Boron	10	-0.0271	-0.0245	-0.0066	-0.0194	0.0112	57.45
Boron	11	-0.0349	-0.0235	-0.0269	-0.0285	0.0059	20.57
Cadmium	111	-0.0024	-0.003	-0.001	-0.0021	0.001	48.98
Cadmium	114	-0.0025	-0.0033	-0.0029	-0.0029	0.0004	13.21
Chromium	52	-0.0617	-0.0344	-0.0279	-0.0413	0.018	43.43
Chromium	53	-0.0269	-0.0241	-0.0169	-0.0226	0.0051	22.72
Cobalt	59	-0.0016	-0.0013	-0.0012	-0.0014	0.0002	15.96
Copper	63	-0.0172	-0.0345	-0.0277	-0.0265	0.0087	32.88
Copper	65	0.005	-0.0052	-0.006	-0.0021	0.0061	293.9
Lead	206	-0.0047	-0.0026	-0.0027	-0.0033	0.0012	34.73
Lead	207	-0.0004	-0.0003	-0.0018	-0.0009	0.0008	96.1
Lead	208	-0.0033	-0.0026	-0.0037	-0.0032	0.0006	17.07
Manganese	55	-0.0088	-0.0074	-0.0072	-0.0078	0.0009	11.09
Molybdenum	95	-0.004	-0.0041	-0.0056	-0.0046	0.0009	20.04
Molybdenum	97	-0.002	-0.0034	-0.0054	-0.0036	0.0017	47.6
Molybdenum	98	-0.002	-0.0023	-0.0027	-0.0023	0.0003	14.98
Nickel	60	-0.0058	-0.0008	0.0074	0.0003	0.0066	2552
Nickel	62	-0.381	-0.4011	-0.1986	-0.3269	0.1116	34.13
Selenium	77	-0.0464	-0.0424	-0.028	-0.0389	0.0097	24.82
Selenium	78	-0.0112	0.0239	0.1397	0.0508	0.079	155.4
Selenium	82	-0.1232	0.0743	-0.1169	-0.0553	0.1122	203
Silver	107	-0.0104	-0.0114	-0.0102	-0.0107	0.0006	5.897
Silver	109	-0.0108	-0.0104	-0.0109	-0.0107	0.0003	2.573
Thallium	203	-0.003	-0.0032	-0.0026	-0.0029	0.0003	11.1
Thallium	205	-0.0037	-0.0038	-0.0035	-0.0036	0.0002	4.763
Tin	118	-0.0073	-0.0086	-0.0074	-0.0078	0.0007	8.991
Tin	120	-0.008	-0.0107	-0.0104	-0.0097	0.0015	15.06
Vanadium	51	-0.0186	-0.0119	-0.0097	-0.0134	0.0047	34.8
Zinc	66	-0.0085	-0.0183	-0.0107	-0.0125	0.0052	41.44
Zinc	68	-0.0014	-0.0009	0.0026	0.0001	0.0022	1824

**Internal Standard
Factors:**

Lithium	6	0.993	0.962	1.026	0.993 n/a	n/a
Gallium	71	1.022	1.032	1.033	1.022 n/a	n/a
Rhodium	103	0.998	1.032	1.017	0.998 n/a	n/a
Indium	115	1.005	1.025	1.062	1.005 n/a	n/a
Lutetium	175	1	1.056	1.052	1 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-008			Mean	SD	%RSD
TimeStamp		6/7/10 12:42					
Aluminum	27	391.9	396.7	399.2	395.9	3.676	0.9286
Antimony	121	0.0613	0.0602	0.0477	0.0564	0.0076	13.44
Antimony	123	0.062	0.0578	0.0554	0.0584	0.0033	5.735
Arsenic	75	0.464	0.5416	0.6051	0.5369	0.0707	13.16
Barium	137	1.872	1.876	1.845	1.864	0.0171	0.9196
Barium	138	1.878	1.853	1.871	1.867	0.0128	0.6845
Beryllium	9	0.936	0.9763	0.9691	0.9605	0.0215	2.238
Bismuth	209	-0.0064	-0.0069	-0.0068	-0.0067	0.0003	4.043
Boron	10	12.24	12.62	12.48	12.45	0.1918	1.54
Boron	11	12.54	12.58	12.69	12.6	0.073	0.5793
Cadmium	111	1.421	1.424	1.357	1.401	0.0382	2.726
Cadmium	114	1.376	1.397	1.382	1.385	0.0109	0.7897
Chromium	52	0.2579	0.2574	0.291	0.2688	0.0193	7.168
Chromium	53	0.1638	0.1947	0.1758	0.1781	0.0156	8.759
Cobalt	59	25.07	25.78	25.16	25.34	0.3861	1.524
Copper	63	2983	2999	2962	2981	18.33	0.6148
Copper	65	3007	2965	3006	2992	23.88	0.7979
Lead	206	1.574	1.672	1.664	1.637	0.0545	3.328
Lead	207	1.726	1.866	1.864	1.819	0.0804	4.421
Lead	208	1.69	1.808	1.778	1.759	0.0612	3.482
Manganese	55	1492	1537	1522	1517	22.82	1.505
Molybdenum	95	0.0201	0.0191	0.028	0.0224	0.0049	21.68
Molybdenum	97	0.0034	0.0053	0.0033	0.004	0.0011	27.9
Molybdenum	98	0.0117	0.0104	0.0079	0.01	0.0019	19.29
Nickel	60	82.07	84.81	80.34	82.41	2.256	2.737
Nickel	62	81.33	82.77	83.06	82.39	0.9264	1.124
Selenium	77	6.602	6.447	6.348	6.465	0.1279	1.979
Selenium	78	6.882	6.757	6.785	6.808	0.0657	0.9653
Selenium	82	6.386	6.439	6.657	6.494	0.1439	2.215
Silver	107	0.0019	0.0038	0.0037	0.0031	0.001	33.34
Silver	109	0.003	0.0038	-0.0001	0.0022	0.0021	91.39
Thallium	203	0.3657	0.3701	0.3777	0.3712	0.006	1.622
Thallium	205	0.367	0.3663	0.3657	0.3663	0.0006	0.1731
Tin	118	0.0136	0.0129	0.0106	0.0124	0.0016	12.99
Tin	120	0.008	0.0097	0.0104	0.0093	0.0012	13.34
Vanadium	51	0.0304	0.0227	0.0352	0.0294	0.0063	21.55
Zinc	66	186.1	185.3	183	184.8	1.613	0.8729
Zinc	68	192.6	195.3	188.9	192.3	3.218	1.674

Internal Standard Factors:

Lithium	6	1.056	1.12	1.134	1.056	n/a	n/a
Gallium	71	1.146	1.176	1.156	1.146	n/a	n/a
Rhodium	103	1.108	1.162	1.141	1.108	n/a	n/a
Indium	115	1.081	1.136	1.113	1.081	n/a	n/a
Lutetium	175	1.044	1.093	1.09	1.044	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-008S			Mean	SD	%RSD
TimeStamp		6/7/10 12:47					
Aluminum	27	435.1	431.1	435.5	433.9	2.441	0.5627
Antimony	121	21.25	20.91	20.26	20.81	0.5012	2.409
Antimony	123	20.56	20.97	21.06	20.86	0.2686	1.287
Arsenic	75	21.88	20.94	21.24	21.36	0.481	2.252
Barium	137	23.23	22.68	22.17	22.7	0.5293	2.332
Barium	138	22.56	22.81	22.31	22.56	0.2518	1.116
Beryllium	9	21.07	22.2	21.42	21.56	0.5762	2.672
Bismuth	209	19.67	19.61	19.25	19.51	0.23	1.179
Boron	10	32.19	33.17	31.69	32.35	0.7532	2.328
Boron	11	32.71	33.29	32.22	32.74	0.5335	1.629
Cadmium	111	22.06	21.97	21.58	21.87	0.2573	1.176
Cadmium	114	21.77	22.16	21.68	21.87	0.2536	1.159
Chromium	52	20.72	21.13	20.62	20.82	0.2712	1.302
Chromium	53	19.97	20.88	20.95	20.6	0.5477	2.659
Cobalt	59	45.95	45.91	45.74	45.87	0.1105	0.2409
Copper	63	2971	3080	2994	3015	57.55	1.909
Copper	65	2934	3034	3025	2998	55.17	1.84
Lead	206	21.63	21.39	21.05	21.36	0.2903	1.359
Lead	207	21.01	21.24	21.62	21.29	0.3116	1.464
Lead	208	21.37	21.37	21.2	21.31	0.098	0.46
Manganese	55	1510	1608	1586	1568	51.28	3.27
Molybdenum	95	20.96	21.16	20.74	20.95	0.2058	0.982
Molybdenum	97	20.84	20.76	20.75	20.78	0.0506	0.2434
Molybdenum	98	21.12	21.69	21.52	21.44	0.2957	1.379
Nickel	60	103.5	102	102.8	102.8	0.7672	0.7464
Nickel	62	100	103.7	103	102.3	1.967	1.923
Selenium	77	26.61	27.6	27.64	27.29	0.584	2.14
Selenium	78	27.31	27.5	26.89	27.24	0.3091	1.135
Selenium	82	27.96	26.26	27.39	27.2	0.8633	3.174
Silver	107	20.37	20.2	19.79	20.12	0.2949	1.466
Silver	109	19.95	20.42	20.45	20.27	0.2794	1.378
Thallium	203	20.44	20.42	20.37	20.41	0.0371	0.1816
Thallium	205	20.77	20.13	20.88	20.59	0.402	1.952
Tin	118	21.07	20.21	21.01	20.76	0.4804	2.314
Tin	120	21.7	20.77	21.07	21.18	0.478	2.257
Vanadium	51	20.03	20.54	20.06	20.21	0.2844	1.407
Zinc	66	210.4	201.3	199.6	203.8	5.772	2.832
Zinc	68	206.7	207.8	210.9	208.4	2.152	1.032

Internal Standard Factors:

Lithium	6	1.077	1.163	1.116	1.077	n/a	n/a
Gallium	71	1.161	1.179	1.172	1.161	n/a	n/a
Rhodium	103	1.107	1.165	1.14	1.107	n/a	n/a
Indium	115	1.118	1.14	1.132	1.118	n/a	n/a
Lutetium	175	1.055	1.085	1.092	1.055	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-008SD			Mean	SD	%RSD
TimeStamp		6/7/10 12:51					
Aluminum	27	417.8	431.4	406.5	418.5	12.45	2.975
Antimony	121	20.65	20.1	20.12	20.29	0.3153	1.554
Antimony	123	20.38	20.1	20.26	20.24	0.1404	0.6937
Arsenic	75	21.4	21.38	20.9	21.22	0.2826	1.331
Barium	137	22.77	22.54	21.84	22.38	0.4797	2.143
Barium	138	22.21	22.08	22.04	22.11	0.0885	0.4004
Beryllium	9	21.39	21.72	20.77	21.29	0.4775	2.243
Bismuth	209	19.03	19.05	19.1	19.06	0.0365	0.1912
Boron	10	31.24	33.12	32.77	32.37	0.9968	3.079
Boron	11	32.27	33.61	32.74	32.87	0.6804	2.07
Cadmium	111	20.45	21.29	21.09	20.94	0.438	2.091
Cadmium	114	21.61	20.99	20.86	21.15	0.4013	1.897
Chromium	52	20.39	20.53	20.05	20.32	0.2499	1.229
Chromium	53	19.78	19.76	20.1	19.88	0.1911	0.9612
Cobalt	59	44.92	44.41	44.75	44.69	0.2569	0.5747
Copper	63	2997	2964	2971	2977	17.52	0.5884
Copper	65	3012	2984	2921	2972	46.66	1.57
Lead	206	20.96	21.16	21.04	21.05	0.0982	0.4663
Lead	207	21.02	20.98	20.7	20.9	0.1773	0.8484
Lead	208	21.06	21.34	21.06	21.16	0.1596	0.7544
Manganese	55	1476	1554	1488	1506	41.62	2.763
Molybdenum	95	20.91	20.64	20.6	20.72	0.1718	0.8292
Molybdenum	97	20.72	20.56	20.07	20.45	0.3374	1.65
Molybdenum	98	20.7	21.09	20.54	20.78	0.2855	1.374
Nickel	60	99.16	101	98.85	99.67	1.168	1.172
Nickel	62	99.89	101.5	99.71	100.4	0.965	0.9616
Selenium	77	26.65	25.99	26.38	26.34	0.3322	1.261
Selenium	78	26.96	26.92	26.72	26.87	0.1289	0.4798
Selenium	82	26.95	25.86	26.5	26.43	0.5485	2.075
Silver	107	20.45	20.42	20.21	20.36	0.1318	0.6476
Silver	109	20.16	19.93	20.02	20.04	0.1174	0.586
Thallium	203	19.9	19.94	20.25	20.03	0.1913	0.9551
Thallium	205	20.23	19.64	20.35	20.07	0.3777	1.881
Tin	118	20.48	20.12	20.43	20.34	0.1938	0.9526
Tin	120	20.74	20.25	20.17	20.39	0.3069	1.505
Vanadium	51	19.44	20.32	19.26	19.67	0.57	2.897
Zinc	66	202.8	195.9	200.9	199.9	3.553	1.778
Zinc	68	206.2	203.4	206.1	205.2	1.57	0.7652

Internal Standard Factors:

Lithium	6	1.086	1.119	1.114	1.086	n/a	n/a
Gallium	71	1.128	1.145	1.131	1.128	n/a	n/a
Rhodium	103	1.106	1.128	1.115	1.106	n/a	n/a
Indium	115	1.077	1.085	1.099	1.077	n/a	n/a
Lutetium	175	1.025	1.028	1.075	1.025	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		LCSW K1005055			Mean	SD	%RSD
TimeStamp		6/7/10 12:56					
Aluminum	27	20.01	20.65	20.48	20.38	0.3328	1.633
Antimony	121	20.19	20.25	20.18	20.21	0.0418	0.2067
Antimony	123	20.29	20.36	20.81	20.48	0.2851	1.392
Arsenic	75	19.7	20.12	19.29	19.7	0.4128	2.095
Barium	137	20.61	20.87	20.74	20.74	0.1306	0.6297
Barium	138	20.3	20.67	20.63	20.53	0.2038	0.9928
Beryllium	9	19.88	21.15	20.86	20.63	0.6666	3.231
Bismuth	209	20.82	20.83	21.63	21.09	0.4644	2.202
Boron	10	19.46	20.65	20.95	20.35	0.7894	3.878
Boron	11	20.12	20.1	19.99	20.07	0.0697	0.3471
Cadmium	111	19.95	20.27	20.59	20.27	0.3215	1.586
Cadmium	114	20.22	20.52	20.8	20.51	0.2919	1.423
Chromium	52	20.31	21.33	20.56	20.73	0.531	2.561
Chromium	53	20.04	20.32	19.48	19.95	0.4291	2.151
Cobalt	59	19.91	19.97	19.83	19.9	0.0675	0.3389
Copper	63	20.41	20.87	20.1	20.46	0.3852	1.882
Copper	65	20.86	20.23	19.76	20.29	0.5498	2.71
Lead	206	20.46	20.54	21.05	20.68	0.3193	1.544
Lead	207	20.31	21.31	21.03	20.88	0.5185	2.483
Lead	208	20.61	20.8	21.38	20.93	0.3999	1.911
Manganese	55	19.76	20.68	19.95	20.13	0.4866	2.417
Molybdenum	95	20.3	19.82	19.98	20.03	0.2427	1.211
Molybdenum	97	20.29	20.16	19.62	20.02	0.3555	1.776
Molybdenum	98	20.29	20.46	20.12	20.29	0.1692	0.8338
Nickel	60	20.37	20.23	20	20.2	0.1876	0.9283
Nickel	62	19.76	19.92	19.66	19.78	0.1287	0.6504
Selenium	77	20.34	21.13	20.14	20.54	0.5228	2.546
Selenium	78	20.39	20.75	20	20.38	0.3752	1.841
Selenium	82	20.26	20.96	20.01	20.41	0.4929	2.415
Silver	107	20.63	20.66	20.64	20.64	0.0166	0.0802
Silver	109	20.6	20.77	20.58	20.65	0.1053	0.5099
Thallium	203	20.69	21.42	21.22	21.11	0.3793	1.796
Thallium	205	21.15	21.18	21.45	21.26	0.1645	0.7739
Tin	118	20.48	20.61	21.1	20.73	0.3277	1.581
Tin	120	20.52	20.59	21.05	20.72	0.292	1.409
Vanadium	51	20.01	20.64	20.02	20.22	0.3638	1.799
Zinc	66	20.57	20.37	19.69	20.21	0.4635	2.294
Zinc	68	20.85	20.68	19.87	20.47	0.5211	2.546

Internal Standard Factors:

Lithium	6	0.951	1.023	1.026	0.951	n/a	n/a
Gallium	71	0.991	1.019	0.986	0.991	n/a	n/a
Rhodium	103	0.969	1.001	0.989	0.969	n/a	n/a
Indium	115	0.947	0.993	1.003	0.947	n/a	n/a
Lutetium	175	0.961	1.002	1.014	0.961	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		LCSW K1005055D			Mean	SD	%RSD
TimeStamp		6/7/10 13:01					
Aluminum	27	20.29	20.71	19.7	20.24	0.5064	2.503
Antimony	121	20.31	20.21	21.06	20.53	0.4607	2.244
Antimony	123	20.66	19.99	21.44	20.69	0.7265	3.511
Arsenic	75	19.91	19.67	20.26	19.95	0.3	1.504
Barium	137	20.35	20.9	21.09	20.78	0.385	1.852
Barium	138	20.53	20.76	20.58	20.63	0.121	0.5868
Beryllium	9	21.33	21.69	20.46	21.16	0.63	2.977
Bismuth	209	21.02	21.79	20.96	21.26	0.4613	2.17
Boron	10	21.18	21.2	20.67	21.02	0.3036	1.444
Boron	11	20.83	20.68	20.63	20.71	0.101	0.4876
Cadmium	111	20.02	19.77	20.92	20.24	0.6073	3.001
Cadmium	114	20.42	20.22	20.98	20.54	0.3965	1.93
Chromium	52	21.03	20.73	20.91	20.89	0.1538	0.7363
Chromium	53	19.68	20.07	20.06	19.94	0.2201	1.104
Cobalt	59	20.24	20.04	19.73	20	0.261	1.305
Copper	63	20.27	20.33	20.08	20.23	0.135	0.6676
Copper	65	20.41	20.31	19.72	20.15	0.372	1.847
Lead	206	20.83	21.4	20.7	20.97	0.3701	1.764
Lead	207	20.28	20.91	20.31	20.5	0.353	1.722
Lead	208	20.78	21.27	20.71	20.92	0.3044	1.455
Manganese	55	19.91	20.18	19.71	19.93	0.2352	1.18
Molybdenum	95	20.31	19.52	20.48	20.1	0.5159	2.566
Molybdenum	97	20.52	19.61	19.82	19.98	0.4785	2.395
Molybdenum	98	20.09	20.12	20.34	20.18	0.1356	0.6721
Nickel	60	20.42	20.49	20.56	20.49	0.0693	0.338
Nickel	62	20.06	19.6	20.12	19.93	0.283	1.42
Selenium	77	19.97	20.5	19.61	20.03	0.4498	2.246
Selenium	78	20.57	20.31	20.55	20.48	0.1437	0.7017
Selenium	82	19.81	20.2	20.37	20.13	0.2892	1.437
Silver	107	20.64	20.32	21.32	20.76	0.5116	2.465
Silver	109	20.56	20.57	20.78	20.64	0.1223	0.5925
Thallium	203	20.64	20.91	20.2	20.58	0.3586	1.742
Thallium	205	21.04	21.33	20.88	21.08	0.2258	1.071
Tin	118	20.59	20.67	21.29	20.85	0.3844	1.843
Tin	120	20.72	20.71	21.77	21.07	0.6074	2.883
Vanadium	51	20.38	20.43	20.38	20.4	0.0285	0.1397
Zinc	66	20.04	20.17	20.05	20.09	0.0743	0.3699
Zinc	68	20.79	20.04	20.55	20.46	0.3821	1.868

Internal Standard Factors:

Lithium	6	1.019	1.038	1.005	1.019	n/a	n/a
Gallium	71	0.983	1.005	0.998	0.983	n/a	n/a
Rhodium	103	0.987	0.982	1.007	0.987	n/a	n/a
Indium	115	0.965	0.987	1.025	0.965	n/a	n/a
Lutetium	175	0.971	1.007	0.998	0.971	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-001			Mean	SD	%RSD
TimeStamp		6/7/10 13:10					
Aluminum	27	24.49	24.54	24.36	24.46	0.0926	0.3787
Antimony	121	0.1155	0.1101	0.1209	0.1155	0.0054	4.659
Antimony	123	0.124	0.1302	0.1169	0.1237	0.0066	5.36
Arsenic	75	0.5511	0.436	0.5152	0.5008	0.0589	11.76
Barium	137	6.48	6.408	6.485	6.457	0.0432	0.6687
Barium	138	6.488	6.328	6.434	6.417	0.0814	1.268
Beryllium	9	-0.0005	0.0033	-0.0014	0.0005	0.0025	529.6
Bismuth	209	0.0031	0.002	0.0016	0.0022	0.0008	37.11
Boron	10	30.27	31.47	32.86	31.54	1.297	4.113
Boron	11	30.31	31.37	33.49	31.72	1.62	5.108
Cadmium	111	0.0117	0.0117	0.0123	0.0119	0.0004	2.977
Cadmium	114	0.0087	0.0074	0.0087	0.0083	0.0008	9.179
Chromium	52	0.3493	0.376	0.4172	0.3808	0.0342	8.989
Chromium	53	0.229	0.2428	0.2494	0.2404	0.0104	4.341
Cobalt	59	0.0725	0.0731	0.0778	0.0745	0.0029	3.961
Copper	63	1.84	1.939	1.951	1.91	0.0609	3.188
Copper	65	0.7041	0.7011	0.7093	0.7048	0.0042	0.5939
Lead	206	0.0138	0.0166	0.0165	0.0156	0.0016	9.955
Lead	207	0.0194	0.0233	0.0171	0.0199	0.0031	15.77
Lead	208	0.0169	0.018	0.017	0.0173	0.0006	3.621
Manganese	55	6.102	6.029	6.212	6.114	0.092	1.505
Molybdenum	95	3.476	3.529	3.549	3.518	0.038	1.079
Molybdenum	97	3.508	3.558	3.604	3.557	0.0479	1.346
Molybdenum	98	3.511	3.666	3.546	3.575	0.0814	2.277
Nickel	60	0.1789	0.1847	0.188	0.1839	0.0046	2.528
Nickel	62	1.023	1.164	1.22	1.136	0.1016	8.948
Selenium	77	0.2335	0.356	0.4097	0.3331	0.0903	27.12
Selenium	78	0.6052	0.6493	0.6771	0.6439	0.0362	5.625
Selenium	82	0.3385	0.127	0.4357	0.3004	0.1579	52.55
Silver	107	-0.0012	-0.0014	-0.0025	-0.0017	0.0007	41.7
Silver	109	-0.0003	-0.0013	-0.0044	-0.002	0.0021	106.9
Thallium	203	0.0018	0.0027	0.0032	0.0026	0.0008	29.14
Thallium	205	0.0017	0.0018	0.0005	0.0013	0.0007	54.69
Tin	118	0.0273	0.0242	0.027	0.0262	0.0017	6.508
Tin	120	0.0199	0.0227	0.022	0.0215	0.0014	6.657
Vanadium	51	0.1003	0.1028	0.1155	0.1062	0.0082	7.698
Zinc	66	3.574	3.616	3.599	3.597	0.0212	0.5896
Zinc	68	3.709	3.769	3.742	3.74	0.0302	0.8064

Internal Standard Factors:

Lithium	6	1.015	1.024	1.052	1.015	n/a	n/a
Gallium	71	1.101	1.095	1.083	1.101	n/a	n/a
Rhodium	103	1.042	1.067	1.043	1.042	n/a	n/a
Indium	115	1.02	1.035	1.044	1.02	n/a	n/a
Lutetium	175	0.991	1.022	1.045	0.991	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-002			Mean	SD	%RSD
TimeStamp		6/7/10 13:19					
Aluminum	27	56.64	60.07	58.5	58.4	1.718	2.941
Antimony	121	0.1387	0.1368	0.1303	0.1353	0.0044	3.27
Antimony	123	0.1435	0.1407	0.1508	0.145	0.0052	3.614
Arsenic	75	0.6355	0.5565	0.6111	0.601	0.0405	6.735
Barium	137	7.706	7.518	7.418	7.547	0.1464	1.94
Barium	138	7.555	7.475	7.32	7.45	0.1195	1.604
Beryllium	9	0.0012	0.0002	-0.0012	0.0001	0.0012	2286
Bismuth	209	-0.0022	-0.0022	-0.0029	-0.0025	0.0004	16.95
Boron	10	35.89	39.39	38.53	37.94	1.825	4.81
Boron	11	37.34	38.15	38.98	38.16	0.8215	2.153
Cadmium	111	0.0106	0.0051	0.0105	0.0088	0.0031	35.82
Cadmium	114	0.0066	0.0064	0.0081	0.007	0.0009	12.89
Chromium	52	0.2995	0.3645	0.3017	0.3219	0.0369	11.46
Chromium	53	0.1711	0.1854	0.1767	0.1777	0.0072	4.041
Cobalt	59	0.0881	0.0864	0.0904	0.0883	0.002	2.264
Copper	63	2.067	2.12	2.132	2.106	0.0347	1.648
Copper	65	0.6942	0.7271	0.7122	0.7112	0.0165	2.32
Lead	206	0.0175	0.0226	0.0179	0.0193	0.0028	14.65
Lead	207	0.0234	0.0232	0.0232	0.0233	0.0001	0.4894
Lead	208	0.022	0.0222	0.0228	0.0224	0.0004	1.908
Manganese	55	7.646	7.842	7.487	7.659	0.1781	2.326
Molybdenum	95	4.177	4.12	4.191	4.162	0.0377	0.9066
Molybdenum	97	4.146	4.074	4.072	4.097	0.0421	1.027
Molybdenum	98	4.21	4.255	4.126	4.197	0.0659	1.571
Nickel	60	0.181	0.2136	0.1949	0.1965	0.0164	8.337
Nickel	62	1.899	1.957	1.846	1.901	0.0557	2.93
Selenium	77	0.3908	0.5187	0.3264	0.412	0.0979	23.75
Selenium	78	0.7041	0.877	0.688	0.7564	0.1048	13.85
Selenium	82	0.4304	0.3174	0.2891	0.3457	0.0747	21.63
Silver	107	-0.0061	-0.0066	-0.0058	-0.0062	0.0004	6.283
Silver	109	-0.0061	-0.0064	-0.0069	-0.0065	0.0004	6.506
Thallium	203	0.0071	0.0044	0.0055	0.0057	0.0013	23.52
Thallium	205	0.0053	0.0042	0.005	0.0048	0.0006	11.66
Tin	118	0.018	0.0172	0.0155	0.0169	0.0013	7.528
Tin	120	0.0198	0.0146	0.0175	0.0173	0.0026	15.21
Vanadium	51	0.1097	0.1255	0.1116	0.1156	0.0086	7.466
Zinc	66	4.151	4.424	4.19	4.255	0.1476	3.468
Zinc	68	4.355	4.401	4.435	4.397	0.0404	0.9183

Internal Standard Factors:

Lithium	6	1.03	1.108	1.068	1.03	n/a	n/a
Gallium	71	1.076	1.101	1.08	1.076	n/a	n/a
Rhodium	103	1.047	1.065	1.061	1.047	n/a	n/a
Indium	115	1.041	1.057	1.056	1.041	n/a	n/a
Lutetium	175	0.984	1.019	1.05	0.984	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-003			Mean	SD	%RSD
TimeStamp		6/7/10 13:25					
Aluminum	27	5.11	5.275	5.199	5.195	0.0823	1.585
Antimony	121	0.2885	0.2837	0.2734	0.2819	0.0077	2.747
Antimony	123	0.2887	0.2783	0.2936	0.2869	0.0078	2.728
Arsenic	75	0.4312	0.4388	0.4576	0.4425	0.0136	3.069
Barium	137	22.94	22.17	22.82	22.64	0.4163	1.838
Barium	138	22.66	22.69	22.56	22.64	0.0648	0.286
Beryllium	9	-0.003	-0.0002	0.0009	-0.0008	0.002	263
Bismuth	209	-0.0053	-0.0073	-0.0055	-0.006	0.0011	17.98
Boron	10	60.87	65.7	66.44	64.33	3.025	4.702
Boron	11	62.22	66.06	66.13	64.81	2.237	3.452
Cadmium	111	0.0125	0.0133	0.0174	0.0144	0.0027	18.53
Cadmium	114	0.0103	0.0107	0.0121	0.011	0.001	8.885
Chromium	52	0.3266	0.3779	0.4062	0.3703	0.0404	10.9
Chromium	53	0.1795	0.1633	0.1818	0.1749	0.0101	5.766
Cobalt	59	0.1946	0.1893	0.19	0.1913	0.0029	1.508
Copper	63	4.009	4.135	4.144	4.096	0.0756	1.845
Copper	65	1.143	1.106	1.139	1.129	0.0204	1.811
Lead	206	0.0125	0.0151	0.0114	0.013	0.0019	14.66
Lead	207	0.0225	0.0223	0.0207	0.0218	0.001	4.567
Lead	208	0.0162	0.0153	0.0171	0.0162	0.0009	5.775
Manganese	55	23.79	23.49	24.14	23.8	0.3252	1.366
Molybdenum	95	5.993	5.829	5.956	5.926	0.0858	1.448
Molybdenum	97	5.898	5.978	5.818	5.898	0.0804	1.363
Molybdenum	98	6.027	6.082	5.871	5.993	0.1093	1.823
Nickel	60	0.3302	0.3425	0.3253	0.3326	0.0088	2.659
Nickel	62	2.62	3.256	3.173	3.017	0.3459	11.47
Selenium	77	2.287	2.052	2.118	2.152	0.1214	5.641
Selenium	78	2.702	2.611	2.423	2.579	0.1423	5.52
Selenium	82	2.111	2.023	2.046	2.06	0.0454	2.202
Silver	107	-0.0089	-0.0097	-0.0081	-0.0089	0.0008	8.572
Silver	109	-0.0082	-0.0086	-0.0085	-0.0084	0.0002	2.711
Thallium	203	0.0216	0.017	0.0149	0.0179	0.0034	19.03
Thallium	205	0.0176	0.0165	0.0165	0.0169	0.0006	3.844
Tin	118	0.0131	0.0097	0.0073	0.0101	0.0029	28.74
Tin	120	0.0058	0.0045	0.0062	0.0055	0.0009	15.95
Vanadium	51	0.0908	0.1168	0.1209	0.1095	0.0163	14.91
Zinc	66	5.678	5.578	5.549	5.601	0.0679	1.213
Zinc	68	6.07	5.977	6.158	6.068	0.0908	1.497

Internal Standard Factors:

Lithium	6	1.056	1.123	1.122	1.056 n/a	n/a
Gallium	71	1.17	1.157	1.159	1.17 n/a	n/a
Rhodium	103	1.152	1.157	1.131	1.152 n/a	n/a
Indium	115	1.112	1.117	1.119	1.112 n/a	n/a
Lutetium	175	1.086	1.09	1.11	1.086 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005055-004			Mean	SD	%RSD
TimeStamp		6/7/10 13:31					
Aluminum	27	42.09	40.82	41.78	41.56	0.6632	1.596
Antimony	121	1.132	1.127	1.111	1.123	0.0111	0.9876
Antimony	123	1.112	1.111	1.128	1.117	0.0092	0.8252
Arsenic	75	1.28	1.249	1.115	1.215	0.0876	7.208
Barium	137	9.819	9.832	9.752	9.801	0.043	0.4384
Barium	138	9.856	9.809	9.795	9.82	0.0323	0.3294
Beryllium	9	0.0032	-0.0013	0.0046	0.0022	0.0031	141.1
Bismuth	209	-0.0063	-0.0066	-0.0068	-0.0066	0.0003	3.894
Boron	10	39.83	40.94	38.98	39.92	0.984	2.465
Boron	11	40.19	40.97	40.64	40.6	0.3939	0.9702
Cadmium	111	0.0354	0.0308	0.0303	0.0322	0.0028	8.651
Cadmium	114	0.031	0.029	0.0269	0.029	0.0021	7.183
Chromium	52	0.4431	0.4305	0.4298	0.4345	0.0075	1.723
Chromium	53	0.1917	0.2366	0.2161	0.2148	0.0225	10.46
Cobalt	59	0.1023	0.1084	0.1008	0.1038	0.004	3.865
Copper	63	1.62	1.622	1.641	1.628	0.0118	0.7253
Copper	65	0.511	0.498	0.5046	0.5045	0.0065	1.292
Lead	206	0.042	0.0428	0.0415	0.0421	0.0007	1.562
Lead	207	0.0482	0.045	0.0449	0.0461	0.0019	4.045
Lead	208	0.0448	0.0458	0.0438	0.0448	0.001	2.234
Manganese	55	2.855	2.87	2.801	2.842	0.0365	1.283
Molybdenum	95	29.41	28.35	29.43	29.06	0.6167	2.122
Molybdenum	97	28.94	29.24	29.01	29.07	0.1564	0.538
Molybdenum	98	29.64	29.38	29.14	29.39	0.2473	0.8414
Nickel	60	0.4156	0.3961	0.3703	0.394	0.0227	5.77
Nickel	62	2.194	2.532	2.506	2.411	0.1882	7.808
Selenium	77	3.423	3.221	3.726	3.457	0.2541	7.35
Selenium	78	3.893	3.557	3.757	3.736	0.1694	4.534
Selenium	82	3.584	3.281	3.299	3.388	0.17	5.019
Silver	107	-0.0098	-0.0084	-0.0085	-0.0089	0.0008	8.908
Silver	109	-0.0103	-0.0099	-0.0102	-0.0101	0.0002	2.293
Thallium	203	0.0187	0.0189	0.0158	0.0178	0.0017	9.736
Thallium	205	0.0142	0.0158	0.0156	0.0152	0.0008	5.496
Tin	118	0.0053	0.0076	0.0057	0.0062	0.0012	19.79
Tin	120	0.0023	0.0032	-0.0006	0.0016	0.0019	120.3
Vanadium	51	0.2168	0.2064	0.2002	0.2078	0.0084	4.027
Zinc	66	2.323	2.333	2.361	2.339	0.0196	0.8399
Zinc	68	2.431	2.46	2.342	2.411	0.0616	2.556

Internal Standard Factors:

Lithium	6	1.016	1.066	1.048	1.016	n/a	n/a
Gallium	71	1.023	1.029	1.028	1.023	n/a	n/a
Rhodium	103	0.991	0.999	0.996	0.991	n/a	n/a
Indium	115	0.988	1.006	1.026	0.988	n/a	n/a
Lutetium	175	0.985	1.014	1.019	0.985	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCV2	Mean	SD	%RSD			
TimeStamp	6/7/10 13:38						
Aluminum	27	25.9	26.07	27.82	26.6	1.067	4.01
Antimony	121	24.52	24.97	24.27	24.58	0.3546	1.443
Antimony	123	25.21	24.96	24.4	24.86	0.4117	1.656
Arsenic	75	24.59	25.07	25.49	25.05	0.4491	1.793
Barium	137	25.69	25.58	25.37	25.55	0.1591	0.6227
Barium	138	25.75	25.19	24.74	25.23	0.5014	1.988
Beryllium	9	25.68	26.52	26.21	26.14	0.4276	1.636
Bismuth	209	24.84	25.49	25.39	25.24	0.35	1.387
Boron	10	24.86	26.44	26.67	25.99	0.9857	3.792
Boron	11	24.59	26.64	26.97	26.07	1.289	4.943
Cadmium	111	23.98	25.08	24.44	24.5	0.5535	2.259
Cadmium	114	24.81	24.97	24.47	24.75	0.2582	1.043
Chromium	52	26.4	26	27.24	26.55	0.6344	2.389
Chromium	53	26.66	26.47	26.05	26.39	0.3117	1.181
Cobalt	59	26.07	25.9	26.41	26.13	0.2606	0.9976
Copper	63	25.92	25.65	26.05	25.87	0.2058	0.7955
Copper	65	26.11	25.53	25.7	25.78	0.2943	1.142
Lead	206	25.4	24.94	25.02	25.12	0.2475	0.9851
Lead	207	24.76	24.05	25.43	24.75	0.6917	2.795
Lead	208	25.46	24.61	24.95	25	0.4304	1.721
Manganese	55	25.82	25.49	25.84	25.71	0.1981	0.7704
Molybdenum	95	25.11	25.3	25.57	25.33	0.2297	0.9069
Molybdenum	97	24.65	25.04	25.17	24.95	0.2742	1.099
Molybdenum	98	24.88	25.16	25.23	25.09	0.189	0.7534
Nickel	60	26.17	25.42	26.34	25.98	0.4889	1.882
Nickel	62	26.38	25.75	26.64	26.25	0.4599	1.752
Selenium	77	24.67	25.71	25.67	25.35	0.5916	2.334
Selenium	78	25.55	24.93	26.12	25.54	0.595	2.33
Selenium	82	24	24.99	25.41	24.8	0.7244	2.921
Silver	107	24.55	25.68	24.92	25.05	0.5753	2.297
Silver	109	25.5	25.54	25.01	25.35	0.2991	1.18
Thallium	203	25.33	25.33	24.95	25.2	0.2168	0.8602
Thallium	205	25.18	25.35	25.59	25.37	0.204	0.8039
Tin	118	24.24	25.25	24.43	24.64	0.5381	2.184
Tin	120	25.22	24.79	24.37	24.79	0.4213	1.7
Vanadium	51	25.93	25.54	26.82	26.1	0.657	2.518
Zinc	66	24.77	25	25.28	25.02	0.2592	1.036
Zinc	68	25.43	25.01	25.18	25.21	0.2129	0.8444

Internal Standard Factors:

Lithium	6	0.934	0.999	1.008	0.934	n/a	n/a
Gallium	71	0.905	0.929	0.954	0.905	n/a	n/a
Rhodium	103	0.882	0.944	0.953	0.882	n/a	n/a
Indium	115	0.887	0.933	0.923	0.887	n/a	n/a
Lutetium	175	0.947	0.978	0.996	0.947	n/a	n/a

Sample Name:	CCB2	Mean	SD	%RSD			
TimeStamp	6/7/10 13:46						
Aluminum	27	-0.0138	-0.0063	0.0004	-0.0066	0.0071	108.4
Antimony	121	0.0027	0.0005	-0.0006	0.0009	0.0017	189.8
Antimony	123	0.0055	0.0021	-0.0009	0.0022	0.0032	141.5
Arsenic	75	-0.0257	-0.0268	-0.0244	-0.0257	0.0012	4.696
Barium	137	0.0007	0.0025	0.0012	0.0015	0.0009	63.48
Barium	138	0.0025	0.003	0.0008	0.0021	0.0011	53.73
Beryllium	9	-0.0024	0.0065	0.002	0.002	0.0044	219.3
Bismuth	209	0.0047	0.0031	0.0031	0.0036	0.0009	25.05
Boron	10	0.0912	0.113	0.0939	0.0994	0.0119	11.98
Boron	11	0.136	0.1109	0.1041	0.117	0.0168	14.36
Cadmium	111	0.0015	0.0023	-0.001	0.0009	0.0017	178.5
Cadmium	114	0.0011	0.0011	-0.0015	0.0002	0.0015	663.1
Chromium	52	0.0408	0.058	0.0539	0.0509	0.0089	17.58
Chromium	53	0.0076	0.0147	-0.0108	0.0038	0.0132	344.6
Cobalt	59	0.0031	-0.0028	-0.0006	-0.0001	0.003	3000
Copper	63	0.0468	0.0441	0.0267	0.0392	0.0109	27.92
Copper	65	0.0275	0.0327	0.0216	0.0273	0.0056	20.39
Lead	206	0.0011	-0.0008	0.0021	0.0008	0.0014	179.2
Lead	207	0.0013	0.0033	0.0007	0.0018	0.0013	75.79
Lead	208	0.0002	0.001	0.0071	0.0028	0.0037	134.5
Manganese	55	0.0102	0.0095	0.0091	0.0096	0.0006	5.718
Molybdenum	95	0.0066	0.0049	0.0058	0.0058	0.0009	14.98
Molybdenum	97	0.0123	0.0064	0.0055	0.0081	0.0037	45.97
Molybdenum	98	0.0081	0.0061	0.0075	0.0072	0.001	14.08
Nickel	60	-0.0053	0.0073	0.0033	0.0018	0.0064	361.7
Nickel	62	0.0951	0.0527	0.0963	0.0814	0.0249	30.57
Selenium	77	0.0204	-0.0107	-0.0132	-0.0012	0.0187	1597
Selenium	78	0.1791	0.1407	0.1215	0.1471	0.0293	19.91
Selenium	82	-0.0645	-0.1092	-0.1018	-0.0918	0.024	26.11
Silver	107	0.0045	0.0028	0.0014	0.0029	0.0016	54.46
Silver	109	0.0039	0.0018	-0.0013	0.0014	0.0026	178.9
Thallium	203	0.0042	0.0039	0.0047	0.0043	0.0004	10.1
Thallium	205	0.0026	0.0035	0.0018	0.0026	0.0009	32.67
Tin	118	0.0163	0.0129	0.0104	0.0132	0.003	22.69
Tin	120	0.0102	0.0095	0.0094	0.0097	0.0004	4.542
Vanadium	51	0.0145	0.0163	0.0251	0.0186	0.0056	30.3
Zinc	66	-0.0175	-0.007	-0.014	-0.0128	0.0053	41.64
Zinc	68	-0.0021	-0.0076	-0.0161	-0.0086	0.007	81.88

**Internal Standard
Factors:**

Lithium	6	0.906	0.96	0.966	0.906 n/a	n/a
Gallium	71	0.922	0.931	0.924	0.922 n/a	n/a
Rhodium	103	0.891	0.93	0.918	0.891 n/a	n/a
Indium	115	0.91	0.925	0.941	0.91 n/a	n/a
Lutetium	175	0.957	0.967	0.999	0.957 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005117-001			Mean	SD	%RSD
TimeStamp		6/7/10 13:51					
Aluminum	27	298.5	298	312.5	303	8.256	2.725
Antimony	121	0.3887	0.3794	0.3789	0.3823	0.0055	1.439
Antimony	123	0.3771	0.3718	0.3835	0.3774	0.0059	1.555
Arsenic	75	3.841	3.769	3.918	3.843	0.0746	1.941
Barium	137	25.45	25.38	25.53	25.45	0.0785	0.3084
Barium	138	24.94	24.8	24.57	24.77	0.1875	0.7572
Beryllium	9	0.009	0.0075	0.0087	0.0084	0.0008	9.084
Bismuth	209	0.0002	0.0017	0.0027	0.0015	0.0012	80.36
Boron	10	21.21	21.99	22.8	22	0.7942	3.611
Boron	11	21.59	22.94	24.22	22.92	1.319	5.754
Cadmium	111	0.1421	0.1477	0.1433	0.1444	0.003	2.051
Cadmium	114	0.1368	0.1372	0.1436	0.1392	0.0038	2.731
Chromium	52	0.6725	0.7017	0.7143	0.6961	0.0215	3.082
Chromium	53	0.8605	0.837	0.8687	0.8554	0.0164	1.922
Cobalt	59	1.481	1.448	1.494	1.474	0.0237	1.61
Copper	63	6.148	6.205	6.186	6.18	0.029	0.4687
Copper	65	6.081	5.997	6.157	6.078	0.0802	1.319
Lead	206	2.33	2.369	2.303	2.334	0.0328	1.405
Lead	207	2.643	2.667	2.557	2.622	0.0577	2.2
Lead	208	2.552	2.542	2.5	2.531	0.0278	1.1
Manganese	55	412.9	402.5	421.8	412.4	9.66	2.342
Molybdenum	95	3.118	3.064	3.048	3.077	0.037	1.203
Molybdenum	97	3.048	3.075	3.05	3.058	0.0152	0.4983
Molybdenum	98	3.081	3.1	3.145	3.109	0.0326	1.05
Nickel	60	3.291	3.166	3.329	3.262	0.0854	2.618
Nickel	62	2.841	2.728	2.824	2.798	0.061	2.181
Selenium	77	0.2208	0.1651	0.3423	0.2427	0.0906	37.33
Selenium	78	0.2627	0.295	0.289	0.2822	0.0171	6.072
Selenium	82	0.1651	0.2756	0.2239	0.2215	0.0553	24.97
Silver	107	0.0074	0.0035	0.0035	0.0048	0.0023	47.53
Silver	109	0.001	0.0022	0.0025	0.0019	0.0008	41.21
Thallium	203	0.0593	0.064	0.0509	0.0581	0.0067	11.46
Thallium	205	0.0579	0.0582	0.0559	0.0573	0.0013	2.179
Tin	118	0.1459	0.1494	0.1451	0.1468	0.0023	1.575
Tin	120	0.1488	0.1522	0.1442	0.1484	0.004	2.688
Vanadium	51	2.064	2.084	2.14	2.096	0.0394	1.878
Zinc	66	163.1	157.7	163.1	161.3	3.106	1.926
Zinc	68	164.4	164.3	166.7	165.1	1.388	0.8403

Internal Standard Factors:

Lithium	6	1.014	1.061	1.101	1.014	n/a	n/a
Gallium	71	1.014	1.019	1.058	1.014	n/a	n/a
Rhodium	103	1.023	1.045	1.066	1.023	n/a	n/a
Indium	115	1	1.047	1.068	1	n/a	n/a
Lutetium	175	1.027	1.075	1.063	1.027	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:		K1005117-001D			Mean	SD	%RSD
TimeStamp		6/7/10 13:57					
Aluminum	27	317.2	333.2	319	323.1	8.768	2.714
Antimony	121	0.4663	0.4524	0.4456	0.4548	0.0106	2.325
Antimony	123	0.4549	0.4466	0.474	0.4585	0.0141	3.067
Arsenic	75	3.925	4.104	3.897	3.975	0.1124	2.828
Barium	137	25.22	25.67	25.27	25.39	0.2459	0.9685
Barium	138	25.39	24.79	24.44	24.87	0.4794	1.927
Beryllium	9	0.0076	0.0016	0.0083	0.0059	0.0037	63.7
Bismuth	209	-0.0001	-0.0012	0.0022	0.0003	0.0017	602.7
Boron	10	22.78	23.05	23.05	22.96	0.1561	0.6799
Boron	11	22.54	23.5	23.59	23.21	0.5835	2.514
Cadmium	111	0.1507	0.1389	0.1378	0.1425	0.0071	5.003
Cadmium	114	0.1421	0.1488	0.1541	0.1483	0.006	4.027
Chromium	52	0.7122	0.7335	0.7052	0.717	0.0147	2.057
Chromium	53	0.8351	0.8555	0.8051	0.8319	0.0254	3.047
Cobalt	59	1.503	1.519	1.416	1.479	0.0554	3.745
Copper	63	6.154	6.267	5.883	6.101	0.1976	3.238
Copper	65	6.269	6.246	5.829	6.115	0.2479	4.054
Lead	206	2.367	2.423	2.422	2.404	0.032	1.329
Lead	207	2.688	2.632	2.612	2.644	0.0391	1.481
Lead	208	2.546	2.531	2.572	2.55	0.0208	0.8158
Manganese	55	411.9	425.1	411.2	416	7.839	1.884
Molybdenum	95	3.129	3.153	3.088	3.123	0.0327	1.048
Molybdenum	97	2.985	3.159	3.164	3.102	0.1021	3.291
Molybdenum	98	3.169	3.199	3.112	3.16	0.0442	1.397
Nickel	60	3.424	3.331	3.266	3.34	0.0797	2.387
Nickel	62	2.643	2.612	2.752	2.669	0.0736	2.757
Selenium	77	0.2102	0.134	0.1728	0.1723	0.0381	22.09
Selenium	78	0.2404	0.304	0.3221	0.2889	0.0429	14.86
Selenium	82	0.276	0.2439	0.2757	0.2652	0.0185	6.957
Silver	107	-0.0003	0.0002	0.0001	0	0.0003	1879
Silver	109	-0.0028	-0.0008	-0.0035	-0.0024	0.0014	59.36
Thallium	203	0.0515	0.055	0.0567	0.0544	0.0027	4.919
Thallium	205	0.0553	0.0591	0.0552	0.0566	0.0022	3.956
Tin	118	0.156	0.165	0.1546	0.1585	0.0057	3.58
Tin	120	0.164	0.1535	0.1503	0.156	0.0071	4.58
Vanadium	51	2.089	2.153	2.155	2.132	0.0374	1.755
Zinc	66	164.5	169.1	162.7	165.4	3.269	1.976
Zinc	68	168.9	174.1	165	169.3	4.599	2.716

Internal Standard Factors:

Lithium	6	1.031	1.069	1.075	1.031	n/a	n/a
Gallium	71	1.046	1.093	1.048	1.046	n/a	n/a
Rhodium	103	1.033	1.096	1.065	1.033	n/a	n/a
Indium	115	1.036	1.064	1.064	1.036	n/a	n/a
Lutetium	175	1.026	1.058	1.08	1.026	n/a	n/a

Sample Name:		K1005117-001S			Mean	SD	%RSD
TimeStamp		6/7/10 14:03					
Aluminum	27	330.1	334.4	330.3	331.6	2.439	0.7355
Antimony	121	20.56	19.8	20.26	20.21	0.3849	1.905
Antimony	123	20.49	19.53	19.83	19.95	0.4911	2.461
Arsenic	75	24.19	23.32	23.67	23.73	0.4385	1.848
Barium	137	46.02	43.98	44.86	44.96	1.023	2.276
Barium	138	50.7	47.05	48.55	48.77	1.834	3.76
Beryllium	9	19.2	20.47	19.82	19.83	0.6347	3.201
Bismuth	209	0.0015	0.0002	0.0003	0.0007	0.0007	107.3
Boron	10	19.64	21.64	20.8	20.69	1.003	4.846
Boron	11	21.24	22.7	22.2	22.05	0.7417	3.364
Cadmium	111	20.09	19.76	20	19.95	0.1737	0.8705
Cadmium	114	19.37	19.16	19.26	19.27	0.1029	0.5339
Chromium	52	21.38	20.69	21.26	21.11	0.3702	1.754
Chromium	53	20.24	20.44	20.52	20.4	0.1427	0.6995
Cobalt	59	21.23	21.11	20.79	21.04	0.2288	1.087
Copper	63	25.25	24.96	25.13	25.12	0.1491	0.5938
Copper	65	25.43	25.47	25.01	25.3	0.2535	1.002
Lead	206	21.41	21.53	21.58	21.51	0.0901	0.419
Lead	207	21.73	21.81	21.6	21.71	0.1096	0.5046
Lead	208	21.57	21.75	21.63	21.65	0.0882	0.4075
Manganese	55	410.5	417.8	418	415.4	4.28	1.03
Molybdenum	95	23.49	23.53	23.43	23.48	0.0508	0.2165
Molybdenum	97	23.41	23.09	23.67	23.39	0.292	1.248
Molybdenum	98	23.44	23.08	23.97	23.5	0.4517	1.922
Nickel	60	23.68	23.19	22.98	23.28	0.36	1.546
Nickel	62	22.29	21.85	21.34	21.83	0.4742	2.172
Selenium	77	21.08	20.12	19.59	20.26	0.7552	3.727
Selenium	78	20.73	20.82	19.98	20.51	0.4631	2.258
Selenium	82	20.72	19.95	19.57	20.08	0.5862	2.92
Silver	107	19.77	20.03	20.07	19.95	0.163	0.8169
Silver	109	20.42	19.9	20.32	20.21	0.2771	1.371
Thallium	203	19.4	19.02	19.48	19.3	0.2471	1.28
Thallium	205	19.73	19.84	19.87	19.81	0.0753	0.3799
Tin	118	0.1632	0.1479	0.1531	0.1547	0.0078	5.025
Tin	120	0.1586	0.1521	0.1442	0.1516	0.0072	4.758
Vanadium	51	21.98	21.36	21.36	21.57	0.3571	1.656
Zinc	66	181.7	176.4	175.3	177.8	3.383	1.903
Zinc	68	186.2	179.4	177.9	181.2	4.416	2.438

**Internal Standard
Factors:**

Lithium	6	0.99	1.074	1.053	0.99 n/a	n/a
Gallium	71	1.051	1.053	1.043	1.051 n/a	n/a
Rhodium	103	1.035	1.076	1.093	1.035 n/a	n/a
Indium	115	1.039	1.045	1.062	1.039 n/a	n/a
Lutetium	175	1.02	1.051	1.069	1.02 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCV3	Mean	SD	%RSD
TimeStamp	6/7/10 14:12			
Aluminum 27	24.72	25.52	26.01	25.42 0.6516 2.564
Antimony 121	25.38	24.86	25.18	25.14 0.261 1.038
Antimony 123	25.57	25.12	25.36	25.35 0.2267 0.8944
Arsenic 75	24.55	24.94	25.06	24.85 0.2666 1.073
Barium 137	26.34	24.92	25.61	25.62 0.7085 2.765
Barium 138	25.29	25.17	24.89	25.12 0.2068 0.8233
Beryllium 9	25.51	25.89	26.94	26.12 0.7405 2.835
Bismuth 209	24.96	25.54	25.99	25.5 0.5156 2.022
Boron 10	24.79	24.95	25.74	25.16 0.5066 2.014
Boron 11	23.86	25.39	26.91	25.39 1.527 6.013
Cadmium 111	24.98	24.69	24.43	24.7 0.274 1.109
Cadmium 114	25.38	24.68	25.34	25.13 0.3924 1.561
Chromium 52	26.08	26.27	27.32	26.56 0.6678 2.515
Chromium 53	24.73	25.54	26.02	25.43 0.6542 2.572
Cobalt 59	24.91	24.7	25.92	25.18 0.6555 2.604
Copper 63	25.22	24.95	26.19	25.45 0.6519 2.562
Copper 65	25.34	24.84	25.23	25.14 0.2613 1.039
Lead 206	25.27	25.24	25.85	25.46 0.3446 1.354
Lead 207	25.23	25.12	25.9	25.41 0.4237 1.667
Lead 208	25.45	24.88	25.74	25.36 0.4398 1.735
Manganese 55	24.62	25.12	25.95	25.23 0.6675 2.646
Molybdenum 95	24.46	24.71	24.94	24.7 0.2409 0.9749
Molybdenum 97	24.74	24.92	24.74	24.8 0.1053 0.4246
Molybdenum 98	24.49	24.96	24.95	24.8 0.2684 1.082
Nickel 60	25.36	24.8	25.81	25.32 0.5059 1.998
Nickel 62	23.93	24.52	25.64	24.7 0.8659 3.506
Selenium 77	24.23	24.77	25.28	24.76 0.5227 2.111
Selenium 78	25.23	24.47	25.45	25.05 0.5122 2.045
Selenium 82	24.27	24.48	24.44	24.4 0.1103 0.4521
Silver 107	25.38	25.65	25.15	25.4 0.2462 0.9696
Silver 109	25.49	25.22	25.55	25.42 0.1754 0.69
Thallium 203	25.29	25.21	25.75	25.42 0.2902 1.142
Thallium 205	25.97	24.97	25.51	25.48 0.5026 1.972
Tin 118	25.65	25.34	25.38	25.46 0.1712 0.6723
Tin 120	25.09	25.37	25.54	25.33 0.2311 0.9124
Vanadium 51	25.11	25.18	26.5	25.6 0.7835 3.061
Zinc 66	24.92	24.34	25.38	24.88 0.5198 2.089
Zinc 68	24.21	24.62	25.08	24.63 0.4387 1.781

Internal Standard Factors:

Lithium 6	0.945	0.981	1.015	0.945 n/a n/a
Gallium 71	0.956	0.973	0.99	0.956 n/a n/a
Rhodium 103	0.937	0.972	0.971	0.937 n/a n/a
Indium 115	0.956	0.973	0.977	0.956 n/a n/a
Lutetium 175	0.97	0.987	1.027	0.97 n/a n/a

Instrument ID: K-ICP-MS-02
 Experiment: 06-07-10B
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #203621

Sample Name:	CCB3				Mean	SD	%RSD
TimeStamp	6/7/10 14:20						
Aluminum	27	-0.0427	0.0238	-0.0137	-0.0109	0.0333	307.2
Antimony	121	-0.0019	-0.0028	-0.005	-0.0032	0.0016	49.57
Antimony	123	-0.0018	-0.002	-0.0027	-0.0022	0.0005	22.5
Arsenic	75	-0.0333	0.0026	-0.0552	-0.0286	0.0292	102
Barium	137	-0.0028	-0.0051	-0.0051	-0.0043	0.0014	31.3
Barium	138	-0.0043	-0.004	-0.0046	-0.0043	0.0003	6.957
Beryllium	9	-0.001	-0.0039	0.0001	-0.0016	0.0021	127
Bismuth	209	-0.0009	-0.0031	-0.0043	-0.0028	0.0017	62.52
Boron	10	0.0688	0.0705	0.0287	0.056	0.0237	42.23
Boron	11	0.0575	0.0457	0.0232	0.0421	0.0174	41.35
Cadmium	111	-0.0021	-0.0012	-0.0018	-0.0017	0.0005	28.73
Cadmium	114	-0.0023	-0.0025	-0.0027	-0.0025	0.0002	8.477
Chromium	52	-0.0075	0.0264	0.0311	0.0167	0.0211	126.4
Chromium	53	0.0216	0.0144	-0.0088	0.0091	0.0159	175.2
Cobalt	59	-0.0032	-0.006	-0.0065	-0.0053	0.0018	33.84
Copper	63	-0.0168	-0.0199	-0.0182	-0.0183	0.0015	8.233
Copper	65	-0.0026	-0.0033	0.0064	0.0002	0.0054	3314
Lead	206	-0.0039	-0.0002	-0.0034	-0.0025	0.002	80.13
Lead	207	-0.0013	0.0025	-0.0038	-0.0009	0.0032	368.6
Lead	208	-0.0011	-0.0006	-0.0029	-0.0015	0.0012	77.5
Manganese	55	0.0001	0.0016	-0.0016	0	0.0016	4576
Molybdenum	95	0.0051	0.0011	-0.0009	0.0018	0.0031	173.9
Molybdenum	97	0.0001	-0.001	0.0025	0.0005	0.0018	331.1
Molybdenum	98	0.0029	0.0021	0.0026	0.0025	0.0004	16.57
Nickel	60	-0.0007	-0.0076	0.007	-0.0004	0.0073	1733
Nickel	62	-0.3416	-0.3574	-0.2808	-0.3266	0.0405	12.39
Selenium	77	0.017	-0.0427	0.0091	-0.0055	0.0324	585
Selenium	78	-0.1096	0.0332	0.147	0.0235	0.1286	546.9
Selenium	82	-0.0901	-0.0452	-0.176	-0.1038	0.0665	64.04
Silver	107	-0.002	-0.0032	-0.0036	-0.0029	0.0008	27.14
Silver	109	-0.0018	-0.0032	-0.0042	-0.0031	0.0012	38.89
Thallium	203	0.0001	-0.0011	-0.0014	-0.0008	0.0008	95.87
Thallium	205	-0.0019	-0.0019	-0.0021	-0.002	0.0001	6.942
Tin	118	0.0076	0.0002	0.0007	0.0028	0.0041	143.4
Tin	120	0.0028	0.0016	-0.0019	0.0008	0.0025	299.2
Vanadium	51	-0.0065	0.0085	0.0173	0.0064	0.012	186.6
Zinc	66	-0.0145	-0.0177	-0.0299	-0.0207	0.0081	39.08
Zinc	68	-0.0102	-0.0084	0.0004	-0.0061	0.0057	93.58

Internal Standard Factors:

Lithium	6	0.899	0.982	0.971	0.899 n/a	n/a
Gallium	71	0.962	0.977	0.981	0.962 n/a	n/a
Rhodium	103	0.938	0.982	0.953	0.938 n/a	n/a
Indium	115	0.937	0.957	0.969	0.937 n/a	n/a
Lutetium	175	0.982	0.993	0.979	0.982 n/a	n/a

Volatile Organic Compounds

Organic Analysis:
Volatile Organic Compounds

Summary Package

Sample and QC Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934

**Cover Page - Organic Analysis Data Package
 Volatile Organic Compounds**

Sample Name	Lab Code	Date Collected	Date Received
SW-2	K1004934-005	05/14/2010	05/15/2010
SW-3	K1004934-006	05/14/2010	05/15/2010
SW-9	K1004934-007	05/14/2010	05/15/2010
FB-051410	K1004934-008	05/14/2010	05/15/2010
Trip Blank	K1004934-009	05/14/2010	05/15/2010
SW-3MS	KWG1005071-1	05/14/2010	05/15/2010
SW-3DMS	KWG1005071-2	05/14/2010	05/15/2010

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

Signature:  _____

Name: Jordan _____

Date: 6/4/10 _____

Title: Manager _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-2
 Lab Code: K1004934-005
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	0.40	J	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-2
 Lab Code: K1004934-005
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	97	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	92	82-122	05/28/10	Acceptable
Dibromofluoromethane	92	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-3
 Lab Code: K1004934-006
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	0.27	J	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Water

Service Request: K1004934
Date Collected: 05/14/2010
Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-3 **Units:** ug/L
Lab Code: K1004934-006 **Basis:** NA
Extraction Method: METHOD **Level:** Low
Analysis Method: 624

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	96	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	90	82-122	05/28/10	Acceptable
Dibromofluoromethane	91	86-124	05/28/10	Acceptable

† Analyte Comments

Aerolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-9
 Lab Code: K1004934-007
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	0.39	J	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Water

Service Request: K1004934
Date Collected: 05/14/2010
Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-9
Lab Code: K1004934-007
Extraction Method: METHOD
Analysis Method: 624

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	96	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	89	82-122	05/28/10	Acceptable
Dibromofluoromethane	94	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: FB-051410
 Lab Code: K1004934-008
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	7.8		5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	1.1	J	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: FB-051410
 Lab Code: K1004934-008
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	97	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	90	82-122	05/28/10	Acceptable
Dibromofluoromethane	93	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: Trip Blank
 Lab Code: K1004934-009
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	0.49	J	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Water

Service Request: K1004934
Date Collected: 05/14/2010
Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: Trip Blank **Units:** ug/L
Lab Code: K1004934-009 **Basis:** NA
Extraction Method: METHOD **Level:** Low
Analysis Method: 624

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	97	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	91	82-122	05/28/10	Acceptable
Dibromofluoromethane	92	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: KWG1005071-4
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	0.23	J	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	ND	U	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	0.11	J	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	0.14	J	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Water

Service Request: K1004934
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1005071-4
Extraction Method: METHOD
Analysis Method: 624

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	97	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	93	82-122	05/28/10	Acceptable
Dibromofluoromethane	92	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934

**Surrogate Recovery Summary
 Volatile Organic Compounds**

Extraction Method: METHOD
 Analysis Method: 624

Units: PERCENT
 Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
SW-2	K1004934-005	97	92	92
SW-3	K1004934-006	96	90	91
SW-9	K1004934-007	96	89	94
FB-051410	K1004934-008	97	90	93
Trip Blank	K1004934-009	97	91	92
Method Blank	KWG1005071-4	97	93	92
SW-3MS	KWG1005071-1	100	92	92
SW-3DMS	KWG1005071-2	100	92	93
Lab Control Sample	KWG1005071-3	99	93	92

Surrogate Recovery Control Limits (%)

Sur1 = Toluene-d8	79-131
Sur2 = 4-Bromofluorobenzene	82-122
Sur3 = Dibromofluoromethane	86-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
 Date Analyzed: 05/28/2010
 Time Analyzed: 20:19

Internal Standard Area and RT Summary
 Volatile Organic Compounds

File ID: J:\MS13\DATA\052810-624\0528F107.D
 Instrument ID: MS13
 Analysis Method: 624

Lab Code: KWG1005070-2
 Analysis Lot: KWG1005070

	Fluorobenzene		1,4-Dichlorobenzene-d4		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Results ==>	606,960	6.12	217,420	15.08	238,587	12.04
Upper Limit ==>	1,213,920	6.62	434,840	15.58	477,174	12.54
Lower Limit ==>	303,480	5.62	108,710	14.58	119,294	11.54
ICAL Result ==>	782,787	6.36	304,962	15.21	292,855	12.21

Associated Analyses

Method Blank	KWG1005071-4	582,035	6.12	204,168	15.08	230,841	12.03
SW-2	K1004934-005	577,507	6.12	203,627	15.08	226,515	12.03
SW-3	K1004934-006	584,498	6.12	205,452	15.08	230,615	12.03
SW-9	K1004934-007	582,779	6.12	205,579	15.08	231,689	12.03
FB-051410	K1004934-008	568,685	6.12	202,971	15.08	228,018	12.03
Trip Blank	K1004934-009	574,723	6.12	207,484	15.08	227,907	12.03
Lab Control Sample	KWG1005071-3	601,301	6.12	221,353	15.08	237,048	12.04
SW-3MS	KWG1005071-1	598,974	6.12	222,254	15.08	239,642	12.03
SW-3DMS	KWG1005071-2	591,524	6.12	211,858	15.08	237,418	12.03

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Extracted: 05/29/2010
 Date Analyzed: 05/29/2010

Matrix Spike/Duplicate Matrix Spike Summary
 Volatile Organic Compounds

Sample Name: SW-3
 Lab Code: K1004934-006
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low
 Extraction Lot: KWG1005071

Analyte Name	Sample Result	SW-3MS KWG1005071-1 Matrix Spike			SW-3DMS KWG1005071-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,1-Dichloroethene	ND	28.1	20.0	141	27.4	20.0	137	63-153	2	30
Benzene	ND	24.2	20.0	121	23.9	20.0	119	69-128	1	30
Trichloroethene (TCE)	ND	23.5	20.0	117	23.2	20.0	116	33-174	1	30
Toluene	0.27	23.4	20.0	116	23.4	20.0	116	62-132	0	30
Chlorobenzene	ND	20.0	20.0	100	20.1	20.0	100	71-120	0	30
1,2-Dichlorobenzene	ND	21.0	20.0	105	21.9	20.0	110	72-117	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Extracted: 05/28/2010
 Date Analyzed: 05/28/2010

Lab Control Spike Summary
 Volatile Organic Compounds

Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low
 Extraction Lot: KWG1005071

Lab Control Sample
 KWG1005071-3
 Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Chloromethane	15.4	20.0	77	45-137
Vinyl Chloride	15.9	20.0	80	54-145
Bromomethane	16.4	20.0	82	20-175
Chloroethane	18.3	20.0	91	56-137
Trichlorofluoromethane	17.5	20.0	88	50-135
1,1-Dichloroethene	17.2	20.0	86	74-139
Methylene Chloride	16.4	20.0	82	76-120
trans-1,2-Dichloroethene	16.9	20.0	85	76-125
1,1-Dichloroethane	17.4	20.0	87	68-127
Chloroform	18.4	20.0	92	69-126
1,1,1-Trichloroethane (TCA)	17.2	20.0	86	61-135
Carbon Tetrachloride	18.8	20.0	94	54-142
Benzene	17.7	20.0	88	73-122
1,2-Dichloroethane (EDC)	20.1	20.0	100	66-132
Trichloroethene (TCE)	17.4	20.0	87	70-123
1,2-Dichloropropane	17.4	20.0	87	73-122
Bromodichloromethane	17.9	20.0	90	68-136
2-Chloroethyl Vinyl Ether	20.2	20.0	101	30-155
trans-1,3-Dichloropropene	16.6	20.0	83	56-121
Toluene	17.6	20.0	88	71-124
cis-1,3-Dichloropropene	13.9	20.0	70	64-131
1,1,2-Trichloroethane	17.2	20.0	86	75-118
Tetrachloroethene (PCE)	15.5	20.0	78	65-125
Dibromochloromethane	16.1	20.0	81	65-132
Chlorobenzene	16.2	20.0	81	77-115
Ethylbenzene	17.5	20.0	87	72-123
Bromoform	15.9	20.0	80	51-145
1,1,2,2-Tetrachloroethane	18.8	20.0	94	62-135
1,3-Dichlorobenzene	18.3	20.0	92	74-116
1,4-Dichlorobenzene	18.2	20.0	91	74-114
1,2-Dichlorobenzene	17.9	20.0	90	76-113
Acrolein	114	100	114	10-185
Acrylonitrile	19.7	20.0	98	63-138
m,p-Xylenes	34.9	40.0	87	71-126
o-Xylene	18.0	20.0	90	70-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Water

Service Request: K1004934
Date Extracted: 05/28/2010
Date Analyzed: 05/28/2010
Time Analyzed: 20:46

Method Blank Summary
Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1005071-4
Extraction Method: METHOD
Analysis Method: 624

File ID: J:\MS13\DATA\052810-624\0528F108.D
Instrument ID: MS13
Level: Low
Extraction Lot: KWG1005071

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
SW-2	K1004934-005	J:\MS13\DATA\052810-624\0528F109.D	05/28/10	21:14
SW-3	K1004934-006	J:\MS13\DATA\052810-624\0528F110.D	05/28/10	21:41
SW-9	K1004934-007	J:\MS13\DATA\052810-624\0528F111.D	05/28/10	22:09
FB-051410	K1004934-008	J:\MS13\DATA\052810-624\0528F112.D	05/28/10	22:36
Trip Blank	K1004934-009	J:\MS13\DATA\052810-624\0528F113.D	05/28/10	23:04
Lab Control Sample	KWG1005071-3	J:\MS13\DATA\052810-624\0528F114.D	05/28/10	23:31
SW-3MS	KWG1005071-1	J:\MS13\DATA\052810-624\0528F119.D	05/29/10	01:50
SW-3DMS	KWG1005071-2	J:\MS13\DATA\052810-624\0528F201.D	05/29/10	02:45

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Extracted: 05/28/2010
 Date Analyzed: 05/28/2010
 Time Analyzed: 23:31

Lab Control Sample Summary
 Volatile Organic Compounds

Sample Name: Lab Control Sample
 Lab Code: KWG1005071-3
 Extraction Method: METHOD
 Analysis Method: 624

File ID: J:\MS13\DATA\052810-624\0528F114.D
 Instrument ID: MS13
 Level: Low
 Extraction Lot: KWG1005071

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1005071-4	J:\MS13\DATA\052810-624\0528F108.D	05/28/10	20:46
SW-2	K1004934-005	J:\MS13\DATA\052810-624\0528F109.D	05/28/10	21:14
SW-3	K1004934-006	J:\MS13\DATA\052810-624\0528F110.D	05/28/10	21:41
SW-9	K1004934-007	J:\MS13\DATA\052810-624\0528F111.D	05/28/10	22:09
FB-051410	K1004934-008	J:\MS13\DATA\052810-624\0528F112.D	05/28/10	22:36
Trip Blank	K1004934-009	J:\MS13\DATA\052810-624\0528F113.D	05/28/10	23:04
SW-3MS	KWG1005071-1	J:\MS13\DATA\052810-624\0528F119.D	05/29/10	01:50
SW-3DMS	KWG1005071-2	J:\MS13\DATA\052810-624\0528F201.D	05/29/10	02:45

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
Date Analyzed: 05/28/2010
Time Analyzed: 19:43

**Tune Summary
 Volatile Organic Compounds**

File ID: J:\MS13\DATA\052810-624\0528F106.D
Instrument ID: MS13
Column:

Analysis Method: 624
Analysis Lot: KWG1005070

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.6	8693	PASS
75	95	30	60	47.1	24725	PASS
95	95	100	100	100.0	52458	PASS
96	95	5	9	6.6	3468	PASS
173	174	0	2	0.3	110	PASS
174	95	50	120	77.9	40869	PASS
175	174	5	9	5.3	2169	PASS
176	174	95	101	100.5	41093	PASS
177	176	5	9	6.4	2611	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	KWG1005070-2	J:\MS13\DATA\052810-624\0528F10	05/28/2010	20:19	
Method Blank	KWG1005071-4	J:\MS13\DATA\052810-624\0528F10	05/28/2010	20:46	
SW-2	K1004934-005	J:\MS13\DATA\052810-624\0528F10	05/28/2010	21:14	
SW-3	K1004934-006	J:\MS13\DATA\052810-624\0528F11	05/28/2010	21:41	
SW-9	K1004934-007	J:\MS13\DATA\052810-624\0528F11	05/28/2010	22:09	
FB-051410	K1004934-008	J:\MS13\DATA\052810-624\0528F11	05/28/2010	22:36	
Trip Blank	K1004934-009	J:\MS13\DATA\052810-624\0528F11	05/28/2010	23:04	
Lab Control Sample	KWG1005071-3	J:\MS13\DATA\052810-624\0528F11	05/28/2010	23:31	
SW-3MS	KWG1005071-1	J:\MS13\DATA\052810-624\0528F11	05/29/2010	01:50	
SW-3DMS	KWG1005071-2	J:\MS13\DATA\052810-624\0528F20	05/29/2010	02:45	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
 Calibration Date: 02/08/2010

Initial Calibration Summary
 Volatile Organic Compounds

Calibration ID: CAL9204
 Instrument ID: MS13

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS13\DATA\020810_624\0208F005.D	F	J:\MS13\DATA\020810_624\0208F010.D
B	J:\MS13\DATA\020810_624\0208F006.D	G	J:\MS13\DATA\020810_624\0208F011.D
C	J:\MS13\DATA\020810_624\0208F007.D	H	J:\MS13\DATA\020810_624\0208F012.D
D	J:\MS13\DATA\020810_624\0208F008.D		
E	J:\MS13\DATA\020810_624\0208F009.D		

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
Chloromethane	A	0.50	0.416	B	1.0	0.309	C	2.5	0.287	D	5.0	0.289	E	20	0.323
	F	40	0.315	G	80	0.299	H	120	0.299						
Vinyl Chloride	A	0.50	0.311	B	1.0	0.268	C	2.5	0.233	D	5.0	0.242	E	20	0.296
	F	40	0.291	G	80	0.273	H	120	0.275						
Bromomethane	A	0.50	0.119	B	1.0	0.127	C	2.5	0.109	D	5.0	0.118	E	20	0.152
	F	40	0.160	G	80	0.163	H	120	0.168						
Chloroethane	A	0.50	0.0453	B	1.0	0.0329	C	2.5	0.0394	D	5.0	0.0381	E	20	0.0463
	F	40	0.0443	G	80	0.0426	H	120	0.0422						
Trichlorofluoromethane	A	0.50	0.470	B	1.0	0.388	C	2.5	0.333	D	5.0	0.348	E	20	0.408
	F	40	0.406	G	80	0.383	H	120	0.382						
1,1-Dichloroethene	A	0.50	0.214	B	1.0	0.206	C	2.5	0.171	D	5.0	0.182	E	20	0.218
	F	40	0.216	G	80	0.209	H	120	0.206						
Methylene Chloride	A	0.50	0.305	B	1.0	0.297	C	2.5	0.261	D	5.0	0.259	E	20	0.276
	F	40	0.275	G	80	0.266	H	120	0.265						
trans-1,2-Dichloroethene	A	0.50	0.266	B	1.0	0.253	C	2.5	0.223	D	5.0	0.244	E	20	0.276
	F	40	0.271	G	80	0.264	H	120	0.264						
1,1-Dichloroethane	A	0.50	0.448	B	1.0	0.423	C	2.5	0.374	D	5.0	0.372	E	20	0.441
	F	40	0.444	G	80	0.439	H	120	0.442						
Chloroform	A	0.50	0.420	B	1.0	0.424	C	2.5	0.406	D	5.0	0.402	E	20	0.448
	F	40	0.443	G	80	0.436	H	120	0.436						
1,1,1-Trichloroethane (TCA)	A	0.50	0.323	B	1.0	0.282	C	2.5	0.265	D	5.0	0.279	E	20	0.328
	F	40	0.337	G	80	0.334	H	120	0.342						
Carbon Tetrachloride	A	0.50	0.322	B	1.0	0.276	C	2.5	0.265	D	5.0	0.257	E	20	0.319
	F	40	0.325	G	80	0.313	H	120	0.316						
Benzene	A	0.50	1.09	B	1.0	0.999	C	2.5	0.942	D	5.0	0.991	E	20	1.15
	F	40	1.14	G	80	1.11	H	120	1.11						
1,2-Dichloroethane (EDC)	A	0.50	0.306	B	1.0	0.324	C	2.5	0.307	D	5.0	0.301	E	20	0.327
	F	40	0.318	G	80	0.313	H	120	0.309						
Trichloroethene (TCE)	A	0.50	0.288	B	1.0	0.267	C	2.5	0.233	D	5.0	0.239	E	20	0.279
	F	40	0.278	G	80	0.269	H	120	0.270						

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
Calibration Date: 02/08/2010

Initial Calibration Summary
Volatile Organic Compounds

Calibration ID: CAL9204
Instrument ID: MS13

Column: MS

Analyte Name	Level ID			Level ID			Level ID			Level ID			Level ID		
	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,2-Dichloropropane	A	0.50	0.256	B	1.0	0.246	C	2.5	0.227	D	5.0	0.233	E	20	0.263
	F	40	0.268	G	80	0.269	H	120	0.274						
Bromodichloromethane	A	0.50	0.310	B	1.0	0.304	C	2.5	0.295	D	5.0	0.297	E	20	0.333
	F	40	0.337	G	80	0.332	H	120	0.334						
2-Chloroethyl Vinyl Ether	A	0.50	0.112	B	1.0	0.106	C	2.5	0.106	D	5.0	0.112	E	20	0.133
	F	40	0.138	G	80	0.146	H	120	0.145						
trans-1,3-Dichloropropene	A	0.50	0.658	B	1.0	0.586	C	2.5	0.627	D	5.0	0.636	E	20	0.762
	F	40	0.808	G	80	0.848	H	120	0.860						
Toluene	A	0.50	0.699	B	1.0	0.635	C	2.5	0.596	D	5.0	0.643	E	20	0.729
	F	40	0.721	G	80	0.707	H	120	0.704						
cis-1,3-Dichloropropene	A	0.50	0.293	B	1.0	0.309	C	2.5	0.282	D	5.0	0.299	E	20	0.363
	F	40	0.371	G	80	0.390	H	120	0.398						
1,1,2-Trichloroethane	A	0.50	0.437	B	1.0	0.464	C	2.5	0.459	D	5.0	0.474	E	20	0.523
	F	40	0.506	G	80	0.501	H	120	0.497						
Tetrachloroethene (PCE)	A	0.50	0.584	B	1.0	0.556	C	2.5	0.534	D	5.0	0.506	E	20	0.633
	F	40	0.624	G	80	0.601	H	120	0.589						
Dibromochloromethane	A	0.50	0.597	B	1.0	0.644	C	2.5	0.620	D	5.0	0.598	E	20	0.678
	F	40	0.671	G	80	0.672	H	120	0.659						
Chlorobenzene	A	0.50	1.97	B	1.0	2.02	C	2.5	1.92	D	5.0	1.89	E	20	2.15
	F	40	2.14	G	80	2.07	H	120	2.05						
Ethylbenzene	A	0.50	0.797	B	1.0	0.897	C	2.5	0.879	D	5.0	0.937	E	20	1.15
	F	40	1.15	G	80	1.11	H	120	1.11						
Bromoform	A	0.50	0.345	B	1.0	0.367	C	2.5	0.362	D	5.0	0.382	E	20	0.407
	F	40	0.398	G	80	0.412	H	120	0.402						
1,1,2,2-Tetrachloroethane	A	0.50	0.648	B	1.0	0.635	C	2.5	0.618	D	5.0	0.630	E	20	0.655
	F	40	0.632	G	80	0.635	H	120	0.628						
1,3-Dichlorobenzene	A	0.50	1.39	B	1.0	1.34	C	2.5	1.33	D	5.0	1.34	E	20	1.57
	F	40	1.54	G	80	1.51	H	120	1.55						
1,4-Dichlorobenzene	A	0.50	1.47	B	1.0	1.50	C	2.5	1.40	D	5.0	1.43	E	20	1.62
	F	40	1.58	G	80	1.55	H	120	1.57						
1,2-Dichlorobenzene	A	0.50	1.30	B	1.0	1.33	C	2.5	1.30	D	5.0	1.29	E	20	1.47
	F	40	1.44	G	80	1.43	H	120	1.43						
Acrolein	A	10	0.0222	B	20	0.0225	C	50	0.0209	D	100	0.0218	E	400	0.0211
	F	800	0.0208	G	1600	0.0212	H	2400	0.0206						
Acrylonitrile	A	1.0	0.0677	B	2.0	0.0843	C	5.0	0.0805	D	10	0.0849	E	40	0.0855
	F	80	0.0846	G	160	0.0855	H	240	0.0834						

Results flagged with an asterisk (*) indicate values outside control criteria.

‡ SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
 Calibration Date: 02/08/2010

Initial Calibration Summary
 Volatile Organic Compounds

Calibration ID: CAL9204
 Instrument ID: MS13

Column: MS

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
Toluene-d8	A	4.0	0.898	B	6.0	0.871	C	8.0	0.968	D	10	0.992	E	20	1.03
	F	40	1.04	G	50	0.998	H	60	1.01						
4-Bromofluorobenzene	A	4.0	0.839	B	6.0	0.853	C	8.0	0.949	D	10	0.966	E	20	1.00
	F	40	0.974	G	50	0.941	H	60	0.933						
Dibromofluoromethane	A	4.0	0.240	B	6.0	0.230	C	8.0	0.243	D	10	0.244	E	20	0.249
	F	40	0.241	G	50	0.236	H	60	0.237						
m,p-Xylenes	A	1.0	1.09	B	2.0	1.07	C	5.0	1.07	D	10	1.15	E	40	1.40
	F	80	1.40	G	160	1.37	H	240	1.35						
o-Xylene	A	0.50	1.03	B	1.0	0.988	C	2.5	0.960	D	5.0	1.07	E	20	1.32
	F	40	1.33	G	80	1.30	H	120	1.30						

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
 Calibration Date: 02/08/2010

Initial Calibration Summary
 Volatile Organic Compounds

Calibration ID: CAL9204
 Instrument ID: MS13

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Chloromethane	TRG	AverageRF	% RSD	13.1		≤ 35	0.317		0.01
Vinyl Chloride	TRG	AverageRF	% RSD	9.6		≤ 35	0.274		0.01
Bromomethane	TRG	AverageRF	% RSD	17.0		≤ 35	0.140		0.01
Chloroethane	TRG	AverageRF	% RSD	10.7		≤ 35	0.0414		0.01
Trichlorofluoromethane	TRG	AverageRF	% RSD	10.7		≤ 35	0.390		0.01
1,1-Dichloroethene	MS	AverageRF	% RSD	8.4		≤ 35	0.203		0.01
Methylene Chloride	TRG	AverageRF	% RSD	6.1		≤ 35	0.275		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	6.7		≤ 35	0.258		0.01
1,1-Dichloroethane	TRG	AverageRF	% RSD	7.5		≤ 35	0.423		0.01
Chloroform	TRG	AverageRF	% RSD	3.9		≤ 35	0.427		0.01
1,1,1-Trichloroethane (TCA)	TRG	AverageRF	% RSD	9.9		≤ 35	0.311		0.01
Carbon Tetrachloride	TRG	AverageRF	% RSD	9.4		≤ 35	0.299		0.01
Benzene	MS	AverageRF	% RSD	7.3		≤ 35	1.07		0.01
1,2-Dichloroethane (EDC)	TRG	AverageRF	% RSD	2.9		≤ 35	0.313		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	7.3		≤ 35	0.265		0.01
1,2-Dichloropropane	TRG	AverageRF	% RSD	6.8		≤ 35	0.254		0.01
Bromodichloromethane	TRG	AverageRF	% RSD	5.7		≤ 35	0.318		0.01
2-Chloroethyl Vinyl Ether	TRG	AverageRF	% RSD	14.2		≤ 35	0.125		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	15.1		≤ 35	0.723		0.01
Toluene	MS	AverageRF	% RSD	7.1		≤ 35	0.679		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	13.9		≤ 35	0.338		0.01
1,1,2-Trichloroethane	TRG	AverageRF	% RSD	6.0		≤ 35	0.483		0.01
Tetrachloroethene (PCE)	TRG	AverageRF	% RSD	7.5		≤ 35	0.578		0.01
Dibromochloromethane	TRG	AverageRF	% RSD	5.2		≤ 35	0.642		0.01
Chlorobenzene	MS	AverageRF	% RSD	4.8		≤ 35	2.02		0.01
Ethylbenzene	TRG	AverageRF	% RSD	14.1		≤ 35	1.00		0.01
Bromoform	TRG	AverageRF	% RSD	6.3		≤ 35	0.384		0.01
1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	1.8		≤ 35	0.635		0.01
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	7.2		≤ 35	1.45		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	5.3		≤ 35	1.51		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	5.4		≤ 35	1.37		0.01
Acrolein	TRG	AverageRF	% RSD	3.3		≤ 35	0.0214		0.01
Acrylonitrile	TRG	AverageRF	% RSD	7.3		≤ 35	0.0821		0.01
Toluene-d8	SURR	AverageRF	% RSD	6.3		≤ 35	0.976		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	6.2		≤ 35	0.932		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	2.5		≤ 35	0.240		0.01
m,p-Xylenes	TRG	AverageRF	% RSD	12.6		≤ 35	1.24		0.01
o-Xylene	TRG	AverageRF	% RSD	14.1		≤ 35	1.16		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
Calibration Date: 02/08/2010
Date Analyzed: 02/08/2010

**Second Source Calibration Verification
 Volatile Organic Compounds**

Calibration Type: Internal Standard
Analysis Method: 624

Calibration ID: CAL9204
Units: PPB

File ID: J:\MS13\DATA\020810_624\0208F015.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	20	23	0.317	0.369	16	NA	± 104 %	AverageRF
Vinyl Chloride	20	24	0.274	0.335	22	NA	± 96 %	AverageRF
Bromomethane	20	24	0.140	0.164	18	NA	± 86 %	AverageRF
Chloroethane	20	23	0.0414	0.0468	13	NA	± 62 %	AverageRF
Trichlorofluoromethane	20	19	0.390	0.371	-5	NA	± 52 %	AverageRF
1,1-Dichloroethene	20	22	0.203	0.224	11	NA	± 49 %	AverageRF
Methylene Chloride	20	22	0.275	0.302	10	NA	± 39 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.258	0.263	2	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.423	0.424	0	NA	± 27 %	AverageRF
Chloroform	20	21	0.427	0.439	3	NA	± 32 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.311	0.322	4	NA	± 25 %	AverageRF
Carbon Tetrachloride	20	20	0.299	0.303	1	NA	± 27 %	AverageRF
Benzene	20	21	1.07	1.12	5	NA	± 36 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.313	0.310	-1	NA	± 32 %	AverageRF
Trichloroethene (TCE)	20	20	0.265	0.264	0	NA	± 33 %	AverageRF
1,2-Dichloropropane	20	20	0.254	0.255	0	NA	± 66 %	AverageRF
Bromodichloromethane	20	20	0.318	0.315	-1	NA	± 34 %	AverageRF
2-Chloroethyl Vinyl Ether	20	20	0.125	0.126	1	NA	± 124 %	AverageRF
trans-1,3-Dichloropropene	20	22	0.723	0.788	9	NA	± 50 %	AverageRF
Toluene	20	21	0.679	0.700	3	NA	± 25 %	AverageRF
cis-1,3-Dichloropropene	20	17	0.338	0.287	-15	NA	± 76 %	AverageRF
1,1,2-Trichloroethane	20	20	0.483	0.490	1	NA	± 29 %	AverageRF
Tetrachloroethene (PCE)	20	20	0.578	0.589	2	NA	± 26 %	AverageRF
Dibromochloromethane	20	19	0.642	0.619	-4	NA	± 32 %	AverageRF
Chlorobenzene	20	20	2.02	2.07	2	NA	± 34 %	AverageRF
Ethylbenzene	20	21	1.00	1.08	7	NA	± 41 %	AverageRF
Bromoform	20	21	0.384	0.395	3	NA	± 29 %	AverageRF
1,1,2,2-Tetrachloroethane	20	19	0.635	0.593	-7	NA	± 39 %	AverageRF
1,3-Dichlorobenzene	20	21	1.45	1.54	6	NA	± 27 %	AverageRF
1,4-Dichlorobenzene	20	21	1.51	1.57	3	NA	± 37 %	AverageRF
1,2-Dichlorobenzene	20	20	1.37	1.40	2	NA	± 37 %	AverageRF
Acrolein	100	150	0.0214	0.0324	51	NA	± 80 %	AverageRF
Acrylonitrile	20	18	0.0821	0.0756	-8	NA	± 40 %	AverageRF
m,p-Xylenes	40	43	1.24	1.33	8	NA	± 40 %	AverageRF
o-Xylene	20	23	1.16	1.31	13	NA	± 40 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
Date Analyzed: 05/28/2010

**Continuing Calibration Verification Summary
 Volatile Organic Compounds**

Calibration Type: Internal Standard
Analysis Method: 624

Calibration Date: 02/08/2010
Calibration ID: CAL9204
Analysis Lot: KWG1005070
Units: PPB

File ID: J:\MS13\DATA\052810-624\0528F107.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	20	20	0.01	0.317	0.321	1	NA	± 104 %	AverageRF
Vinyl Chloride	20	20	0.01	0.274	0.267	-2	NA	± 96 %	AverageRF
Bromomethane	20	21	0.01	0.140	0.150	7	NA	± 86 %	AverageRF
Chloroethane	20	22	0.01	0.0414	0.0454	10	NA	± 62 %	AverageRF
Trichlorofluoromethane	20	24	0.01	0.390	0.474	22	NA	± 52 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.203	0.226	11	NA	± 49 %	AverageRF
Methylene Chloride	20	20	0.01	0.275	0.280	2	NA	± 39 %	AverageRF
trans-1,2-Dichloroethene	20	22	0.01	0.258	0.278	8	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	22	0.01	0.423	0.466	10	NA	± 27 %	AverageRF
Chloroform	20	22	0.01	0.427	0.464	9	NA	± 32 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	22	0.01	0.311	0.338	9	NA	± 25 %	AverageRF
Carbon Tetrachloride	20	23	0.01	0.299	0.349	17	NA	± 27 %	AverageRF
Benzene	20	22	0.01	1.07	1.16	9	NA	± 36 %	AverageRF
1,2-Dichloroethane (EDC)	20	24	0.01	0.313	0.370	18	NA	± 32 %	AverageRF
Trichloroethene (TCE)	20	21	0.01	0.265	0.279	5	NA	± 33 %	AverageRF
1,2-Dichloropropane	20	20	0.01	0.254	0.258	1	NA	± 66 %	AverageRF
Bromodichloromethane	20	22	0.01	0.318	0.343	8	NA	± 34 %	AverageRF
2-Chloroethyl Vinyl Ether	20	22	0.01	0.125	0.137	9	NA	± 124 %	AverageRF
trans-1,3-Dichloropropene	20	18	0.01	0.723	0.649	-10	NA	± 50 %	AverageRF
Toluene	20	21	0.01	0.679	0.710	5	NA	± 25 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.338	0.330	-3	NA	± 76 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.483	0.468	-3	NA	± 29 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.578	0.549	-5	NA	± 26 %	AverageRF
Dibromochloromethane	20	19	0.01	0.642	0.598	-7	NA	± 32 %	AverageRF
Chlorobenzene	20	19	0.01	2.02	1.90	-6	NA	± 34 %	AverageRF
Ethylbenzene	20	21	0.01	1.00	1.04	4	NA	± 41 %	AverageRF
Bromoform	20	17	0.01	0.384	0.324	-16	NA	± 29 %	AverageRF
1,1,2,2-Tetrachloroethane	20	21	0.01	0.635	0.670	6	NA	± 39 %	AverageRF
1,3-Dichlorobenzene	20	21	0.01	1.45	1.51	4	NA	± 27 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.51	1.54	2	NA	± 37 %	AverageRF
1,2-Dichlorobenzene	20	21	0.01	1.37	1.43	4	NA	± 37 %	AverageRF
Acrolein	400	630	0.01	0.0214	0.0336	57	NA	± 80 %	AverageRF
Acrylonitrile	40	44	0.01	0.0821	0.0897	9	NA	± 40 %	AverageRF
Toluene-d8	20	20	0.01	0.976	0.967	-1	NA	± 30 %	AverageRF
4-Bromofluorobenzene	20	19	0.01	0.932	0.882	-5	NA	± 30 %	AverageRF
Dibromofluoromethane	20	18	0.01	0.240	0.221	-8	NA	± 30 %	AverageRF
m,p-Xylenes	40	41	0.01	1.24	1.27	3	NA	± 40 %	AverageRF
o-Xylene	20	21	0.01	1.16	1.19	3	NA	± 40 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

‡ SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934

Analysis Run Log
 Volatile Organic Compounds

Analysis Method: 624

Analysis Lot: KWG1005070
 Instrument ID: MS13

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0528F106.D	GC/MS Tuning - Generic	KWG1005070-1	5/28/2010	19:43		5/28/2010	20:02
0528F107.D	Continuing Calibration Verification	KWG1005070-2	5/28/2010	20:19		5/28/2010	20:38
0528F108.D	Method Blank	KWG1005071-4	5/28/2010	20:46		5/28/2010	21:05
0528F109.D	SW-2	K1004934-005	5/28/2010	21:14		5/28/2010	21:33
0528F110.D	SW-3	K1004934-006	5/28/2010	21:41		5/28/2010	22:00
0528F111.D	SW-9	K1004934-007	5/28/2010	22:09		5/28/2010	22:28
0528F112.D	FB-051410	K1004934-008	5/28/2010	22:36		5/28/2010	22:55
0528F113.D	Trip Blank	K1004934-009	5/28/2010	23:04		5/28/2010	23:23
0528F114.D	Lab Control Sample	KWG1005071-3	5/28/2010	23:31		5/28/2010	23:50
0528F119.D	SW-3MS	KWG1005071-1	5/29/2010	01:50		5/29/2010	02:09
0528F201.D	SW-3DMS	KWG1005071-2	5/29/2010	02:45		5/29/2010	03:04
0528F121.D	ZZZZZZ	ZZZZZZ	5/29/2010	03:39		5/29/2010	03:58
0528F122.D	ZZZZZZ	ZZZZZZ	5/29/2010	04:07		5/29/2010	04:26
0528F123.D	ZZZZZZ	ZZZZZZ	5/29/2010	04:34		5/29/2010	04:53
0528F124.D	ZZZZZZ	ZZZZZZ	5/29/2010	05:02		5/29/2010	05:21
0528F125.D	ZZZZZZ	ZZZZZZ	5/29/2010	05:29		5/29/2010	05:48
0528F126.D	ZZZZZZ	ZZZZZZ	5/29/2010	05:56		5/29/2010	06:15

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Water

Service Request: K1004934
Date Extracted: 05/28/2010

**Extraction Prep Log
 Volatile Organic Compounds**

Extraction Method: METHOD
Analysis Method: 624

Extraction Lot: KWG1005071
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
SW-2	K1004934-005	05/14/10	05/15/10	5ml	5ml	NA	
SW-3	K1004934-006	05/14/10	05/15/10	5ml	5ml	NA	
SW-9	K1004934-007	05/14/10	05/15/10	5ml	5ml	NA	
FB-051410	K1004934-008	05/14/10	05/15/10	5ml	5ml	NA	
Trip Blank	K1004934-009	05/14/10	05/15/10	5ml	5ml	NA	
Method Blank	KWG1005071-4	NA	NA	5ml	5ml	NA	
SW-3MS	KWG1005071-1	05/14/10	05/15/10	5ml	5ml	NA	
SW-3DMS	KWG1005071-2	05/14/10	05/15/10	5ml	5ml	NA	
Lab Control Sample	KWG1005071-3	NA	NA	5ml	5ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Organic Analysis:
Volatile Organic Compounds

Validation Package

Organic Analysis:
Volatile Organic Compounds

Validation Package

QC Reports

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934

Surrogate Recovery Summary
 Volatile Organic Compounds

Extraction Method: METHOD
 Analysis Method: 624

Units: PERCENT
 Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
SW-2	K1004934-005	97	92	92
SW-3	K1004934-006	96	90	91
SW-9	K1004934-007	96	89	94
FB-051410	K1004934-008	97	90	93
Trip Blank	K1004934-009	97	91	92
Method Blank	KWG1005071-4	97	93	92
SW-3MS	KWG1005071-1	100	92	92
SW-3DMS	KWG1005071-2	100	92	93
Lab Control Sample	KWG1005071-3	99	93	92

Surrogate Recovery Control Limits (%)

Sur1 = Toluene-d8	79-131
Sur2 = 4-Bromofluorobenzene	82-122
Sur3 = Dibromofluoromethane	86-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
 Date Analyzed: 05/28/2010
 Time Analyzed: 20:19

Internal Standard Area and RT Summary
 Volatile Organic Compounds

File ID: J:\MS13\DATA\052810-624\0528F107.D
 Instrument ID: MS13
 Analysis Method: 624

Lab Code: KWG1005070-2
 Analysis Lot: KWG1005070

	Fluorobenzene		1,4-Dichlorobenzene-d4		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Results ==>	606,960	6.12	217,420	15.08	238,587	12.04
Upper Limit ==>	1,213,920	6.62	434,840	15.58	477,174	12.54
Lower Limit ==>	303,480	5.62	108,710	14.58	119,294	11.54
ICAL Result ==>	782,787	6.36	304,962	15.21	292,855	12.21

Associated Analyses

Method Blank	KWG1005071-4	582,035	6.12	204,168	15.08	230,841	12.03
SW-2	K1004934-005	577,507	6.12	203,627	15.08	226,515	12.03
SW-3	K1004934-006	584,498	6.12	205,452	15.08	230,615	12.03
SW-9	K1004934-007	582,779	6.12	205,579	15.08	231,689	12.03
FB-051410	K1004934-008	568,685	6.12	202,971	15.08	228,018	12.03
Trip Blank	K1004934-009	574,723	6.12	207,484	15.08	227,907	12.03
Lab Control Sample	KWG1005071-3	601,301	6.12	221,353	15.08	237,048	12.04
SW-3MS	KWG1005071-1	598,974	6.12	222,254	15.08	239,642	12.03
SW-3DMS	KWG1005071-2	591,524	6.12	211,858	15.08	237,418	12.03

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Extracted: 05/29/2010
 Date Analyzed: 05/29/2010

Matrix Spike/Duplicate Matrix Spike Summary
 Volatile Organic Compounds

Sample Name: SW-3
 Lab Code: K1004934-006
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low
 Extraction Lot: KWG1005071

Analyte Name	Sample Result	SW-3MS KWG1005071-1 Matrix Spike			SW-3DMS KWG1005071-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,1-Dichloroethene	ND	28.1	20.0	141	27.4	20.0	137	63-153	2	30
Benzene	ND	24.2	20.0	121	23.9	20.0	119	69-128	1	30
Trichloroethene (TCE)	ND	23.5	20.0	117	23.2	20.0	116	33-174	1	30
Toluene	0.27	23.4	20.0	116	23.4	20.0	116	62-132	0	30
Chlorobenzene	ND	20.0	20.0	100	20.1	20.0	100	71-120	0	30
1,2-Dichlorobenzene	ND	21.0	20.0	105	21.9	20.0	110	72-117	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Extracted: 05/28/2010
 Date Analyzed: 05/28/2010

Lab Control Spike Summary
 Volatile Organic Compounds

Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low
 Extraction Lot: KWG1005071

Lab Control Sample
 KWG1005071-3
 Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Chloromethane	15.4	20.0	77	45-137
Vinyl Chloride	15.9	20.0	80	54-145
Bromomethane	16.4	20.0	82	20-175
Chloroethane	18.3	20.0	91	56-137
Trichlorofluoromethane	17.5	20.0	88	50-135
1,1-Dichloroethene	17.2	20.0	86	74-139
Methylene Chloride	16.4	20.0	82	76-120
trans-1,2-Dichloroethene	16.9	20.0	85	76-125
1,1-Dichloroethane	17.4	20.0	87	68-127
Chloroform	18.4	20.0	92	69-126
1,1,1-Trichloroethane (TCA)	17.2	20.0	86	61-135
Carbon Tetrachloride	18.8	20.0	94	54-142
Benzene	17.7	20.0	88	73-122
1,2-Dichloroethane (EDC)	20.1	20.0	100	66-132
Trichloroethene (TCE)	17.4	20.0	87	70-123
1,2-Dichloropropane	17.4	20.0	87	73-122
Bromodichloromethane	17.9	20.0	90	68-136
2-Chloroethyl Vinyl Ether	20.2	20.0	101	30-155
trans-1,3-Dichloropropene	16.6	20.0	83	56-121
Toluene	17.6	20.0	88	71-124
cis-1,3-Dichloropropene	13.9	20.0	70	64-131
1,1,2-Trichloroethane	17.2	20.0	86	75-118
Tetrachloroethene (PCE)	15.5	20.0	78	65-125
Dibromochloromethane	16.1	20.0	81	65-132
Chlorobenzene	16.2	20.0	81	77-115
Ethylbenzene	17.5	20.0	87	72-123
Bromoform	15.9	20.0	80	51-145
1,1,2,2-Tetrachloroethane	18.8	20.0	94	62-135
1,3-Dichlorobenzene	18.3	20.0	92	74-116
1,4-Dichlorobenzene	18.2	20.0	91	74-114
1,2-Dichlorobenzene	17.9	20.0	90	76-113
Acrolein	114	100	114	10-185
Acrylonitrile	19.7	20.0	98	63-138
m,p-Xylenes	34.9	40.0	87	71-126
o-Xylene	18.0	20.0	90	70-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Water

Service Request: K1004934
Date Extracted: 05/28/2010
Date Analyzed: 05/28/2010
Time Analyzed: 20:46

**Method Blank Summary
 Volatile Organic Compounds**

Sample Name: Method Blank
Lab Code: KWG1005071-4
Extraction Method: METHOD
Analysis Method: 624

File ID: J:\MS13\DATA\052810-624\0528F108.D
Instrument ID: MS13
Level: Low
Extraction Lot: KWG1005071

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
SW-2	K1004934-005	J:\MS13\DATA\052810-624\0528F109.D	05/28/10	21:14
SW-3	K1004934-006	J:\MS13\DATA\052810-624\0528F110.D	05/28/10	21:41
SW-9	K1004934-007	J:\MS13\DATA\052810-624\0528F111.D	05/28/10	22:09
FB-051410	K1004934-008	J:\MS13\DATA\052810-624\0528F112.D	05/28/10	22:36
Trip Blank	K1004934-009	J:\MS13\DATA\052810-624\0528F113.D	05/28/10	23:04
Lab Control Sample	KWG1005071-3	J:\MS13\DATA\052810-624\0528F114.D	05/28/10	23:31
SW-3MS	KWG1005071-1	J:\MS13\DATA\052810-624\0528F119.D	05/29/10	01:50
SW-3DMS	KWG1005071-2	J:\MS13\DATA\052810-624\0528F201.D	05/29/10	02:45

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Water

Service Request: K1004934
Date Extracted: 05/28/2010
Date Analyzed: 05/28/2010
Time Analyzed: 23:31

**Lab Control Sample Summary
 Volatile Organic Compounds**

Sample Name: Lab Control Sample **File ID:** J:\MS13\DATA\052810-624\0528F114.D
Lab Code: KWG1005071-3 **Instrument ID:** MS13
Extraction Method: METHOD **Level:** Low
Analysis Method: 624 **Extraction Lot:** KWG1005071

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1005071-4	J:\MS13\DATA\052810-624\0528F108.D	05/28/10	20:46
SW-2	K1004934-005	J:\MS13\DATA\052810-624\0528F109.D	05/28/10	21:14
SW-3	K1004934-006	J:\MS13\DATA\052810-624\0528F110.D	05/28/10	21:41
SW-9	K1004934-007	J:\MS13\DATA\052810-624\0528F111.D	05/28/10	22:09
FB-051410	K1004934-008	J:\MS13\DATA\052810-624\0528F112.D	05/28/10	22:36
Trip Blank	K1004934-009	J:\MS13\DATA\052810-624\0528F113.D	05/28/10	23:04
SW-3MS	KWG1005071-1	J:\MS13\DATA\052810-624\0528F119.D	05/29/10	01:50
SW-3DMS	KWG1005071-2	J:\MS13\DATA\052810-624\0528F201.D	05/29/10	02:45

Organic Analysis:
Volatile Organic Compounds

Validation Package

Raw Data

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-2
 Lab Code: K1004934-005
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	0.40	J	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-2
 Lab Code: K1004934-005
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	97	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	92	82-122	05/28/10	Acceptable
Dibromofluoromethane	92	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

Exception Report

Data File: J:\MS13\DATA\052810-624\0528F109.D
Lab ID: K1004934-005
Run Type: SMPL
Matrix: WATER

Date Acquired: 05/28/2010 21:14
Date Quantitated: 05/28/2010 21:35
Batch ID: KWG1005070
Analysis Method: 624
ListJoinID: LJ11571

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: Com 5/28/10

Secondary Review: HTB6-1-10

Quantitation Report

Bottle ID:		Tier:	V	Matrix:	WATER
Prod Code:	624 VOC_FP	Collect Date:	05/14/2010	Receive Date:	05/15/2010

Analysis Lot:	KWG1005070	Prep Lot:	KWG1005071	Report Group:	K1004934
Analysis Method:	624	Prep Method:	METHOD		
Prep Ref:	913225	Prep Date:	05/28/2010		

Quant Method:	J:\MS13\METHODS\020810MS13_6	Calibration ID:	CAL9204
Title:	Volatile Organic Compounds	Report List ID:	LJ11571
Tune Ref:	J:\MS13\DATA\052810-624\0528F106.D	Method ID:	MJ158
MB Ref:	J:\MS13\DATA\052810-624\0528F108.D	Quant based on Report List	

Data File:	J:\MS13\DATA\052810-624\0528F109.D	Instrument:	MS13
Acqu Date:	05/28/2010 21:14	Quant Date:	05/28/2010 21:35
Run Type:	SMPL	Vial:	5
Lab ID:	K1004934-005	Dilution:	1.0
		Soln Conc. Units:	PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	6.12	0.00	96	577507	20.00	OK
2	Chlorobenzene-d5	12.03	-0.01	82	226515	20.00	OK
3	1,4-Dichlorobenzene-d4	15.08	0.00	152	203627	20.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	5.11	-0.01	0.00	113	126876	18.31	92	86-124	OK
1	Toluene-d8	9.30	0.00	0.00	98	547489	19.43	97	79-131	OK
2	4-Bromofluorobenzene	13.70	0.00	0.00	95	193642	18.35	92	82-122	OK

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
								Final Conc. Units: ug/L		
1	Chloromethane				50	0		0.23	U	
1	Vinyl Chloride				62	0		0.16	U	
1	Bromomethane				96	0		0.28	U	
1	Chloroethane				49	0		0.16	U	
1	Trichlorofluoromethane				101	0		0.11	U	
1	Acrolein				56	0		3.3	U	
1	1,1-Dichloroethene				96	0		0.15	U	
1	Methylene Chloride				84	0		0.12	U	
1	Acrylonitrile				53	0		0.61	U	
1	trans-1,2-Dichloroethene				96	0		0.15	U	
1	1,1-Dichloroethane				63	0		0.11	U	
1	Chloroform				83	0		0.11	U	
1	1,1,1-Trichloroethane (TCA)				97	0		0.14	U	
1	Carbon Tetrachloride				117	0		0.047	U	
1	Benzene				78	0		0.14	U	

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File:	J:\MS13\DATA\052810-624\0528F109.D	Instrument:	MS13
Acqu Date:	05/28/2010 21:14	Quant Date:	05/28/2010 21:35
Run Type:	SMPL	Vial:	5
Lab ID:	K1004934-005	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds

						Final Conc. Units: ug/L				
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichloroethane (EDC)				62	0		0.12	U	
1	Trichloroethene (TCE)				95	0		0.13	U	
1	1,2-Dichloropropane				63	0		0.17	U	
1	Bromodichloromethane				83	0		0.12	U	
1	2-Chloroethyl Vinyl Ether				63	0		0.29	U	
1	cis-1,3-Dichloropropene				75	0		0.13	U	
1	Toluene	9.46		0.00	92	7942	0.4000	0.40	J	
2	trans-1,3-Dichloropropene				75	0		0.10	U	
2	1,1,2-Trichloroethane				83	0		0.16	U	
2	Tetrachloroethene (PCE)				164	0		0.14	U	
2	Dibromochloromethane				129	0		0.15	U	
2	Chlorobenzene				112	0		0.098	U	
2	Ethylbenzene				106	0		0.11	U	
2	m,p-Xylenes				106	0		0.26	U	
2	o-Xylene				106	0		0.13	U	
2	Bromoform				173	0		0.37	U	
3	1,1,2,2-Tetrachloroethane				83	0		0.11	U	
3	1,3-Dichlorobenzene	14.98		0.00	146	928	0.0600	0.16	U	
3	1,4-Dichlorobenzene				146	0d		0.15	U	
3	1,2-Dichlorobenzene				146	0		0.13	U	

Prep Amount: 5 ml Dilution: 1.0
 Prep Final Vol: 5 ml Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL, also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

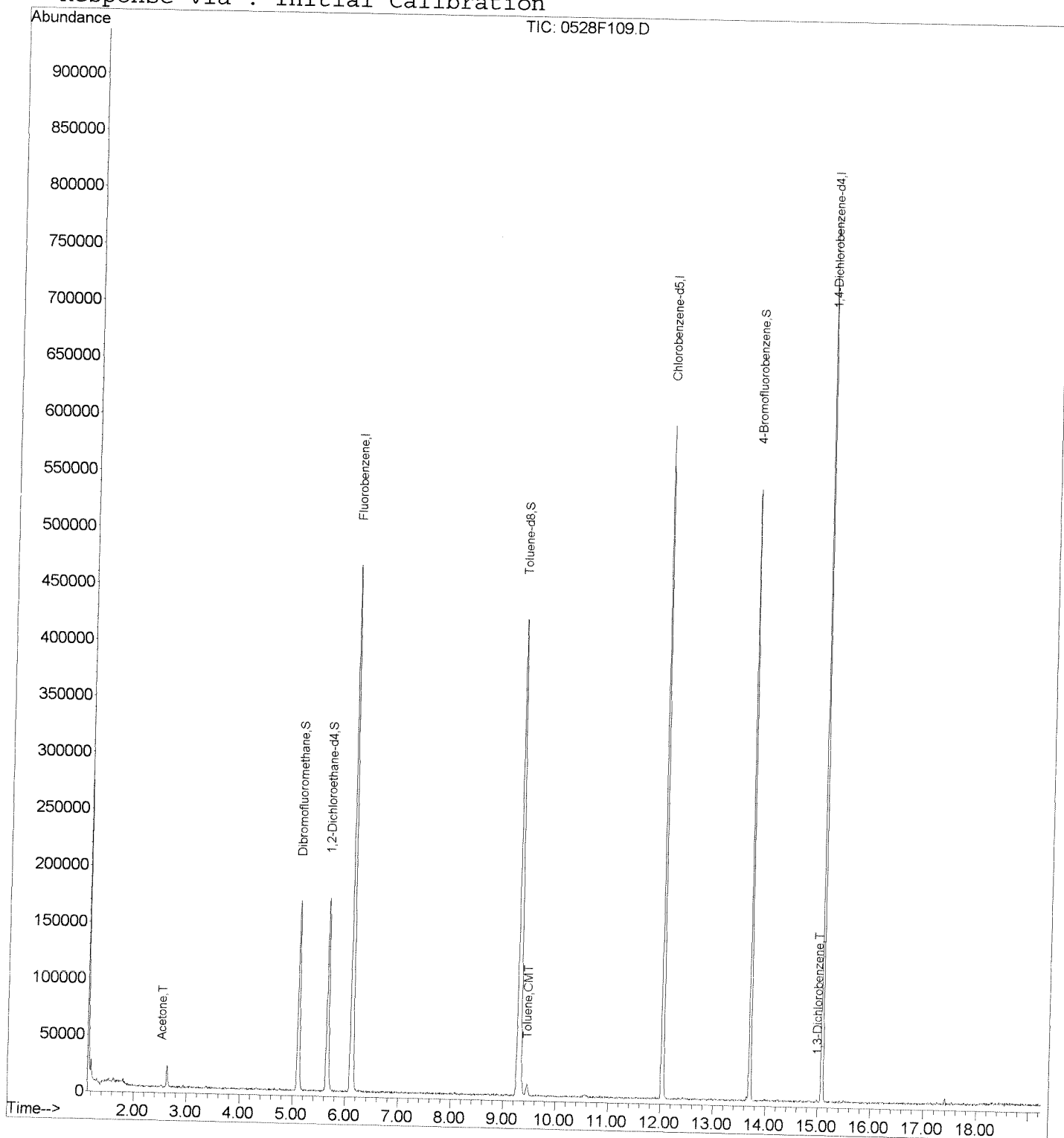
Data File : J:\MS13\DATA\052810-624\0528F109.D
 Acq On : 28 May 2010 9:14 pm
 Sample : K4934-005
 Misc :

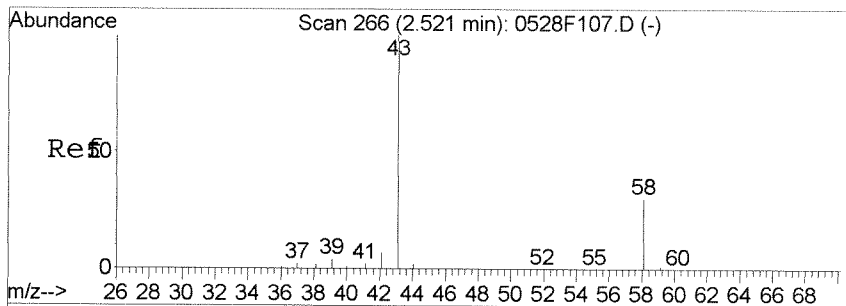
Vial: 5
 Operator: CMK
 Inst : MS13
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: May 28 21:35 2010

Quant Results File: 020810MS13_6

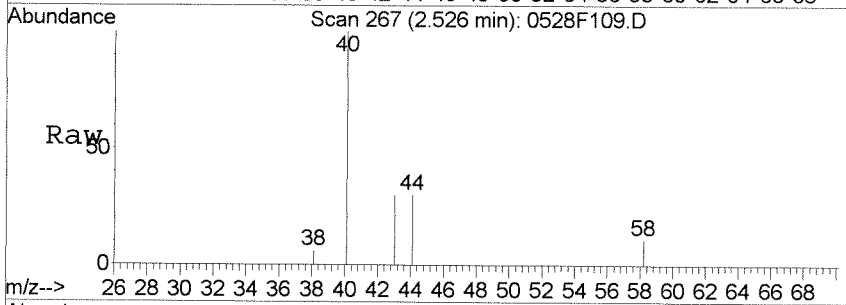
Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
 Title : VOA MS13 EPA Method 8260B
 Last Update : Fri May 28 21:07:16 2010
 Response via : Initial Calibration



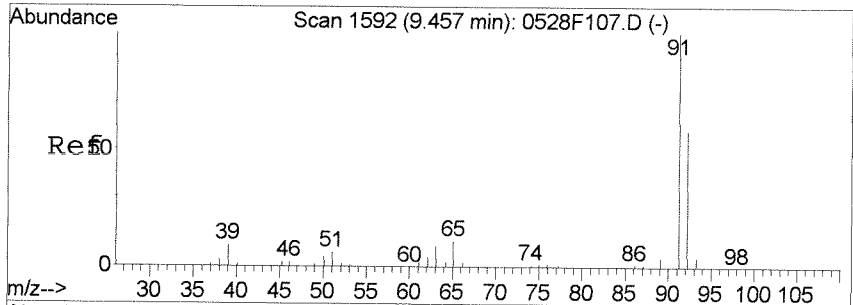
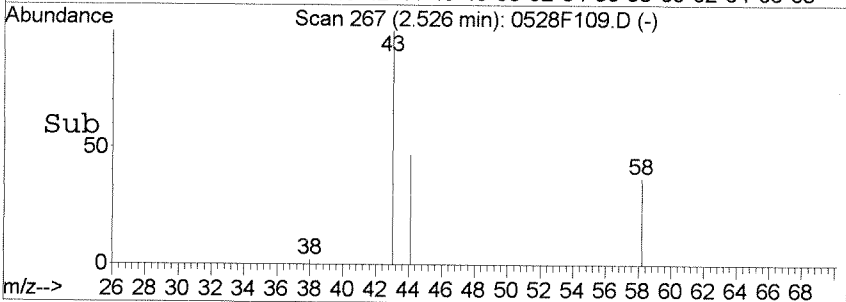
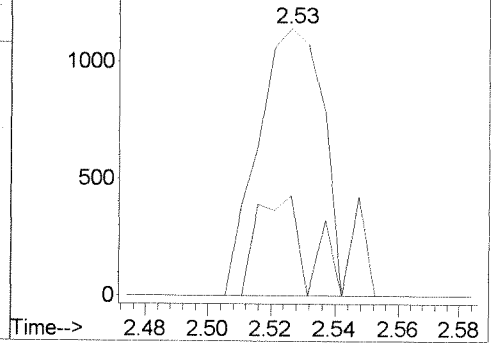


#11
 Acetone
 Concen: 1.07 PPB
 RT: 2.53 min Scan# 267
 Delta R.T. -0.02 min
 Lab File: 0528F109.D
 Acq: 28 May 2010 9:14 pm

Tgt Ion	Resp	Lower	Upper
43	1731		
58	37.4	4.3	64.3
42	0.0	0.0	37.4

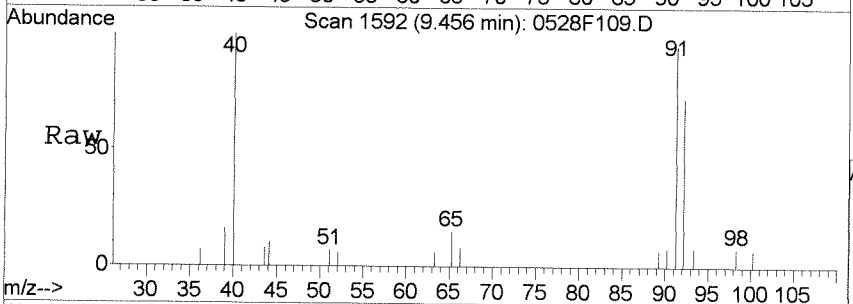


Abundance Ion 43.00 (42.70 to 43.70): 0528F109
 Ion 58.00 (57.70 to 58.70): 0528F109
 Ion 42.00 (41.70 to 42.70): 0528F109

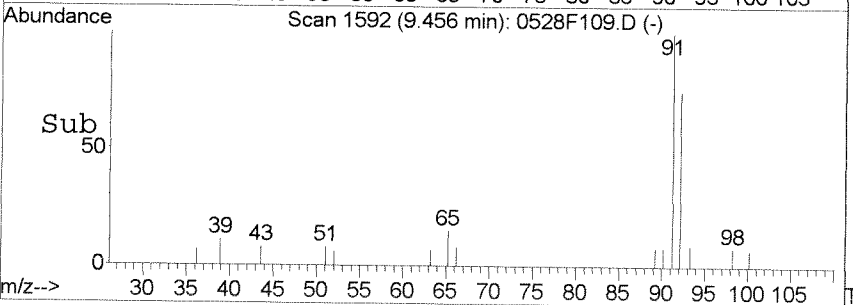
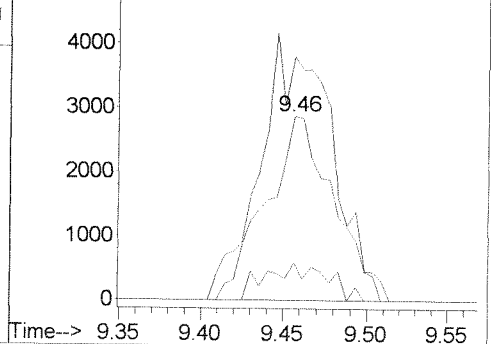


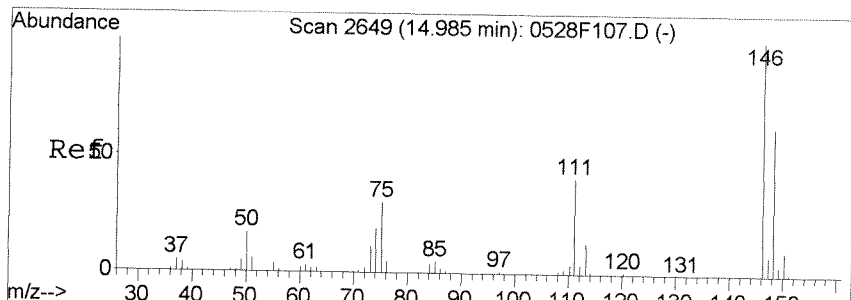
#34
 Toluene
 Concen: 0.40 PPB
 RT: 9.46 min Scan# 1592
 Delta R.T. 0.08 min
 Lab File: 0528F109.D
 Acq: 28 May 2010 9:14 pm

Tgt Ion	Resp	Lower	Upper
92	7942		
91	132.6	139.7	199.7#
65	20.4	0.0	47.9



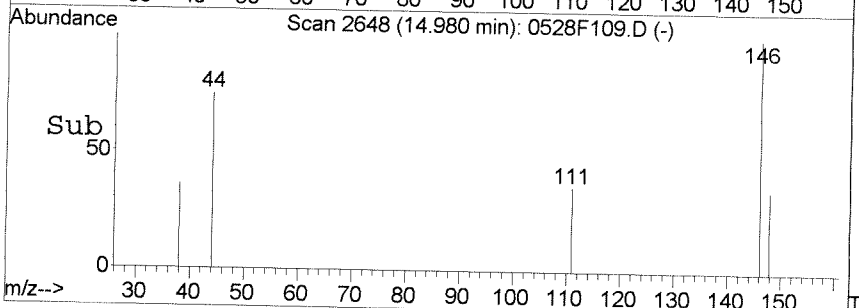
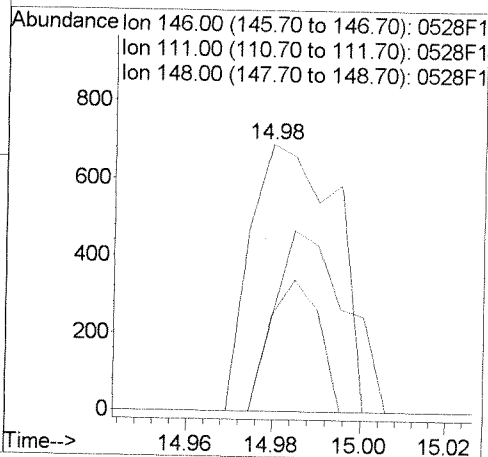
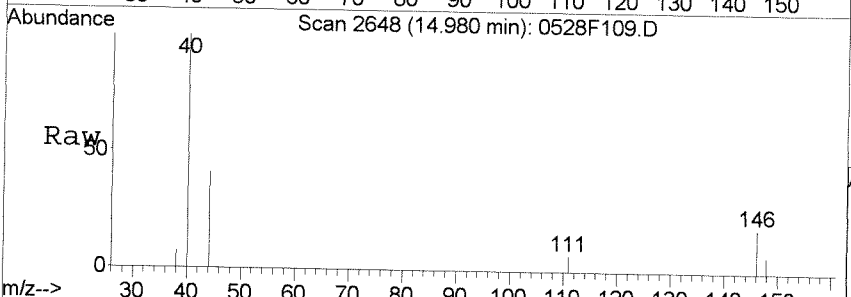
Abundance Ion 92.00 (91.70 to 92.70): 0528F109
 Ion 91.00 (90.70 to 91.70): 0528F109
 Ion 65.00 (64.70 to 65.70): 0528F109





#51
 1,3-Dichlorobenzene
 Concen: 0.06 PPB
 RT: 14.98 min Scan# 2648
 Delta R.T. -0.01 min
 Lab File: 0528F109.D
 Acq: 28 May 2010 9:14 pm

Tgt Ion	146	111	148	Resp	Lower	Upper
	100	35.9	35.0	928	8.1	68.1
					32.9	92.9



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-3
 Lab Code: K1004934-006
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	0.27	J	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-3 Units: ug/L
 Lab Code: K1004934-006 Basis: NA
 Extraction Method: METHOD Level: Low
 Analysis Method: 624

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	96	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	90	82-122	05/28/10	Acceptable
Dibromofluoromethane	91	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

Exception Report

Data File: J:\MS13\DATA\052810-624\0528F110.D
Lab ID: K1004934-006
Run Type: SMPL
Matrix: WATER

Date Acquired: 05/28/2010 21:41
Date Quantitated: 05/28/2010 22:05
Batch ID: KWG1005070
Analysis Method: 624
ListJoinID: LJ11571

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: Am 5/28/10

Secondary Review: HBG-170

Quantitation Report

Bottle ID:	Tier: V	Matrix: WATER
Prod Code: 624 VOC_FP	Collect Date: 05/14/2010	Receive Date: 05/15/2010

Analysis Lot: KWG1005070	Prep Lot: KWG1005071	Report Group: K1004934
Analysis Method: 624	Prep Method: METHOD	
Prep Ref: 913226	Prep Date: 05/28/2010	

Quant Method: J:\MS13\METHODS\020810MS13_6	Calibration ID: CAL9204	
Title: Volatile Organic Compounds	Report List ID: LJ11571	
Tune Ref: J:\MS13\DATA\052810-624\0528F106.D	Method ID: MJ158	
MB Ref: J:\MS13\DATA\052810-624\0528F108.D	Quant based on Report List	

Data File: J:\MS13\DATA\052810-624\0528F110.D	Instrument: MS13	
Acqu Date: 05/28/2010 21:41	Quant Date: 05/28/2010 22:05	Vial: 6
Run Type: SMPL		Dilution: 1.0
Lab ID: K1004934-006		Soln Conc. Units: PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	6.12	0.00	96	584498	20.00	OK
2	Chlorobenzene-d5	12.03	-0.01	82	230615	20.00	OK
3	1,4-Dichlorobenzene-d4	15.08	0.00	152	205452	20.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	5.11	-0.01	0.00	113	127412	18.17	91	86-124	OK
1	Toluene-d8	9.30	0.00	0.00	98	547463	19.20	96	79-131	OK
2	4-Bromofluorobenzene	13.70	0.00	0.00	95	193686	18.02	90	82-122	OK

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Chloromethane				50	0		0.23	U	
1	Vinyl Chloride				62	0		0.16	U	
1	Bromomethane				96	0		0.28	U	
1	Chloroethane				49	0d		0.16	U	
1	Trichlorofluoromethane				101	0		0.11	U	
1	Acrolein				56	0		3.3	U	
1	1,1-Dichloroethene				96	0		0.15	U	
1	Methylene Chloride				84	0		0.12	U	
1	Acrylonitrile				53	0		0.61	U	
1	trans-1,2-Dichloroethene				96	0		0.15	U	
1	1,1-Dichloroethane				63	0		0.11	U	
1	Chloroform				83	0		0.11	U	
1	1,1,1-Trichloroethane (TCA)				97	0		0.14	U	
1	Carbon Tetrachloride				117	0		0.047	U	
1	Benzene				78	0		0.14	U	

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

?: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ? : Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File:	J:\MS13\DATA\052810-624\0528F110.D	Instrument:	MS13
Acqu Date:	05/28/2010 21:41	Quant Date:	05/28/2010 22:05
Run Type:	SMPL	Vial:	6
Lab ID:	K1004934-006	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichloroethane (EDC)				62	0		0.12	U	
1	Trichloroethene (TCE)				95	0		0.13	U	
1	1,2-Dichloropropane				63	0		0.17	U	
1	Bromodichloromethane				83	0		0.12	U	
1	2-Chloroethyl Vinyl Ether				63	0		0.29	U	
1	cis-1,3-Dichloropropene				75	0		0.13	U	
1	Toluene	9.46		0.00	92	5428	0.2700	0.27	J	
2	trans-1,3-Dichloropropene				75	0		0.10	U	
2	1,1,2-Trichloroethane				83	0		0.16	U	
2	Tetrachloroethene (PCE)				164	0		0.14	U	
2	Dibromochloromethane				129	0		0.15	U	
2	Chlorobenzene				112	0		0.098	U	
2	Ethylbenzene				106	0		0.11	U	
2	m,p-Xylenes				106	0		0.26	U	
2	o-Xylene				106	0		0.13	U	
2	Bromoform				173	0		0.37	U	
3	1,1,2,2-Tetrachloroethane				83	0		0.11	U	
3	1,3-Dichlorobenzene	14.98		0.00	146	1193	0.0800	0.16	U	
3	1,4-Dichlorobenzene				146	0d		0.15	U	
3	1,2-Dichlorobenzene				146	0		0.13	U	

Prep Amount: 5 ml Dilution: 1.0
 Prep Final Vol: 5 ml Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound
 Printed: 05/28/2010 23:59:08
 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

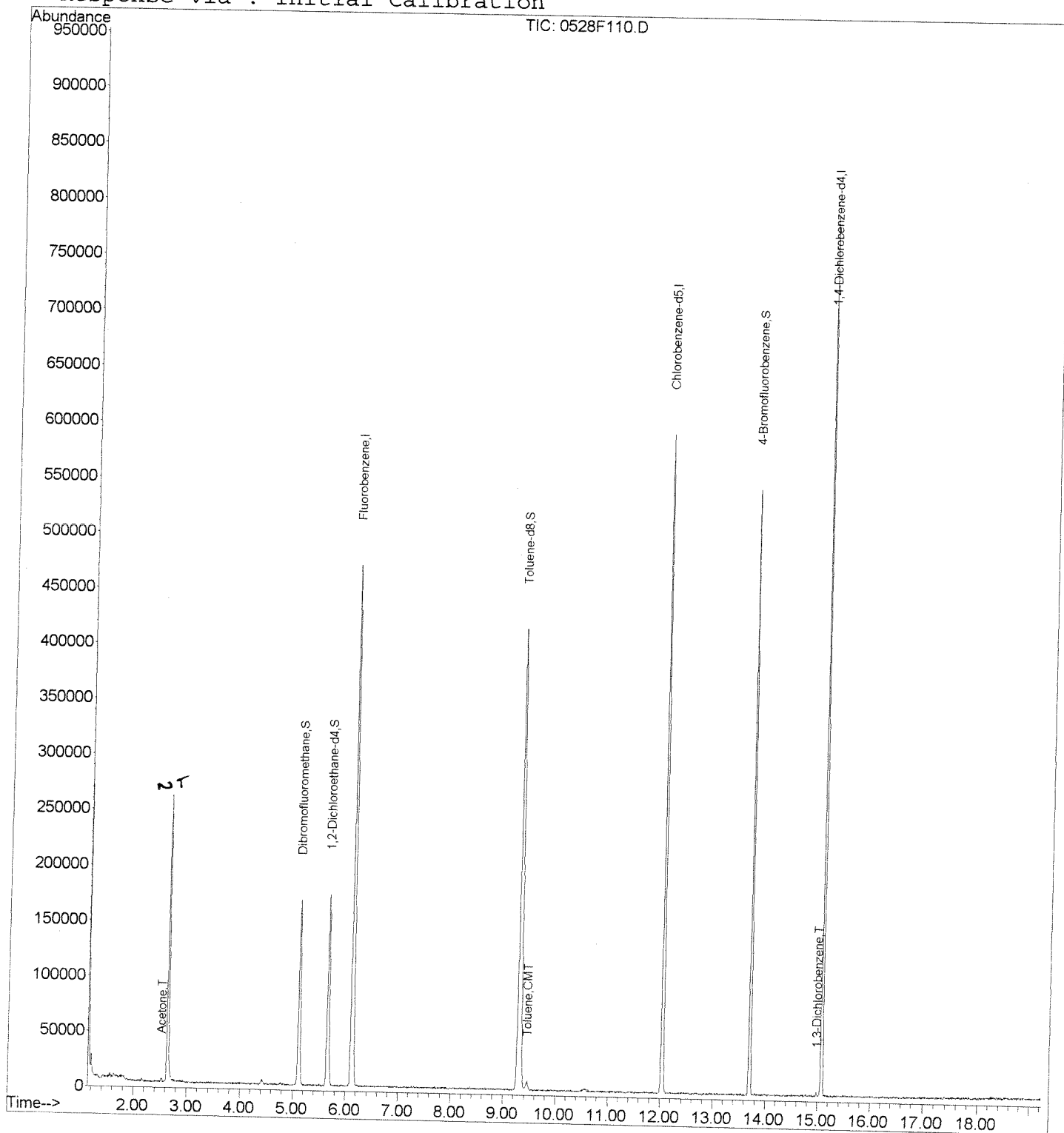
*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

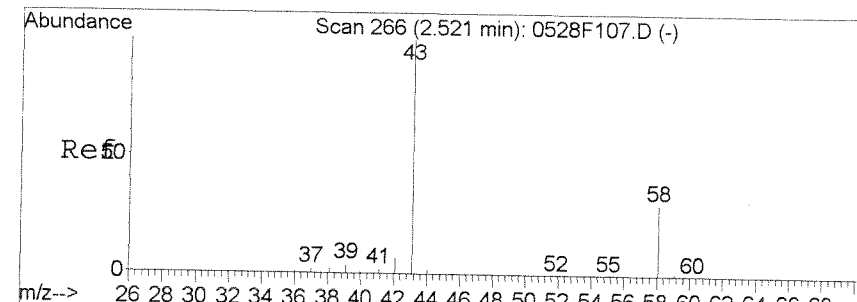
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Acq On : 28 May 2010 9:41 pm
Sample : K4934-006
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 28 22:05 2010

Vial: 6
Operator: CMK
Inst : MS13
Multiplr: 1.00

Quant Results File: 020810MS13_6

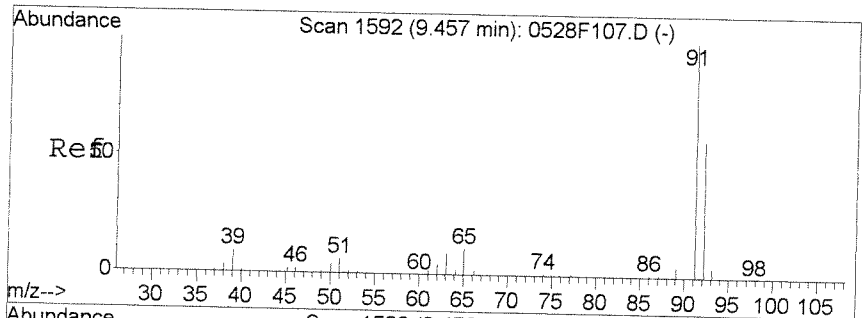
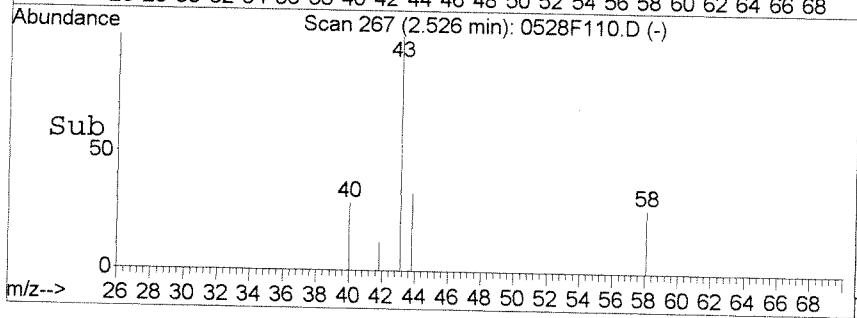
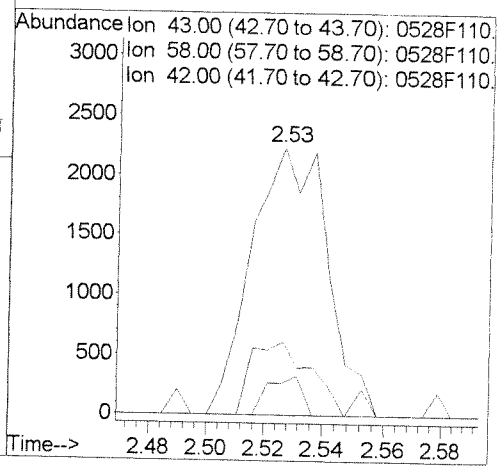
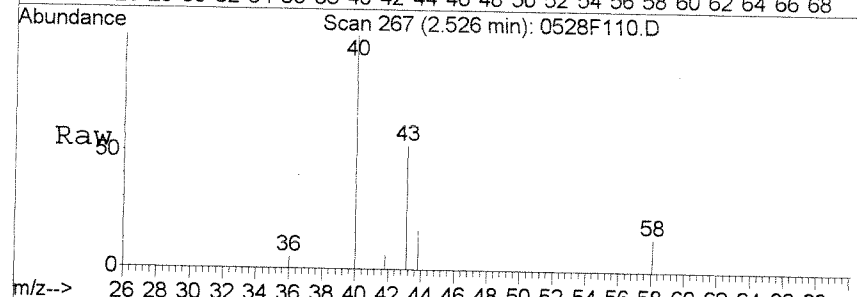
Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
Title : VOA MS13 EPA Method 8260B
Last Update : Fri May 28 21:07:16 2010
Response via : Initial Calibration





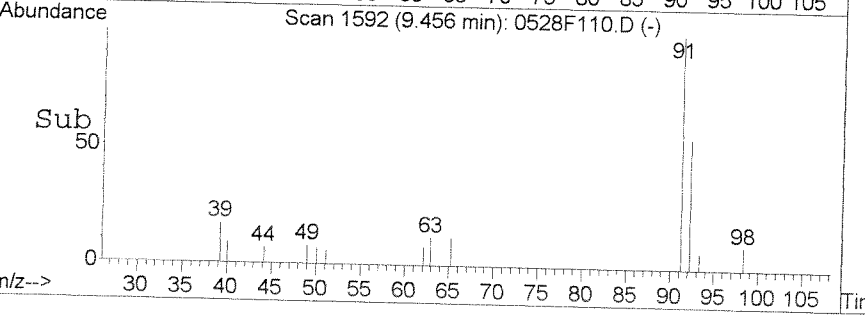
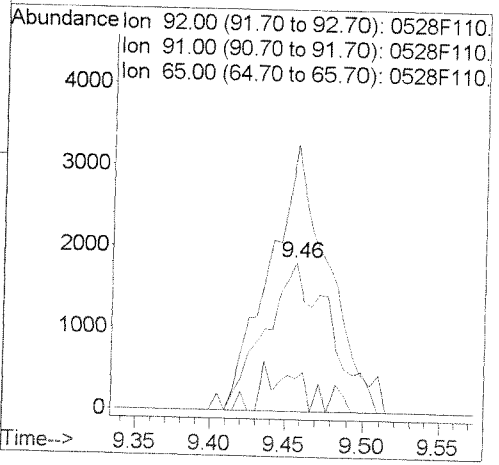
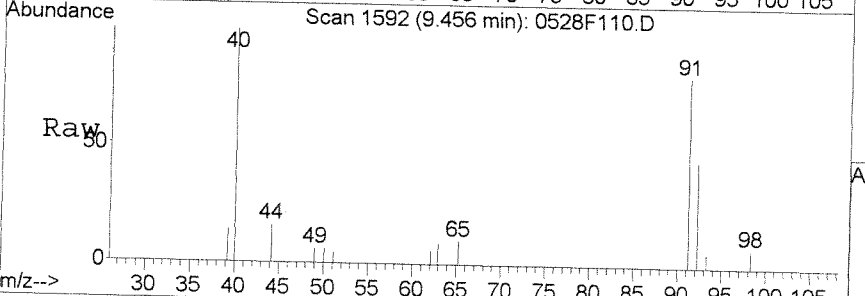
#11
 Acetone
 Concen: 2.43 PPB
 RT: 2.53 min Scan# 267
 Delta R.T. -0.02 min
 Lab File: 0528F110.D
 Acq: 28 May 2010 9:41 pm

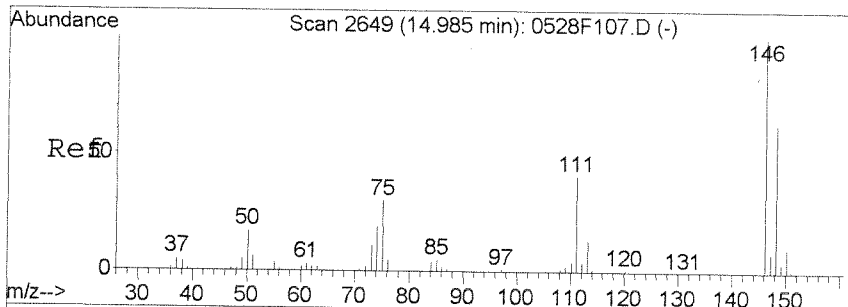
Tgt Ion	Resp	Lower	Upper
43	100		
58	27.3	4.3	64.3
42	12.1	0.0	37.4



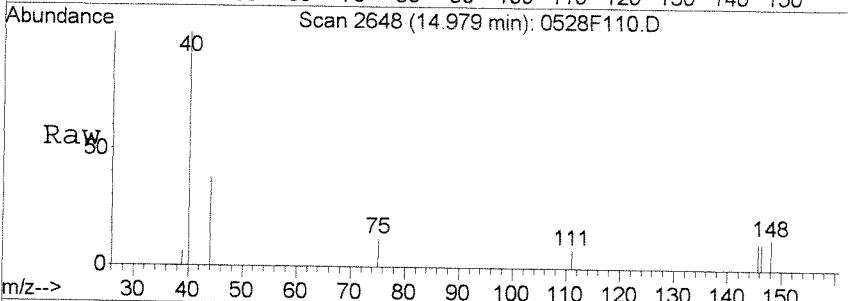
#34
 Toluene
 Concen: 0.27 PPB
 RT: 9.46 min Scan# 1592
 Delta R.T. 0.08 min
 Lab File: 0528F110.D
 Acq: 28 May 2010 9:41 pm

Tgt Ion	Resp	Lower	Upper
92	100		
91	179.6	139.7	199.7
65	22.3	0.0	47.9

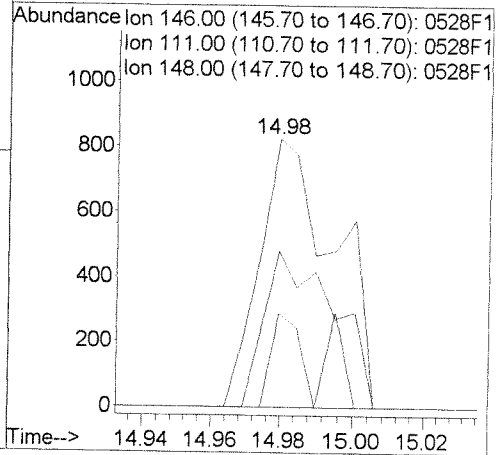
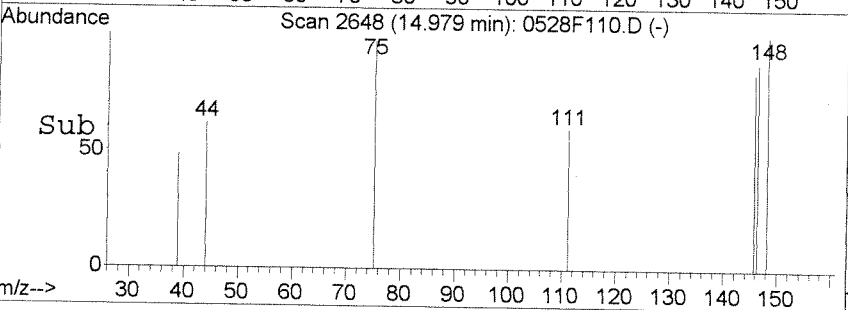




#51
 1,3-Dichlorobenzene
 Concen: 0.08 PPB
 RT: 14.98 min Scan# 2648
 Delta R.T. -0.01 min
 Lab File: 0528F110.D
 Acq: 28 May 2010 9:41 pm



Tgt Ion	Resp	Lower	Upper
146	1193		
146	100		
111	35.1	8.1	68.1
148	58.3	32.9	92.9



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-9
 Lab Code: K1004934-007
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	0.39	J	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-9
 Lab Code: K1004934-007
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	96	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	89	82-122	05/28/10	Acceptable
Dibromofluoromethane	94	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

Exception Report

Data File: J:\MS13\DATA\052810-624\0528F111.D
Lab ID: K1004934-007
RunType: SMPL
Matrix: WATER

Date Acquired: 05/28/2010 22:09
Date Quantitated: 05/28/2010 22:32
Batch ID: KWG1005070
Analysis Method: 624
ListJoinID: LJ11571

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: Anna 5/28/10

Secondary Review: HTB 6-1-10

Quantitation Report

Bottle ID:	Tier: V	Matrix: WATER
Prod Code: 624 VOC_FP	Collect Date: 05/14/2010	Receive Date: 05/15/2010

Analysis Lot: KWG1005070	Prep Lot: KWG1005071	Report Group: K1004934
Analysis Method: 624	Prep Method: METHOD	
Prep Ref: 913227	Prep Date: 05/28/2010	

Quant Method: J:\MS13\METHODS\020810MS13_6	Calibration ID: CAL9204
Title: Volatile Organic Compounds	Report List ID: LJ11571
Tune Ref: J:\MS13\DATA\052810-624\0528F106.D	Method ID: MJ158
MB Ref: J:\MS13\DATA\052810-624\0528F108.D	Quant based on Report List

Data File: J:\MS13\DATA\052810-624\0528F111.D	Instrument: MS13
Acq Date: 05/28/2010 22:09	Quant Date: 05/28/2010 22:32
Run Type: SMPL	Vial: 7
Lab ID: K1004934-007	Dilution: 1.0
	Soln Conc. Units: PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	6.12	0.00	96	582779	20.00	OK
2	Chlorobenzene-d5	12.03	-0.01	82	231689	20.00	OK
3	1,4-Dichlorobenzene-d4	15.08	0.00	152	205579	20.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	5.12	0.00	0.00	113	130815	18.71	94	86-124	OK
1	Toluene-d8	9.30	0.00	0.00	98	546587	19.22	96	79-131	OK
2	4-Bromofluorobenzene	13.70	0.00	0.00	95	192282	17.81	89	82-122	OK

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Chloromethane				50	0		0.23	U	
1	Vinyl Chloride				62	0		0.16	U	
1	Bromomethane				96	0		0.28	U	
1	Chloroethane				49	0		0.16	U	
1	Trichlorofluoromethane				101	0		0.11	U	
1	Acrolein				56	0		3.3	U	
1	1,1-Dichloroethene				96	0		0.15	U	
1	Methylene Chloride	2.93		0.00	84	540	0.0700	0.12	U	
1	Acrylonitrile				53	0		0.61	U	
1	trans-1,2-Dichloroethene				96	0		0.15	U	
1	1,1-Dichloroethane				63	0		0.11	U	
1	Chloroform				83	0		0.11	U	
1	1,1,1-Trichloroethane (TCA)				97	0		0.14	U	
1	Carbon Tetrachloride				117	0		0.047	U	
1	Benzene				78	0		0.14	U	

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File: J:\MS13\DATA\052810-624\0528F111.D

Acqu Date: 05/28/2010 22:09

Quant Date: 05/28/2010 22:32

Instrument: MS13

Run Type: SMPL

Vial: 7

Lab ID: K1004934-007

Dilution: 1.0

Soln Conc. Units: PPB

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichloroethane (EDC)				62	0		0.12	U	
1	Trichloroethene (TCE)				95	0		0.13	U	
1	1,2-Dichloropropane				63	0		0.17	U	
1	Bromodichloromethane				83	0		0.12	U	
1	2-Chloroethyl Vinyl Ether				63	0		0.29	U	
1	cis-1,3-Dichloropropene				75	0		0.13	U	
1	Toluene	9.46		0.00	92	7682	0.3900	0.39	J	
2	trans-1,3-Dichloropropene				75	0		0.10	U	
2	1,1,2-Trichloroethane				83	0		0.16	U	
2	Tetrachloroethene (PCE)				164	0		0.14	U	
2	Dibromochloromethane				129	0		0.15	U	
2	Chlorobenzene				112	0		0.098	U	
2	Ethylbenzene				106	0		0.11	U	
2	m,p-Xylenes				106	0		0.26	U	
2	o-Xylene				106	0		0.13	U	
2	Bromoform				173	0		0.37	U	
3	1,1,2,2-Tetrachloroethane				83	0		0.11	U	
3	1,3-Dichlorobenzene	14.98		0.00	146	977	0.0700	0.16	U	
3	1,4-Dichlorobenzene				146	0d		0.15	U	
3	1,2-Dichlorobenzene				146	0		0.13	U	

Prep Amount: 5 ml
Prep Final Vol: 5 ml

Dilution: 1.0
Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

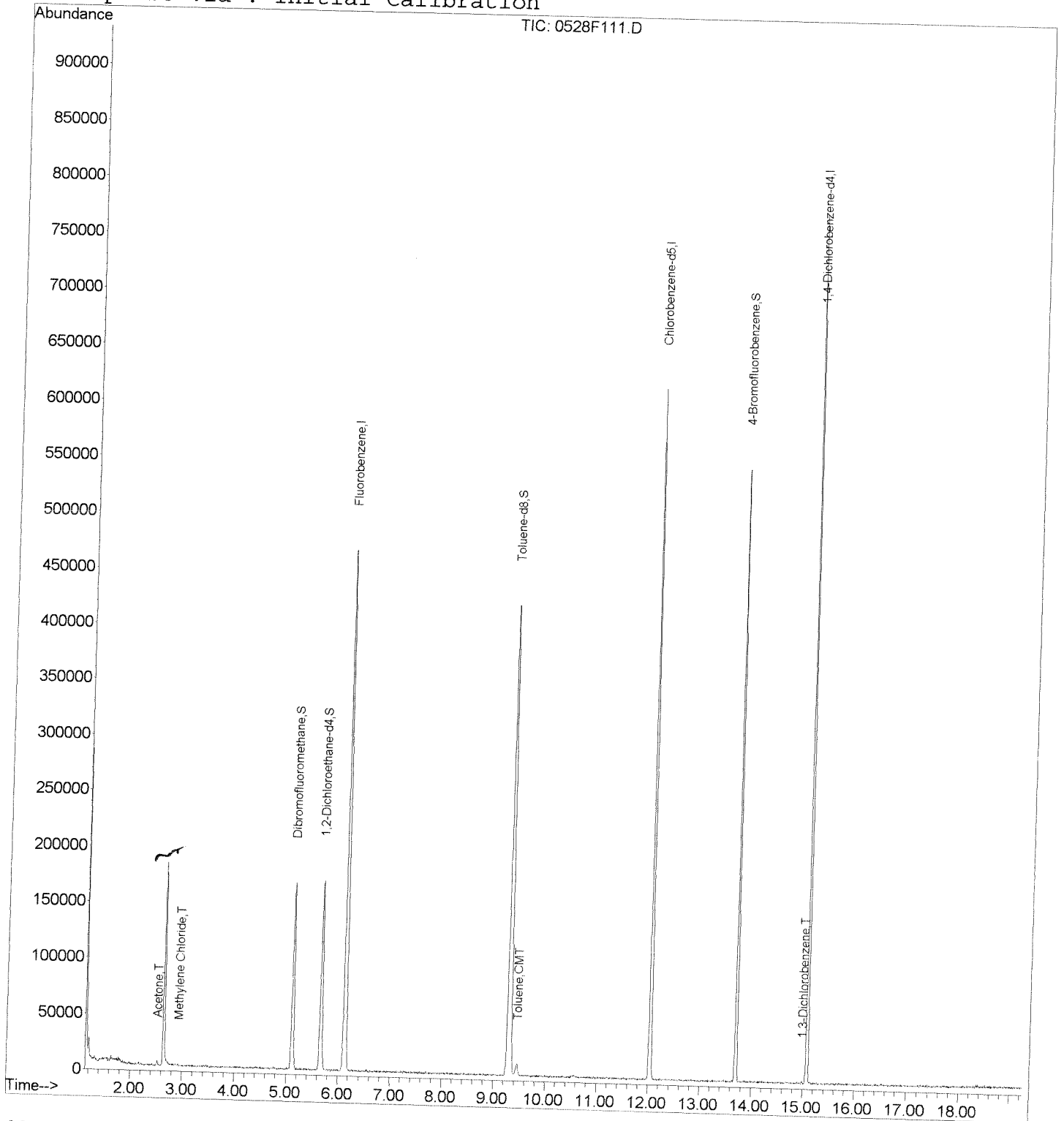
*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

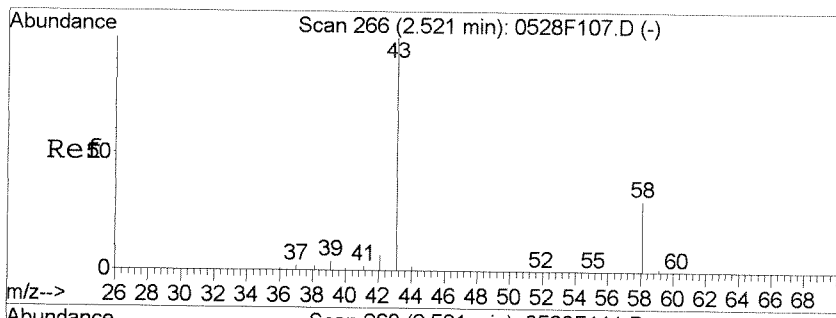
Data File : J:\MS13\DATA\052810-624\0528F111.D
Acq On : 28 May 2010 10:09 pm
Sample : K4934-007
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 28 22:32 2010

Vial: 7
Operator: CMK
Inst : MS13
Multiplr: 1.00

Quant Results File: 020810MS13_6

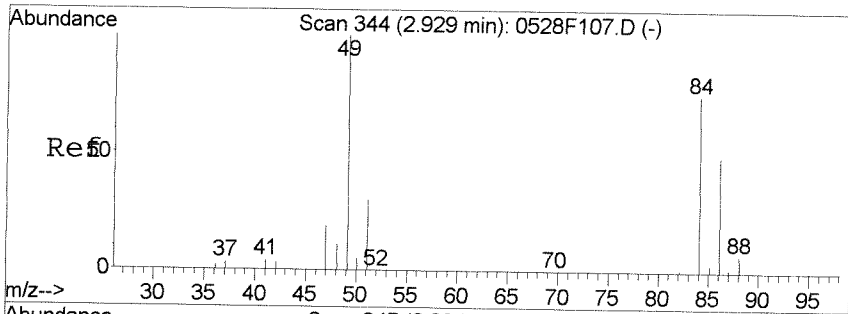
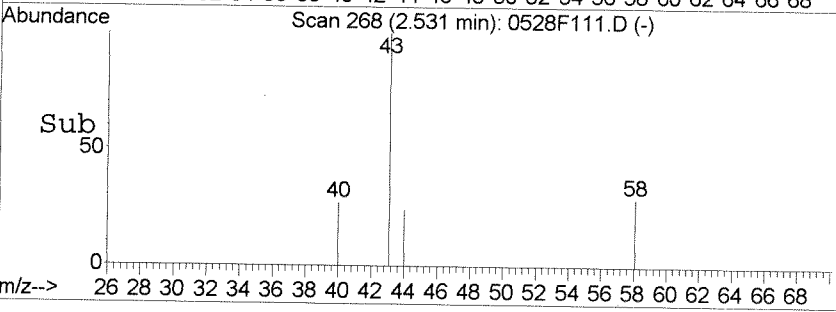
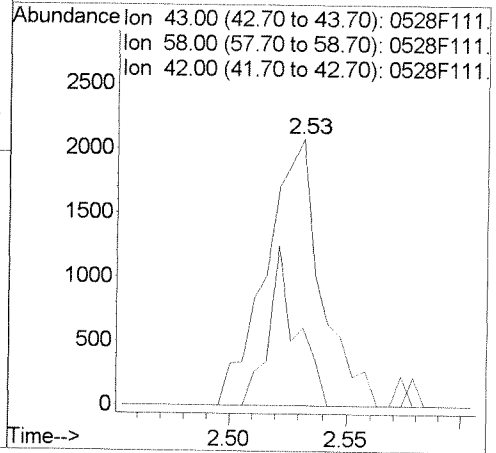
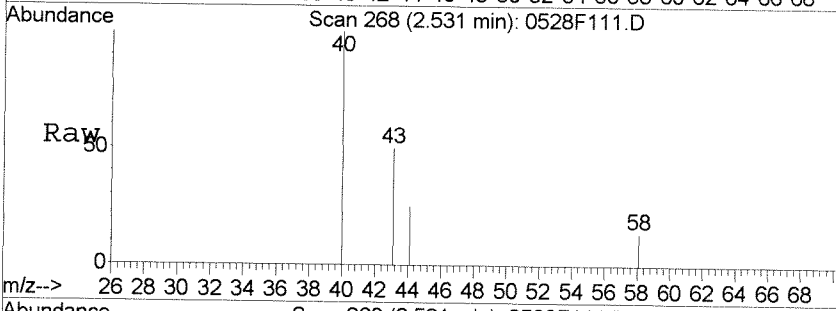
Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
Title : VOA MS13 EPA Method 8260B
Last Update : Fri May 28 21:07:16 2010
Response via : Initial Calibration





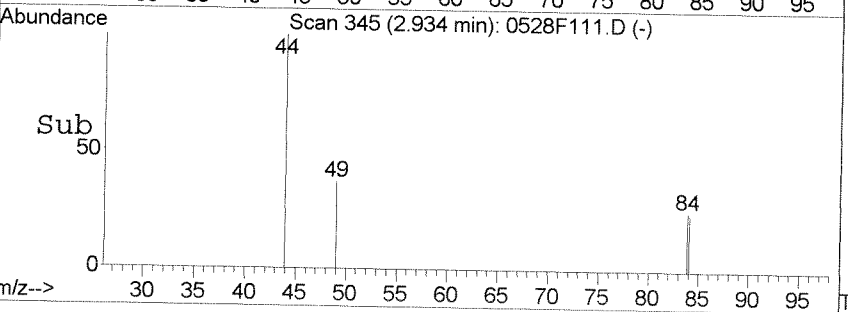
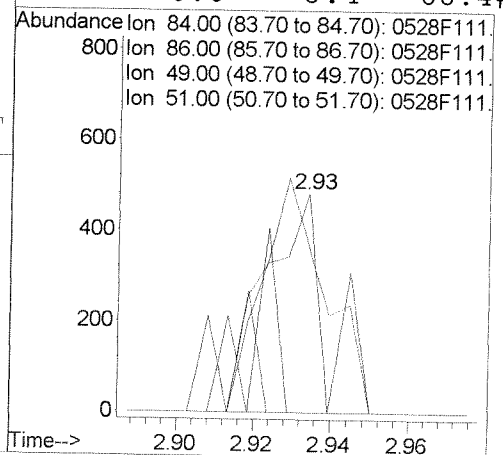
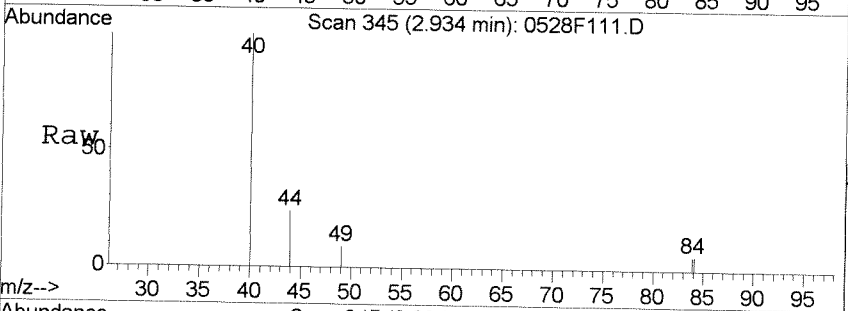
#11
 Acetone
 Concen: 2.08 PPB
 RT: 2.53 min Scan# 268
 Delta R.T. -0.01 min
 Lab File: 0528F111.D
 Acq: 28 May 2010 10:09 pm

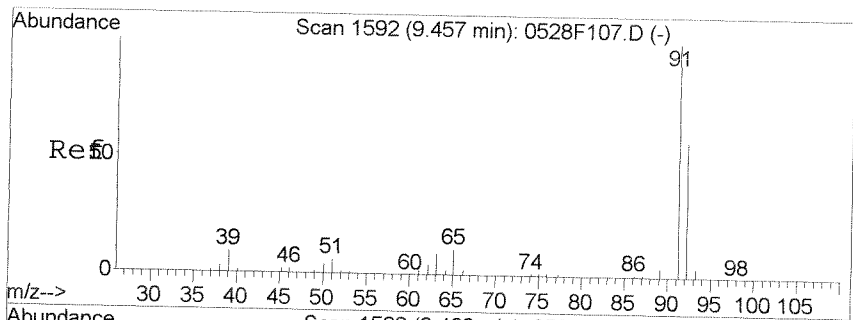
Tgt Ion	Resp	Lower	Upper
43	3406		
58	29.3	4.3	64.3
42	0.0	0.0	37.4



#13
 Methylene Chloride
 Concen: 0.07 PPB
 RT: 2.93 min Scan# 345
 Delta R.T. -0.02 min
 Lab File: 0528F111.D
 Acq: 28 May 2010 10:09 pm

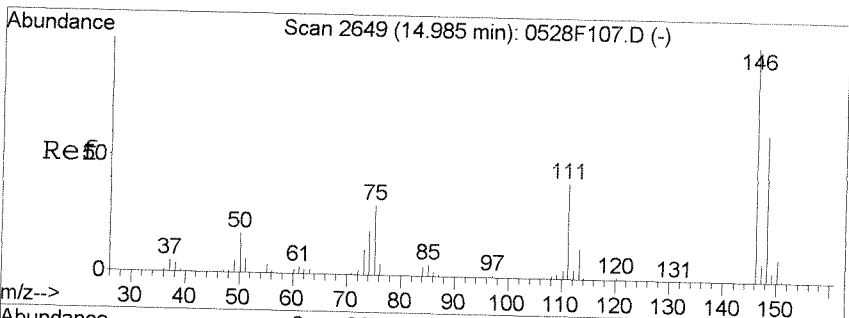
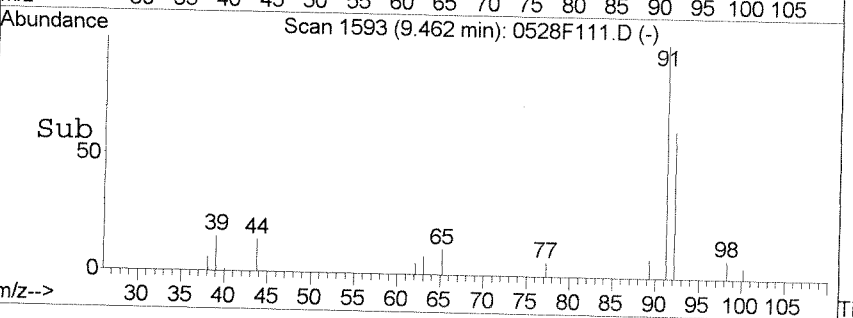
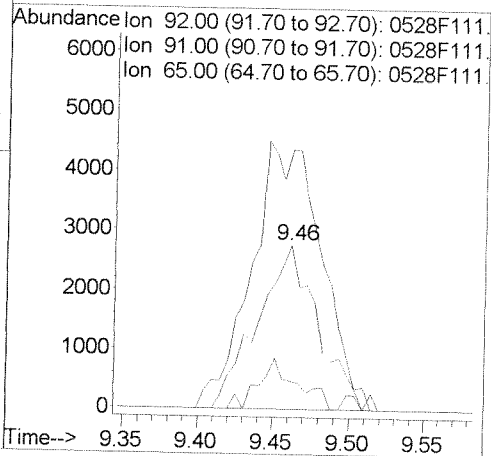
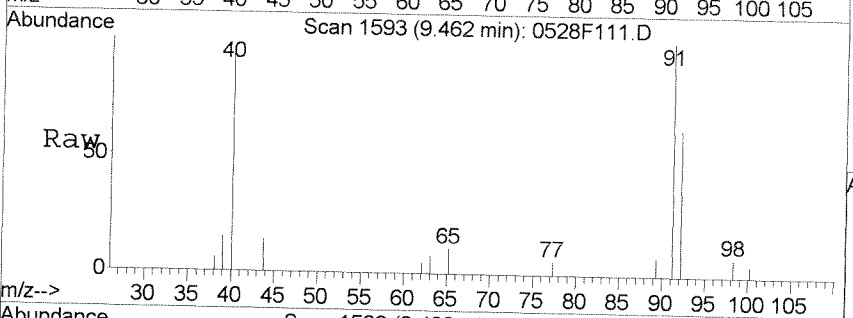
Tgt Ion	Resp	Lower	Upper
84	540		
86	0.0	34.5	94.5#
49	76.1	91.3	151.3#
51	0.0	6.4	66.4#





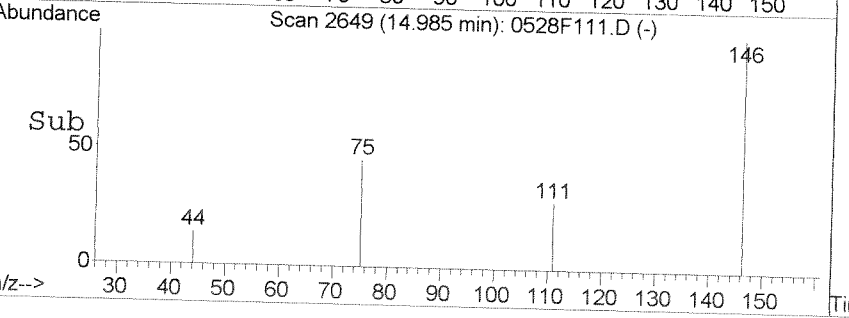
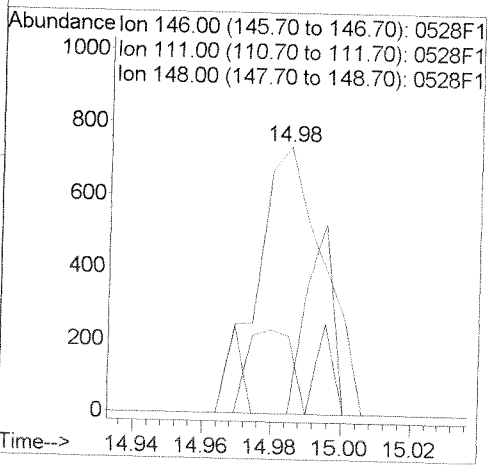
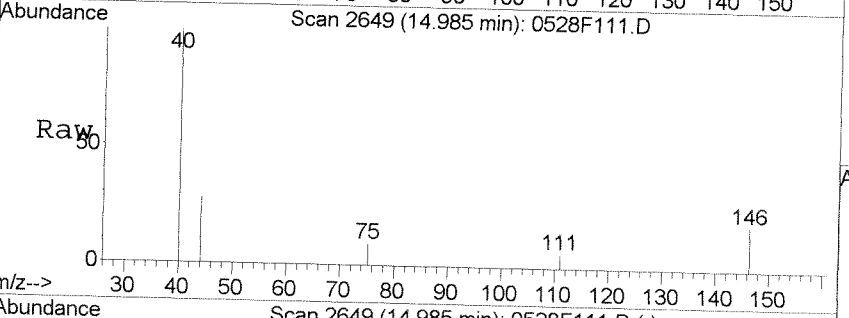
#34
 Toluene
 Concen: 0.39 PPB
 RT: 9.46 min Scan# 1593
 Delta R.T. 0.09 min
 Lab File: 0528F111.D
 Acq: 28 May 2010 10:09 pm

Tgt Ion:	Resp:	Lower	Upper
92	7682		
92	100		
91	157.9	139.7	199.7
65	17.4	0.0	47.9



#51
 1,3-Dichlorobenzene
 Concen: 0.07 PPB
 RT: 14.98 min Scan# 2649
 Delta R.T. -0.00 min
 Lab File: 0528F111.D
 Acq: 28 May 2010 10:09 pm

Tgt Ion:	Resp:	Lower	Upper
146	977		
146	100		
111	29.3	8.1	68.1
148	0.0	32.9	92.9#



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: FB-051410
 Lab Code: K1004934-008
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	7.8		5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	1.1	J	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: FB-051410
 Lab Code: K1004934-008
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	97	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	90	82-122	05/28/10	Acceptable
Dibromofluoromethane	93	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

Exception Report

Data File: J:\MS13\DATA\052810-624\0528F112.D
Lab ID: K1004934-008
Run Type: SMPL
Matrix: WATER

Date Acquired: 05/28/2010 22:36
Date Quantitated: 05/28/2010 22:57
Batch ID: KWG1005070
Analysis Method: 624
ListJoinID: LJ11571

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: Amc 5/28/10

Secondary Review: HTB 6-1-10

Quantitation Report

Bottle ID:	Tier:	Matrix:
Prod Code: 624 VOC_FP	Collect Date: 05/14/2010	WATER
		Receive Date: 05/15/2010

Analysis Lot: KWG1005070	Prep Lot: KWG1005071	Report Group: K1004934
Analysis Method: 624	Prep Method: METHOD	
Prep Ref: 913228	Prep Date: 05/28/2010	

Quant Method: J:\MS13\METHODS\020810MS13_6	Calibration ID: CAL9204
Title: Volatile Organic Compounds	Report List ID: LJ11571
Tune Ref: J:\MS13\DATA\052810-624\0528F106.D	Method ID: MJ158
MB Ref: J:\MS13\DATA\052810-624\0528F108.D	Quant based on Report List

Data File: J:\MS13\DATA\052810-624\0528F112.D	Instrument: MS13
Acqu Date: 05/28/2010 22:36	Quant Date: 05/28/2010 22:57
Run Type: SMPL	Vial: 8
Lab ID: K1004934-008	Dilution: 1.0
	Soln Conc. Units: PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	6.12	0.00	96	568685	20.00	OK
2	Chlorobenzene-d5	12.03	-0.01	82	228018	20.00	OK
3	1,4-Dichlorobenzene-d4	15.08	0.00	152	202971	20.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	5.12	0.00	0.00	113	126344	18.52	93	86-124	OK
1	Toluene-d8	9.29	-0.01	0.00	98	539265	19.44	97	79-131	OK
2	4-Bromofluorobenzene	13.70	0.00	0.00	95	190488	17.93	90	82-122	OK

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Chloromethane				50	0		0.23	U	
1	Vinyl Chloride				62	0		0.16	U	
1	Bromomethane				96	0		0.28	U	
1	Chloroethane				49	0		0.16	U	
1	Trichlorofluoromethane				101	0		0.11	U	
1	Acrolein				56	0		3.3	U	
1	1,1-Dichloroethene				96	0		0.15	U	
1	Methylene Chloride	2.93		0.00	84	61251	7.82	7.8		
1	Acrylonitrile				53	0		0.61	U	
1	trans-1,2-Dichloroethene				96	0		0.15	U	
1	1,1-Dichloroethane				63	0		0.11	U	
1	Chloroform				83	0		0.11	U	
1	1,1,1-Trichloroethane (TCA)				97	0		0.14	U	
1	Carbon Tetrachloride				117	0		0.047	U	
1	Benzene	5.61	0.01	0.00	78	990	0.0300	0.14	U	

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File:	J:\MS13\DATA\052810-624\0528F112.D	Instrument:	MS13
Acqu Date:	05/28/2010 22:36	Quant Date:	05/28/2010 22:57
Run Type:	SMPL	Vial:	8
Lab ID:	K1004934-008	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichloroethane (EDC)				62	0		0.12	U	
1	Trichloroethene (TCE)				95	0		0.13	U	
1	1,2-Dichloropropane				63	0		0.17	U	
1	Bromodichloromethane				83	0		0.12	U	
1	2-Chloroethyl Vinyl Ether				63	0		0.29	U	
1	cis-1,3-Dichloropropene				75	0		0.13	U	
1	Toluene	9.46		0.00	92	20832	1.08	1.1	J	
2	trans-1,3-Dichloropropene				75	0		0.10	U	
2	1,1,2-Trichloroethane				83	0		0.16	U	
2	Tetrachloroethene (PCE)				164	0		0.14	U	
2	Dibromochloromethane				129	0		0.15	U	
2	Chlorobenzene				112	0		0.098	U	
2	Ethylbenzene				106	0		0.11	U	
2	m,p-Xylenes	12.43		0.00	106	1310	0.0900	0.26	U	
2	o-Xylene	12.97	-0.01	0.00	106	589	0.0400	0.13	U	
2	Bromoform				173	0		0.37	U	
3	1,1,1,2-Tetrachloroethane				83	0		0.11	U	
3	1,3-Dichlorobenzene	14.98		0.00	146	632	0.0400	0.16	U	
3	1,4-Dichlorobenzene				146	0d		0.15	U	
3	1,2-Dichlorobenzene				146	0		0.13	U	

Prep Amount: 5 ml **Dilution:** 1.0
Prep Final Vol: 5 ml **Unit Factor:** 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 c: Compound manually deleted
 NR: Analyte not reported from this analysis

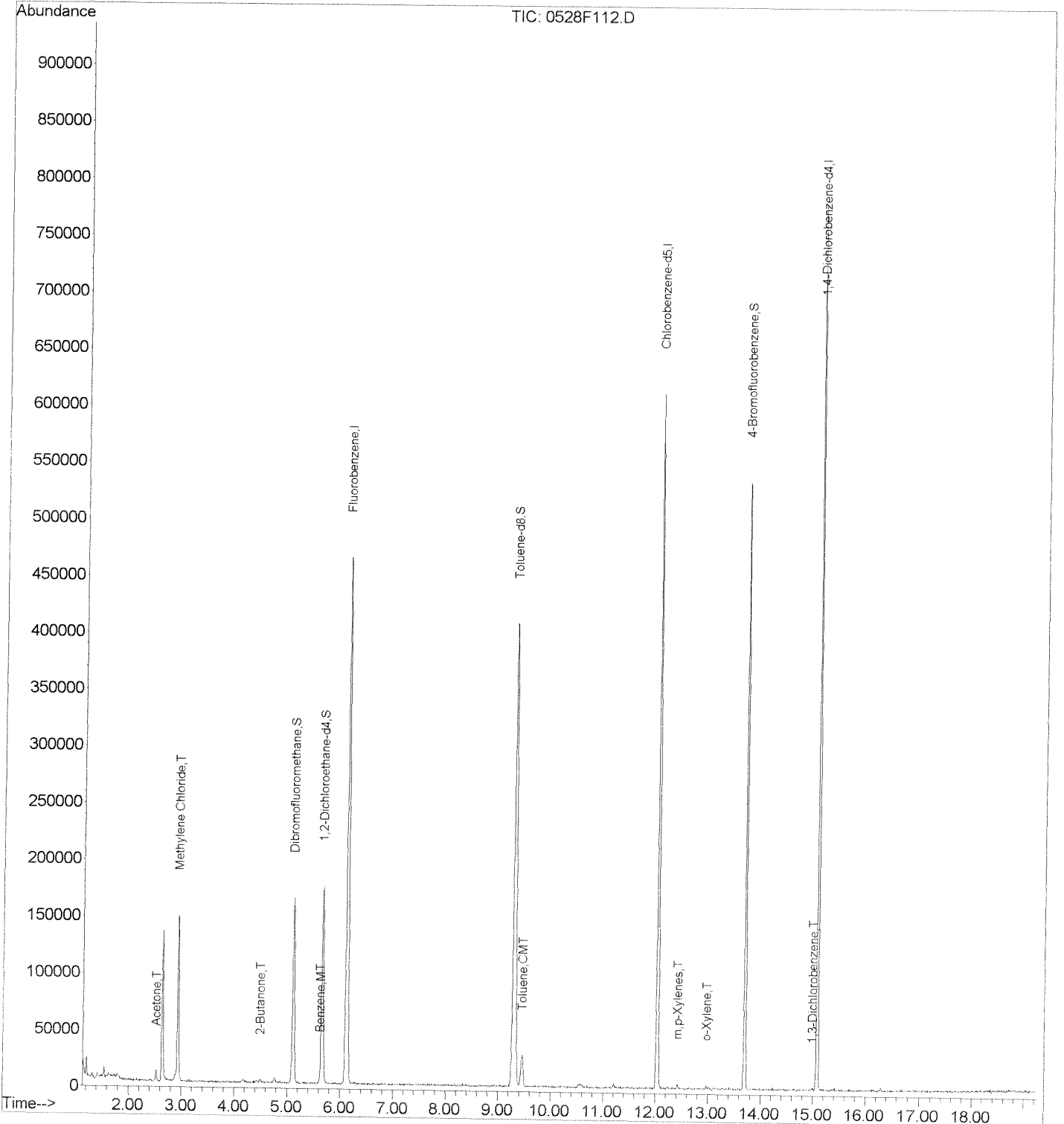
*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

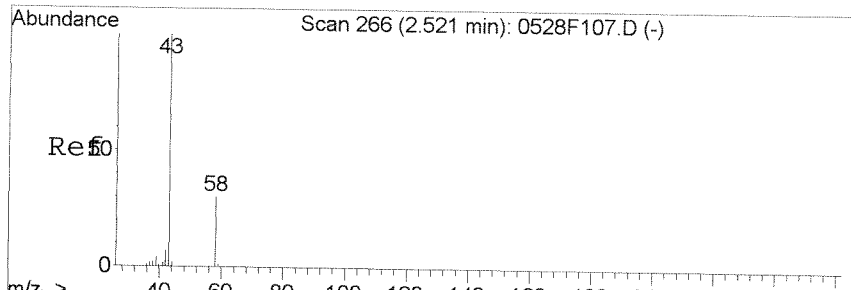
Data File : J:\MS13\DATA\052810-624\0528F112.D
Acq On : 28 May 2010 10:36 pm
Sample : K4934-008
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 28 22:57 2010

Vial: 8
Operator: CMK
Inst : MS13
Multiplr: 1.00

Quant Results File: 020810MS13_6

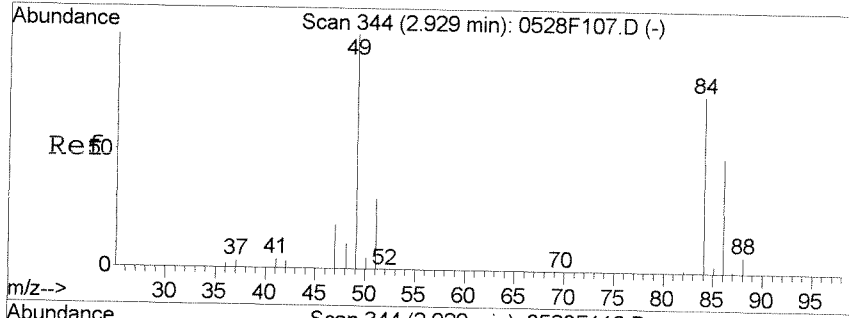
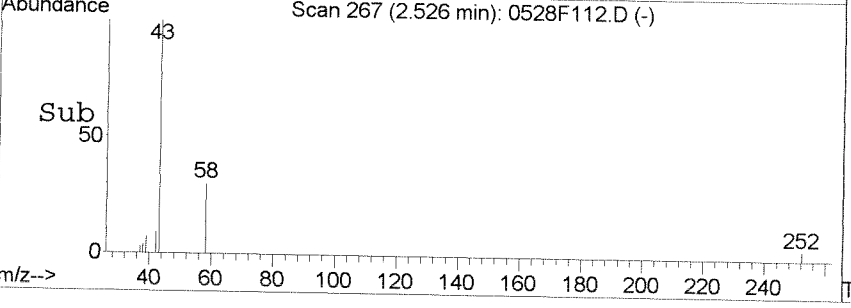
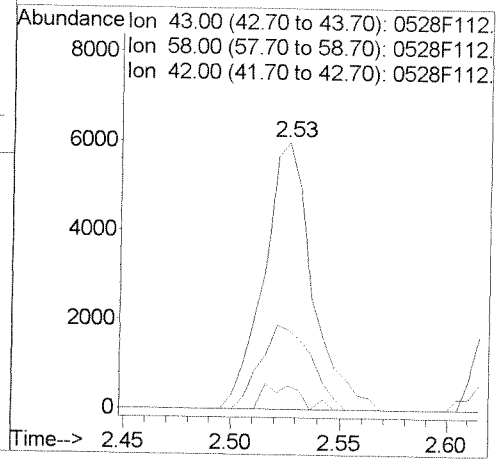
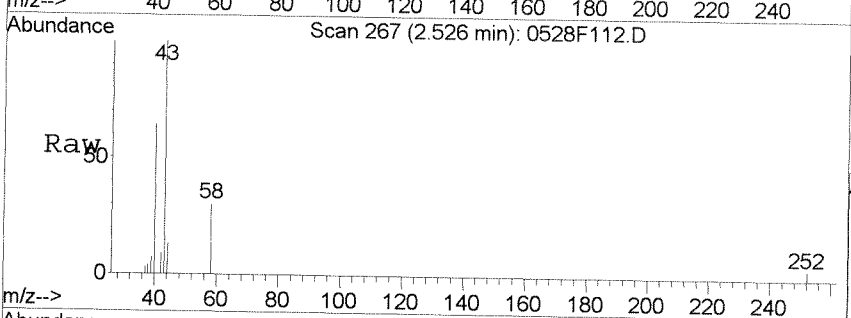
Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
Title : VOA MS13 EPA Method 8260B
Last Update : Fri May 28 21:07:16 2010
Response via : Initial Calibration





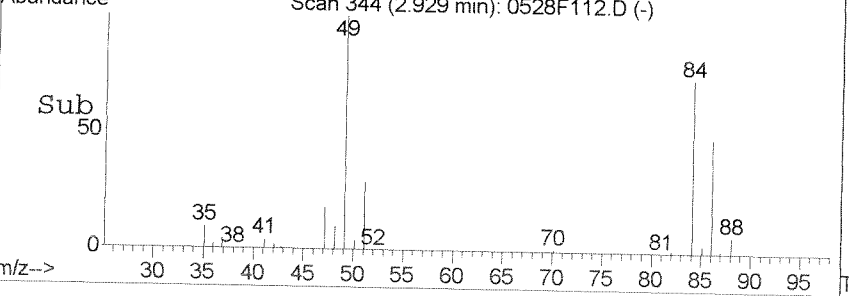
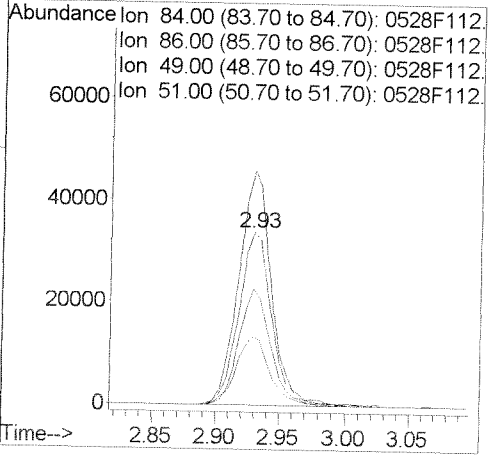
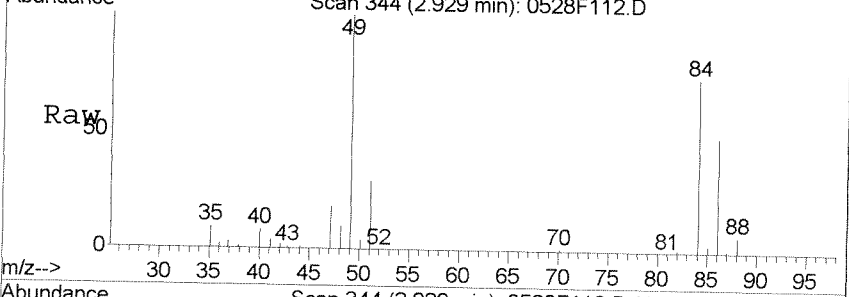
#11
 Acetone
 Concen: 5.80 PPB
 RT: 2.53 min Scan# 267
 Delta R.T. -0.02 min
 Lab File: 0528F112.D
 Acq: 28 May 2010 10:36 pm

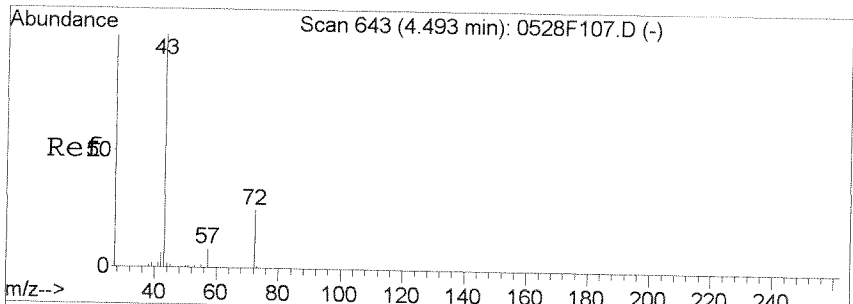
Tgt Ion	Resp	Lower	Upper
43	100		
58	29.9	4.3	64.3
42	8.9	0.0	37.4



#13
 Methylene Chloride
 Concen: 7.82 PPB
 RT: 2.93 min Scan# 344
 Delta R.T. -0.02 min
 Lab File: 0528F112.D
 Acq: 28 May 2010 10:36 pm

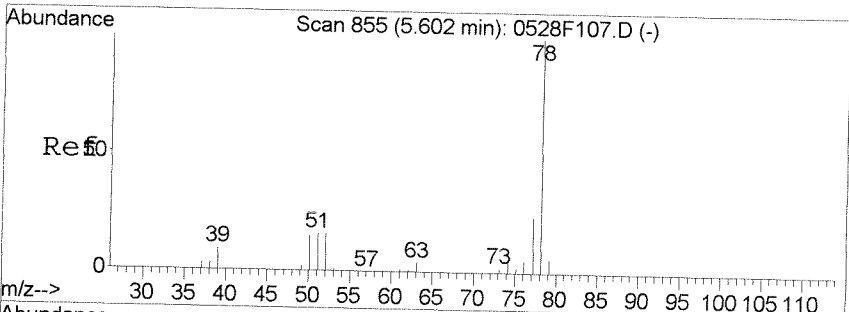
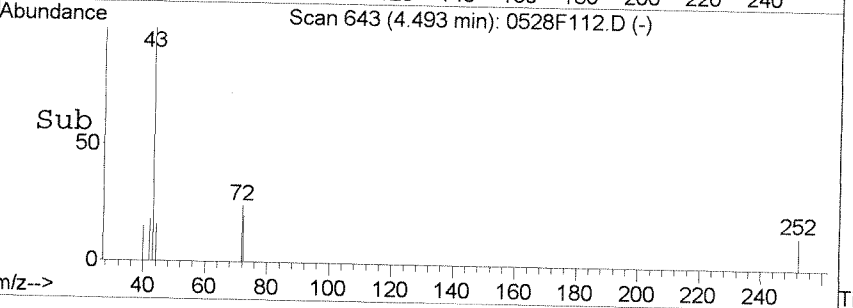
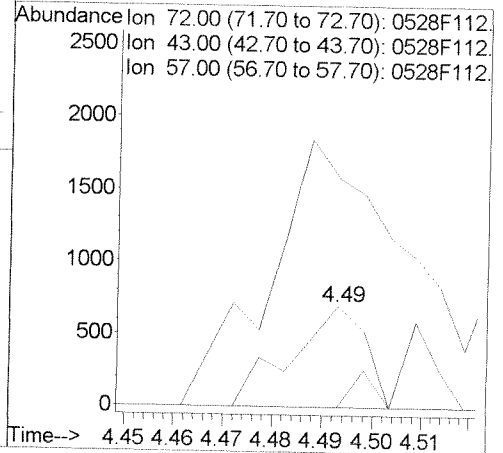
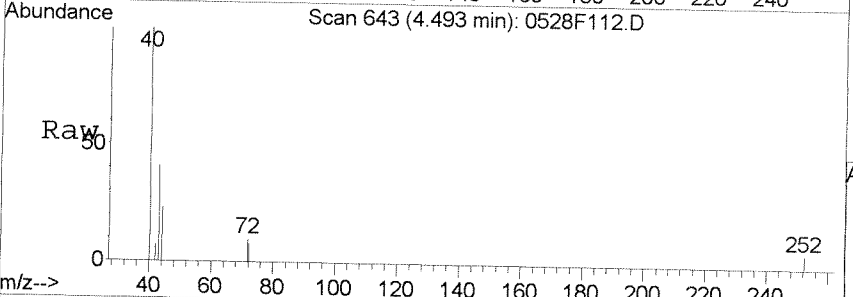
Tgt Ion	Resp	Lower	Upper
84	100		
86	67.3	34.5	94.5
49	136.0	91.3	151.3
51	39.6	6.4	66.4





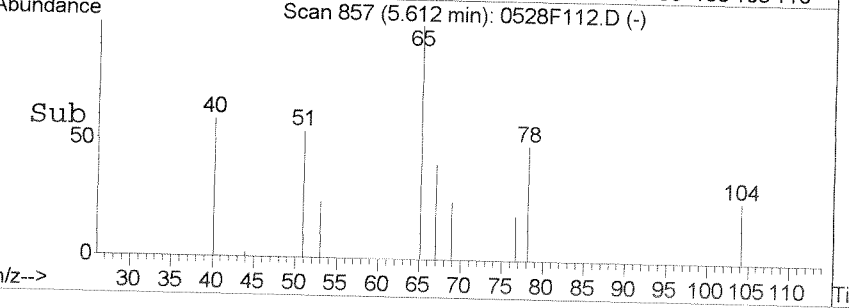
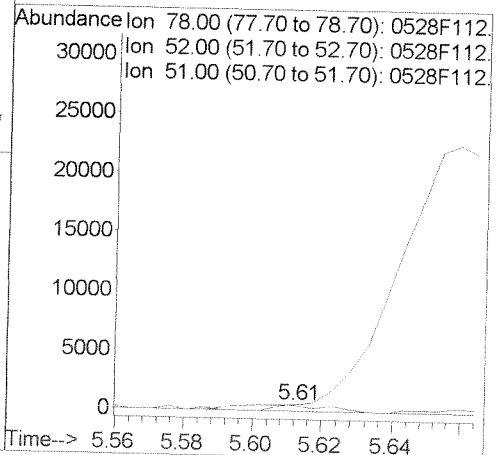
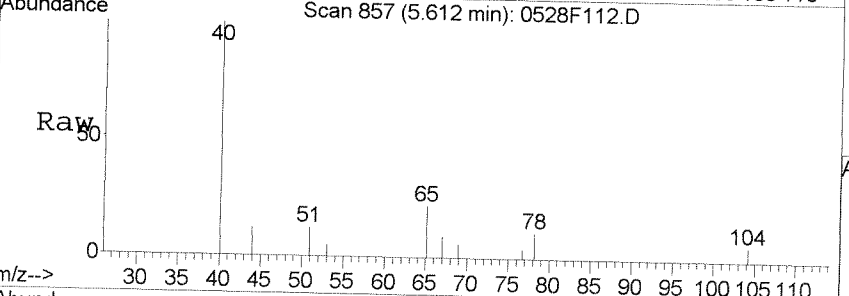
#19
 2-Butanone
 Concen: 1.06 PPB
 RT: 4.49 min Scan# 643
 Delta R.T. -0.01 min
 Lab File: 0528F112.D
 Acq: 28 May 2010 10:36 pm

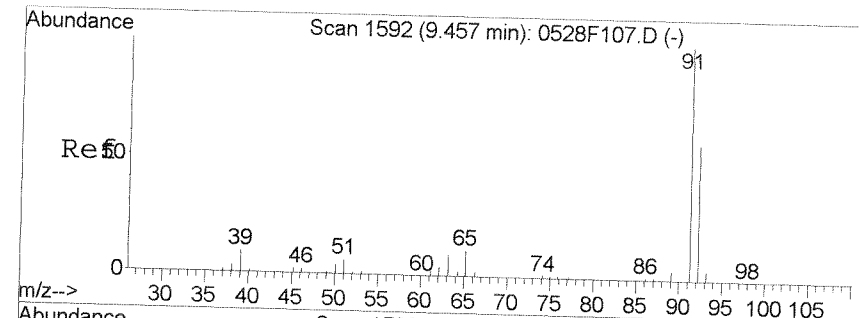
Tgt Ion	Resp	Lower	Upper
72	100		
43	174.1	326.0	386.0#
57	0.0	0.0	58.5



#25
 Benzene
 Concen: 0.03 PPB
 RT: 5.61 min Scan# 857
 Delta R.T. 0.01 min
 Lab File: 0528F112.D
 Acq: 28 May 2010 10:36 pm

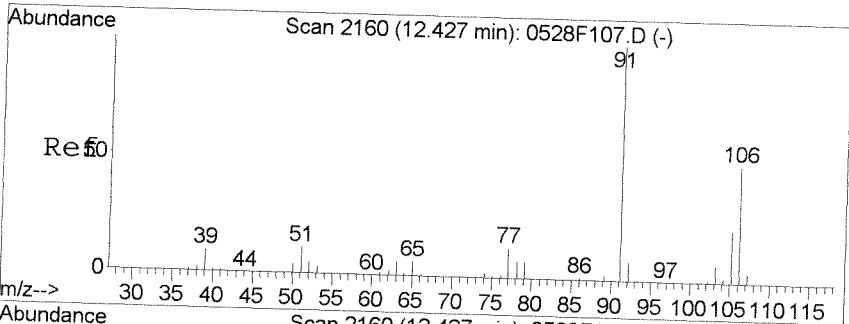
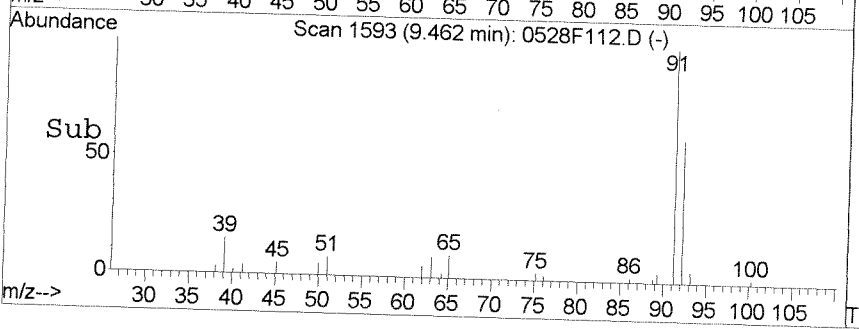
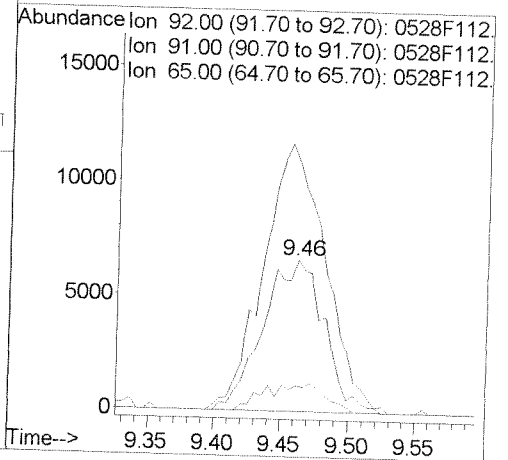
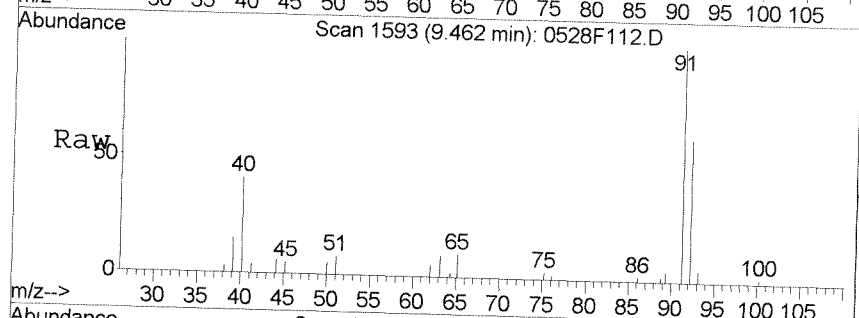
Tgt Ion	Resp	Lower	Upper
78	100		
52	0.0	0.0	44.5
51	109.9	0.0	44.5#





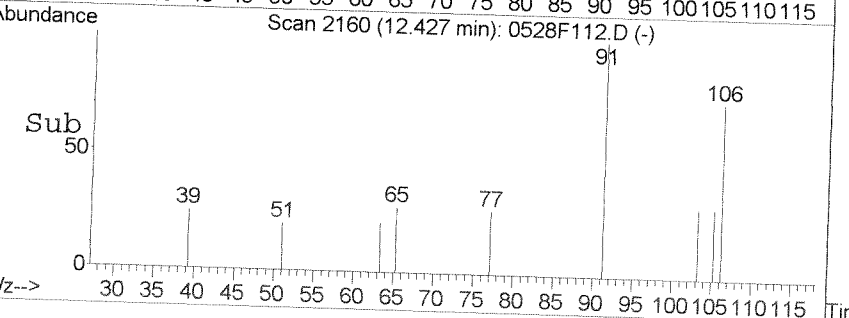
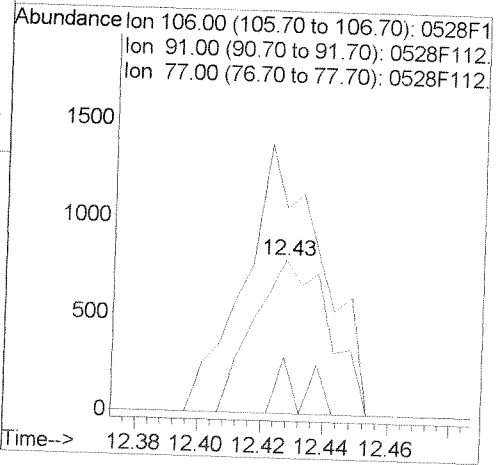
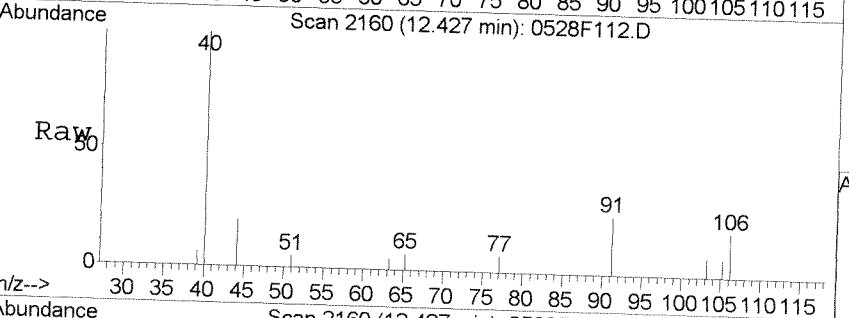
#34
 Toluene
 Concen: 1.08 PPB
 RT: 9.46 min Scan# 1593
 Delta R.T. 0.09 min
 Lab File: 0528F112.D
 Acq: 28 May 2010 10:36 pm

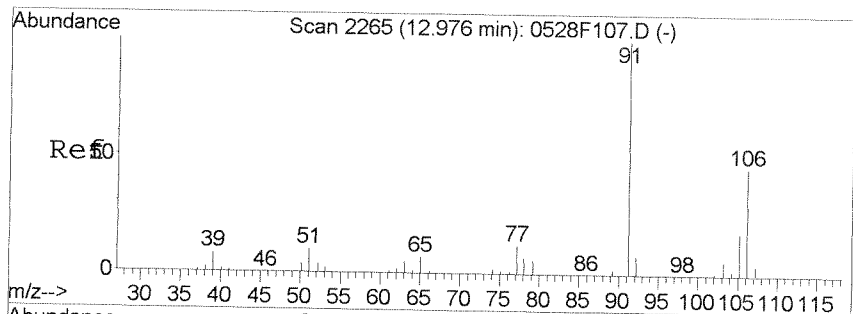
Tgt Ion	Resp	Lower	Upper
92	20832		
91	100		
91	165.2	139.7	199.7
65	17.2	0.0	47.9



#43
 m,p-Xylenes
 Concen: 0.09 PPB
 RT: 12.43 min Scan# 2160
 Delta R.T. 0.02 min
 Lab File: 0528F112.D
 Acq: 28 May 2010 10:36 pm

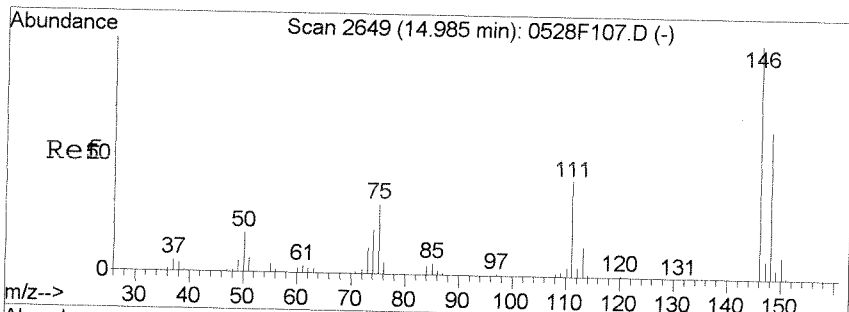
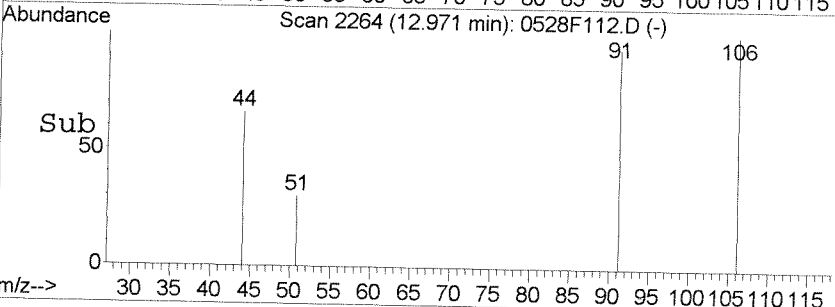
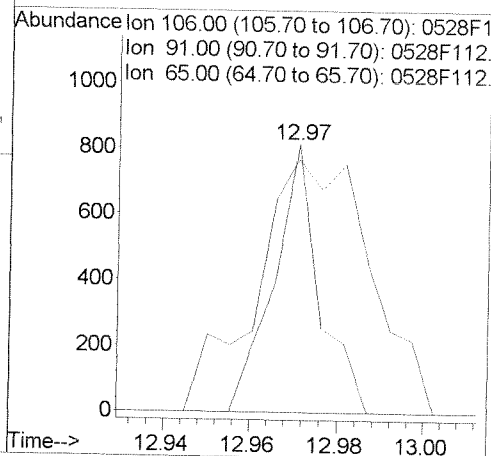
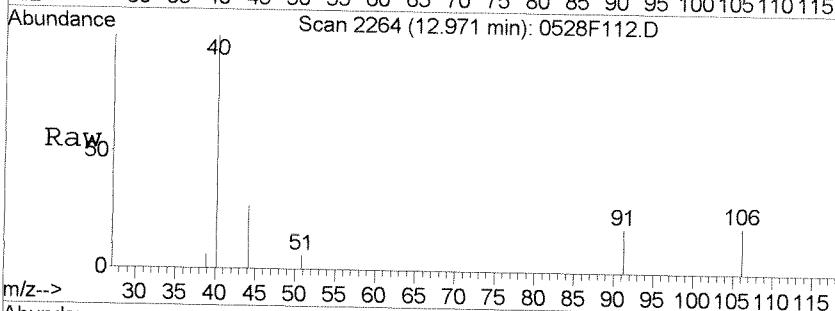
Tgt Ion	Resp	Lower	Upper
106	1310		
106	100		
91	134.0	165.7	225.7#
77	36.7	0.0	53.0





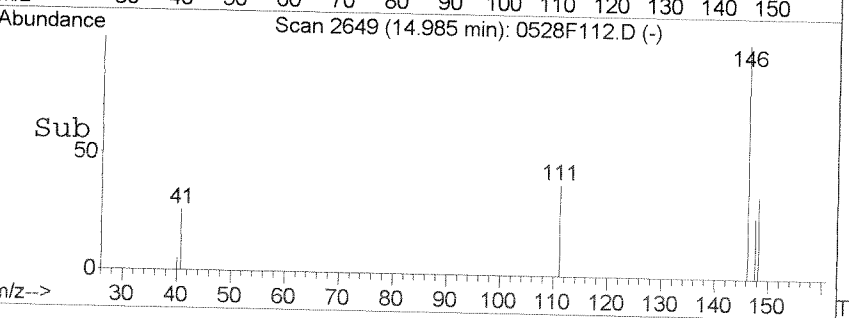
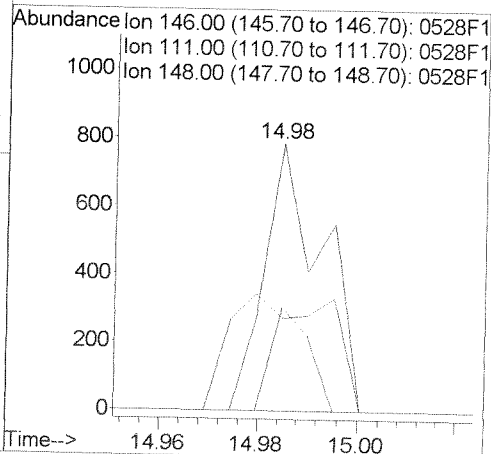
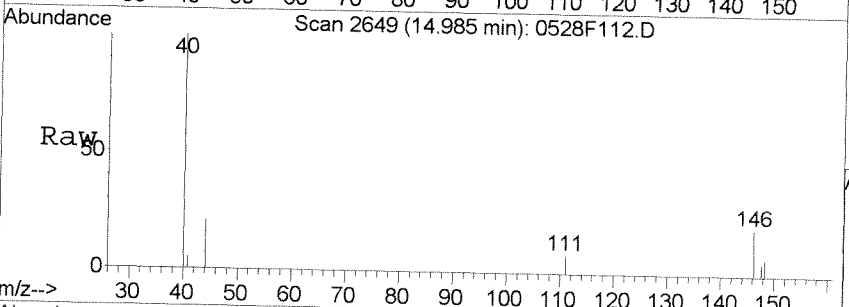
#44
 o-Xylene
 Concen: 0.04 PPB
 RT: 12.97 min Scan# 2264
 Delta R.T. 0.03 min
 Lab File: 0528F112.D
 Acq: 28 May 2010 10:36 pm

Tgt Ion	Resp	Lower	Upper
106	589		
91	65.7	179.6	239.6#
65	0.0	0.0	42.8



#51
 1,3-Dichlorobenzene
 Concen: 0.04 PPB
 RT: 14.98 min Scan# 2649
 Delta R.T. -0.00 min
 Lab File: 0528F112.D
 Acq: 28 May 2010 10:36 pm

Tgt Ion	Resp	Lower	Upper
146	632		
111	38.7	8.1	68.1
148	34.7	32.9	92.9



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: Trip Blank
 Lab Code: K1004934-009
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	0.49	J	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: Trip Blank
 Lab Code: K1004934-009
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	97	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	91	82-122	05/28/10	Acceptable
Dibromofluoromethane	92	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

Exception Report

Data File: J:\MS13\DATA\052810-624\0528F113.D
Lab ID: K1004934-009
RunType: SMPL
Matrix: WATER

Date Acquired: 05/28/2010 23:04
Date Quantitated: 05/28/2010 23:25
Batch ID: KWG1005070
Analysis Method: 624
ListJoinID: LJ11571

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: Conn 5/28/10

Secondary Review: HB 6-170

Quantitation Report

Bottle ID:		Tier:	V	Matrix:	WATER
Prod Code:	624 VOC_FP	Collect Date:	05/14/2010	Receive Date:	05/15/2010

Analysis Lot:	KWG1005070	Prep Lot:	KWG1005071	Report Group:	K1004934
Analysis Method:	624	Prep Method:	METHOD		
Prep Ref:	913229	Prep Date:	05/28/2010		

Quant Method:	J:\MS13\METHODS\020810MS13_6	Calibration ID:	CAL9204
Title:	Volatile Organic Compounds	Report List ID:	LJ11571
Tune Ref:	J:\MS13\DATA\052810-624\0528F106.D	Method ID:	MJ158
MB Ref:	J:\MS13\DATA\052810-624\0528F108.D	Quant based on Report List	

Data File:	J:\MS13\DATA\052810-624\0528F113.D	Instrument:	MS13
Acqu Date:	05/28/2010 23:04	Quant Date:	05/28/2010 23:25
Run Type:	SMPL	Vial:	9
Lab ID:	K1004934-009	Dilution:	1.0
		Soln Conc. Units:	PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	6.12	0.00	96	574723	20.00	OK
2	Chlorobenzene-d5	12.03	-0.01	82	227907	20.00	OK
3	1,4-Dichlorobenzene-d4	15.08	0.00	152	207484	20.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	5.11	-0.01	0.00	113	126245	18.31	92	86-124	OK
1	Toluene-d8	9.30	0.00	0.00	98	542647	19.35	97	79-131	OK
2	4-Bromofluorobenzene	13.70	0.00	0.00	95	193268	18.20	91	82-122	OK

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
								Final Conc. Units: ug/L		
1	Chloromethane				50	0		0.23	U	
1	Vinyl Chloride				62	0		0.16	U	
1	Bromomethane				96	0		0.28	U	
1	Chloroethane				49	0		0.16	U	
1	Trichlorofluoromethane				101	0		0.11	U	
1	Acrolein				56	0		3.3	U	
1	1,1-Dichloroethene				96	0		0.15	U	
1	Methylene Chloride				84	0		0.12	U	
1	Acrylonitrile				53	0		0.61	U	
1	trans-1,2-Dichloroethene				96	0		0.15	U	
1	1,1-Dichloroethane				63	0		0.11	U	
1	Chloroform				83	0		0.11	U	
1	1,1,1-Trichloroethane (TCA)				97	0		0.14	U	
1	Carbon Tetrachloride				117	0		0.047	U	
1	Benzene				78	0		0.14	U	

U: Undetected at or above MDL

J: Analyte detected above MDL, but below MRL

B: Hit above MRL also found in Method Blank

E: Analyte concentration above high point of ICAL

N: Presumptive evidence of compound

D: Result from dilution

m: Manual integration performed

d: Compound manually deleted

NR: Analyte not reported from this analysis

*: Result fails acceptance criteria

#: Acceptance criteria not applicable

?: Insufficient information to determine acceptance

e: Result >= MRL, but MRL less than low point of ICAL

c: check for co-elution

Data File: J:\MS13\DATA\052810-624\0528F113.D

Acqu Date: 05/28/2010 23:04

Quant Date: 05/28/2010 23:25

Instrument: MS13

Run Type: SMPL

Vial: 9

Lab ID: K1004934-009

Dilution: 1.0

Soln Conc. Units: PPB

Target Compounds

Final Conc. Units: ug/L

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,2-Dichloroethane (EDC)				62	0		0.12	U	
1	Trichloroethene (TCE)				95	0		0.13	U	
1	1,2-Dichloropropane				63	0		0.17	U	
1	Bromodichloromethane				83	0		0.12	U	
1	2-Chloroethyl Vinyl Ether				63	0		0.29	U	
1	cis-1,3-Dichloropropene				75	0		0.13	U	
1	Toluene	9.46		0.00	92	9588	0.4900	0.49	J	
2	trans-1,3-Dichloropropene				75	0		0.10	U	
2	1,1,2-Trichloroethane				83	0		0.16	U	
2	Tetrachloroethene (PCE)				164	0		0.14	U	
2	Dibromochloromethane				129	0		0.15	U	
2	Chlorobenzene				112	0		0.098	U	
2	Ethylbenzene				106	0		0.11	U	
2	m,p-Xylenes				106	0		0.26	U	
2	o-Xylene				106	0		0.13	U	
2	Bromoform				173	0		0.37	U	
3	1,1,2,2-Tetrachloroethane				83	0		0.11	U	
3	1,3-Dichlorobenzene				146	0		0.16	U	
3	1,4-Dichlorobenzene				146	0		0.15	U	
3	1,2-Dichlorobenzene				146	0		0.13	U	

Prep Amount: 5 ml

Dilution: 1.0

Prep Final Vol: 5 ml

Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

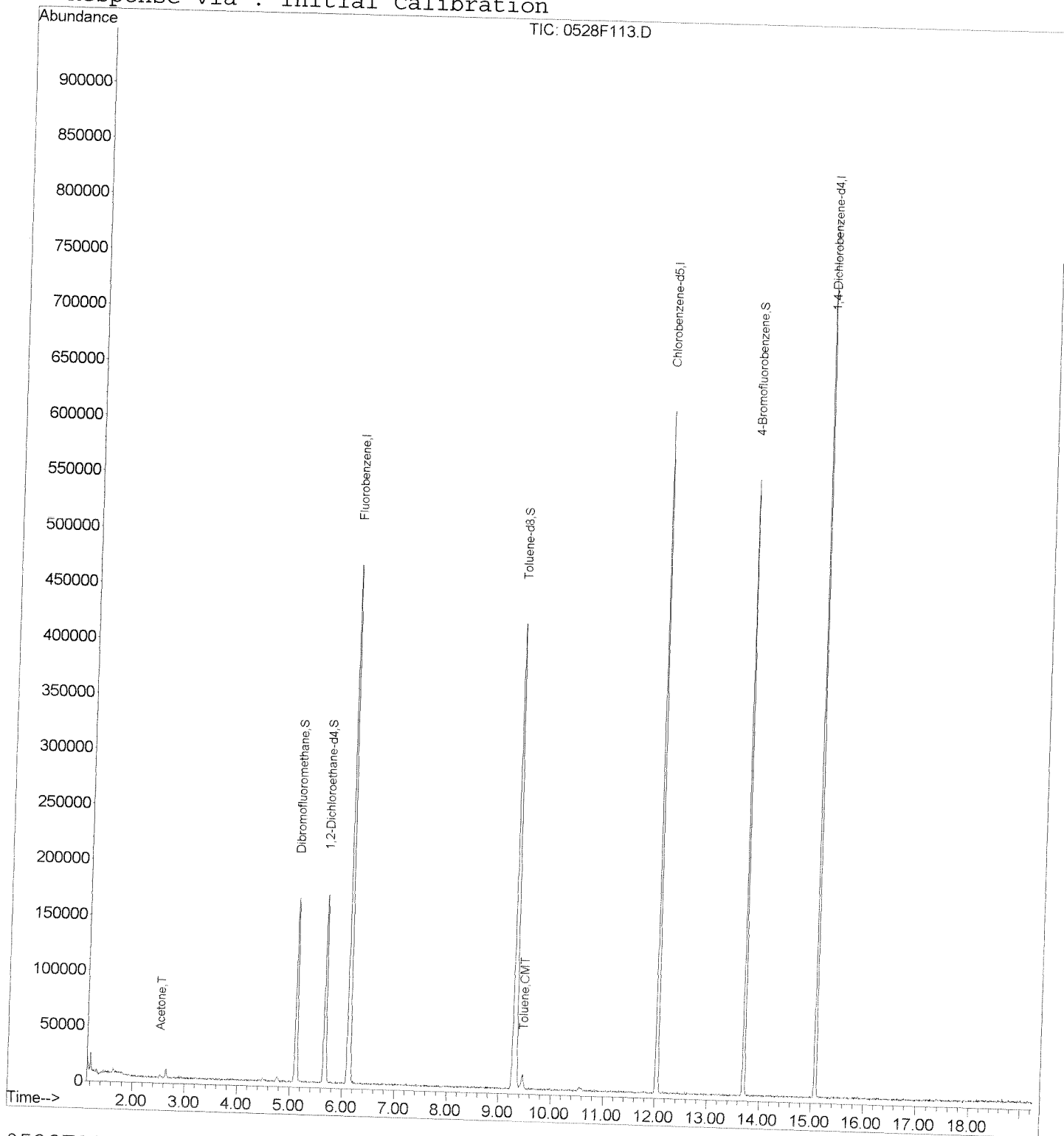
*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

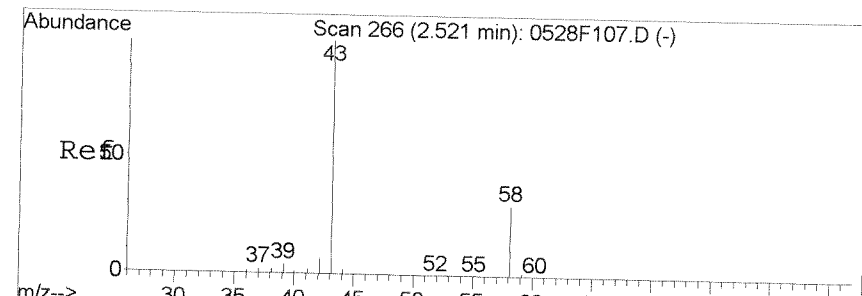
Data File : J:\MS13\DATA\052810-624\0528F113.D
Acq On : 28 May 2010 11:04 pm
Sample : K4934-009 TB# 42439
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 28 23:25 2010

Vial: 9
Operator: CMK
Inst : MS13
Multiplr: 1.00

Quant Results File: 020810MS13_6

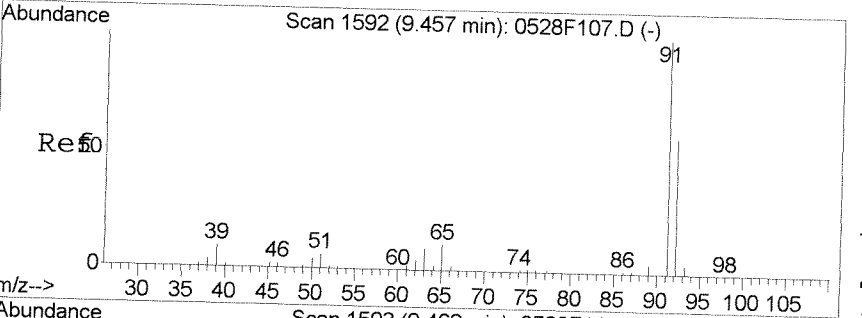
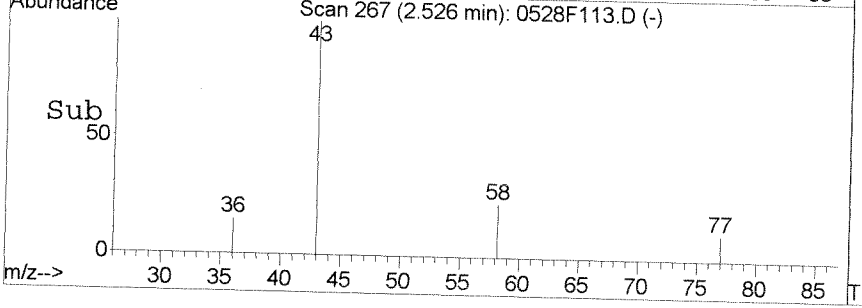
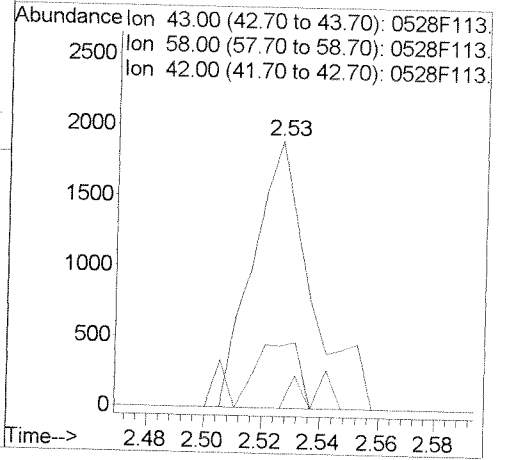
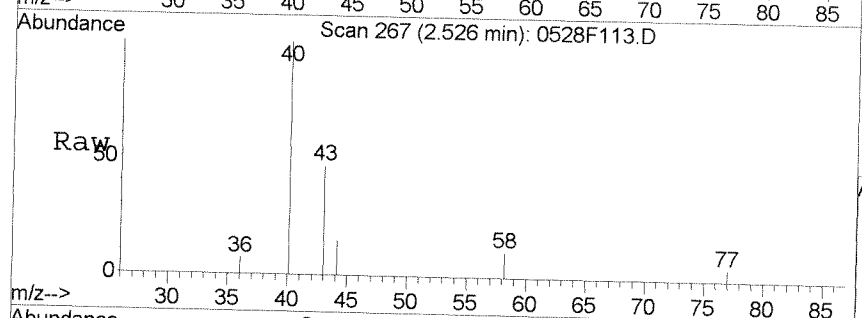
Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
Title : VOA MS13 EPA Method 8260B
Last Update : Fri May 28 21:07:16 2010
Response via : Initial Calibration





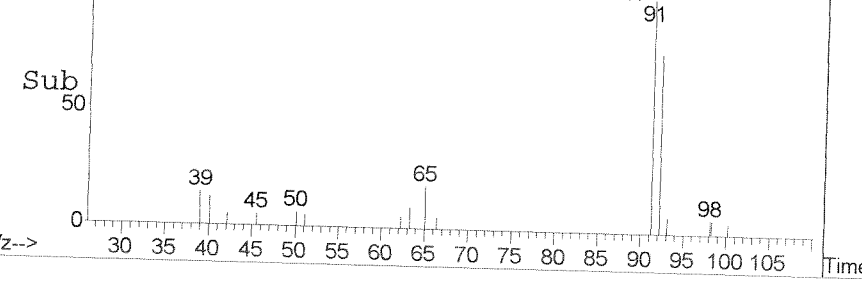
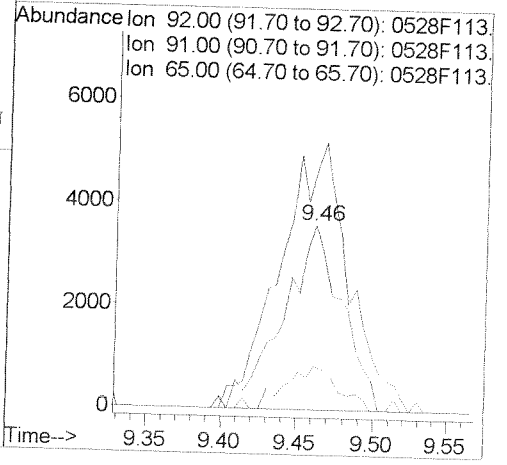
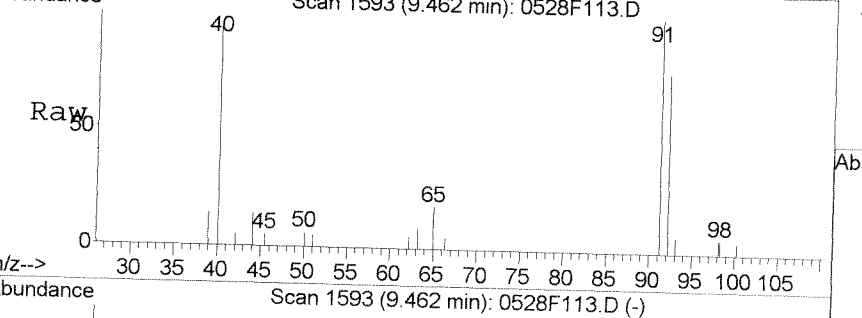
#11
 Acetone
 Concen: 1.63 PPB
 RT: 2.53 min Scan# 267
 Delta R.T. -0.02 min
 Lab File: 0528F113.D
 Acq: 28 May 2010 11:04 pm

Tgt Ion	Resp	Lower	Upper
43	2635		
43	100		
58	23.3	4.3	64.3
42	0.0	0.0	37.4



#34
 Toluene
 Concen: 0.49 PPB
 RT: 9.46 min Scan# 1593
 Delta R.T. 0.09 min
 Lab File: 0528F113.D
 Acq: 28 May 2010 11:04 pm

Tgt Ion	Resp	Lower	Upper
92	9588		
92	100		
91	129.5	139.7	199.7#
65	23.6	0.0	47.9



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: KWG1005071-4
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	ND	U	2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	0.23	J	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	ND	U	5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	ND	U	5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	ND	U	5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	ND	U	5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	ND	U	5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	ND	U	5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	ND	U	5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	ND	U	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	ND	U	5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	0.11	J	5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	ND	U	5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	ND	U	5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	0.14	J	5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	ND	U	50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	ND	U	10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	ND	U	2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601
Sample Matrix: Water

Service Request: K1004934
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1005071-4
Extraction Method: METHOD
Analysis Method: 624

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	97	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	93	82-122	05/28/10	Acceptable
Dibromofluoromethane	92	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

Exception Report

Data File: J:\MS13\DATA\052810-624\0528F108.D
Lab ID: KWG1005071-4
RunType: MB
Matrix: WATER

Date Acquired: 05/28/2010 20:46
Date Quantitated: 05/28/2010 21:07
Batch ID: KWG1005070
Analysis Method: 624
MethodJoinID: MJ158

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: Ann 5/28/10

Secondary Review: HB 6-1-10

Quantitation Report

Bottle ID:	Tier:	Matrix:
Prod Code: 624 VOC_FP	Collect Date:	WATER
		Receive Date: 05/28/2010

Analysis Lot: KWG1005070	Prep Lot: KWG1005071	Report Group:
Analysis Method: 624	Prep Method: METHOD	
Prep Ref: 913247	Prep Date: 05/28/2010	

Quant Method: J:\MS13\METHODS\020810MS13_6	Calibration ID: CAL9204
Title:	
Tune Ref: J:\MS13\DATA\052810-624\0528F106.D	Method ID: MJ158
MB Ref:	Quant based on Method

Data File: J:\MS13\DATA\052810-624\0528F108.D	Instrument: MS13
Acqu Date: 05/28/2010 20:46	Quant Date: 05/28/2010 21:07
Run Type: MB	Vial: 4
Lab ID: KWG1005071-4	Dilution: 1.0
	Soln Conc. Units: PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	6.12	0.00	96	582035	20.00	OK
2	Chlorobenzene-d5	12.03	-0.01	82	230841	20.00	OK
3	1,4-Dichlorobenzene-d4	15.08	0.00	152	204168	20.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	5.11	-0.01	0.00	113	128176	18.36	92	86-124	OK
1	1,2-Dichloroethane-d4	5.66	0.00	0.00	65	167189	21.77	109	70-130	OK
1	Toluene-d8	9.30	0.00	0.00	98	548875	19.33	97	79-131	OK
2	4-Bromofluorobenzene	13.70	0.00	0.00	95	200308	18.62	93	82-122	OK

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Dichlorodifluoromethane				85	0		0.19	U	
1	Chloromethane				50	0		0.23	U	
1	Vinyl Chloride				62	0		0.16	U	
1	Bromomethane				96	0		0.28	U	
1	Chloroethane				49	0		0.16	U	
1	Trichlorofluoromethane				101	0		0.11	U	
1	Acrolein	2.39		0.00	56	576	0.9300	3.3	U	
1	Trichlorotrifluoroethane				151	0		0.13	U	
1	1,1-Dichloroethene				96	0		0.15	U	
1	Acetone	2.52		0.00	43	5057	3.09	3.09	J	
1	Carbon Disulfide	2.59		0.00	76	986	0.0400	0.13	U	
1	Methylene Chloride	2.93		0.00	84	1820	0.2300	0.230	J	
1	Acrylonitrile				53	0		0.61	U	
1	trans-1,2-Dichloroethene				96	0		0.15	U	

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File:	J:\MS13\DATA\052810-624\0528F108.D	Instrument:	MS13
Acqu Date:	05/28/2010 20:46	Quant Date:	05/28/2010 21:07
Run Type:	MB	Vial:	4
Lab ID:	KWG1005071-4	Dilution:	1.0
		Soln Conc. Units:	PPB

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,1-Dichloroethane				63	0		0.11	U	
1	Vinyl Acetate				86	0		0.57	U	
1	cis-1,2-Dichloroethene				96	0		0.15	U	
1	2-Butanone (MEK)	4.50	0.01	0.00	72	1367	1.98	2.6	U	
1	Chloroform				83	0		0.11	U	
1	1,1,1-Trichloroethane (TCA)				97	0		0.14	U	
1	Carbon Tetrachloride				117	0		0.047	U	
1	Benzene				78	0		0.14	U	
1	1,2-Dichloroethane (EDC)				62	0		0.12	U	
1	Trichloroethene (TCE)				95	0		0.13	U	
1	1,2-Dichloropropane				63	0		0.17	U	
1	Bromodichloromethane				83	0		0.12	U	
1	2-Chloroethyl Vinyl Ether				63	0		0.29	U	
1	cis-1,3-Dichloropropene				75	0		0.13	U	
1	4-Methyl-2-pentanone (MIBK)				58	0d		2.5	U	
1	Toluene				92	0		0.18	U	
2	trans-1,3-Dichloropropene				75	0		0.10	U	
2	1,1,2-Trichloroethane				83	0		0.16	U	
2	Tetrachloroethene (PCE)				164	0		0.14	U	
2	2-Hexanone	11.07	0.01	0.00	43	2436	0.6800	2.4	U	
2	Dibromochloromethane				129	0		0.15	U	
2	Chlorobenzene	12.08	0.01	0.00	112	902	0.0400	0.098	U	
2	Ethylbenzene				106	0		0.11	U	
2	m,p-Xylenes	12.43		0.00	106	959	0.0700	0.26	U	
2	o-Xylene				106	0		0.13	U	
2	Styrene				103	0		0.14	U	
2	Bromoform				173	0		0.37	U	
3	1,1,2,2-Tetrachloroethane	13.99		0.00	83	709	0.1100	0.110	J	
3	1,3-Dichlorobenzene	14.98		0.00	146	1564	0.1100	0.16	U	
3	1,4-Dichlorobenzene	15.11		0.00	146	1788	0.1200	0.15	U	
3	1,2-Dichlorobenzene	15.52		0.00	146	1982	0.1400	0.140	J	
	Bis(chloromethyl) Ether				0	0		10	U	NR

Prep Amount: 5 ml Dilution: 1.0
 Prep Final Vol: 5 ml Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

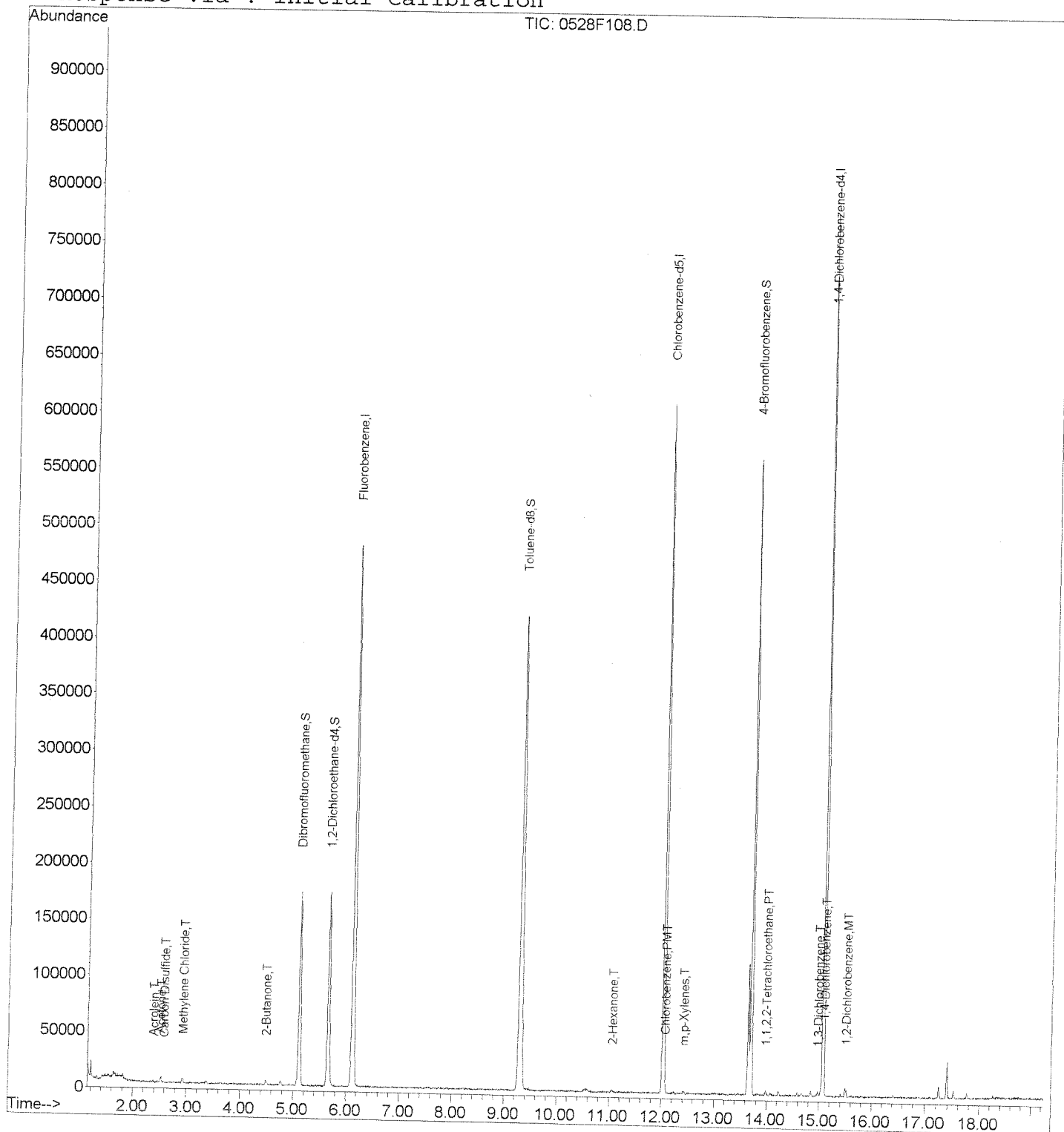
Quantitation Report (QT Reviewed)

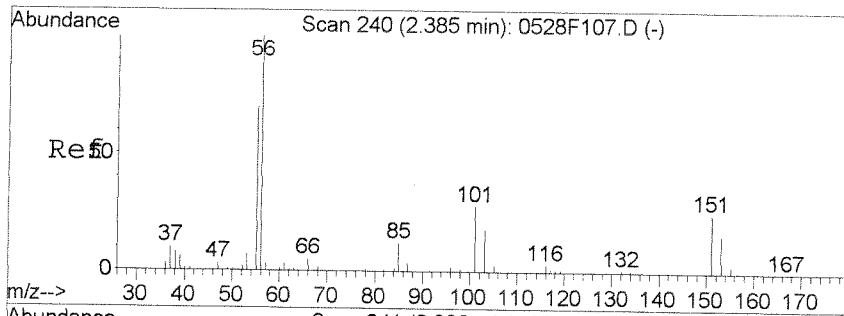
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Acq On : 28 May 2010 8:46 pm
Sample : MB
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 28 21:07 2010

Vial: 4
Operator: CMK
Inst : MS13
Multiplr: 1.00

Quant Results File: 020810MS13_6

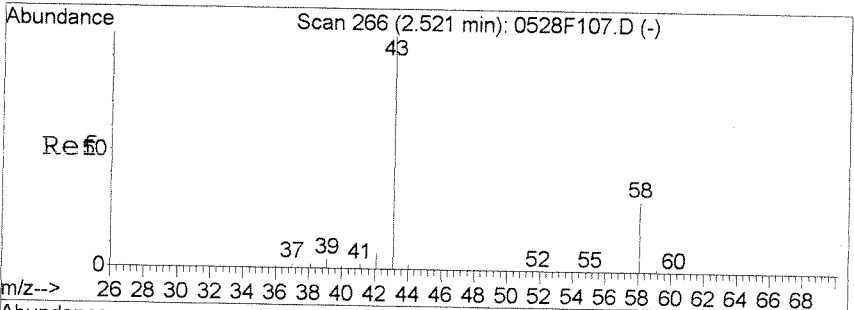
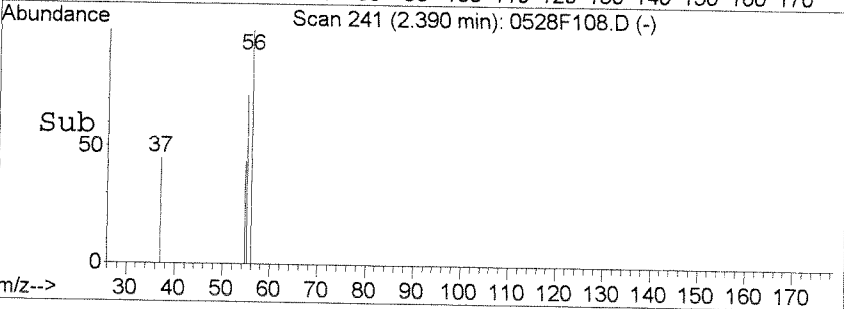
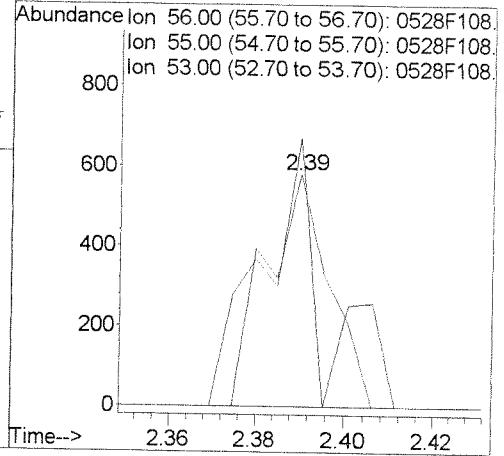
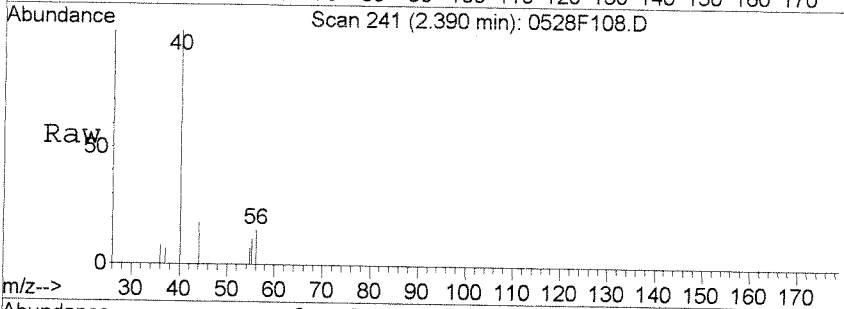
Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
Title : VOA MS13 EPA Method 8260B
Last Update : Fri May 28 21:07:16 2010
Response via : Initial Calibration





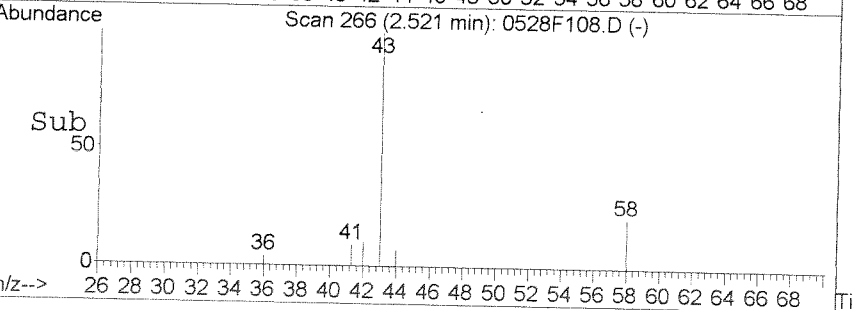
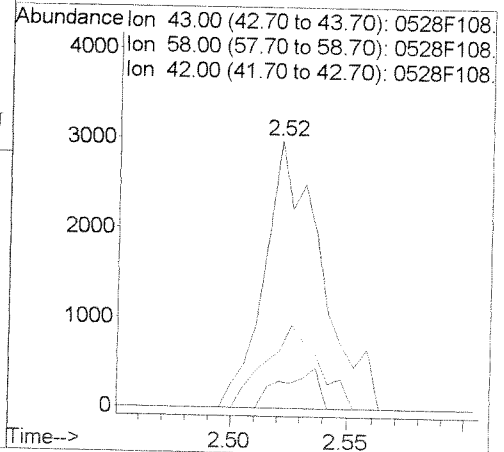
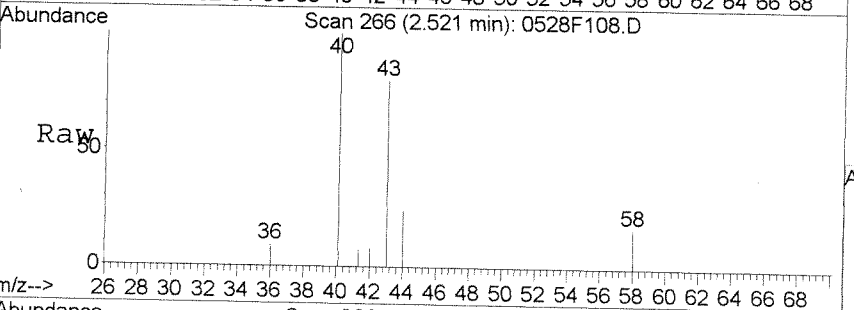
#8
 Acrolein
 Concen: 0.93 PPB
 RT: 2.39 min Scan# 241
 Delta R.T. -0.02 min
 Lab File: 0528F108.D
 Acq: 28 May 2010 8:46 pm

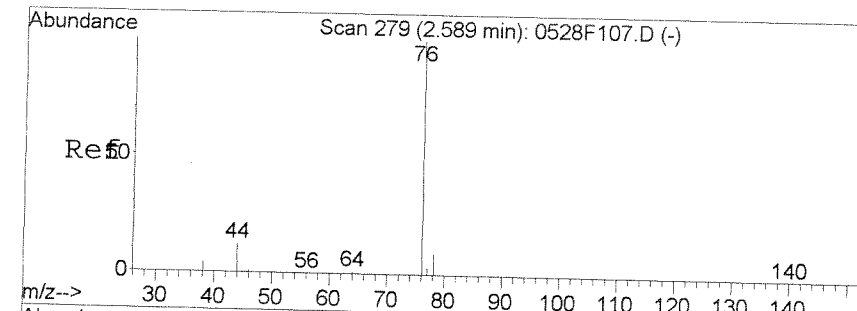
Tgt Ion	Resp	Lower	Upper
56	100		
55	115.5	37.8	97.8#
53	0.0	0.0	35.8



#11
 Acetone
 Concen: 3.09 PPB
 RT: 2.52 min Scan# 266
 Delta R.T. -0.02 min
 Lab File: 0528F108.D
 Acq: 28 May 2010 8:46 pm

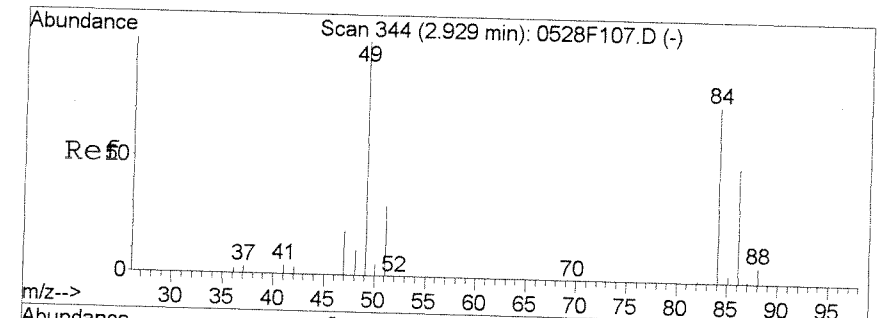
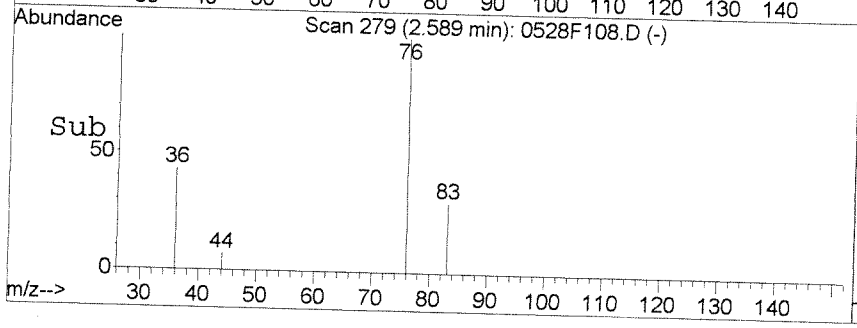
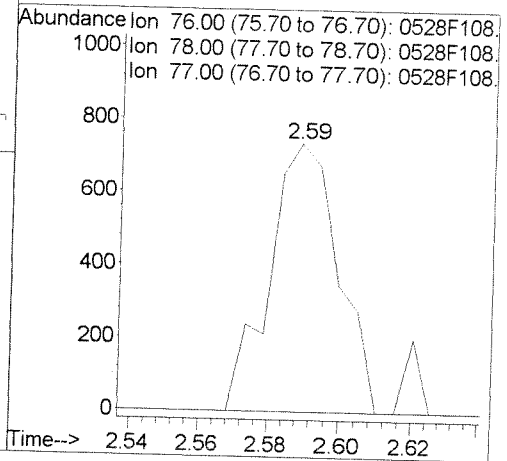
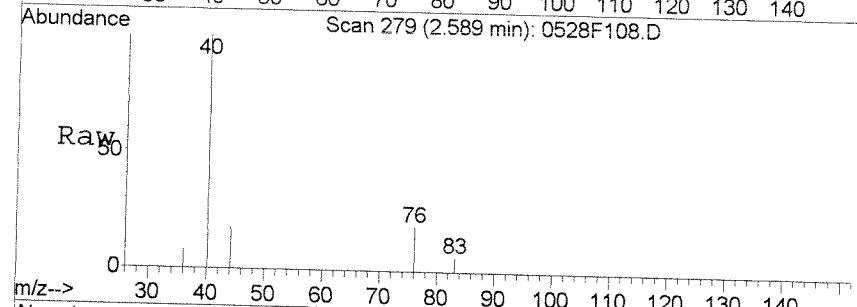
Tgt Ion	Resp	Lower	Upper
43	100		
58	21.3	4.3	64.3
42	10.1	0.0	37.4





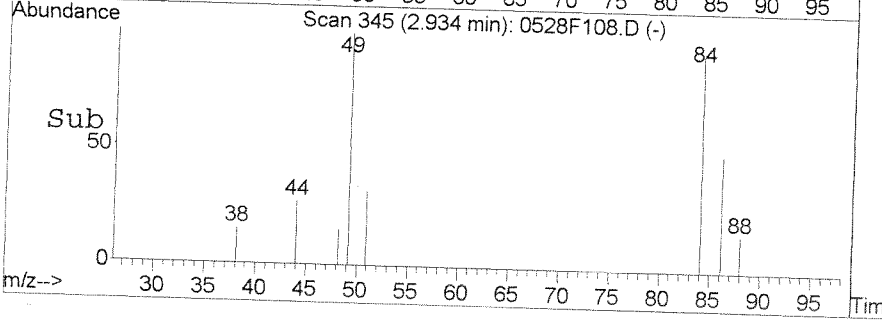
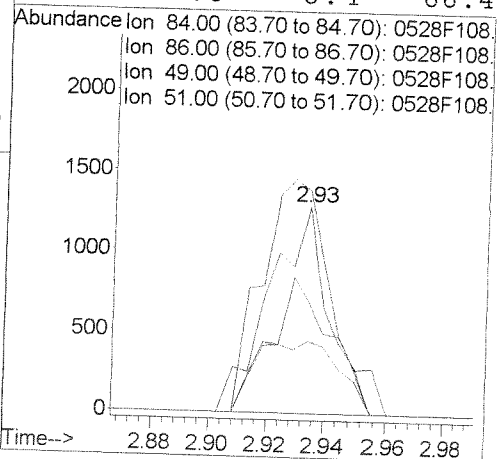
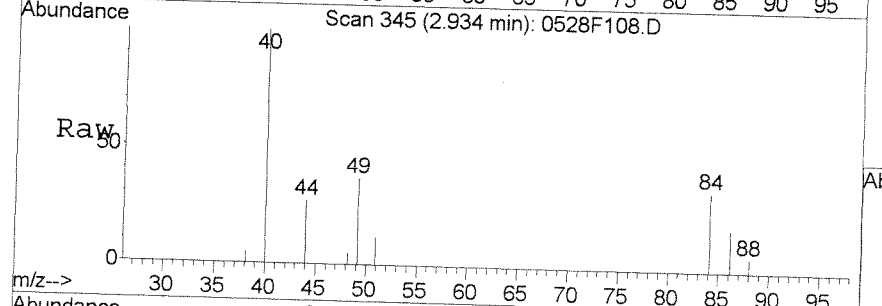
#12
 Carbon Disulfide
 Concen: 0.04 PPB
 RT: 2.59 min Scan# 279
 Delta R.T. -0.03 min
 Lab File: 0528F108.D
 Acq: 28 May 2010 8:46 pm

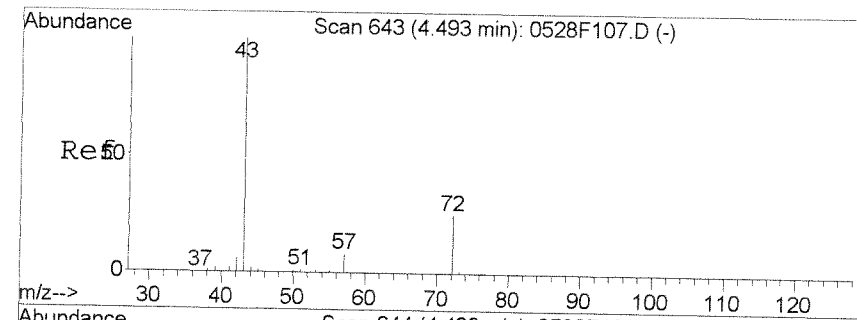
Tgt Ion	Resp	Lower	Upper
76	100		
78	0.0	0.0	38.8
77	0.0	0.0	32.6



#13
 Methylene Chloride
 Concen: 0.23 PPB
 RT: 2.93 min Scan# 345
 Delta R.T. -0.02 min
 Lab File: 0528F108.D
 Acq: 28 May 2010 8:46 pm

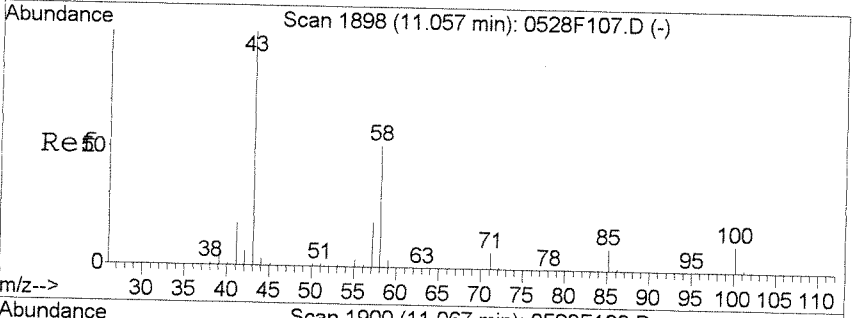
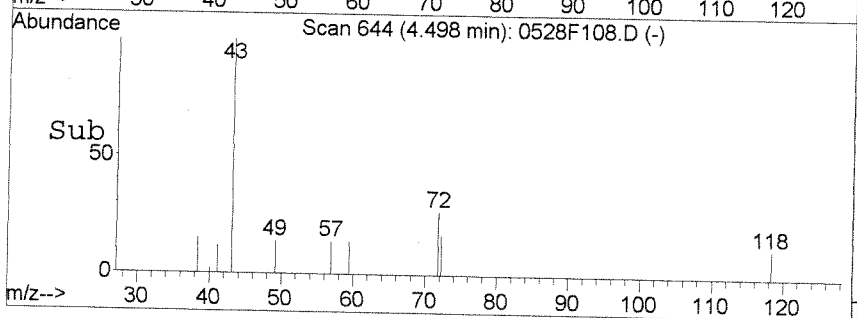
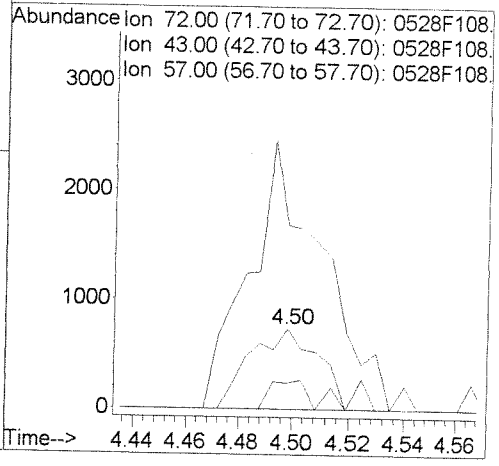
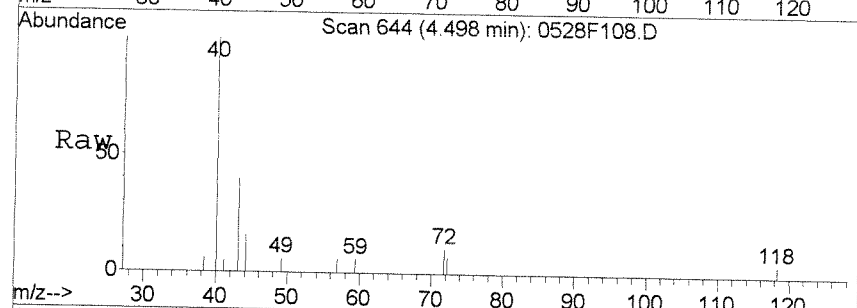
Tgt Ion	Resp	Lower	Upper
84	100		
86	53.8	34.5	94.5
49	107.9	91.3	151.3
51	34.8	6.4	66.4





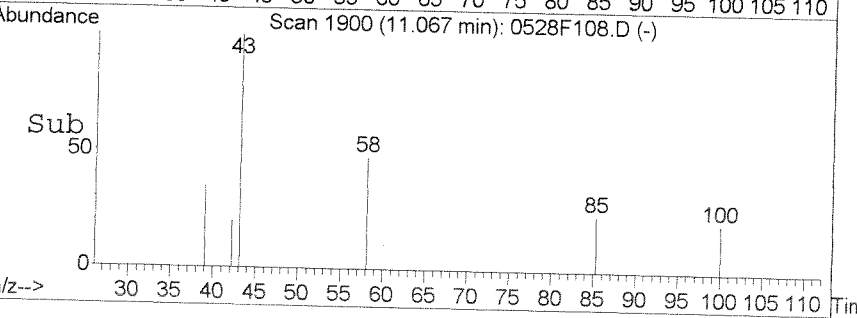
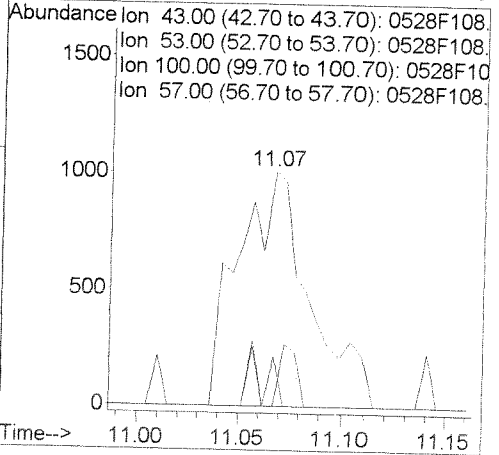
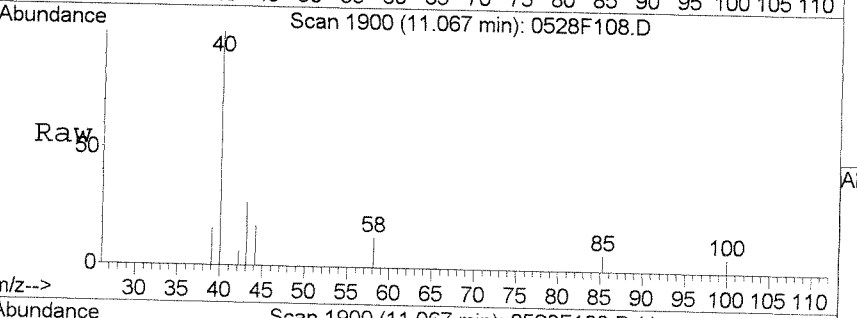
#19
 2-Butanone
 Concen: 1.98 PPB
 RT: 4.50 min Scan# 644
 Delta R.T. -0.00 min
 Lab File: 0528F108.D
 Acq: 28 May 2010 8:46 pm

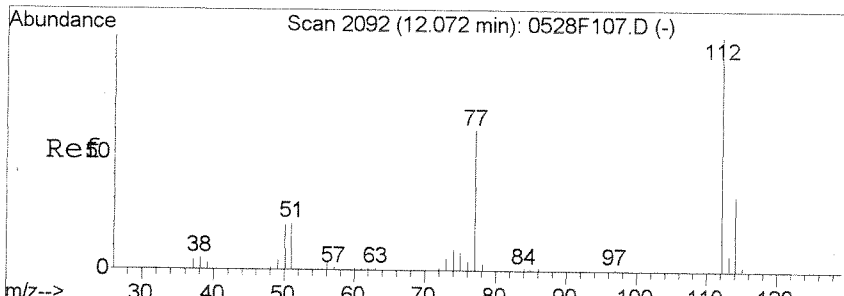
Tgt Ion	Resp	Lower	Upper
72	1367		
72	100		
43	228.4	326.0	386.0#
57	32.7	0.0	58.5



#39
 2-Hexanone
 Concen: 0.68 PPB
 RT: 11.07 min Scan# 1900
 Delta R.T. -0.02 min
 Lab File: 0528F108.D
 Acq: 28 May 2010 8:46 pm

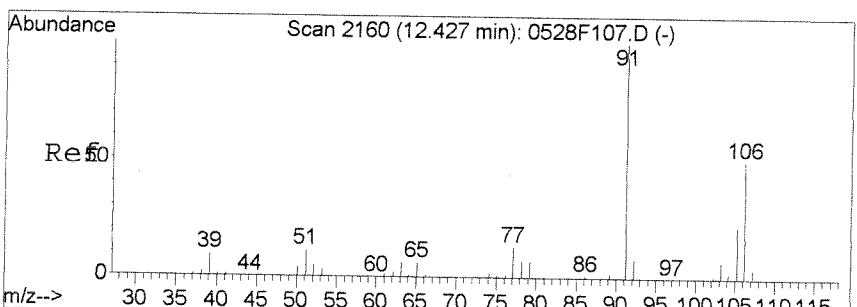
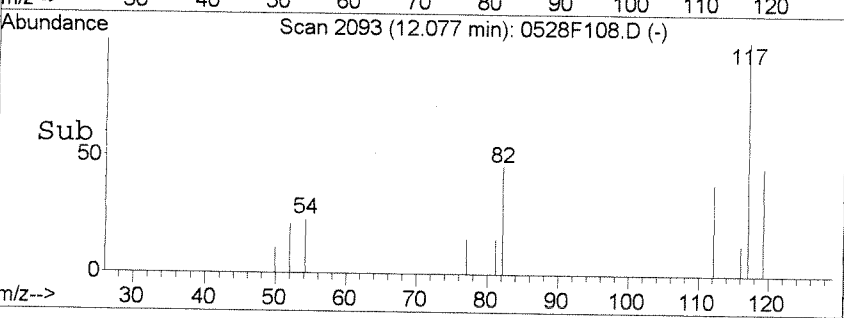
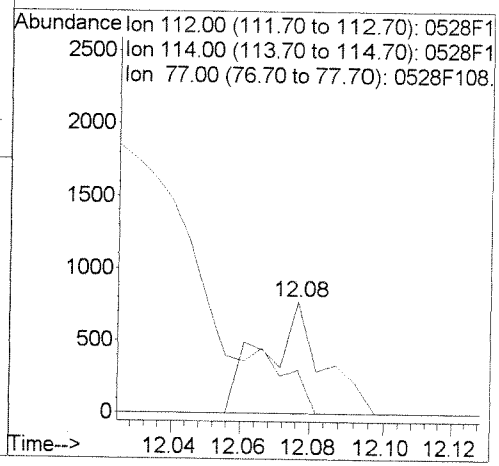
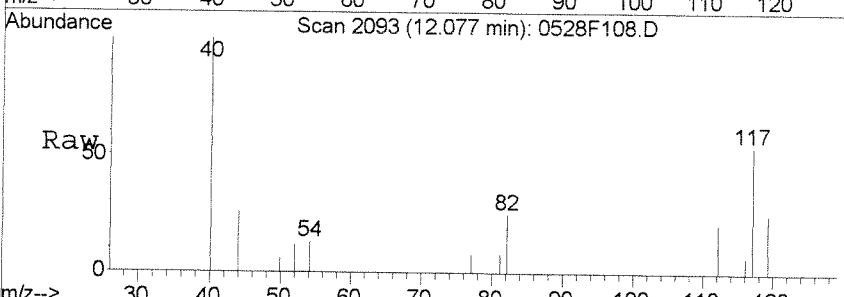
Tgt Ion	Resp	Lower	Upper
43	2436		
43	100		
53	0.0	0.0	31.5
100	21.1	0.0	43.2
57	0.0	0.0	49.5





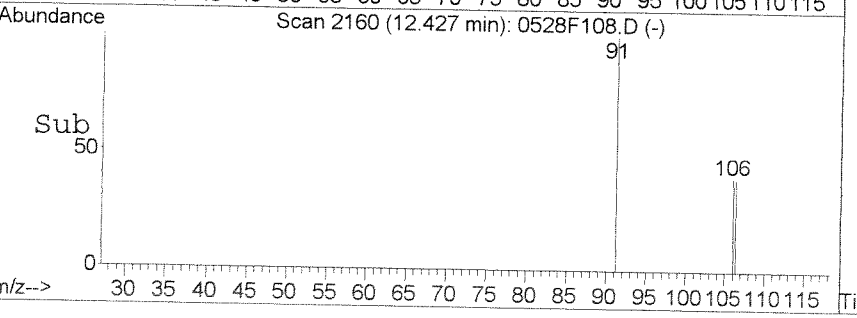
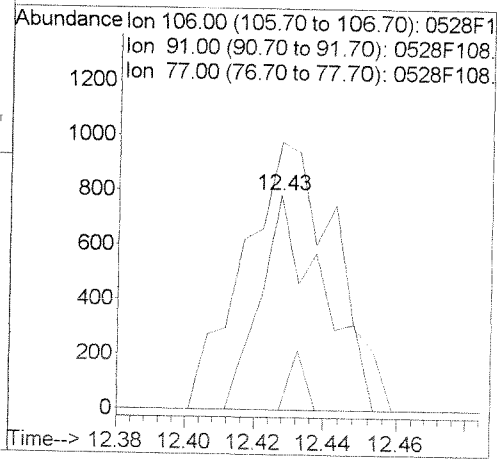
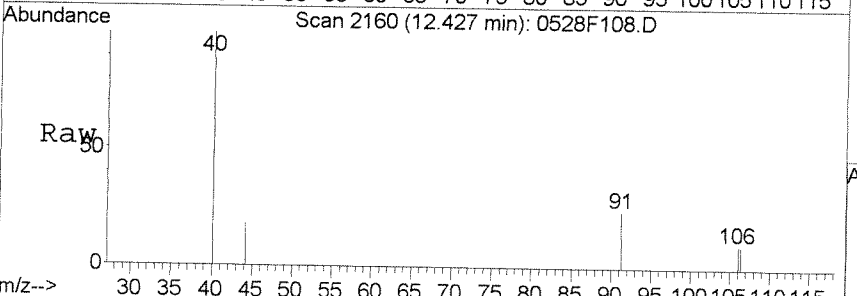
#41
 Chlorobenzene
 Concen: 0.04 PPB
 RT: 12.08 min Scan# 2093
 Delta R.T. 0.01 min
 Lab File: 0528F108.D
 Acq: 28 May 2010 8:46 pm

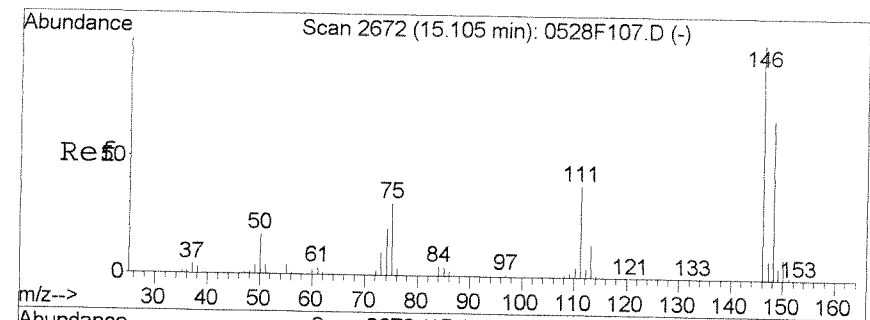
Tgt Ion	Ratio	Lower	Upper
112	100		
114	0.0	2.9	62.9#
77	38.9	25.6	85.6



#43
 m,p-Xylenes
 Concen: 0.07 PPB
 RT: 12.43 min Scan# 2160
 Delta R.T. 0.02 min
 Lab File: 0528F108.D
 Acq: 28 May 2010 8:46 pm

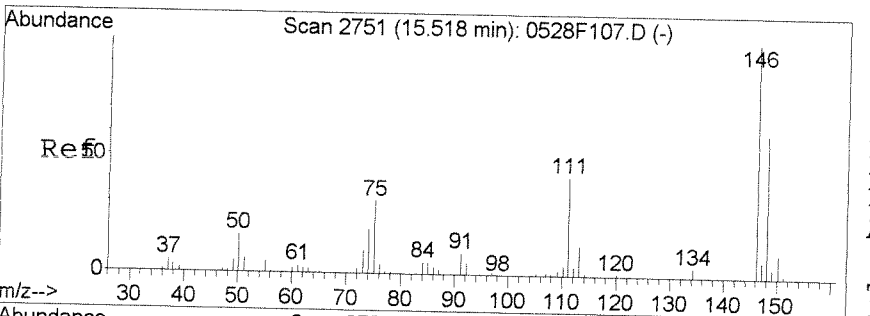
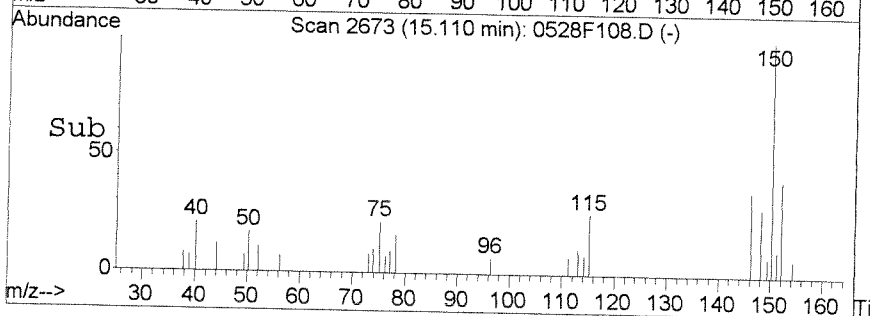
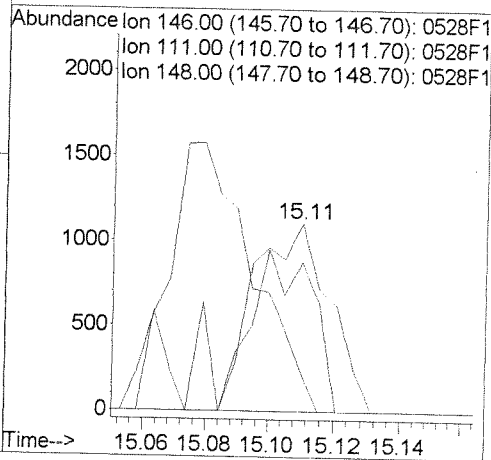
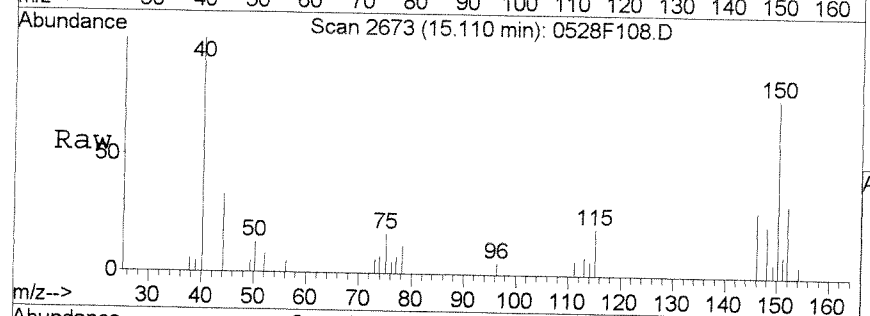
Tgt Ion	Ratio	Lower	Upper
106	100		
91	124.6	165.7	225.7#
77	0.0	0.0	53.0





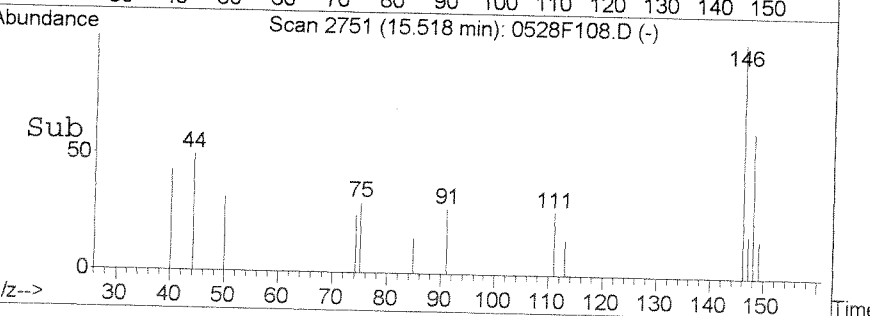
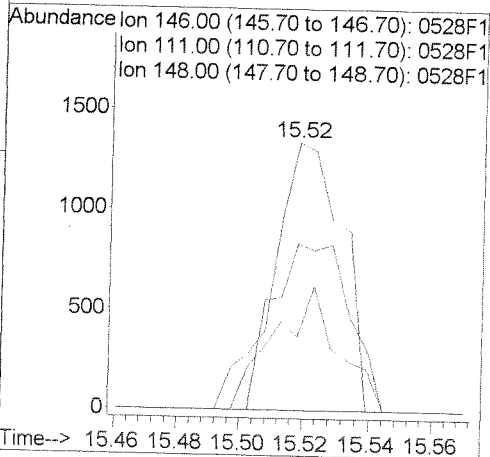
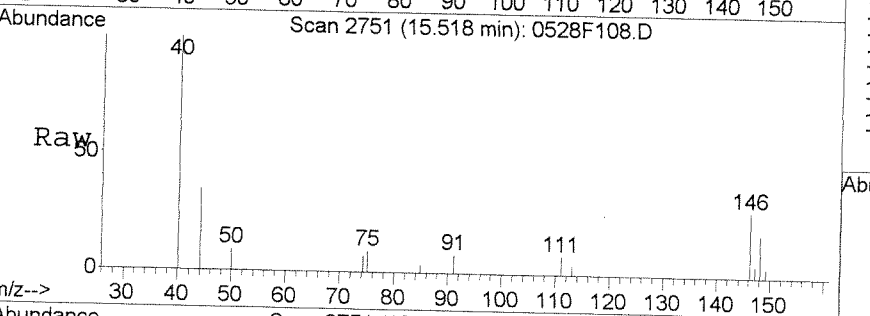
#52
 1,4-Dichlorobenzene
 Concen: 0.12 PPB
 RT: 15.11 min Scan# 2673
 Delta R.T. 0.01 min
 Lab File: 0528F108.D
 Acq: 28 May 2010 8:46 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	20.7	4.3	64.3
148	79.4	33.1	93.1



#53
 1,2-Dichlorobenzene
 Concen: 0.14 PPB
 RT: 15.52 min Scan# 2751
 Delta R.T. 0.00 min
 Lab File: 0528F108.D
 Acq: 28 May 2010 8:46 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	27.4	8.9	68.9
148	62.3	31.8	91.8



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-3MS
 Lab Code: KWG1005071-1
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	23.0		5.0	0.23	1	05/29/10	05/29/10	KWG1005071	
Vinyl Chloride	22.9		5.0	0.16	1	05/29/10	05/29/10	KWG1005071	
Bromomethane	22.6		2.0	0.28	1	05/29/10	05/29/10	KWG1005071	
Chloroethane	23.0		5.0	0.16	1	05/29/10	05/29/10	KWG1005071	
Trichlorofluoromethane	23.7		5.0	0.11	1	05/29/10	05/29/10	KWG1005071	
1,1-Dichloroethene	28.1		5.0	0.15	1	05/29/10	05/29/10	KWG1005071	
Methylene Chloride	22.3		5.0	0.12	1	05/29/10	05/29/10	KWG1005071	
trans-1,2-Dichloroethene	24.7		5.0	0.15	1	05/29/10	05/29/10	KWG1005071	
1,1-Dichloroethane	24.0		5.0	0.11	1	05/29/10	05/29/10	KWG1005071	
Chloroform	23.5		5.0	0.11	1	05/29/10	05/29/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	24.6		5.0	0.14	1	05/29/10	05/29/10	KWG1005071	
Carbon Tetrachloride	27.3		5.0	0.047	1	05/29/10	05/29/10	KWG1005071	
Benzene	24.2		5.0	0.14	1	05/29/10	05/29/10	KWG1005071	
1,2-Dichloroethane (EDC)	25.3		5.0	0.12	1	05/29/10	05/29/10	KWG1005071	
Trichloroethene (TCE)	23.5		5.0	0.13	1	05/29/10	05/29/10	KWG1005071	
1,2-Dichloropropane	22.0		5.0	0.17	1	05/29/10	05/29/10	KWG1005071	
Bromodichloromethane	22.6		5.0	0.12	1	05/29/10	05/29/10	KWG1005071	
2-Chloroethyl Vinyl Ether	7.17	J	10	0.29	1	05/29/10	05/29/10	KWG1005071	
trans-1,3-Dichloropropene	17.9		5.0	0.10	1	05/29/10	05/29/10	KWG1005071	
Toluene	23.4		5.0	0.18	1	05/29/10	05/29/10	KWG1005071	
cis-1,3-Dichloropropene	21.2		5.0	0.13	1	05/29/10	05/29/10	KWG1005071	
1,1,2-Trichloroethane	20.5		5.0	0.16	1	05/29/10	05/29/10	KWG1005071	
Tetrachloroethene (PCE)	20.9		5.0	0.14	1	05/29/10	05/29/10	KWG1005071	
Dibromochloromethane	19.2		5.0	0.15	1	05/29/10	05/29/10	KWG1005071	
Chlorobenzene	20.0		5.0	0.098	1	05/29/10	05/29/10	KWG1005071	
Ethylbenzene	22.6		5.0	0.11	1	05/29/10	05/29/10	KWG1005071	
Bromoform	18.1		5.0	0.37	1	05/29/10	05/29/10	KWG1005071	
1,1,2,2-Tetrachloroethane	20.9		5.0	0.11	1	05/29/10	05/29/10	KWG1005071	
1,3-Dichlorobenzene	21.7		5.0	0.16	1	05/29/10	05/29/10	KWG1005071	
1,4-Dichlorobenzene	21.3		5.0	0.15	1	05/29/10	05/29/10	KWG1005071	
1,2-Dichlorobenzene	21.0		5.0	0.13	1	05/29/10	05/29/10	KWG1005071	
Acrolein†	118		50	3.3	1	05/29/10	05/29/10	KWG1005071	
Acrylonitrile†	20.3		10	0.61	1	05/29/10	05/29/10	KWG1005071	
m,p-Xylenes	44.7		2.0	0.26	1	05/29/10	05/29/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-3MS
 Lab Code: KWG1005071-1
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	22.5		1.0	0.13	1	05/29/10	05/29/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	100	79-131	05/29/10	Acceptable
4-Bromofluorobenzene	92	82-122	05/29/10	Acceptable
Dibromofluoromethane	92	86-124	05/29/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

Exception Report

Data File: J:\MS13\DATA\052810-624\0528F119.D
Lab ID: KWG1005071-1 -- K1004934-006MS
RunType: MS
Matrix: WATER

Date Acquired: 05/29/2010 01:50
Date Quantitated: 05/29/2010 02:09
Batch ID: KWG1005070
Analysis Method: 624
MethodJoinID: MJ158

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Dichlorodifluoromethane	40.4	NA	40	NT

Primary Review: Cum 5/29/10

Secondary Review: TPB6-170

Quantitation Report

Bottle ID:		Tier:	Matrix: WATER	
Prod Code: 624 VOC_FP		Collect Date:	Receive Date: 05/29/2010	
Analysis Lot: KWG1005070		Prep Lot: KWG1005071	Report Group:	
Analysis Method: 624		Prep Method: METHOD		
Prep Ref: 913244		Prep Date: 05/28/2010 29 HW-110		
Quant Method: J:\MS13\METHODS\020810MS13_6			Calibration ID: CAL9204	
Title:				
Tune Ref: J:\MS13\DATA\052810-624\0528F106.D			Method ID: MJ158	
MB Ref: J:\MS13\DATA\052810-624\0528F108.D			Quant based on Method	
Data File: J:\MS13\DATA\052810-624\0528F119.D		Instrument: MS13		
Acqu Date: 05/29/2010 01:50	Quant Date: 05/29/2010 02:09	Vial: 11		
Run Type: MS		Dilution: 1.0		
Lab ID: KWG1005071-1 -- K1004934-006MS		Soln Conc. Units: PPB		

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	6.12	0.00	96	598974	20.00	OK
2	Chlorobenzene-d5	12.03	-0.01	82	239642	20.00	OK
3	1,4-Dichlorobenzene-d4	15.08	0.00	152	222254	20.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	5.11	-0.01	0.00	113	132487	18.44	92	86-124	OK
1	1,2-Dichloroethane-d4	5.66	0.00	0.00	65	166416	21.05	105	70-130	OK
1	Toluene-d8	9.30	0.00	0.00	98	581720	19.90	100	79-131	OK
2	4-Bromofluorobenzene	13.70	0.00	0.00	95	204581	18.32	92	82-122	OK

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?	
								Final Conc. Units: ug/L			
1	Dichlorodifluoromethane	1.22	-0.01	0.00	85	239678	31.46	31.5			
1	Chloromethane	1.37		0.00	50	218849	23.04	23.0			
1	Vinyl Chloride	1.44		0.00	62	187939	22.93	22.9			
1	Bromomethane	1.70		0.00	96	94429	22.58	22.6			
1	Chloroethane	1.78		0.00	49	28514	23.01	23.0			
1	Trichlorofluoromethane	1.95		0.00	101	276763	23.72	23.7			
1	Acrolein	2.39		0.00	56	75739	118.23	118			
1	Trichlorotrifluoroethane	2.38		0.00	151	136073	22.37	22.4			
1	1,1-Dichloroethene	2.41		0.00	96	170559	28.10	28.1			
1	Acetone	2.52		0.00	43	183410	108.91	109			
1	Carbon Disulfide	2.59		0.00	76	1117656	44.78	44.8			
1	Methylene Chloride	2.93		0.00	84	184212	22.33	22.3			
1	Acrylonitrile	3.27		0.00	53	49946	20.32	20.3			
1	trans-1,2-Dichloroethene	3.16		0.00	96	190681	24.70	24.7			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ? : Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File: J:\MS13\DATA\052810-624\0528F119.D
 Acqu Date: 05/29/2010 01:50
 Run Type: MS
 Lab ID: KWG1005071-1 -- K1004934-006MS

Quant Date: 05/29/2010 02:09

Instrument: MS13
 Vial: 11
 Dilution: 1.0
 Soln Conc. Units: PPB

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,1-Dichloroethane	3.68		0.00	63	303302	23.95	24.0		
1	Vinyl Acetate	3.75		0.00	86	59990	47.57	47.6		
1	cis-1,2-Dichloroethene	4.42		0.00	96	190380	22.63	22.6		
1	2-Butanone (MEK)	4.49		0.00	72	70121	98.49	98.5		
1	Chloroform	4.87		0.00	83	300920	23.54	23.5		
1	1,1,1-Trichloroethane (TCA)	5.04	-0.01	0.00	97	229505	24.63	24.6		
1	Carbon Tetrachloride	5.22	-0.01	0.00	117	244233	27.27	27.3		
1	Benzene	5.61	0.01	0.00	78	773861	24.22	24.2		
1	1,2-Dichloroethane (EDC)	5.78		0.00	62	237226	25.29	25.3		
1	Trichloroethene (TCE)	6.73		0.00	95	186385	23.46	23.5		
1	1,2-Dichloropropane	7.25		0.00	63	167851	22.04	22.0		
1	Bromodichloromethane	7.81		0.00	83	215317	22.64	22.6		
1	2-Chloroethyl Vinyl Ether	8.60		0.00	63	26790	7.17	7.17	J	
1	cis-1,3-Dichloropropene	8.82	-0.01	0.00	75	214539	21.18	21.2		
1	4-Methyl-2-pentanone (MIBK)	9.29		0.00	58	221674	102.37	102		
1	Toluene	9.46		0.00	92	476527	23.43	23.4		
2	trans-1,3-Dichloropropene	10.24		0.00	75	154992	17.89	17.9		
2	1,1,2-Trichloroethane	10.55		0.00	83	118710	20.53	20.5		
2	Tetrachloroethene (PCE)	10.52		0.00	164	144543	20.86	20.9		
2	2-Hexanone	11.06		0.00	43	372203	99.81	99.8		
2	Dibromochloromethane	11.16		0.00	129	147607	19.17	19.2		
2	Chlorobenzene	12.08	0.01	0.00	112	485027	19.99	20.0		
2	Ethylbenzene	12.24		0.00	106	271649	22.58	22.6		
2	m,p-Xylenes	12.43		0.00	106	662629	44.67	44.7		
2	o-Xylene	12.98		0.00	106	313372	22.52	22.5		
2	Styrene	13.02		0.00	103	258541	22.84	22.8		
2	Bromoform	13.26		0.00	173	83486	18.13	18.1		
3	1,1,2,2-Tetrachloroethane	13.99		0.00	83	147593	20.91	20.9		
3	1,3-Dichlorobenzene	14.98		0.00	146	349543	21.72	21.7		
3	1,4-Dichlorobenzene	15.11		0.00	146	357525	21.25	21.3		
3	1,2-Dichlorobenzene	15.52		0.00	146	319642	20.95	21.0		
	Bis(chloromethyl) Ether				0	0	10		U	NR

Prep Amount: 5 ml
 Prep Final Vol: 5 ml
 Dilution: 1.0
 Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ? : Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

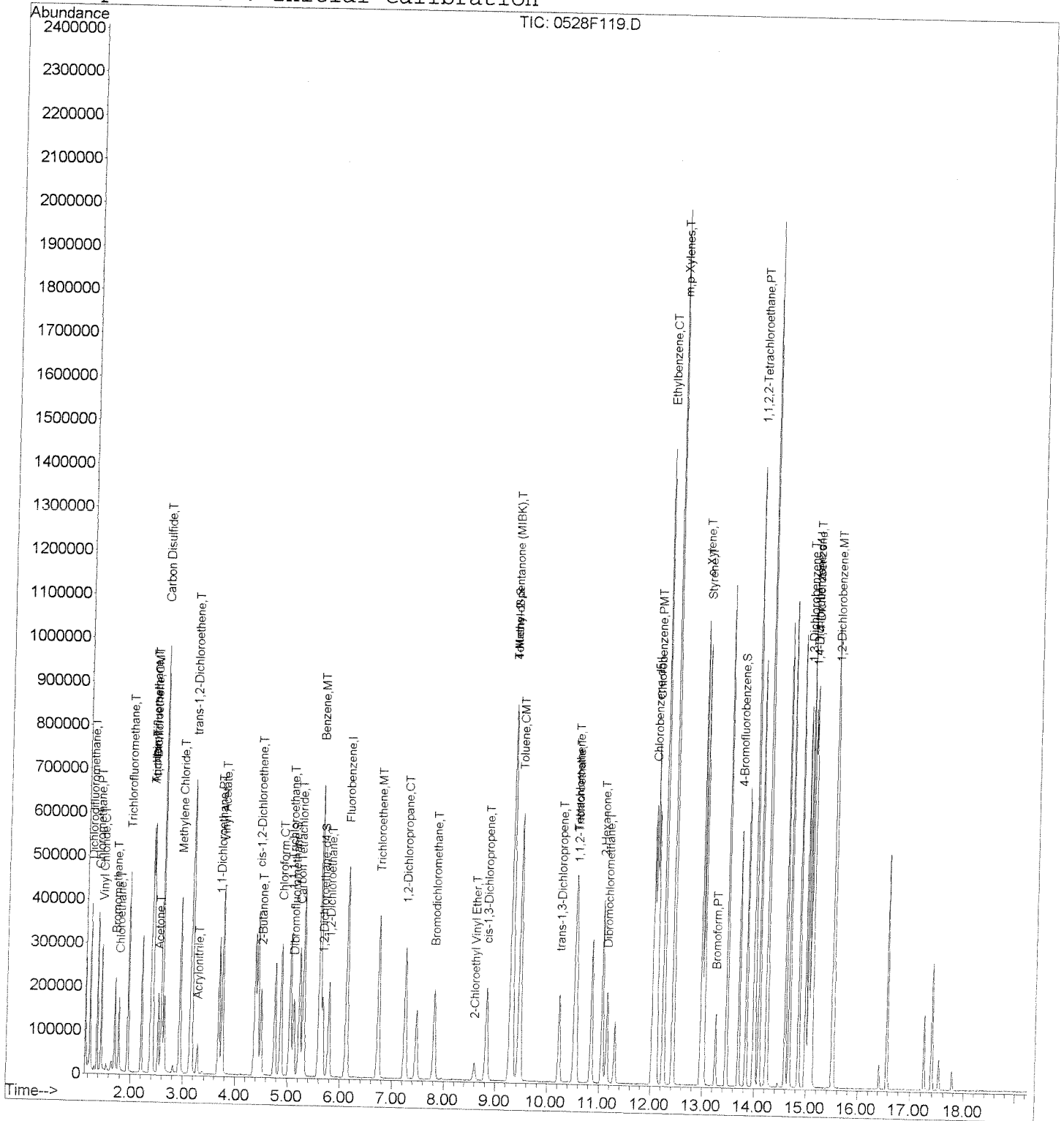
Quantitation Report (QT Reviewed)

Data File : J:\MS13\DATA\052810-624\0528F119.D
 Acq On : 29 May 2010 1:50 am
 Sample : K4934-006 ~~DMS~~ (R)
 Misc :
 MS Integration Params: ~~MS~~ *CMS/28/10* *HB* *6-170*
 Quant Time: May 29 2:09 2010

Vial: 11
 Operator: CMK
 Inst : MS13
 Multiplr: 1.00

Quant Results File: 020810MS13_6

Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
 Title : VOA MS13 EPA Method 8260B
 Last Update : Fri May 28 23:53:25 2010
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-3DMS
 Lab Code: KWG1005071-2
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	22.6		5.0	0.23	1	05/29/10	05/29/10	KWG1005071	
Vinyl Chloride	22.9		5.0	0.16	1	05/29/10	05/29/10	KWG1005071	
Bromomethane	22.9		2.0	0.28	1	05/29/10	05/29/10	KWG1005071	
Chloroethane	21.6		5.0	0.16	1	05/29/10	05/29/10	KWG1005071	
Trichlorofluoromethane	23.8		5.0	0.11	1	05/29/10	05/29/10	KWG1005071	
1,1-Dichloroethene	27.4		5.0	0.15	1	05/29/10	05/29/10	KWG1005071	
Methylene Chloride	22.3		5.0	0.12	1	05/29/10	05/29/10	KWG1005071	
trans-1,2-Dichloroethene	24.4		5.0	0.15	1	05/29/10	05/29/10	KWG1005071	
1,1-Dichloroethane	23.5		5.0	0.11	1	05/29/10	05/29/10	KWG1005071	
Chloroform	24.1		5.0	0.11	1	05/29/10	05/29/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	24.1		5.0	0.14	1	05/29/10	05/29/10	KWG1005071	
Carbon Tetrachloride	26.5		5.0	0.047	1	05/29/10	05/29/10	KWG1005071	
Benzene	23.9		5.0	0.14	1	05/29/10	05/29/10	KWG1005071	
1,2-Dichloroethane (EDC)	25.1		5.0	0.12	1	05/29/10	05/29/10	KWG1005071	
Trichloroethene (TCE)	23.2		5.0	0.13	1	05/29/10	05/29/10	KWG1005071	
1,2-Dichloropropane	21.9		5.0	0.17	1	05/29/10	05/29/10	KWG1005071	
Bromodichloromethane	22.3		5.0	0.12	1	05/29/10	05/29/10	KWG1005071	
2-Chloroethyl Vinyl Ether	ND	U	10	0.29	1	05/29/10	05/29/10	KWG1005071	
trans-1,3-Dichloropropene	17.8		5.0	0.10	1	05/29/10	05/29/10	KWG1005071	
Toluene	23.4		5.0	0.18	1	05/29/10	05/29/10	KWG1005071	
cis-1,3-Dichloropropene	21.3		5.0	0.13	1	05/29/10	05/29/10	KWG1005071	
1,1,2-Trichloroethane	20.5		5.0	0.16	1	05/29/10	05/29/10	KWG1005071	
Tetrachloroethene (PCE)	20.8		5.0	0.14	1	05/29/10	05/29/10	KWG1005071	
Dibromochloromethane	19.0		5.0	0.15	1	05/29/10	05/29/10	KWG1005071	
Chlorobenzene	20.1		5.0	0.098	1	05/29/10	05/29/10	KWG1005071	
Ethylbenzene	22.3		5.0	0.11	1	05/29/10	05/29/10	KWG1005071	
Bromoform	18.3		5.0	0.37	1	05/29/10	05/29/10	KWG1005071	
1,1,2,2-Tetrachloroethane	22.3		5.0	0.11	1	05/29/10	05/29/10	KWG1005071	
1,3-Dichlorobenzene	22.5		5.0	0.16	1	05/29/10	05/29/10	KWG1005071	
1,4-Dichlorobenzene	22.2		5.0	0.15	1	05/29/10	05/29/10	KWG1005071	
1,2-Dichlorobenzene	21.9		5.0	0.13	1	05/29/10	05/29/10	KWG1005071	
Acrolein†	125		50	3.3	1	05/29/10	05/29/10	KWG1005071	
Acrylonitrile†	22.3		10	0.61	1	05/29/10	05/29/10	KWG1005071	
m,p-Xylenes	45.0		2.0	0.26	1	05/29/10	05/29/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: 05/14/2010
 Date Received: 05/15/2010

Volatile Organic Compounds

Sample Name: SW-3DMS Units: ug/L
 Lab Code: KWG1005071-2 Basis: NA
 Extraction Method: METHOD Level: Low
 Analysis Method: 624

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	22.7		1.0	0.13	1	05/29/10	05/29/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	100	79-131	05/29/10	Acceptable
4-Bromofluorobenzene	92	82-122	05/29/10	Acceptable
Dibromofluoromethane	93	86-124	05/29/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments: _____

Exception Report

Data File: J:\MS13\DATA\052810-624\0528F201.D
Lab ID: KWG1005071-2 -- K1004934-006DMS
RunType: DMS
Matrix: WATER

Date Acquired: 05/29/2010 02:45
Date Quantitated: 05/29/2010 03:05
Batch ID: KWG1005070
Analysis Method: 624
MethodJoinID: MJ158

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Dichlorodifluoromethane	40.4	NA	40	NT

Primary Review: Ann G/1/10

Secondary Review: HTB 6770

Quantitation Report

Bottle ID:	Tier:	Matrix:	WATER
Prod Code: 624 VOC_FP	Collect Date:	Receive Date:	06/01/2010

Analysis Lot: KWG1005070	Prep Lot: KWG1005071	Report Group:
Analysis Method: 624	Prep Method: METHOD	
Prep Ref: 913245	Prep Date: 05/29/2010	

Quant Method: J:\MS13\METHODS\020810MS13_6	Calibration ID: CAL9204
Title:	
Tune Ref: J:\MS13\DATA\052810-624\0528F106.D	Method ID: MJ158
MB Ref: J:\MS13\DATA\052810-624\0528F108.D	Quant based on Method

Data File: J:\MS13\DATA\052810-624\0528F201.D	Instrument: MS13
Acqu Date: 05/29/2010 02:45	Quant Date: 06/01/2010 17:45
Run Type: DMS	Vial: 11
Lab ID: KWG1005071-2 -- K1004934-006DMS	Dilution: 1.0
	Soln Conc. Units: PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	6.12	0.00	96	591524	20.00	OK
2	Chlorobenzene-d5	12.03	-0.01	82	237418	20.00	OK
3	1,4-Dichlorobenzene-d4	15.08	0.00	152	211858	20.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	5.11	-0.01	0.00	113	131871	18.58	93	86-124	OK
1	1,2-Dichloroethane-d4	5.66	0.00	0.00	65	165410	21.19	106	70-130	OK
1	Toluene-d8	9.30	0.00	0.00	98	575683	19.95	100	79-131	OK
2	4-Bromofluorobenzene	13.70	0.00	0.00	95	202731	18.33	92	82-122	OK

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
								Final Conc. Units: ug/L		
1	Dichlorodifluoromethane	1.22	-0.01	0.00	85	233813	31.08	31.1		
1	Chloromethane	1.37		0.00	50	211647	22.56	22.6		
1	Vinyl Chloride	1.44		0.00	62	185349	22.90	22.9		
1	Bromomethane	1.70		0.00	96	94450	22.87	22.9		
1	Chloroethane	1.78		0.00	49	26416	21.58	21.6		
1	Trichlorofluoromethane	1.95		0.00	101	273721	23.75	23.8		
1	Acrolein	2.38	-0.01	0.00	56	79002	124.87	125		
1	Trichlorotrifluoroethane	2.38		0.00	151	130628	21.75	21.8		
1	1,1-Dichloroethene	2.41		0.00	96	164285	27.41	27.4		
1	Acetone	2.52		0.00	43	188404	113.29	113		
1	Carbon Disulfide	2.59		0.00	76	1085556	44.04	44.0		
1	Methylene Chloride	2.93		0.00	84	181928	22.34	22.3		
1	Acrylonitrile	3.27		0.00	53	54096	22.29	22.3		
1	trans-1,2-Dichloroethene	3.16		0.00	96	186094	24.41	24.4		

U: Undetected at or above MDL
 F: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

Data File: J:\MS13\DATA\052810-624\0528F201.D
 Acq Date: 05/29/2010 02:45
 Run Type: DMS
 Lab ID: KWG1005071-2 -- K1004934-006DMS

Quant Date: 06/01/2010 17:45

Instrument: MS13
 Vial: 11
 Dilution: 1.0
 Soln Conc. Units: PPB

Target Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?
1	1,1-Dichloroethane	3.68		0.00	63	294318	23.53	23.5		
1	Vinyl Acetate	3.74	-0.01	0.00	86	62351	50.07	50.1		
1	cis-1,2-Dichloroethene	4.42		0.00	96	189764	22.84	22.8		
1	2-Butanone (MEK)	4.49		0.00	72	70041m	99.62	99.6		
1	Chloroform	4.87		0.00	83	303818	24.06	24.1		
1	1,1,1-Trichloroethane (TCA)	5.05		0.00	97	222052	24.13	24.1		
1	Carbon Tetrachloride	5.22	-0.01	0.00	117	234734	26.54	26.5		
1	Benzene	5.61	0.01	0.00	78	753574	23.88	23.9		
1	1,2-Dichloroethane (EDC)	5.78		0.00	62	232689	25.12	25.1		
1	Trichloroethene (TCE)	6.73		0.00	95	181579	23.15	23.2		
1	1,2-Dichloropropane	7.25		0.00	63	164336	21.85	21.9		
1	Bromodichloromethane	7.81		0.00	83	209803	22.34	22.3		
1	2-Chloroethyl Vinyl Ether				63	0		0.29	U	
1	cis-1,3-Dichloropropene	8.82	-0.01	0.00	75	213510	21.34	21.3		
1	4-Methyl-2-pentanone (MIBK)	9.29		0.00	58	224481	104.97	105		
1	Toluene	9.46		0.00	92	470049	23.40	23.4		
2	trans-1,3-Dichloropropene	10.23	-0.01	0.00	75	152391	17.75	17.8		
2	1,1,2-Trichloroethane	10.56	0.01	0.00	83	117561	20.52	20.5		
2	Tetrachloroethene (PCE)	10.52		0.00	164	142863	20.81	20.8		
2	2-Hexanone	11.06		0.00	43	385035	104.22	104		
2	Dibromochloromethane	11.16		0.00	129	144492	18.95	19.0		
2	Chlorobenzene	12.08	0.01	0.00	112	482815	20.09	20.1		
2	Ethylbenzene	12.24		0.00	106	266158	22.33	22.3		
2	m,p-Xylenes	12.43		0.00	106	661711	45.03	45.0		
2	o-Xylene	12.98		0.00	106	313527	22.74	22.7		
2	Styrene	13.02		0.00	103	254901	22.73	22.7		
2	Bromoform	13.26		0.00	173	83572	18.31	18.3		
3	1,1,2,2-Tetrachloroethane	13.99		0.00	83	149796	22.26	22.3		
3	1,3-Dichlorobenzene	14.98		0.00	146	345433	22.52	22.5		
3	1,4-Dichlorobenzene	15.10	-0.01	0.00	146	355938	22.19	22.2		
3	1,2-Dichlorobenzene	15.52		0.00	146	319093	21.94	21.9		
	Bis(chloromethyl) Ether				0	0		10	UJ	NR

Prep Amount: 5 ml Dilution: 1.0
 Prep Final Vol: 5 ml Unit Factor: 1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

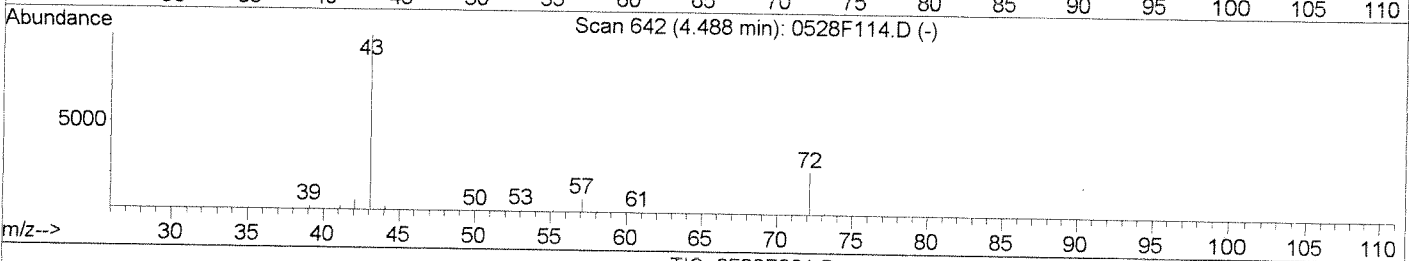
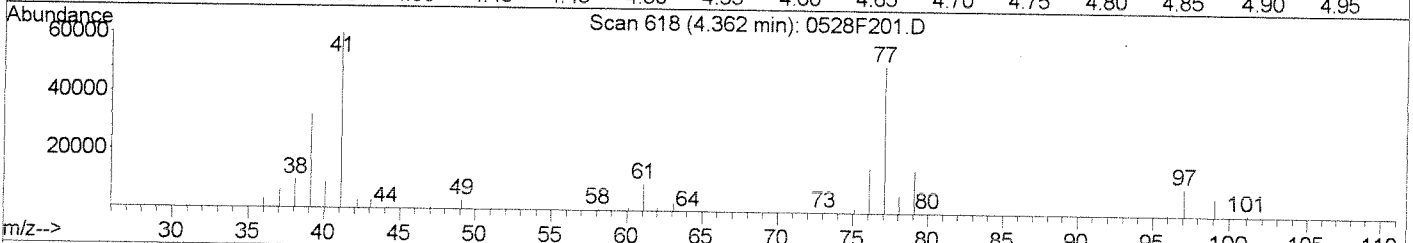
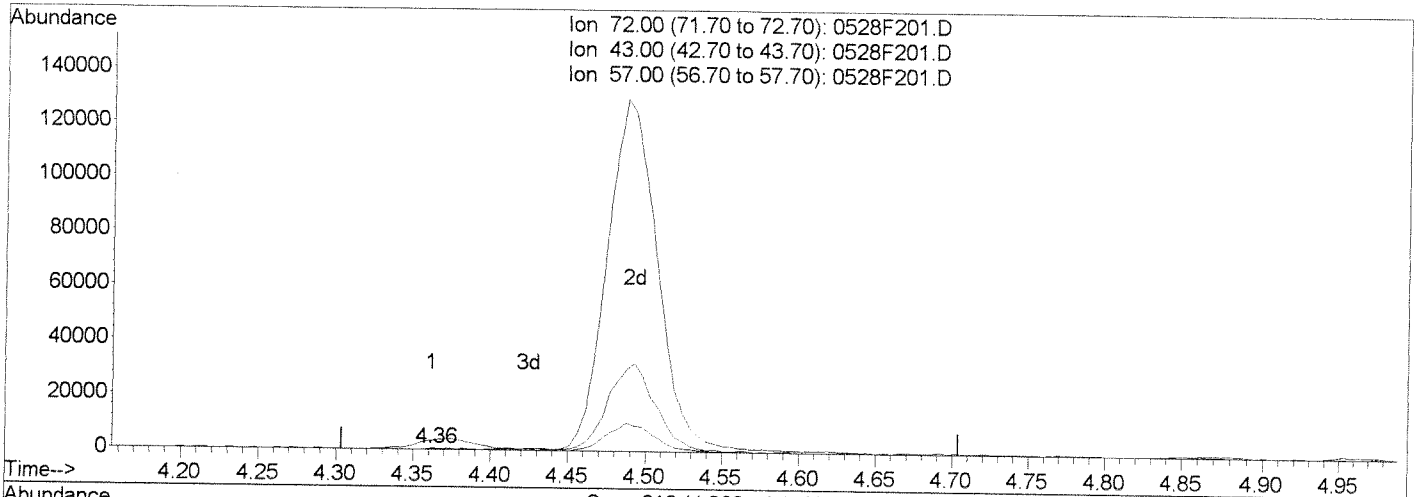
Quantitation Report (Qedit)

Data File : J:\MS13\DATA\052810-624\0528F201.D
 Acq On : 29 May 2010 2:45 am
 Sample : K4934-006 DMS (R)
 Misc :
 MS Integration Params: RTEINT.P
 Quant Time: May 29 3:05 2010

Vial: 11
 Operator: CMK
 Inst : MS13
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
 Title : VOA MS13 EPA Method 8260B
 Last Update : Fri May 28 23:53:25 2010
 Response via : Multiple Level Calibration



TIC: 0528F201.D

(19) 2-Butanone (T)

4.36min 0.93PPB

response 655

Ion	Exp%	Act%
72.00	100	100
43.00	356.00	337.44
57.00	28.50	0.00
0.00	0.00	0.00

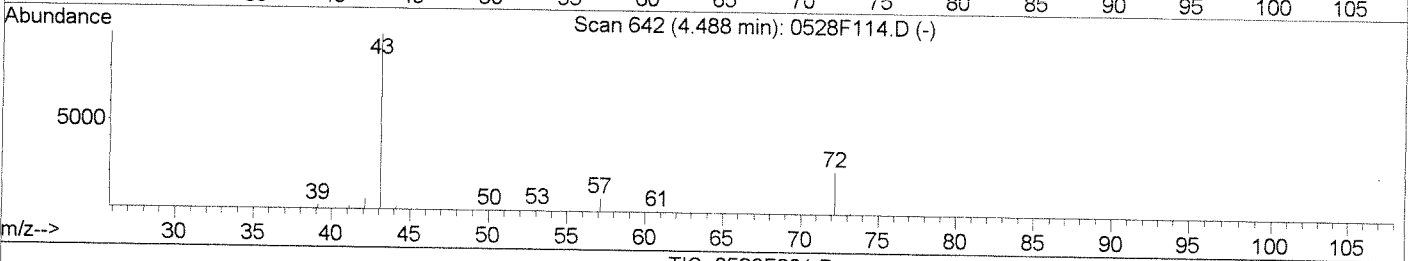
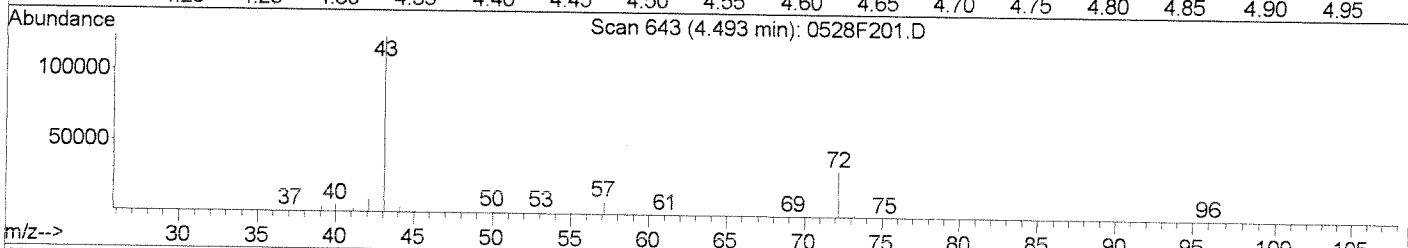
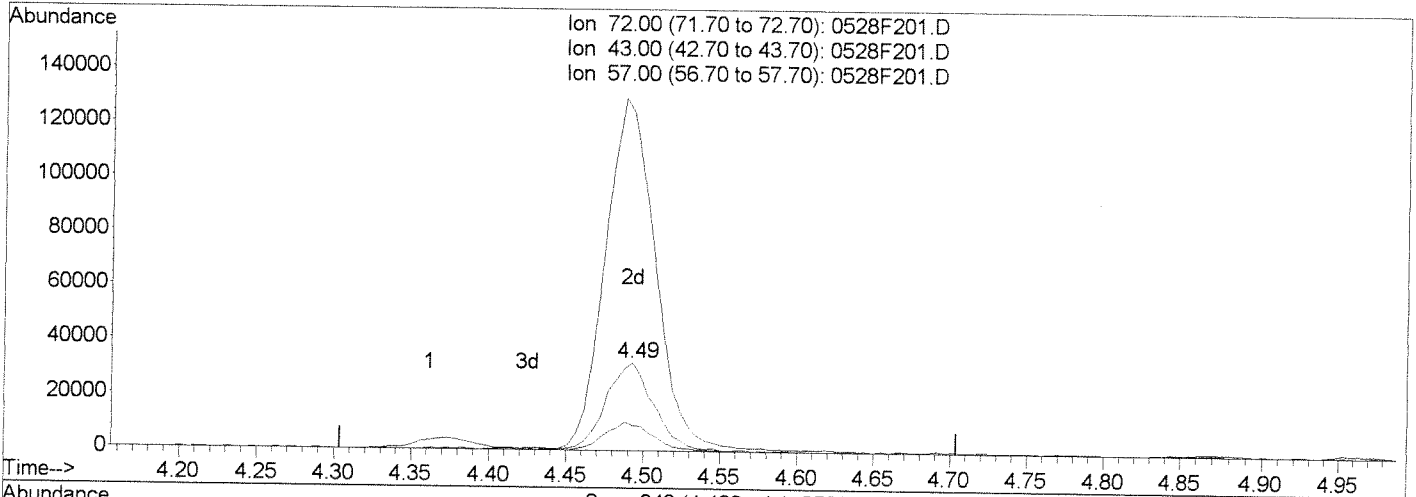
Quantitation Report (Qedit)

Data File : J:\MS13\DATA\052810-624\0528F201.D
 Acq On : 29 May 2010 2:45 am
 Sample : K4934-006 DMS (R)
 Misc :
 MS Integration Params: RTEINT.P
 Quant Time: Jun 1 17:45 2010

Vial: 11
 Operator: CMK
 Inst : MS13
 Multiplr: 1.00

Quant Results File: temp.res

Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
 Title : VOA MS13 EPA Method 8260B
 Last Update : Fri May 28 23:53:25 2010
 Response via : Multiple Level Calibration



TIC: 0528F201.D

(19) 2-Butanone (T)
 4.49min 99.62PPB m
 response 70041

Ion	Exp%	Act%
72.00	100	100
43.00	356.00	386.56#
57.00	28.50	28.63
0.00	0.00	0.00

Wrong Peak
6/1/10
CMK

HB 6/1/10

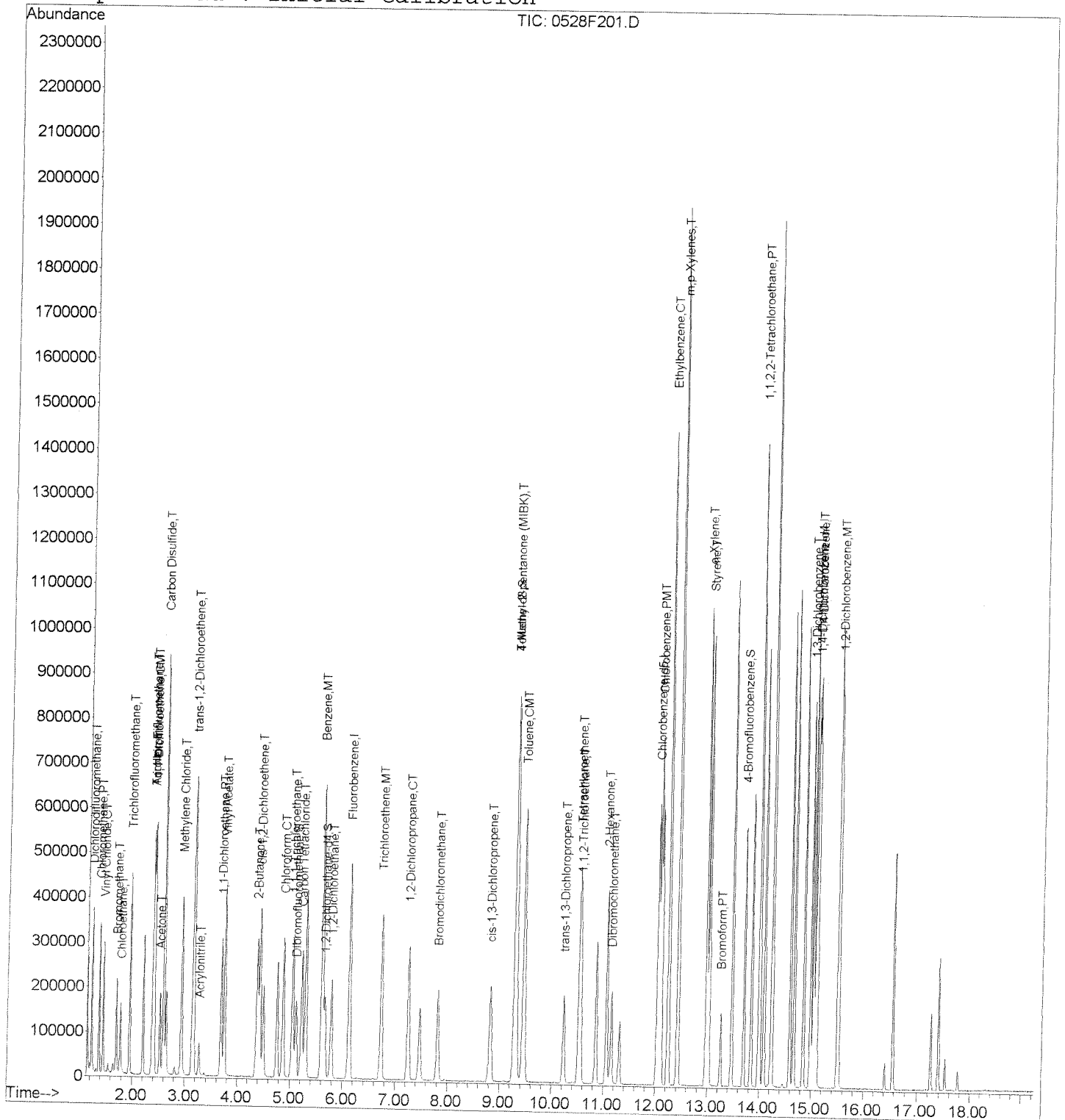
Quantitation Report (QT Reviewed)

Data File : J:\MS13\DATA\052810-624\0528F201.D
 Acq On : 29 May 2010 2:45 am
 Sample : K4934-006 DMS (R)
 Misc :
 MS Integration Params: RTEINT.P
 Quant Time: May 29 3:05 2010

Vial: 11
 Operator: CMK
 Inst : MS13
 Multiplr: 1.00

Quant Results File: 020810MS13_6

Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
 Title : VOA MS13 EPA Method 8260B
 Last Update : Fri May 28 23:53:25 2010
 Response via : Initial Calibration



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Control Sample
 Lab Code: KWG1005071-3
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	15.4		5.0	0.23	1	05/28/10	05/28/10	KWG1005071	
Vinyl Chloride	15.9		5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Bromomethane	16.4		2.0	0.28	1	05/28/10	05/28/10	KWG1005071	
Chloroethane	18.3		5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Trichlorofluoromethane	17.5		5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethene	17.2		5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Methylene Chloride	16.4		5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
trans-1,2-Dichloroethene	16.9		5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,1-Dichloroethane	17.4		5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Chloroform	18.4		5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,1,1-Trichloroethane (TCA)	17.2		5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Carbon Tetrachloride	18.8		5.0	0.047	1	05/28/10	05/28/10	KWG1005071	
Benzene	17.7		5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloroethane (EDC)	20.1		5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
Trichloroethene (TCE)	17.4		5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichloropropane	17.4		5.0	0.17	1	05/28/10	05/28/10	KWG1005071	
Bromodichloromethane	17.9		5.0	0.12	1	05/28/10	05/28/10	KWG1005071	
2-Chloroethyl Vinyl Ether	20.2		10	0.29	1	05/28/10	05/28/10	KWG1005071	
trans-1,3-Dichloropropene	16.6		5.0	0.10	1	05/28/10	05/28/10	KWG1005071	
Toluene	17.6		5.0	0.18	1	05/28/10	05/28/10	KWG1005071	
cis-1,3-Dichloropropene	13.9		5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
1,1,2-Trichloroethane	17.2		5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
Tetrachloroethene (PCE)	15.5		5.0	0.14	1	05/28/10	05/28/10	KWG1005071	
Dibromochloromethane	16.1		5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
Chlorobenzene	16.2		5.0	0.098	1	05/28/10	05/28/10	KWG1005071	
Ethylbenzene	17.5		5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
Bromoform	15.9		5.0	0.37	1	05/28/10	05/28/10	KWG1005071	
1,1,2,2-Tetrachloroethane	18.8		5.0	0.11	1	05/28/10	05/28/10	KWG1005071	
1,3-Dichlorobenzene	18.3		5.0	0.16	1	05/28/10	05/28/10	KWG1005071	
1,4-Dichlorobenzene	18.2		5.0	0.15	1	05/28/10	05/28/10	KWG1005071	
1,2-Dichlorobenzene	17.9		5.0	0.13	1	05/28/10	05/28/10	KWG1005071	
Acrolein†	114		50	3.3	1	05/28/10	05/28/10	KWG1005071	
Acrylonitrile†	19.7		10	0.61	1	05/28/10	05/28/10	KWG1005071	
m,p-Xylenes	34.9		2.0	0.26	1	05/28/10	05/28/10	KWG1005071	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Water

Service Request: K1004934
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Control Sample
 Lab Code: KWG1005071-3
 Extraction Method: METHOD
 Analysis Method: 624

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	18.0		1.0	0.13	1	05/28/10	05/28/10	KWG1005071	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Toluene-d8	99	79-131	05/28/10	Acceptable
4-Bromofluorobenzene	93	82-122	05/28/10	Acceptable
Dibromofluoromethane	92	86-124	05/28/10	Acceptable

† Analyte Comments

Acrolein This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.
 Acrylonitrile This compound is unstable under normal conditions. As per EPA Method 624 guidelines, the reported value was an estimate.

Comments:

Exception Report

Data File: J:\MS13\DATA\052810-624\0528F114.D
Lab ID: KWG1005071-3
RunType: LCS
Matrix: WATER

Date Acquired: 05/28/2010 23:31
Date Quantitated: 05/28/2010 23:53
Batch ID: KWG1005070
Analysis Method: 624
MethodJoinID: MJ158

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Dichlorodifluoromethane	40.4	NA	40	NT

Primary Review: Com 5/28/10

Secondary Review: ITB 6-1-10

Quantitation Report

Bottle ID:	Tier:	Matrix:
Prod Code: 624 VOC_FP	Collect Date:	WATER
		Receive Date: 05/28/2010
Analysis Lot: KWG1005070	Prep Lot: KWG1005071	Report Group:
Analysis Method: 624	Prep Method: METHOD	
Prep Ref: 913246	Prep Date: 05/28/2010	
Quant Method: J:\MS13\METHODS\020810MS13_6	Calibration ID: CAL9204	
Title:	Method ID: MJ158	
Tune Ref: J:\MS13\DATA\052810-624\0528F106.D	Quant based on Method	
MB Ref: J:\MS13\DATA\052810-624\0528F108.D		
Data File: J:\MS13\DATA\052810-624\0528F114.D	Instrument: MS13	
Acqu Date: 05/28/2010 23:31	Quant Date: 05/28/2010 23:53	Vial: 10
Run Type: LCS		Dilution: 1.0
Lab ID: KWG1005071-3		Soln Conc. Units: PPB

Internal Standard Compounds

IS Ref	Parameter Name	RT	RT Dev	Quant Mass	Response	Solution Conc	Area Criteria
1	Fluorobenzene	6.12	0.00	96	601301	20.00	OK
2	Chlorobenzene-d5	12.04	0.00	82	237048	20.00	OK
3	1,4-Dichlorobenzene-d4	15.08	0.00	152	221353	20.00	OK

Surrogate Compounds

IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Rpt?
1	Dibromofluoromethane	5.11	-0.01	0.00	113	132841	18.41	92	86-124	OK
1	1,2-Dichloroethane-d4	5.66	0.00	0.00	65	168188	21.20	106	70-130	OK
1	Toluene-d8	9.30	0.00	0.00	98	580418	19.78	99	79-131	OK
2	4-Bromofluorobenzene	13.70	0.00	0.00	95	205537	18.61	93	82-122	OK

Target Compounds

							Final Conc. Units:				
							ug/L				
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	Final Conc	Q	Rpt?	
1	Dichlorodifluoromethane	1.22	-0.01	0.00	85	115638	15.17	15.2			
1	Chloromethane	1.37		0.00	50	146734	15.38	15.4			
1	Vinyl Chloride	1.44		0.00	62	130899	15.91	15.9			
1	Bromomethane	1.70		0.00	96	68664	16.35	16.4			
1	Chloroethane	1.78		0.00	49	22736	18.27	18.3			
1	Trichlorofluoromethane	1.95		0.00	101	205115	17.51	17.5			
1	Acrolein	2.39		0.00	56	73522	114.32	114			
1	Trichlorotrifluoroethane	2.38		0.00	151	104442	17.10	17.1			
1	1,1-Dichloroethene	2.41		0.00	96	104802	17.20	17.2			
1	Acetone	2.52		0.00	43	161808	95.71	95.7			
1	Carbon Disulfide	2.59		0.00	76	887220	35.41	35.4			
1	Methylene Chloride	2.93		0.00	84	135723	16.39	16.4			
1	Acrylonitrile	3.27		0.00	53	48532	19.67	19.7			
1	trans-1,2-Dichloroethene	3.16		0.00	96	130952	16.90	16.9			

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

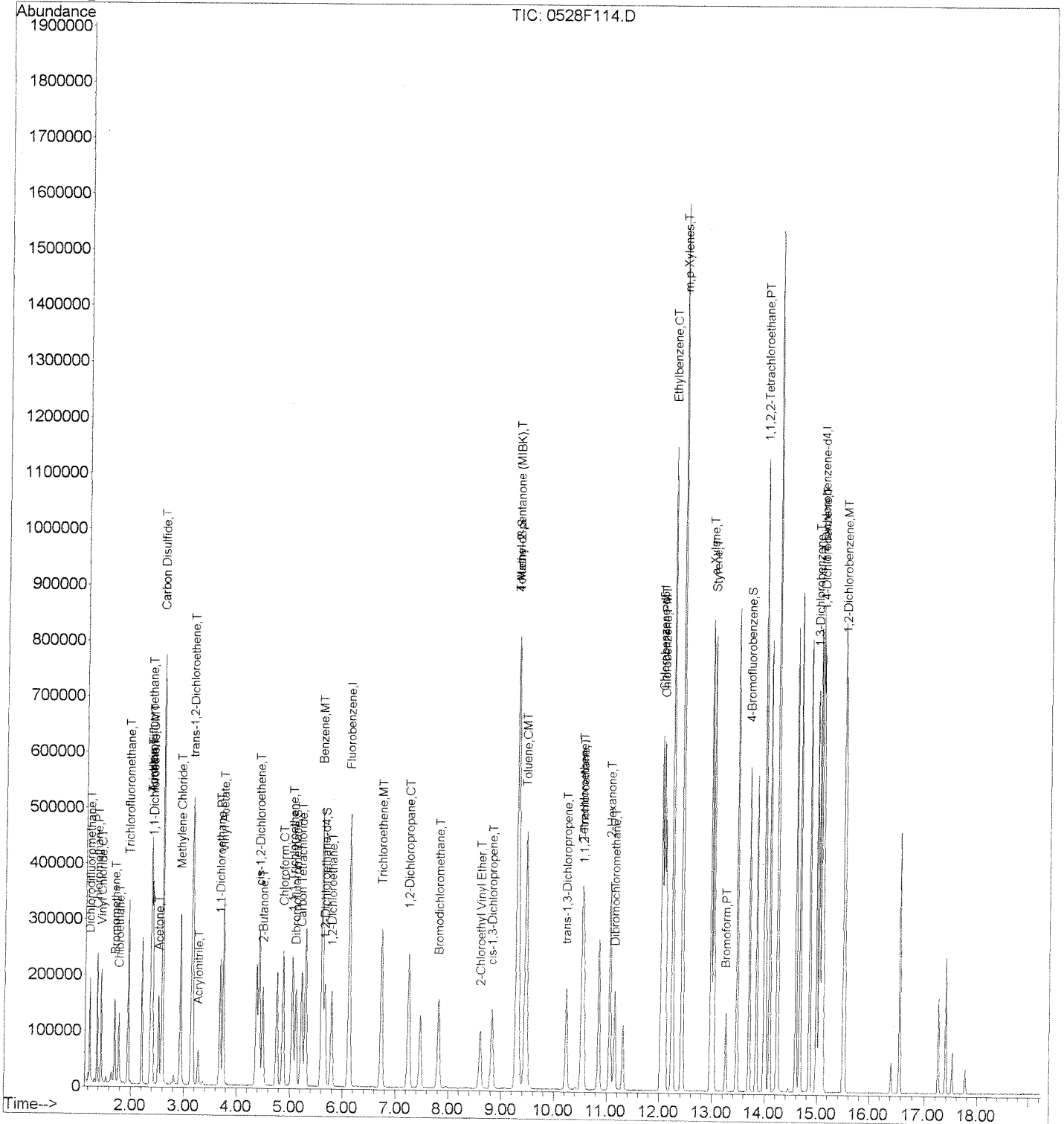
Quantitation Report (QT Reviewed)

Data File : J:\MS13\DATA\052810-624\0528F114.D
 Acq On : 28 May 2010 11:31 pm
 Sample : LCS
 Misc :
 MS Integration Params: RTEINT.P
 Quant Time: May 28 23:53 2010

Vial: 10
 Operator: CMK
 Inst : MS13
 Multiplr: 1.00

Quant Results File: 020810MS13_6

Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
 Title : VOA MS13 EPA Method 8260B
 Last Update : Fri May 28 23:53:25 2010
 Response via : Initial Calibration



Organic Analysis:
Volatile Organic Compounds

Validation Package

Standards Data

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
 Date Analyzed: 05/28/2010
 Time Analyzed: 19:43

Tune Summary
Volatile Organic Compounds

File ID: J:\MS13\DATA\052810-624\0528F106.D
 Instrument ID: MS13
 Column:

Analysis Method: 624
 Analysis Lot: KWG1005070

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.6	8693	PASS
75	95	30	60	47.1	24725	PASS
95	95	100	100	100.0	52458	PASS
96	95	5	9	6.6	3468	PASS
173	174	0	2	0.3	110	PASS
174	95	50	120	77.9	40869	PASS
175	174	5	9	5.3	2169	PASS
176	174	95	101	100.5	41093	PASS
177	176	5	9	6.4	2611	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	KWG1005070-2	J:\MS13\DATA\052810-624\0528F10	05/28/2010	20:19	
Method Blank	KWG1005071-4	J:\MS13\DATA\052810-624\0528F10	05/28/2010	20:46	
SW-2	K1004934-005	J:\MS13\DATA\052810-624\0528F10	05/28/2010	21:14	
SW-3	K1004934-006	J:\MS13\DATA\052810-624\0528F11	05/28/2010	21:41	
SW-9	K1004934-007	J:\MS13\DATA\052810-624\0528F11	05/28/2010	22:09	
FB-051410	K1004934-008	J:\MS13\DATA\052810-624\0528F11	05/28/2010	22:36	
Trip Blank	K1004934-009	J:\MS13\DATA\052810-624\0528F11	05/28/2010	23:04	
Lab Control Sample	KWG1005071-3	J:\MS13\DATA\052810-624\0528F11	05/28/2010	23:31	
SW-3MS	KWG1005071-1	J:\MS13\DATA\052810-624\0528F11	05/29/2010	01:50	
SW-3DMS	KWG1005071-2	J:\MS13\DATA\052810-624\0528F20	05/29/2010	02:45	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Exception Report

Data File: J:\MS13\DATA\052810-624\0528F106.D
Lab ID: KWG1005070-1
Run Type: TUNE
Matrix: WATER

Date Acquired: 05/28/2010 19:43
Date Quantitated:
Batch ID: KWG1005070
Analysis Method: 624
MethodJoinID: MJ158

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Ion Ratio	NA	NA	NA	x	

Primary Review: Amc 5/28/10
Secondary Review: HB6-170

Quantitation Report

Bottle ID: Prod Code: 624 VOC_FP	Tier: Collect Date:	Matrix: WATER Receive Date: 05/28/2010
Analysis Lot: KWG1005070 Analysis Method: BFB Prep Ref:	Prep Lot: Prep Method: Prep Date:	Report Group:
Quant Method: J:\MS13\METHODS\020810MS13_6 Title: GC/MS Tuning Evaluation Tune Ref: MB Ref:	Calibration ID: CAL9204 Report List ID: LJ774 Method ID: MJ159 Quant based on Report List	
Data File: J:\MS13\DATA\052810-624\0528F106.D Acqu Date: 05/28/2010 19:43 Run Type: TUNE Lab ID: KWG1005070-1	Quant Date:	Instrument: MS13 Vial: 2 Dilution: 1.0 Soln Conc. Units:

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.6	8693	Pass
75	95	30	60	47.1	24725	Pass
95	95	100	100	100.0	52458	Pass
96	95	5	9	6.6	3468	Pass
173	174	0	2	0.3	110	Pass
174	95	50	120	77.9	40869	Pass
175	174	5	9	5.3	2169	Pass
176	174	95	101	100.5	41093	Pass
177	176	5	9	6.4	2611	Pass

U: Undetected at or above MDL
 J: Analyte detected above MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

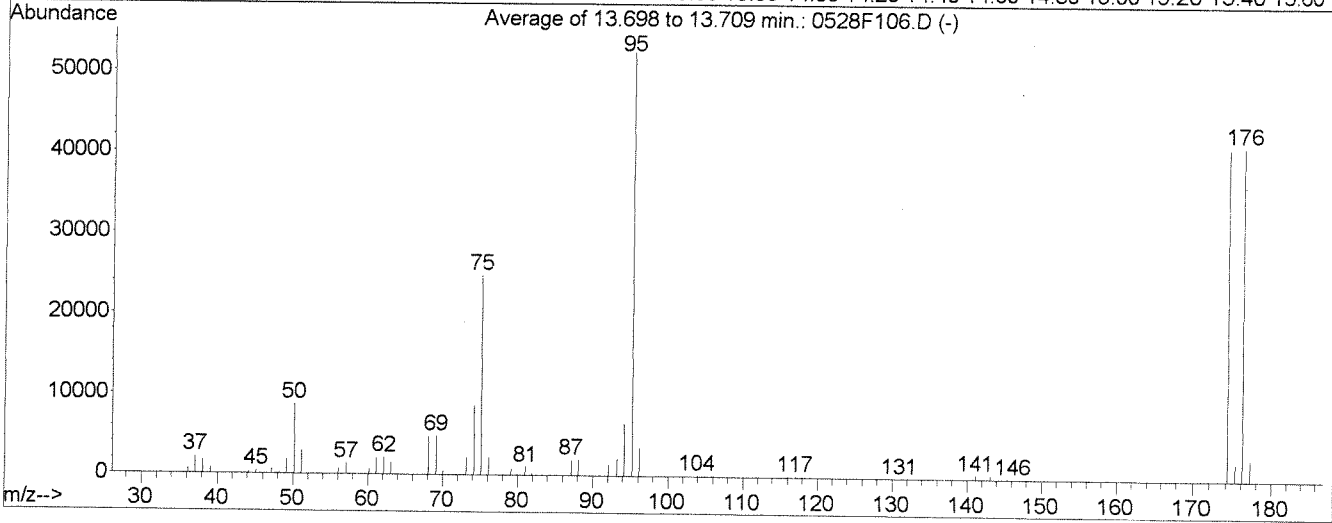
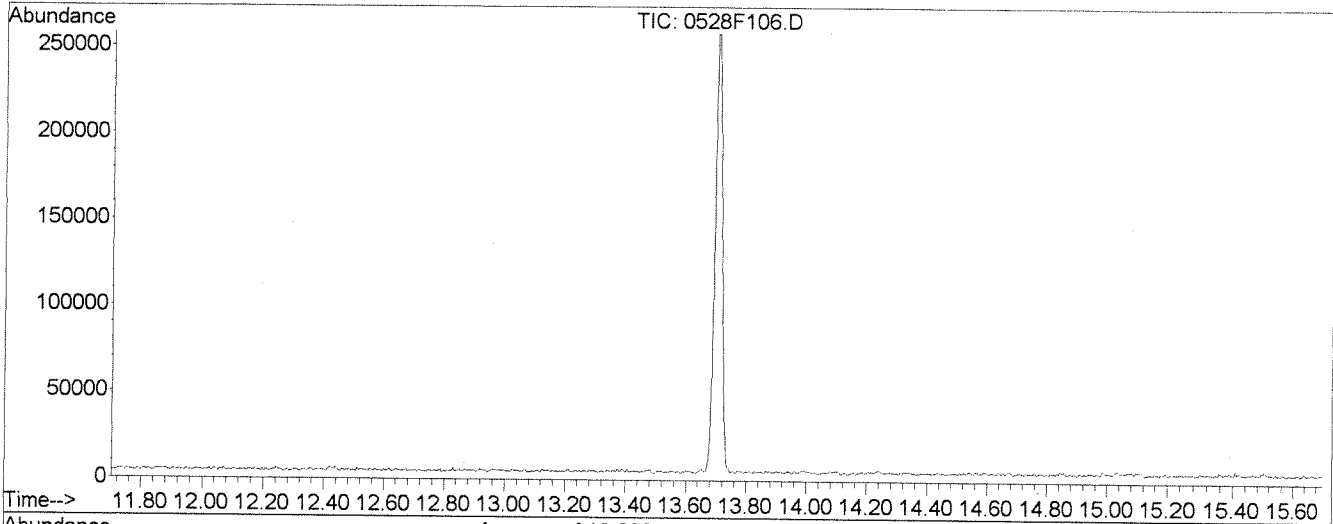
D: Result from dilution
 m: Manual integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

BFB

Data File : J:\MS13\DATA\052810-624\0528F106.D
 Acq On : 28 May 2010 7:43 pm
 Sample : 50NG BFB
 Misc :
 MS Integration Params: RTEINT.P
 Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
 Title : VOA MS13 EPA Method 8260B

Vial: 2
 Operator: CMK
 Inst : MS13
 Multiplr: 1.00



AutoFind: Scans 2403, 2404, 2405; Background Corrected with Scan 2394

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	8693	PASS
75	95	30	60	47.1	24725	PASS
95	95	100	100	100.0	52458	PASS
96	95	5	9	6.6	3468	PASS
173	174	0.00	2	0.3	110	PASS
174	95	50	120	77.9	40869	PASS
175	174	5	9	5.3	2169	PASS
176	174	95	101	100.5	41093	PASS
177	176	5	9	6.4	2611	PASS

CMK
 5/28/10

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
 Calibration Date: 02/08/2010

Initial Calibration Summary
 Volatile Organic Compounds

Calibration ID: CAL9204
 Instrument ID: MS13

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS13\DATA\020810_624\0208F005.D	F	J:\MS13\DATA\020810_624\0208F010.D
B	J:\MS13\DATA\020810_624\0208F006.D	G	J:\MS13\DATA\020810_624\0208F011.D
C	J:\MS13\DATA\020810_624\0208F007.D	H	J:\MS13\DATA\020810_624\0208F012.D
D	J:\MS13\DATA\020810_624\0208F008.D		
E	J:\MS13\DATA\020810_624\0208F009.D		

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF	ID	Amt	RRF
Chloromethane	A	0.50	0.416	B	1.0	0.309	C	2.5	0.287	D	5.0	0.289	E	20	0.323
	F	40	0.315	G	80	0.299	H	120	0.299						
Vinyl Chloride	A	0.50	0.311	B	1.0	0.268	C	2.5	0.233	D	5.0	0.242	E	20	0.296
	F	40	0.291	G	80	0.273	H	120	0.275						
Bromomethane	A	0.50	0.119	B	1.0	0.127	C	2.5	0.109	D	5.0	0.118	E	20	0.152
	F	40	0.160	G	80	0.163	H	120	0.168						
Chloroethane	A	0.50	0.0453	B	1.0	0.0329	C	2.5	0.0394	D	5.0	0.0381	E	20	0.0463
	F	40	0.0443	G	80	0.0426	H	120	0.0422						
Trichlorofluoromethane	A	0.50	0.470	B	1.0	0.388	C	2.5	0.333	D	5.0	0.348	E	20	0.408
	F	40	0.406	G	80	0.383	H	120	0.382						
1,1-Dichloroethene	A	0.50	0.214	B	1.0	0.206	C	2.5	0.171	D	5.0	0.182	E	20	0.218
	F	40	0.216	G	80	0.209	H	120	0.206						
Methylene Chloride	A	0.50	0.305	B	1.0	0.297	C	2.5	0.261	D	5.0	0.259	E	20	0.276
	F	40	0.275	G	80	0.266	H	120	0.265						
trans-1,2-Dichloroethene	A	0.50	0.266	B	1.0	0.253	C	2.5	0.223	D	5.0	0.244	E	20	0.276
	F	40	0.271	G	80	0.264	H	120	0.264						
1,1-Dichloroethane	A	0.50	0.448	B	1.0	0.423	C	2.5	0.374	D	5.0	0.372	E	20	0.441
	F	40	0.444	G	80	0.439	H	120	0.442						
Chloroform	A	0.50	0.420	B	1.0	0.424	C	2.5	0.406	D	5.0	0.402	E	20	0.448
	F	40	0.443	G	80	0.436	H	120	0.436						
1,1,1-Trichloroethane (TCA)	A	0.50	0.323	B	1.0	0.282	C	2.5	0.265	D	5.0	0.279	E	20	0.328
	F	40	0.337	G	80	0.334	H	120	0.342						
Carbon Tetrachloride	A	0.50	0.322	B	1.0	0.276	C	2.5	0.265	D	5.0	0.257	E	20	0.319
	F	40	0.325	G	80	0.313	H	120	0.316						
Benzene	A	0.50	1.09	B	1.0	0.999	C	2.5	0.942	D	5.0	0.991	E	20	1.15
	F	40	1.14	G	80	1.11	H	120	1.11						
1,2-Dichloroethane (EDC)	A	0.50	0.306	B	1.0	0.324	C	2.5	0.307	D	5.0	0.301	E	20	0.327
	F	40	0.318	G	80	0.313	H	120	0.309						
Trichloroethene (TCE)	A	0.50	0.288	B	1.0	0.267	C	2.5	0.233	D	5.0	0.239	E	20	0.279
	F	40	0.278	G	80	0.269	H	120	0.270						

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
Calibration Date: 02/08/2010

**Initial Calibration Summary
 Volatile Organic Compounds**

Calibration ID: CAL9204
Instrument ID: MS13

Column: MS

Analyte Name	Level ID			Level ID			Level ID			Level ID					
	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF			
1,2-Dichloropropane	A	0.50	0.256	B	1.0	0.246	C	2.5	0.227	D	5.0	0.233	E	20	0.263
	F	40	0.268	G	80	0.269	H	120	0.274						
Bromodichloromethane	A	0.50	0.310	B	1.0	0.304	C	2.5	0.295	D	5.0	0.297	E	20	0.333
	F	40	0.337	G	80	0.332	H	120	0.334						
2-Chloroethyl Vinyl Ether	A	0.50	0.112	B	1.0	0.106	C	2.5	0.106	D	5.0	0.112	E	20	0.133
	F	40	0.138	G	80	0.146	H	120	0.145						
trans-1,3-Dichloropropene	A	0.50	0.658	B	1.0	0.586	C	2.5	0.627	D	5.0	0.636	E	20	0.762
	F	40	0.808	G	80	0.848	H	120	0.860						
Toluene	A	0.50	0.699	B	1.0	0.635	C	2.5	0.596	D	5.0	0.643	E	20	0.729
	F	40	0.721	G	80	0.707	H	120	0.704						
cis-1,3-Dichloropropene	A	0.50	0.293	B	1.0	0.309	C	2.5	0.282	D	5.0	0.299	E	20	0.363
	F	40	0.371	G	80	0.390	H	120	0.398						
1,1,2-Trichloroethane	A	0.50	0.437	B	1.0	0.464	C	2.5	0.459	D	5.0	0.474	E	20	0.523
	F	40	0.506	G	80	0.501	H	120	0.497						
Tetrachloroethene (PCE)	A	0.50	0.584	B	1.0	0.556	C	2.5	0.534	D	5.0	0.506	E	20	0.633
	F	40	0.624	G	80	0.601	H	120	0.589						
Dibromochloromethane	A	0.50	0.597	B	1.0	0.644	C	2.5	0.620	D	5.0	0.598	E	20	0.678
	F	40	0.671	G	80	0.672	H	120	0.659						
Chlorobenzene	A	0.50	1.97	B	1.0	2.02	C	2.5	1.92	D	5.0	1.89	E	20	2.15
	F	40	2.14	G	80	2.07	H	120	2.05						
Ethylbenzene	A	0.50	0.797	B	1.0	0.897	C	2.5	0.879	D	5.0	0.937	E	20	1.15
	F	40	1.15	G	80	1.11	H	120	1.11						
Bromoform	A	0.50	0.345	B	1.0	0.367	C	2.5	0.362	D	5.0	0.382	E	20	0.407
	F	40	0.398	G	80	0.412	H	120	0.402						
1,1,2,2-Tetrachloroethane	A	0.50	0.648	B	1.0	0.635	C	2.5	0.618	D	5.0	0.630	E	20	0.655
	F	40	0.632	G	80	0.635	H	120	0.628						
1,3-Dichlorobenzene	A	0.50	1.39	B	1.0	1.34	C	2.5	1.33	D	5.0	1.34	E	20	1.57
	F	40	1.54	G	80	1.51	H	120	1.55						
1,4-Dichlorobenzene	A	0.50	1.47	B	1.0	1.50	C	2.5	1.40	D	5.0	1.43	E	20	1.62
	F	40	1.58	G	80	1.55	H	120	1.57						
1,2-Dichlorobenzene	A	0.50	1.30	B	1.0	1.33	C	2.5	1.30	D	5.0	1.29	E	20	1.47
	F	40	1.44	G	80	1.43	H	120	1.43						
Acrolein	A	10	0.0222	B	20	0.0225	C	50	0.0209	D	100	0.0218	E	400	0.0211
	F	800	0.0208	G	1600	0.0212	H	2400	0.0206						
Acrylonitrile	A	1.0	0.0677	B	2.0	0.0843	C	5.0	0.0805	D	10	0.0849	E	40	0.0855
	F	80	0.0846	G	160	0.0855	H	240	0.0834						

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

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 Instrument ID: MS13

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Analyte Name	Level ID			Level ID			Level ID			Level ID			Level ID		
	Amt	RRF		Amt	RRF		Amt	RRF		Amt	RRF		Amt	RRF	
Toluene-d8	4.0	0.898	A	6.0	0.871	B	8.0	0.968	C	10	0.992	D	20	1.03	E
	40	1.04	F	50	0.998	G	60	1.01	H						
4-Bromofluorobenzene	4.0	0.839	A	6.0	0.853	B	8.0	0.949	C	10	0.966	D	20	1.00	E
	40	0.974	F	50	0.941	G	60	0.933	H						
Dibromofluoromethane	4.0	0.240	A	6.0	0.230	B	8.0	0.243	C	10	0.244	D	20	0.249	E
	40	0.241	F	50	0.236	G	60	0.237	H						
m,p-Xylenes	1.0	1.09	A	2.0	1.07	B	5.0	1.07	C	10	1.15	D	40	1.40	E
	80	1.40	F	160	1.37	G	240	1.35	H						
o-Xylene	0.50	1.03	A	1.0	0.988	B	2.5	0.960	C	5.0	1.07	D	20	1.32	E
	40	1.33	F	80	1.30	G	120	1.30	H						

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Service Request: K1004934
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Initial Calibration Summary
 Volatile Organic Compounds

Calibration ID: CAL9204
 Instrument ID: MS13

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Chloromethane	TRG	AverageRF	% RSD	13.1		≤ 35	0.317		0.01
Vinyl Chloride	TRG	AverageRF	% RSD	9.6		≤ 35	0.274		0.01
Bromomethane	TRG	AverageRF	% RSD	17.0		≤ 35	0.140		0.01
Chloroethane	TRG	AverageRF	% RSD	10.7		≤ 35	0.0414		0.01
Trichlorofluoromethane	TRG	AverageRF	% RSD	10.7		≤ 35	0.390		0.01
1,1-Dichloroethene	MS	AverageRF	% RSD	8.4		≤ 35	0.203		0.01
Methylene Chloride	TRG	AverageRF	% RSD	6.1		≤ 35	0.275		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	6.7		≤ 35	0.258		0.01
1,1-Dichloroethane	TRG	AverageRF	% RSD	7.5		≤ 35	0.423		0.01
Chloroform	TRG	AverageRF	% RSD	3.9		≤ 35	0.427		0.01
1,1,1-Trichloroethane (TCA)	TRG	AverageRF	% RSD	9.9		≤ 35	0.311		0.01
Carbon Tetrachloride	TRG	AverageRF	% RSD	9.4		≤ 35	0.299		0.01
Benzene	MS	AverageRF	% RSD	7.3		≤ 35	1.07		0.01
1,2-Dichloroethane (EDC)	TRG	AverageRF	% RSD	2.9		≤ 35	0.313		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	7.3		≤ 35	0.265		0.01
1,2-Dichloropropane	TRG	AverageRF	% RSD	6.8		≤ 35	0.254		0.01
Bromodichloromethane	TRG	AverageRF	% RSD	5.7		≤ 35	0.318		0.01
2-Chloroethyl Vinyl Ether	TRG	AverageRF	% RSD	14.2		≤ 35	0.125		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	15.1		≤ 35	0.723		0.01
Toluene	MS	AverageRF	% RSD	7.1		≤ 35	0.679		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	13.9		≤ 35	0.338		0.01
1,1,2-Trichloroethane	TRG	AverageRF	% RSD	6.0		≤ 35	0.483		0.01
Tetrachloroethene (PCE)	TRG	AverageRF	% RSD	7.5		≤ 35	0.578		0.01
Dibromochloromethane	TRG	AverageRF	% RSD	5.2		≤ 35	0.642		0.01
Chlorobenzene	MS	AverageRF	% RSD	4.8		≤ 35	2.02		0.01
Ethylbenzene	TRG	AverageRF	% RSD	14.1		≤ 35	1.00		0.01
Bromoform	TRG	AverageRF	% RSD	6.3		≤ 35	0.384		0.01
1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	1.8		≤ 35	0.635		0.01
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	7.2		≤ 35	1.45		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	5.3		≤ 35	1.51		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	5.4		≤ 35	1.37		0.01
Acrolein	TRG	AverageRF	% RSD	3.3		≤ 35	0.0214		0.01
Acrylonitrile	TRG	AverageRF	% RSD	7.3		≤ 35	0.0821		0.01
Toluene-d8	SURR	AverageRF	% RSD	6.3		≤ 35	0.976		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	6.2		≤ 35	0.932		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	2.5		≤ 35	0.240		0.01
m,p-Xylenes	TRG	AverageRF	% RSD	12.6		≤ 35	1.24		0.01
o-Xylene	TRG	AverageRF	% RSD	14.1		≤ 35	1.16		0.01

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601

Service Request: K1004934
 Calibration Date: 02/08/2010
 Date Analyzed: 02/08/2010

Second Source Calibration Verification
 Volatile Organic Compounds

Calibration Type: Internal Standard
 Analysis Method: 624

Calibration ID: CAL9204
 Units: PPB

File ID: J:\MS13\DATA\020810_624\0208F015.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	20	23	0.317	0.369	16	NA	± 104 %	AverageRF
Vinyl Chloride	20	24	0.274	0.335	22	NA	± 96 %	AverageRF
Bromomethane	20	24	0.140	0.164	18	NA	± 86 %	AverageRF
Chloroethane	20	23	0.0414	0.0468	13	NA	± 62 %	AverageRF
Trichlorofluoromethane	20	19	0.390	0.371	-5	NA	± 52 %	AverageRF
1,1-Dichloroethene	20	22	0.203	0.224	11	NA	± 49 %	AverageRF
Methylene Chloride	20	22	0.275	0.302	10	NA	± 39 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.258	0.263	2	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.423	0.424	0	NA	± 27 %	AverageRF
Chloroform	20	21	0.427	0.439	3	NA	± 32 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.311	0.322	4	NA	± 25 %	AverageRF
Carbon Tetrachloride	20	20	0.299	0.303	1	NA	± 27 %	AverageRF
Benzene	20	21	1.07	1.12	5	NA	± 36 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.313	0.310	-1	NA	± 32 %	AverageRF
Trichloroethene (TCE)	20	20	0.265	0.264	0	NA	± 33 %	AverageRF
1,2-Dichloropropane	20	20	0.254	0.255	0	NA	± 66 %	AverageRF
Bromodichloromethane	20	20	0.318	0.315	-1	NA	± 34 %	AverageRF
2-Chloroethyl Vinyl Ether	20	20	0.125	0.126	1	NA	± 124 %	AverageRF
trans-1,3-Dichloropropene	20	22	0.723	0.788	9	NA	± 50 %	AverageRF
Toluene	20	21	0.679	0.700	3	NA	± 25 %	AverageRF
cis-1,3-Dichloropropene	20	17	0.338	0.287	-15	NA	± 76 %	AverageRF
1,1,2-Trichloroethane	20	20	0.483	0.490	1	NA	± 29 %	AverageRF
Tetrachloroethene (PCE)	20	20	0.578	0.589	2	NA	± 26 %	AverageRF
Dibromochloromethane	20	19	0.642	0.619	-4	NA	± 32 %	AverageRF
Chlorobenzene	20	20	2.02	2.07	2	NA	± 34 %	AverageRF
Ethylbenzene	20	21	1.00	1.08	7	NA	± 41 %	AverageRF
Bromoform	20	21	0.384	0.395	3	NA	± 29 %	AverageRF
1,1,2,2-Tetrachloroethane	20	19	0.635	0.593	-7	NA	± 39 %	AverageRF
1,3-Dichlorobenzene	20	21	1.45	1.54	6	NA	± 27 %	AverageRF
1,4-Dichlorobenzene	20	21	1.51	1.57	3	NA	± 37 %	AverageRF
1,2-Dichlorobenzene	20	20	1.37	1.40	2	NA	± 37 %	AverageRF
Acrolein	100	150	0.0214	0.0324	51	NA	± 80 %	AverageRF
Acrylonitrile	20	18	0.0821	0.0756	-8	NA	± 40 %	AverageRF
m,p-Xylenes	40	43	1.24	1.33	8	NA	± 40 %	AverageRF
o-Xylene	20	23	1.16	1.31	13	NA	± 40 %	AverageRF

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Date: 2/8/10

Columbia Analytical Services, Inc. Tune File: BFB1.U

By: CMK

Injection Log

New Tune: NO

IS/SS Std. ID: 5500A-38D

MS13 - Agilent 5973

RUN #: NA

CCV Std ID: NA

ICAL Date: (New) 2/8/10 #9204

MS/DMS/LCS/ICV Std ID: See Prep Sheet

Second RV: 2/9/10

BFB Std. ID: 5500A-34B

LIMS ID: NA

	Sample Name	File Name	Method	Dilution	pH	R	Comments
1	IB	0208F001	8260L05				
2	50 NG BFB		2	9.8u/44uL			
3	IB		3				I.S. only: 5500A-42D
4	IB		4				
5	0.5 ppb ICAL		5	See Prep Sheet			
6	1.0		6				
7	2.5		7				
8	5.0		8				
9	20		9				
10	40		10				
11	80		11				
12	120		12				
13	IB		13				
14	IB		14				
15	ICV		15	See Prep Sheet			
16	ICV		16				(NR)
17	IB x4		17-20				
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							

CMK 2/9/10

Date 2/3/10 Analysis: 624
 Prepared By CMH Instrument: MS13
 Matrix: Water

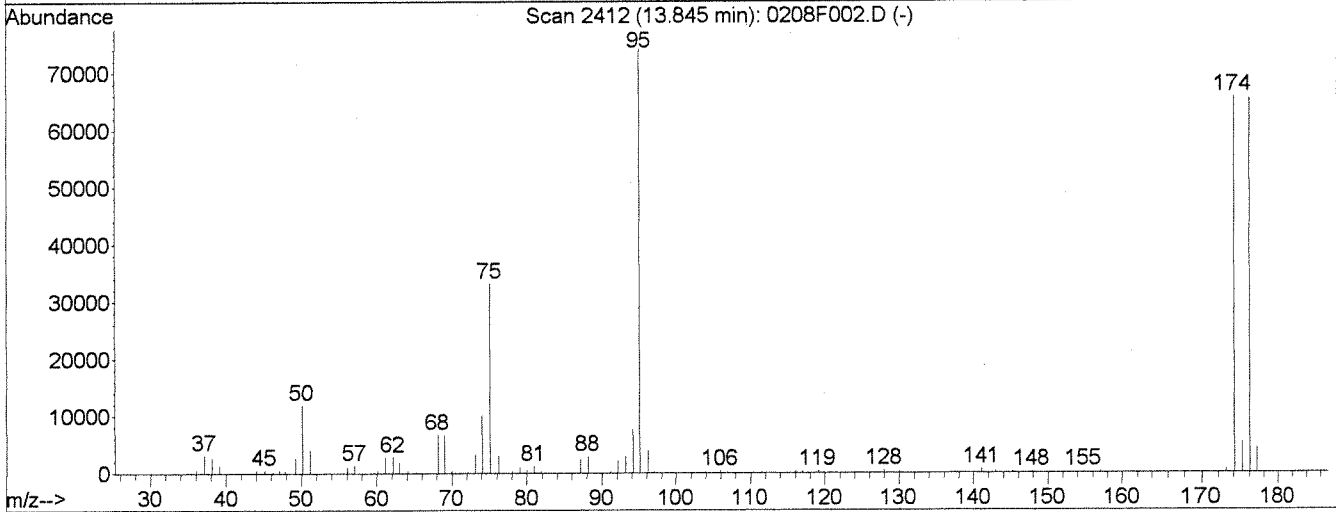
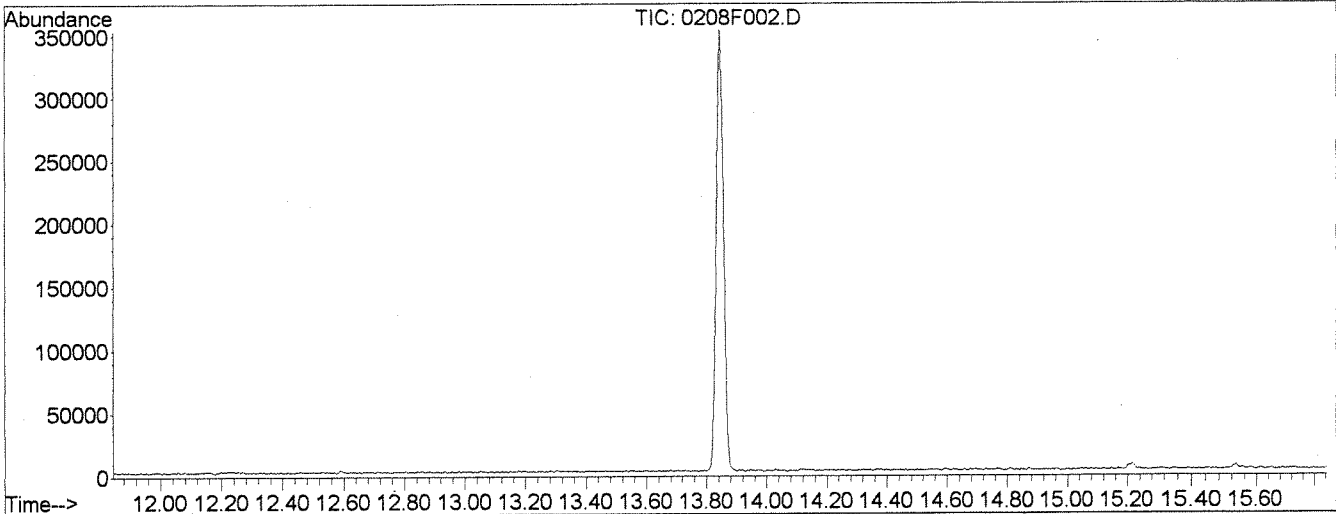
Stock Solution #1 5500A-49E Analytes: Surrogates 'Initial Conc: 100ppm
 Stock Solution #2 1-47D Analytes: 624 'Initial Conc: 50/100/200/1000ppm
 Stock Solution #3 1-58C 'Analytes: Ketones 'Initial Conc: 2000ppm

Aliquot of Stock Solution #1 (µL)	Final Conc. of #1 (µg/L)	Aliquot of Stock Solution #2 (µL)	Final Conc. of #2 (µg/L)	Aliquot of Stock Solution #3 (µL)	Final Conc. of #3 (µg/L)	Final Volume (mL)	Notes
2.0	4.0	0.5	0.5/1.0/2.0/10	0.5	20	50	Level ID: 1
3.0	6.0	1	1.0/2.0/4.0/20	1	40	50	Level ID: 2
4.0	8.0	2.5	2.5/5.0/10/50	2.5	100	50	Level ID: 3
5.0	10	5	5.0/10/20/100	5	200	50	Level ID: 4
10	20	20	20/40/80/400	10	400	50	Level ID: 5
20	40	40	40/80/160/800	20	800	50	Level ID: 6
25	50	80	80/160/320/1600	40	1600	50	Level ID: 7
30	60	120	120/320/640/3200	60	2400	50	Level ID: 8

624 ICV: 20µL of 50/250ppm Accustd ICV (5500A-49E) + 50µL of 100ppm Acrolein ICV (5500A-48C)

Data File : J:\MS13\DATA\020810_624\0208F002.D
 Acq On : 8 Feb 2010 2:13 pm
 Sample : 50NG BFB
 Misc :
 MS Integration Params: RTEINT.P
 Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
 Title : VOA MS13 EPA Method 8260B

Vial: 2
 Operator: CMK
 Inst : MS13
 Multiplr: 1.00



Spectrum Information: Scan 2412 *Apex - scan 2400* *run 2/8/10*

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	11921	PASS
75	95	30	60	44.8	33216	PASS
95	95	100	100	100.0	74088	PASS
96	95	5	9	5.4	3996	PASS
173	174	0.00	2	0.9	599	PASS
174	95	50	120	88.4	65520	PASS
175	174	5	9	8.1	5285	PASS
176	174	95	101	99.4	65136	PASS
177	176	5	9	6.5	4235	PASS

Kr
2/8/10

Data File : J:\MS13\DATA\020810_624\0208F004.D
 Acq On : 8 Feb 2010 3:08 pm
 Sample : IB
 Misc :
 MS Integration Params: RTEINT.P
 Quant Time: Feb 08 20:05:47 2010

Vial: 4
 Operator: CMK
 Inst : MS13
 Multiplr: 1.00

Quant Results File: 020810MS13_624.

Quant Method : J:\MS13\METHODS\020810MS13_624.M (RTE Integrator)
 Title : VOA MS13 EPA Method 8260B
 Last Update : Mon Feb 08 20:05:04 2010
 Response via : Initial Calibration
 DataAcq Meth : 8260W5

Ann 2/9/10

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.36	96	689219	20.00	PPB	0.00
35) Chlorobenzene-d5	12.21	82	261661	20.00	PPB	0.00
48) 1,4-Dichlorobenzene-d4	15.21	152	259405	20.00	PPB	0.00
System Monitoring Compounds						
22) Dibromofluoromethane	0.00	113	0	0.00	PPB	
Spiked Amount	20.000		Recovery	=	0.00%	
24) 1,2-Dichloroethane-d4	0.00	65	0	0.00	PPB	
Spiked Amount	20.000		Recovery	=	0.00%	
33) Toluene-d8	9.61	98	3904	0.12	PPB	0.00
Spiked Amount	20.000		Recovery	=	0.60%	
47) 4-Bromofluorobenzene	13.85	95	2558	0.21	PPB	0.00
Spiked Amount	20.000		Recovery	=	1.05%	
Target Compounds						Qvalue
11) Acetone	2.65	43	1708	0.88	PPB	85
12) Carbon Disulfide	2.72	76	630	0.02	PPB	79
13) Methylene Chloride	3.08	84	1563	0.16	PPB	# 63
34) Toluene	9.74	92	1761m	0.08	PPB	

KM