

Metals

Columbia Analytical Services

- Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent
Project Name: Heglur Kronquist
Project No.: 0907194.000.0601

Service Request: K1004744

<u>Sample Name:</u>	<u>Lab Code:</u>
<u>BH-5</u>	<u>K1004744-001 DISS</u>
<u>BH-5D</u>	<u>K1004744-001D DISS</u>
<u>BH-5S</u>	<u>K1004744-001S DISS</u>
<u>BH-4</u>	<u>K1004744-002 DISS</u>
<u>EB-051110</u>	<u>K1004744-003 DISS</u>
<u>BH-3</u>	<u>K1004744-004 DISS</u>
<u>Method Blank</u>	<u>K1004744-MB</u>
<u>Batch QCD</u>	<u>K1004813-003D</u>
<u>Batch QCS</u>	<u>K1004813-003S</u>

Comments:

Approved By: 3C

Date: 6/3/10

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INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004744
 Project No.: 0907194.000.0601 Date Collected: 5/10/2010
 Project Name: Heglar Kronquist Date Received: 5/12/2010
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: BH-5 Lab Code: K1004744-001 DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/21/10	05/26/10	94		
Antimony	200.8	0.05	0.02	1.0	05/21/10	05/25/10	0.09		
Arsenic	200.8	0.50	0.07	1.0	05/21/10	05/25/10	0.91		
Barium	200.7	5.0	0.6	1.0	05/21/10	05/26/10	30.8		
Beryllium	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.008	J	
Cadmium	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.063		
Calcium	200.7	50.0	6.0	1.0	05/21/10	05/26/10	64900		
Chromium	200.8	0.20	0.04	1.0	05/21/10	05/25/10	1.02		
Cobalt	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.133		
Copper	200.8	0.10	0.02	1.0	05/21/10	05/25/10	0.62		
Iron	200.7	20.0	0.8	1.0	05/21/10	05/26/10	86.9		
Lead	200.8	0.020	0.005	1.0	05/21/10	05/25/10	0.063		
Magnesium	200.7	20.0	0.3	1.0	05/21/10	05/26/10	24700		
Manganese	200.7	5.0	0.2	1.0	05/21/10	05/26/10	1.2	J	
Mercury	245.1	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/21/10	05/25/10	1.05		
Potassium	200.7	400	40	1.0	05/21/10	05/26/10	3850		
Selenium	200.8	1.0	0.3	1.0	05/21/10	05/25/10	0.4	J	
Silver	200.8	0.020	0.004	1.0	05/21/10	05/25/10	0.004	U	
Sodium	200.7	100	20	1.0	05/21/10	05/26/10	23700		
Thallium	200.8	0.020	0.002	1.0	05/21/10	05/25/10	0.004	J	
Vanadium	200.8	0.20	0.03	1.0	05/21/10	05/25/10	8.13		
Zinc	200.8	0.50	0.20	1.0	05/21/10	05/25/10	1.11		

% Solids: 0.0

Comments:

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INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004744
 Project No.: 0907194.000.0601 Date Collected: 5/11/2010
 Project Name: Heglar Kronquist Date Received: 5/12/2010
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: BH-4 Lab Code: K1004744-002 DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/21/10	05/26/10	310		
Antimony	200.8	0.05	0.02	1.0	05/21/10	05/25/10	0.11		
Arsenic	200.8	0.50	0.07	1.0	05/21/10	05/25/10	0.55		
Barium	200.7	5.0	0.6	1.0	05/21/10	05/26/10	533		
Beryllium	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.013	J	
Cadmium	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.052		
Calcium	200.7	50.0	6.0	1.0	05/21/10	05/26/10	186000		
Chromium	200.8	0.20	0.04	1.0	05/21/10	05/25/10	0.66		
Cobalt	200.8	0.020	0.003	1.0	05/21/10	05/25/10	11.8		
Copper	200.8	0.10	0.02	1.0	05/21/10	05/25/10	1.49		
Iron	200.7	20.0	0.8	1.0	05/21/10	05/26/10	643		
Lead	200.8	0.020	0.005	1.0	05/21/10	05/25/10	0.103		
Magnesium	200.7	20.0	0.3	1.0	05/21/10	05/26/10	60100		
Manganese	200.7	5.0	0.2	1.0	05/21/10	05/26/10	402		
Mercury	245.1	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/21/10	05/25/10	8.40		
Potassium	200.7	400	40	1.0	05/21/10	05/26/10	43500		
Selenium	200.8	1.0	0.3	1.0	05/21/10	05/25/10	1.3		
Silver	200.8	0.020	0.004	1.0	05/21/10	05/25/10	0.007	J	
Sodium	200.7	1000	200	10.0	05/21/10	05/26/10	287000		
Thallium	200.8	0.020	0.002	1.0	05/21/10	05/25/10	0.033		
Vanadium	200.8	0.20	0.03	1.0	05/21/10	05/25/10	1.48		
Zinc	200.8	0.50	0.20	1.0	05/21/10	05/25/10	11.0		

% Solids: 0.0

Comments:

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INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004744
 Project No.: 0907194.000.0601 Date Collected: 5/11/2010
 Project Name: Heglar Kronquist Date Received: 5/12/2010
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: EB-051110 Lab Code: K1004744-003 DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/21/10	05/26/10	30	U	
Antimony	200.8	0.05	0.02	1.0	05/21/10	05/25/10	0.02	U	
Arsenic	200.8	0.50	0.07	1.0	05/21/10	05/25/10	0.07	U	
Barium	200.7	5.0	0.6	1.0	05/21/10	05/26/10	0.6	U	
Beryllium	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.003	U	
Cadmium	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.011	J	
Calcium	200.7	50.0	6.0	1.0	05/21/10	05/26/10	40.3	J	
Chromium	200.8	0.20	0.04	1.0	05/21/10	05/25/10	0.26		
Cobalt	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.011	J	
Copper	200.8	0.10	0.02	1.0	05/21/10	05/25/10	0.26		
Iron	200.7	20.0	0.8	1.0	05/21/10	05/26/10	12.8	J	
Lead	200.8	0.020	0.005	1.0	05/21/10	05/25/10	0.005	U	
Magnesium	200.7	20.0	0.3	1.0	05/21/10	05/26/10	9.7	J	
Manganese	200.7	5.0	0.2	1.0	05/21/10	05/26/10	0.5	J	
Mercury	245.1	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/21/10	05/25/10	0.15	J	
Potassium	200.7	400	40	1.0	05/21/10	05/26/10	47	J	
Selenium	200.8	1.0	0.3	1.0	05/21/10	05/25/10	0.3	U	
Silver	200.8	0.020	0.004	1.0	05/21/10	05/25/10	0.013	J	
Sodium	200.7	100	20	1.0	05/21/10	05/26/10	97	J	
Thallium	200.8	0.020	0.002	1.0	05/21/10	05/25/10	0.002	U	
Vanadium	200.8	0.20	0.03	1.0	05/21/10	05/25/10	0.04	J	
Zinc	200.8	0.50	0.20	1.0	05/21/10	05/25/10	2.10		

% Solids: 0.0

Comments:

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INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004744
 Project No.: 0907194.000.0601 Date Collected: 5/11/2010
 Project Name: Heglar Kronquist Date Received: 5/12/2010
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: BH-3 Lab Code: K1004744-004 DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/21/10	05/26/10	153		
Antimony	200.8	0.05	0.02	1.0	05/21/10	05/25/10	0.12		
Arsenic	200.8	0.50	0.07	1.0	05/21/10	05/25/10	0.52		
Barium	200.7	5.0	0.6	1.0	05/21/10	05/26/10	70.6		
Beryllium	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.010	J	
Cadmium	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.036		
Calcium	200.7	50.0	6.0	1.0	05/21/10	05/26/10	70500		
Chromium	200.8	0.20	0.04	1.0	05/21/10	05/25/10	0.70		
Cobalt	200.8	0.020	0.003	1.0	05/21/10	05/25/10	2.640		
Copper	200.8	0.10	0.02	1.0	05/21/10	05/25/10	13.6		
Iron	200.7	20.0	0.8	1.0	05/21/10	05/26/10	274		
Lead	200.8	0.020	0.005	1.0	05/21/10	05/25/10	0.121		
Magnesium	200.7	20.0	0.3	1.0	05/21/10	05/26/10	19000		
Manganese	200.7	5.0	0.2	1.0	05/21/10	05/26/10	221		
Mercury	245.1	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/21/10	05/25/10	5.50		
Potassium	200.7	400	40	1.0	05/21/10	05/26/10	9920		
Selenium	200.8	1.0	0.3	1.0	05/21/10	05/25/10	0.3	U	
Silver	200.8	0.020	0.004	1.0	05/21/10	05/25/10	0.004	U	
Sodium	200.7	100	20	1.0	05/21/10	05/26/10	56800		
Thallium	200.8	0.020	0.002	1.0	05/21/10	05/25/10	0.005	J	
Vanadium	200.8	0.20	0.03	1.0	05/21/10	05/25/10	1.28		
Zinc	200.8	0.50	0.20	1.0	05/21/10	05/25/10	4.82		

% Solids: 0.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004744
 Project No.: 0907194.000.0601 Date Collected:
 Project Name: Heglar Kronquist Date Received:
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: K1004744-MB Lab Code: K1004744-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/21/10	05/26/10	30	U	
Antimony	200.8	0.05	0.02	1.0	05/21/10	05/25/10	0.02	U	
Arsenic	200.8	0.50	0.07	1.0	05/21/10	05/25/10	0.07	U	
Barium	200.7	5.0	0.6	1.0	05/21/10	05/26/10	0.6	U	
Beryllium	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.003	U	
Cadmium	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.003	U	
Calcium	200.7	50.0	6.0	1.0	05/21/10	05/26/10	6.0	U	
Chromium	200.8	0.20	0.04	1.0	05/21/10	05/25/10	0.04	U	
Cobalt	200.8	0.020	0.003	1.0	05/21/10	05/25/10	0.003	U	
Copper	200.8	0.10	0.02	1.0	05/21/10	05/25/10	0.02	U	
Iron	200.7	20.0	0.8	1.0	05/21/10	05/26/10	0.8	U	
Lead	200.8	0.020	0.005	1.0	05/21/10	05/25/10	0.005	U	
Magnesium	200.7	20.0	0.3	1.0	05/21/10	05/26/10	0.3	U	
Manganese	200.7	5.0	0.2	1.0	05/21/10	05/26/10	0.2	U	
Mercury	245.1	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.03	1.0	05/21/10	05/25/10	0.03	U	
Potassium	200.7	400	40	1.0	05/21/10	05/26/10	40	U	
Selenium	200.8	1.0	0.3	1.0	05/21/10	05/25/10	0.3	U	
Silver	200.8	0.020	0.004	1.0	05/21/10	05/25/10	0.004	U	
Sodium	200.7	100	20	1.0	05/21/10	05/26/10	20	U	
Thallium	200.8	0.020	0.002	1.0	05/21/10	05/25/10	0.002	U	
Vanadium	200.8	0.20	0.03	1.0	05/21/10	05/25/10	0.03	U	
Zinc	200.8	0.50	0.20	1.0	05/21/10	05/25/10	0.20	U	

% Solids: 0.0

Comments:

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär 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	5026	101	5000	4972	99	5028	101	200.7
Antimony	25.0	23.9	96	25.0	25.1	100	25.1	100	200.8
Arsenic	25.0	23.9	96	25.0	24.8	99	24.3	97	200.8
Barium	5000	5240	105	2500	2493	100	2491	100	200.7
Beryllium	2.5	2.7	108	25.0	25.6	102	25.7	103	200.8
Cadmium	12.5	12.4	99	25.0	25.0	100	24.8	99	200.8
Calcium	5000	5124	102	2500	2457	98	2400	96	200.7
Calcium	12500	12572	101	25000	25355	101	25669	103	200.7
Chromium	10.0	9.7	97	25.0	24.6	98	24.8	99	200.8
Cobalt	25.0	24.6	98	25.0	25.3	101	25.4	102	200.8
Copper	12.5	12.2	98	25.0	24.9	100	24.9	100	200.8
Iron	2500	2508	100	500	490	98	499	100	200.7
Iron	10000	9883	99	25000	24836	99	25195	101	200.7
Lead	25.0	24.3	97	25.0	24.7	99	24.7	99	200.8
Magnesium	5000	5021	100	2000	1980	99	1964	98	200.7
Magnesium	12500	12464	100	25000	25038	100	24961	100	200.7
Manganese	1250	1210	97	1000	960	96	966	97	200.7
Manganese	10000	10051	101	5000	4964	99	4925	98	200.7
Mercury	5.00	4.84	97	5.00	4.85	97	5.01	100	245.1
Nickel	25.0	24.3	97	25.0	24.8	99	24.7	99	200.8
Potassium	12500	12620	101	10000	9995	100	9906	99	200.7
Selenium	25.0	24.2	97	25.0	24.6	98	24.8	99	200.8
Silver	12.5	12.5	100	25.0	24.8	99	24.6	98	200.8
Sodium	12500	12259	98	10000	9738	97	9805	98	200.7
Thallium	25.0	24.5	98	25.0	24.8	99	24.9	100	200.8
Vanadium	25.0	24.7	99	25.0	25.0	100	24.9	100	200.8
Zinc	25.0	25.6	102	25.0	25.0	100	24.8	99	200.8

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004744

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	5032	101	5006	100	200.7
Antimony				25.0	25.2	101	25.3	101	200.8
Arsenic				25.0	24.7	99	25.1	100	200.8
Barium				2500	2491	100	2515	101	200.7
Beryllium				25.0	27.3	109	27.1	108	200.8
Cadmium				25.0	25.2	101	25.3	101	200.8
Calcium				2500	2425	97	2462	98	200.7
Calcium				25000	25335	101	25531	102	200.7
Chromium				25.0	24.9	100	25.5	102	200.8
Cobalt				25.0	24.9	100	25.4	102	200.8
Copper				25.0	24.5	98	24.8	99	200.8
Iron				500	504	101	510	102	200.7
Iron				25000	25133	101	25246	101	200.7
Lead				25.0	24.8	99	25.0	100	200.8
Magnesium				2000	1980	99	1979	99	200.7
Magnesium				25000	25119	100	25143	101	200.7
Manganese				1000	963	96	968	97	200.7
Manganese				5000	4957	99	4966	99	200.7
Mercury				5.00	4.96	99			245.1
Nickel				25.0	24.6	98	25.2	101	200.8
Potassium				10000	9956	100	9917	99	200.7
Selenium				25.0	24.0	96	24.6	98	200.8
Silver				25.0	24.7	99	24.7	99	200.8
Sodium				10000	9780	98	9831	98	200.7
Thallium				25.0	25.0	100	25.1	100	200.8
Vanadium				25.0	25.1	100	25.5	102	200.8
Zinc				25.0	24.7	99	24.9	100	200.8

METALS

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004744

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	5007	100	5033	101	200.7
Antimony				25.0	25.0	100			200.8
Arsenic				25.0	24.3	97			200.8
Barium				2500	2500	100	2521	101	200.7
Beryllium				25.0	27.0	108			200.8
Cadmium				25.0	24.8	99			200.8
Calcium				2500	2448	98	2450	98	200.7
Calcium				25000	25375	102	25190	101	200.7
Chromium				25.0	25.0	100			200.8
Cobalt				25.0	25.2	101			200.8
Copper				25.0	24.4	98			200.8
Iron				500	516	103	519	104	200.7
Iron				25000	25358	101	25042	100	200.7
Lead				25.0	24.9	100			200.8
Magnesium				2000	1987	99	1990	100	200.7
Magnesium				25000	25212	101	25361	101	200.7
Manganese				1000	978	98	968	97	200.7
Manganese				5000	4968	99	4999	100	200.7
Nickel				25.0	24.7	99			200.8
Potassium				10000	9959	100	10024	100	200.7
Selenium				25.0	24.3	97			200.8
Silver				25.0	24.6	98			200.8
Sodium				10000	9966	100	9974	100	200.7
Thallium				25.0	25.0	100			200.8
Vanadium				25.0	25.3	101			200.8
Zinc				25.0	25.0	100			200.8

METALS

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

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Project No.: 0907194.000.0601

Project Name: Heglär 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	5009	100	5085	102	200.7
Barium				2500	2521	101	2553	102	200.7
Calcium				2500	2440	98	2429	97	200.7
Calcium				25000	25637	103	25453	102	200.7
Iron				500	521	104	521	104	200.7
Iron				25000	25646	103	25345	101	200.7
Magnesium				2000	1984	99	1982	99	200.7
Magnesium				25000	25196	101	25417	102	200.7
Manganese				1000	982	98	989	99	200.7
Manganese				5000	4973	99	5065	101	200.7
Potassium				10000	9933	99	10150	102	200.7
Sodium				10000	9983	100	10077	101	200.7

METALS

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär 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	5129	103	5122	102	200.7
Barium				2500	2564	103	2611	104	200.7
Calcium				2500	2515	101	2559	102	200.7
Calcium				25000	25509	102	25805	103	200.7
Iron				500	528	106	536	107	200.7
Iron				25000	25404	102	25649	103	200.7
Magnesium				2000	2018	101	2047	102	200.7
Magnesium				25000	25660	103	25770	103	200.7
Manganese				1000	983	98	997	100	200.7
Manganese				5000	5083	102	5195	104	200.7
Potassium				10000	10267	103	10118	101	200.7
Sodium				10000	10154	102	10039	100	200.7

METALS

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Exponent
 Project No.: 0907194.000.0601
 Project Name: Heglär Kronquist

Service Request: K1004744

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	60.45	121		
Antimony				0.05	0.05	100		
Arsenic				0.50	0.56	112		
Barium				5.00	4.64	93		
Beryllium				0.020	0.023	115		
Cadmium				0.020	0.021	105		
Calcium				50.00	42.86	86		
Chromium				0.20	0.17	85		
Cobalt				0.020	0.024	120		
Copper				0.10	0.12	120		
Iron				20.00	20.42	102		
Lead				0.020	0.017	85		
Magnesium				20.00	17.37	87		
Manganese				5.00	4.69	94		
Mercury	0.20	0.19	95					
Nickel				0.20	0.23	115		
Potassium				400.00	406.92	102		
Selenium				1.0	1.1	110		
Silver				0.020	0.023	115		
Sodium				200.00	201.27	101		
Thallium				0.020	0.022	110		
Vanadium				0.20	0.20	100		
Zinc				0.50	0.56	112		

METALS

- 3 -

BLANKS

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär 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	0.6	U	0.6	U	200.7
Beryllium	0.003	U	0.003	U	0.003	J	0.009	J	200.8
Cadmium	0.003	J	0.004	J	0.003	J	0.009	J	200.8
Calcium	6.0	U	6.0	U	6.0	U	9.1	J	200.7
Chromium	-0.05	J	0.04	U	0.04	U	0.04	U	200.8
Cobalt	0.004	J	0.005	J	0.004	J	0.011	J	200.8
Copper	0.02	U	0.02	U	0.03	J	0.04	J	200.8
Iron	2.6	J	0.8	U	2.3	J	3.6	J	200.7
Lead	-0.006	J	0.005	U	0.005	U	0.005	U	200.8
Magnesium	0.3	U	0.3	U	0.3	J	2.8	J	200.7
Manganese	1.0	J	0.7	J	0.8	J	0.8	J	200.7
Mercury	0.02	U	0.02	U	0.02	U	0.02	U	245.1
Nickel	0.03	U	0.03	U	0.03	U	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	0.015	J	0.009	J	0.014	J	0.019	J	200.8
Sodium	20	U	20	U	20	U	20	U	200.7
Thallium	0.003	J	0.003	J	0.003	J	0.007	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: K1004744

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	200.7
Antimony			0.020	U	0.020	U			200.8
Arsenic			0.07	U	0.07	U			200.8
Barium			0.6	U	0.6	U	0.6	U	200.7
Beryllium			0.006	J	0.010	J			200.8
Cadmium			0.012	J	0.011	J			200.8
Calcium			6.0	U	6.4	J	6.0	U	200.7
Chromium			0.04	U	0.04	U			200.8
Cobalt			0.008	J	0.007	J			200.8
Copper			0.05	J	0.04	J			200.8
Iron			3.6	J	3.9	J	4.7	J	200.7
Lead			0.006	J	0.007	J			200.8
Magnesium			3.0	J	3.6	J	4.1	J	200.7
Manganese			0.9	J	1.2	J	1.2	J	200.7
Nickel			0.04	J	0.03	U			200.8
Potassium			40	U	40	U	40	U	200.7
Selenium			0.3	U	0.3	U			200.8
Silver			0.013	J	0.016	J			200.8
Sodium			20	U	20	U	20	U	200.7
Thallium			0.007	J	0.008	J			200.8
Vanadium			0.03	U	0.03	U			200.8
Zinc			0.2	U	0.2	U			200.8

METALS

- 3 -

BLANKS

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär 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	200.7
Barium			0.6	J	0.6	U	0.6	U	200.7
Calcium			10.9	J	6.0	U	6.0	U	200.7
Iron			5.1	J	0.8	U	0.8	U	200.7
Magnesium			4.9	J	0.3	U	0.3	U	200.7
Manganese			1.6	J	0.2	U	0.2	U	200.7
Potassium			40	U	40	U	40	U	200.7
Sodium			20	U	20	U	20	U	200.7

METALS

- 3 -

BLANKS

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank	Continuing Calibration Blank						Method	
		C	1	C	2	C	3		C
Aluminum			30	U					200.7
Barium			0.6	U					200.7
Calcium			8.1	J					200.7
Iron			0.8	U					200.7
Magnesium			0.4	J					200.7
Manganese			0.3	J					200.7
Potassium			40	U					200.7
Sodium			20	U					200.7

METALS

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1004744

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	511472	509981.3	102.0			
Barium		500	0	472.8	94.6			
Calcium	500000	500000	488642	489449.2	97.9			
Iron	200000	200000	201055	198799.4	99.4			
Magnesium	500000	500000	513747	511088.0	102.2			
Manganese		500	4	459.8	92.0			
Potassium			-34	-45.2				
Sodium			82	64.5				

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

METALS

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-MS-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
Antimony			0.07	0.06				
Arsenic		25	0.08	25.7	103			
Beryllium			0.00	0.00				
Cadmium		25	0.07	24.6	98			
Chromium		50	0.34	51.6	103			
Cobalt		50	0.84	51.8	104			
Copper		50	0.87	45.7	91			
Lead			0.16	0.13				
Nickel		50	1.59	49.1	98			
Selenium		25	-0.07	25.0	100			
Silver	0.0	12.5	0.07	12.0	96			
Thallium			0.06	0.05				
Vanadium		50	0.06	53.0	106			
Zinc		25	4.16	26.7	107			

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

METALS

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar Kronquist

Basis: N/A

Matrix: WATER

% Solids: 0.0

Sample Name: BH-5S

Lab Code: K1004744-001S DISS

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Aluminum	70 - 130	1950	94	2000.00	92.8		200.7
Antimony	70 - 130	20.8	0.09	20.00	103.6		200.8
Arsenic	70 - 130	22.2	0.91	20.00	106.4		200.8
Barium	70 - 130	1950	30.8	2000.00	96.0		200.7
Beryllium	70 - 130	21.0	0.008 J	20.00	105.0		200.8
Cadmium	70 - 130	20.6	0.063	20.00	102.7		200.8
Chromium	70 - 130	19.8	1.02	20.00	93.9		200.8
Cobalt	70 - 130	19.3	0.133	20.00	95.8		200.8
Copper	70 - 130	19.0	0.62	20.00	91.9		200.8
Iron	70 - 130	1020	86.9	1000.00	93.3		200.7
Lead	70 - 130	18.8	0.063	20.00	93.7		200.8
Manganese	70 - 130	431	1.2 J	500.00	86.0		200.7
Nickel	70 - 130	19.4	1.05	20.00	91.8		200.8
Selenium	70 - 130	21.6	0.4 J	20.00	106.0		200.8
Silver	70 - 130	19.5	0.004 U	20.00	97.5		200.8
Thallium	70 - 130	19.2	0.004 J	20.00	96.0		200.8
Vanadium	70 - 130	27.3	8.13	20.00	95.8		200.8
Zinc	70 - 130	20.5	1.11	20.00	97.0		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: K1004744
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QCS

Lab Code: K1004813-003S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Mercury	70 - 130	0.99	0.02 U	1.00	99.0		245.1

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: K1004744

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar Kronquist

Basis: N/A

Matrix: WATER

Sample Name: Batch QCA

Lab Code: K1004813-003A

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Mercury	85 - 115	4.60	0.02 U	1.00	460		245.1

METALS

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004744
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: BH-5D Lab Code: K1004744-001D DISS

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		94		82		13.6		200.7
Antimony		0.09		0.10		10.5		200.8
Arsenic		0.91		0.97		6.4		200.8
Barium	20	30.8		32.2		4.4		200.7
Beryllium		0.008	J	0.013	J	47.6		200.8
Cadmium		0.063		0.052		19.1		200.8
Calcium	20	64900		66800		2.9		200.7
Chromium		1.02		0.92		10.3		200.8
Cobalt	20	0.133		0.128		3.8		200.8
Copper	20	0.62		0.63		1.6		200.8
Iron		86.9		90.5		4.1		200.7
Lead		0.063		0.065		3.1		200.8
Magnesium	20	24700		25300		2.4		200.7
Manganese		1.2	J	1.1	J	8.7		200.7
Nickel	20	1.05		1.05		0.0		200.8
Potassium	20	3850		3940		2.3		200.7
Selenium		0.4	J	0.4	J	0.0		200.8
Silver		0.004	U	0.004	U			200.8
Sodium	20	23700		24400		2.9		200.7
Thallium		0.004	J	0.003	J	28.6		200.8
Vanadium	20	8.13		7.98		1.9		200.8
Zinc		1.11		1.24		11.1		200.8

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

METALS

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004744
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: Batch QCD

Lab Code: K1004813-003D

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

- 7 -

LABORATORY CONTROL SAMPLE

Client: Exponent

Service Request: K1004744

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	5000	100.0					
Antimony	20	20.4	102.0					
Arsenic	20	19.6	98.0					
Barium	5000	5180	103.6					
Beryllium	20	21.4	107.0					
Cadmium	20	20.3	101.5					
Calcium	12500	12500	100.0					
Chromium	20	20.4	102.0					
Cobalt	20	20.2	101.0					
Copper	20	19.6	98.0					
Iron	2500	2530	101.2					
Lead	20	19.7	98.5					
Magnesium	12500	12600	100.8					
Manganese	1250	1280	102.4					
Mercury	5	5.06	101.2					
Nickel	20	19.9	99.5					
Potassium	12500	12600	100.8					
Selenium	20	19.5	97.5					
Silver	20	19.7	98.5					
Sodium	12500	12800	102.4					
Thallium	20	19.7	98.5					
Vanadium	20	20.3	101.5					
Zinc	20	20.1	100.5					

METALS

- 9 -

ICP SERIAL DILUTIONS

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Hegljar Kronquist

Sample Name: BH-5L

Lab Code: K1004744-001L DISS

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	M
Aluminum	93.87	150.00 U	100.0		P
Barium	30.84	29.75	3.5		P
Calcium	64921.52	65499.80	0.9		P
Iron	86.86	93.35 J	7.5		P
Magnesium	19861.41	24540.20	23.6	E	P
Manganese	1.16 J	1.70 J	46.6		P
Potassium	3852	3783	2		P
Sodium	23706.47	21816.70	8.0		P

METALS

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004744

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: K1004744

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: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #: K-CVAA-02

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: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär 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
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
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
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
Calcium	317.933	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
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
Iron	259.94	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
Magnesium	279.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	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
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
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
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
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
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

Comments:

METALS

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-02

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
Zinc	213.856	-0.0000100	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004744

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
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
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
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
Calcium	317.933	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
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
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0003400	-0.0005200
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
Magnesium	279.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.3183600	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	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
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
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
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
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
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

Comments:

METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-02

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
Zinc	213.856	0.0000000	-0.0012600	0.0000000	0.0000000	-0.0001000

Comments:

METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär 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
Antimony	206.838	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
Beryllium	313.042	0.0000000	0.0000000	-0.0000200	0.0016600
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.802	-0.0000900	0.0000000	0.0000500	0.0000000
Calcium	317.933	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
Cobalt	228.616	0.0001300	0.0000000	0.0012500	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	-0.0008400
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.4	0.0000000	0.0000000	0.0000000	-0.0315100
Lead	220.353	0.0003800	0.0000000	-0.0006200	0.0000000
Magnesium	279.5	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.2	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.5	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	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
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.9	0.0000000	0.0000000	0.0000000	-0.0020400
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0007900	0.0000000	0.0000000	0.0004900
Silicon	228.158	0.0000000	0.0000000	0.0753200	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0007300	0.0000000
Sodium	588.995	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
Tin	189.989	0.0000000	0.0000000	-0.0015800	0.0000000

Comments:

METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-02

Titanium	334.941	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

Comments:

METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:			
Aluminum	308.215				
Antimony	206.838				
Arsenic	189.042				
Barium	493.409				
Beryllium	313.042				
Boron	249.678				
Cadmium	228.802				
Calcium	317.933				
Calcium	211.2				
Chromium	267.716				
Cobalt	228.616				
Copper	324.754				
Iron	259.94				
Iron	271.4				
Lead	220.353				
Magnesium	279.5				
Magnesium	285.2				
Magnesium	202.5				
Manganese	257.61				
Manganese	293.9				
Molybdenum	202.03				
Nickel	231.604				
Phosphorus	214.9				
Potassium	766.491				
Selenium	196.026				
Silicon	228.158				
Silver	328.068				
Sodium	588.995				
Strontium	421.552				
Thallium	190.864				
Tin	189.989				

Comments:

METALS

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-02

Titanium	334.941					
Vanadium	292.402					
Zinc	213.856					

Comments:

METALS

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ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär 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: K1004744

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
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PREPARATION LOG

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004744-001 DISS	5/21/2010	50.0	50.0
K1004744-001D DISS	5/21/2010	50.0	50.0
K1004744-001S DISS	5/21/2010	50.0	50.0
K1004744-002 DISS	5/21/2010	50.0	50.0
K1004744-003 DISS	5/21/2010	50.0	50.0
K1004744-004 DISS	5/21/2010	50.0	50.0
K1004744-MB	5/21/2010	50.0	50.0
LCSW	5/21/2010	50.0	50.0

METALS

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PREPARATION LOG

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004744-001 DISS	5/21/2010	50.0	50.0
K1004744-001D DISS	5/21/2010	50.0	50.0
K1004744-001S DISS	5/21/2010	50.0	50.0
K1004744-002 DISS	5/21/2010	50.0	50.0
K1004744-003 DISS	5/21/2010	50.0	50.0
K1004744-004 DISS	5/21/2010	50.0	50.0
K1004744-MB	5/21/2010	50.0	50.0
LCSW	5/21/2010	50.0	50.0

METALS
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PREPARATION LOG

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

Method: CV

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004744-001 DISS	5/25/2010	100.0	100.0
K1004744-002 DISS	5/25/2010	100.0	100.0
K1004744-003 DISS	5/25/2010	100.0	100.0
K1004744-004 DISS	5/25/2010	100.0	100.0
K1004744-MB	5/25/2010	100.0	100.0
K1004813-003D	5/25/2010	100.0	100.0
K1004813-003S	5/25/2010	100.0	100.0
LCSW	5/25/2010	100.0	100.0

METALS
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ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 5/26/2010

End Date: 5/26/2010

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 A	N L	T L	V N	Z N	C N
Blank	1	08:36		X		X		X				X	X	X				X		X							
STDB	1	08:39		X		X		X				X	X	X				X		X							
STDA	1	08:42						X				X	X	X													
ICV1	1	08:45		X		X		X				X	X	X				X		X							
ICV1	1	08:48						X				X	X	X													
ICB1	1	08:51		X		X		X				X	X	X				X		X							
CCV1	1	08:55		X		X		X				X	X	X				X		X							
CCV1	1	09:00						X				X	X	X													
CCB1	1	09:06		X		X		X				X	X	X				X		X							
CRDL1	1	09:09		X		X		X				X	X	X				X		X							
ICS-A1	1	09:12		X		X		X				X	X	X				X		X							
ICS-AB1	1	09:15		X		X		X				X	X	X				X		X							
ZZZZZZ	1	09:18																									
CCV2	1	09:21		X		X		X				X	X	X				X		X							
CCV2	1	09:24						X				X	X	X													
CCB2	1	09:27		X		X		X				X	X	X				X		X							
ZZZZZZ	1	09:50																									
ZZZZZZ	1	09:53																									
ZZZZZZ	1	09:56																									
ZZZZZZ	1	09:59																									
ZZZZZZ	1	10:01																									
ZZZZZZ	1	10:04																									
ZZZZZZ	1	10:07																									
ZZZZZZ	1	10:10																									
ZZZZZZ	1	10:13																									
ZZZZZZ	1	10:16																									
CCV3	1	10:19		X		X		X				X	X	X				X		X							
CCV3	1	10:22						X				X	X	X													
CCB3	1	10:25		X		X		X				X	X	X				X		X							
ZZZZZZ	1	10:28																									
ZZZZZZ	1	10:31																									
ZZZZZZ	1	10:34																									

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

METALS
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Hegljar Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 5/26/2010

End Date: 5/26/2010

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				
ZZZZZZ	1	10:38																													
ZZZZZZ	1	10:41																													
ZZZZZZ	1	10:43																													
ZZZZZZ	1	10:47																													
ZZZZZZ	1	10:50																													
ZZZZZZ	1	10:52																													
ZZZZZZ	1	10:55																													
CCV4	1	10:58		X		X		X				X	X	X			X			X											
CCV4	1	11:01						X				X	X	X																	
CCB4	1	11:04		X		X		X				X	X	X			X			X											
ZZZZZZ	1	11:07																													
ZZZZZZ	1	11:10																													
ZZZZZZ	1	11:13																													
ZZZZZZ	1	11:16																													
ZZZZZZ	1	11:19																													
ZZZZZZ	1	11:22																													
ZZZZZZ	1	11:25																													
ZZZZZZ	1	11:28																													
K1004744-MB	1	11:31		X		X		X				X	X	X			X			X											
LCSW	1	11:34		X		X		X				X	X	X			X			X											
CCV5	1	11:37		X		X		X				X	X	X			X			X											
CCV5	1	11:40						X				X	X	X																	
CCB5	1	11:43		X		X		X				X	X	X			X			X											
K1004744-001 DISS	1	11:46		X		X		X				X	X	X			X			X											
K1004744-001D DISS	1	11:49		X		X		X				X	X	X			X			X											
K1004744-001L DISS	5	11:52		X		X		X				X	X	X			X			X											
K1004744-001S DISS	1	11:56		X		X						X		X																	
K1004744-002 DISS	1	11:59		X		X		X				X	X	X			X			X											
K1004744-003 DISS	1	12:02		X		X		X				X	X	X			X			X											
K1004744-004 DISS	1	12:05		X		X		X				X	X	X			X			X											
ZZZZZZ	1	12:08																													
ZZZZZZ	1	12:11																													

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

METALS
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 5/26/2010

End Date: 5/26/2010

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 A	N L	T V	Z N
ZZZZZZ	1	12:14																							
CCV6	1	12:17		X			X		X			X	X	X			X			X					
CCV6	1	12:20						X			X	X	X												
CCB6	1	12:23		X			X		X			X	X	X			X			X					
ZZZZZZ	1	12:47																							
ZZZZZZ	1	12:50																							
ZZZZZZ	1	12:53																							
ZZZZZZ	1	12:56																							
ZZZZZZ	1	12:59																							
ZZZZZZ	1	13:02																							
ZZZZZZ	1	13:05																							
ZZZZZZ	1	13:08																							
ZZZZZZ	1	13:11																							
ZZZZZZ	1	13:14																							
CCV7	1	13:17		X			X		X			X	X	X			X			X					
CCV7	1	13:20						X			X	X	X												
CCB7	1	13:23		X			X		X			X	X	X			X			X					
ZZZZZZ	1	13:26																							
ZZZZZZ	1	13:29																							
ZZZZZZ	1	13:32																							
ZZZZZZ	1	13:35																							
ZZZZZZ	1	13:38																							
ZZZZZZ	1	13:41																							
ZZZZZZ	1	13:44																							
ZZZZZZ	1	13:47																							
ZZZZZZ	1	13:50																							
ZZZZZZ	1	13:53																							
CCV8	1	13:56		X			X		X			X	X	X			X			X					
CCV8	1	13:59						X			X	X	X												
CCB8	1	14:01		X			X		X			X	X	X			X			X					
ZZZZZZ	1	14:05																							
ZZZZZZ	1	14:08																							

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

METALS
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 5/26/2010

End Date: 5/26/2010

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	14:10																													
ZZZZZZ	1	14:13																													
ZZZZZZ	1	14:16																													
ZZZZZZ	1	14:20																													
ZZZZZZ	1	14:23																													
ZZZZZZ	1	14:26																													
ZZZZZZ	1	14:29																													
ZZZZZZ	1	14:32																													
CCV9	1	14:35		X		X		X			X	X	X		X					X			X								
CCV9	1	14:38						X			X	X	X																		
CCB9	1	14:40		X		X		X			X	X	X		X					X			X								
ZZZZZZ	1	14:47																													
ZZZZZZ	1	14:50																													
ZZZZZZ	1	14:53																													
ZZZZZZ	1	14:56																													
ZZZZZZ	1	14:59																													
ZZZZZZ	1	15:02																													
ZZZZZZ	1	15:05																													
K1004744-002 DISS	10	15:08																									X				
ZZZZZZ	1	15:11																													
ZZZZZZ	1	15:14																													
CCV10	1	15:17		X		X		X			X	X	X		X					X			X								
CCV10	1	15:20						X			X	X	X																		
CCB10	1	15:23		X		X		X			X	X	X		X					X			X								
ZZZZZZ	1	15:26																													
ZZZZZZ	1	15:29																													
ZZZZZZ	1	15:32																													
ZZZZZZ	1	15:35																													
ZZZZZZ	1	15:38																													
ZZZZZZ	1	15:41																													
ZZZZZZ	1	15:44																													
ZZZZZZ	1	15:47																													

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

METALS
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglär Kronquist

Instrument ID Number: K-ICP-MS-02

Method: MS

Start Date: 5/25/2010

End Date: 5/25/2010

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	14:35		X	X		X	X		X	X	X		X				X		X	X		X	X	X						
Cal. Stn	1	14:40		X	X		X	X		X	X	X		X				X		X	X		X	X	X						
ICV1	1	14:46		X	X		X	X		X	X	X		X				X		X	X		X	X	X						
CCV1	1	14:51		X	X		X	X		X	X	X		X				X		X	X		X	X	X						
ICB1	1	15:02		X	X		X	X		X	X	X		X				X		X	X		X	X	X						
CCB1	1	15:06		X	X		X	X		X	X	X		X				X		X	X		X	X	X						
CRDL1	1	15:11		X	X		X	X		X	X	X		X				X		X	X		X	X	X						
ZZZZZZ	1	15:16																													
ZZZZZZ	1	15:21																													
ZZZZZZ	1	15:26																													
ZZZZZZ	1	15:31																													
ZZZZZZ	1	15:36																													
ZZZZZZ	1	15:42																													
ZZZZZZ	1	15:47																													
ZZZZZZ	1	15:53																													
ICS-A1	1	15:59		X	X		X	X		X	X	X		X				X		X	X		X	X	X						
ICS-AB1	1	16:03		X	X		X	X		X	X	X		X				X		X	X		X	X	X						
ZZZZZZ	1	16:25																													
ZZZZZZ	1	16:29																													
CCV2	1	16:34		X	X		X	X		X	X	X		X				X		X	X		X	X	X						
CCB2	1	16:44		X	X		X	X		X	X	X		X				X		X	X		X	X	X						
ZZZZZZ	1	16:48																													
ZZZZZZ	1	16:54																													
ZZZZZZ	1	16:59																													
ZZZZZZ	1	17:04																													
ZZZZZZ	1	17:10																													
ZZZZZZ	1	17:15																													
ZZZZZZ	1	17:20																													
ZZZZZZ	1	17:25																													
ZZZZZZ	5	17:29																													
ZZZZZZ	1	17:34																													
CCV3	1	17:42		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: K1004744

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-MS-02

Method: MS

Start Date: 5/25/2010

End Date: 5/25/2010

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
CCB3	1	17:52			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
ZZZZZZ	1	17:56																								
ZZZZZZ	1	18:01																								
ZZZZZZ	1	18:05																								
K1004744-MB	1	18:10			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
LCSW	1	18:14			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
K1004744-001 DISS	1	18:21			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
K1004744-001D DISS	1	18:27			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
K1004744-001S DISS	1	18:32			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
CCV4	1	18:41			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
CCB4	1	18:56			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
K1004744-002 DISS	1	19:01			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
K1004744-003 DISS	1	19:06			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
K1004744-004 DISS	1	19:11			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
ZZZZZZ	1	19:16																								
ZZZZZZ	1	19:21																								
ZZZZZZ	1	19:27																								
ZZZZZZ	1	19:32																								
ZZZZZZ	1	19:38																								
ZZZZZZ	1	19:43																								
CCV5	1	19:48			X	X		X	X		X	X	X	X				X		X	X		X	X	X	
CCB5	1	20:02			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: K1004744

Project No.: 0907194.000.0601

Project Name: Heglur Kronquist

Instrument ID Number: K-CVAA-02

Method: CV

Start Date: 5/27/2010

End Date: 5/27/2010

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 A	N L	T A	V L	Z N	C N		
CalibrationBlank	1	13:50																									X		
Standard#1 (0.2ppb)	1	13:51																									X		
Standard#2 (0.5ppb)	1	13:53																									X		
Standard#3 (1.0ppb)	1	13:54																									X		
Standard#4 (5.0ppb)	1	13:56																									X		
Standard#5 (10.0ppb)	1	13:58																									X		
ICV1	1	14:00																									X		
ICB1	1	14:02																									X		
CRDL1	1	14:03																									X		
CCV1	1	14:05																									X		
CCB1	1	14:07																									X		
K1004744-MB	1	14:08																									X		
LCSW	1	14:10																									X		
ZZZZZZ	1	14:12																											
ZZZZZZ	1	14:13																											
ZZZZZZ	1	14:15																											
K1004813-003A	1	14:16																									X		
K1004813-003D	1	14:39																									X		
K1004813-003S	1	14:49																									X		
ZZZZZZ	1	14:51																											
ZZZZZZ	1	14:52																											
CCV2	1	14:54																									X		
CCB2	1	14:56																									X		
ZZZZZZ	1	14:57																											
K1004744-001 DISS	1	14:59																									X		
K1004744-002 DISS	1	15:01																									X		
K1004744-003 DISS	1	15:02																									X		
K1004744-004 DISS	1	15:04																									X		
ZZZZZZ	1	15:05																											
ZZZZZZ	1	15:07																											
ZZZZZZ	1	15:09																											
ZZZZZZ	1	15:10																											

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METALS
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004744

Project No.: 0907194.000.0601

Project Name: Heglar Kronquist

Instrument ID Number: K-CVAA-02

Method: CV

Start Date: 5/27/2010

End Date: 5/27/2010

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
ZZZZZZ	1	15:12																									
CCV3	1	15:13																	X								
CCB3	1	15:15																X									
ZZZZZZ	1	15:17																									
ZZZZZZ	1	15:18																									
ZZZZZZ	1	15:20																									
ZZZZZZ	1	15:22																									
ZZZZZZ	1	15:23																									
ZZZZZZ	1	15:25																									
ZZZZZZ	1	15:26																									
ZZZZZZ	1	15:28																									
ZZZZZZ	1	15:30																									
ZZZZZZ	1	15:31																									
ZZZZZZ	1	15:33																									
ZZZZZZ	1	15:34																									
ZZZZZZ	1	15:36																									
ZZZZZZ	1	15:38																									
ZZZZZZ	1	15:39																									
ZZZZZZ	1	15:41																									
ZZZZZZ	1	15:43																									
ZZZZZZ	1	15:44																									
ZZZZZZ	1	15:46																									
ZZZZZZ	1	15:47																									
ZZZZZZ	1	15:49																									
ZZZZZZ	1	15:51																									
ZZZZZZ	1	15:52																									
ZZZZZZ	1	15:54																									
ZZZZZZ	1	15:55																									
ZZZZZZ	1	15:57																									
ZZZZZZ	1	15:59																									
ZZZZZZ	1	16:00																									
ZZZZZZ	1	16:02																									

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

Columbia Analytical Services Preparation Information Benchsheet

Prep Run: 111895
Team: Metals
Analyst: B.SHELDON

Prep Workflow: MetDigAqICP
 EPA
 3010A,EPA
 CLP-METALS
 ILM04.0

Status: Prepped
Current Step: Digestion

Prep Date: 05/21/2010
 01:45
Due Date: 05/29/2010

Rush/NPDES: N/A

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1004611-03	Method Blank		50 mL	50 mL			Metals D, Metals T	1%HNO3,5%HCl
KQ1004611-04	Lab Control Sample		50 mL	50 mL	0.25 mL 0.25 mL 0.25 mL 0.5 mL	12778 12779 14972 17867	Metals D, Metals T	1%HNO3,5%HCl
K1004744-001	BH-5	.12	50 mL	50 mL			Metals D	1%HNO3,5%HCl
K1004744-001: KQ1004611-01	Duplicate	.12	50 mL	50 mL			Metals D	1%HNO3,5%HCl
K1004744-001: KQ1004611-02	Matrix Spike	.12	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL	17064 17544 17867	Metals D	1%HNO3,5%HCl
K1004744-002	BH-4	.12	50 mL	50 mL			Metals D	1%HNO3,5%HCl
K1004744-003	EB-051110	.12	50 mL	50 mL			Metals D	1%HNO3,5%HCl
K1004744-004	BH-3	.12	50 mL	50 mL			Metals D	1%HNO3,5%HCl
K1004765-001	4	.05	50 mL	50 mL			Metals T	1%HNO3,5%HCl
K1004765-002	10	.05	50 mL	50 mL			Metals T	1%HNO3,5%HCl
K1004765-003	11	.05	50 mL	50 mL			Metals T	1%HNO3,5%HCl
K1004765-004	17	.05	50 mL	50 mL			Metals T	1%HNO3,5%HCl

12 Total Samples consisting of 8 Client Samples, 2 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 QCP-CICV-1	Spike	12779	10/1/2010	K-MET SS1	Spike	17544	9/11/2010
K-MET QCP-CICV-2	Spike	12778	7/1/2010	K-MET SS3	Spike	17064	12/1/2010
K-MET QCP-CICV-3	Spike	14972	1/28/2011	K-MET SS4	Spike	17867	12/1/2010

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-05	Temperature	96	deg C

Preparation Steps

<u>Step</u>	<u>Started</u>	<u>Finished</u>	<u>By</u>	<u>Assisted By</u>	<u>Training?</u>	<u>Comments</u>
Digestion	21-MAY-10 01:45	21-MAY-10 04:00	B.SHELDON		N	

Comments

Review

Reviewed by: Emma Date: 5/25/10

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	-	0.5
	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	-	0.5
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	50.0	500ml	100	
K-MET SS4	HNO3	25	500ml	-	0.5
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	
	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



Preparation Information Benchsheet

Prep Run: 111894 **Prep Workflow:** MetDigAqMS **Status:** Prepped **Prep Date:** 05/21/2010
Team: Metals **Prep Method:** EPA CLP- METALS **Current Step:** Digestion **Due Date:** 11:00
Analyst: B.SHELDON **Rush/NPDES:** NPDES **ILM04.0,Method**

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1004610-01	Method Blank		50 mL	50 mL			Metals D, Metals T	1%HNO3
KQ1004610-02	Lab Control Sample		50 mL	50 mL	1 mL 1 mL	11605 17425	Metals D, Metals T	1%HNO3
K1004711-001	BRUVPilot1:BA92600	.03	50 mL	50 mL			Metals T	1%HNO3
K1004744-001	BH-5	.12	50 mL	50 mL			Metals D	1%HNO3
K1004744-001: KQ1004610-03	Duplicate	.12	50 mL	50 mL			Metals D	1%HNO3
K1004744-001: KQ1004610-04	Matrix Spike	.12	50 mL	50 mL	1 mL 1 mL	11605 17425	Metals D	1%HNO3
K1004744-002	BH-4	.12	50 mL	50 mL			Metals D	1%HNO3
K1004744-003	EB-051110	.12	50 mL	50 mL			Metals D	1%HNO3
K1004744-004	BH-3	.12	50 mL	50 mL			Metals D	1%HNO3
K1004758-001	Effluent	.03	50 mL	50 mL			Metals T	1%HNO3
K1004909-001	PI	.01	50 mL	50 mL			Metals T	1%HNO3
K1004909-002	FE	.01	50 mL	50 mL			Metals T	1%HNO3
K1004911-001	051310-1	.02	50 mL	50 mL			Metals T	1%HNO3

13 Total Samples consisting of 9 Client Samples, 2 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-05	Temperature	96 deg C

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	21-MAY-10 11:00	21-MAY-10 01:30	B.SHELDON		N	

Comments

Review

Reviewed by: SMA Date: 5/25/10

CVAA Mercury Data Review Form

Element: Hg

Analysis Lot #: 202696

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

Service Request Numbers:

 K1004813, K1004744, K1004856, K1005259, K1004930, K1004860, K1004868

 TCLP MDL'S, LOD'S, LOQ'S

	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: JDB (initials)

Primary Reviewed By: JDB

Date: 5/28/10

Secondary Reviewed By: MAS

Date: 5/28/10

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)
1	ICV1	~	~	~	4.84		97%
2	ICB	~	~	~	0.00		< 0.2
3	CRA	~	~	~	0.19		97% 95% ^{MS} 5/28/10
4	CCV1	~	~	~	4.85		97%
5	CCB1	~	~	~	0.00		< 0.2
6	PBW	20	20	~	0.01		0.01
7	LCSW	20	20	~	5.06		101%
8	K1004813-001	20	20	~	0.02		0.02
9	K1004813-002	20	20	~	0.05		0.05
10	K1004813-003	20	20	~	0.01		0.01
11	K1004813-003A	20	20	~	4.60		92%
12	K1004813-003D	20	20	~	0.02		0.02
13	K1004813-003S	20	20	~	0.99		99%
14	K1004813-001 DISS	20	20	~	0.01		0.01
15	K1004813-002 DISS	20	20	~	0.00		0.00
16	CCV2	~	~	~	5.01		100%
17	CCB2	~	~	~	-0.01		< 0.2
18	K1004813-003 DISS	20	20	~	0.01		0.01
19	K1004744-001	20	20	~	0.00		0.00
20	K1004744-002	20	20	~	0.01		0.01
21	K1004744-003	20	20	~	0.00		0.00
22	K1004744-004	20	20	~	0.01		0.01
23	K1004856-001	20	20	~	0.01		0.01
24	K1004856-001D	20	20	~	0.01		0.01
25	K1004856-001S	20	20	~	1.01		101%

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>Josh D Bailey</i>	Date: <i>5/29/10</i>	Page Number: 1
----------------------------------	-------------------------	-------------------

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	K1005259-001	20	20	~	0.00		0.00
27	K1004930-004	20	20	~	0.00		0.00
28	CCV3	~	~	~	4.96		99%
29	CCB3	~	~	~	0.00		< 0.2
30	K1004930-005	20	20	~	0.00		0.00
31	K1004680-001	20	20	~	0.00		0.00
32	K1004860-002	20	20	~	0.00		0.00
33	K1004860-003	20	20	~	0.01		0.01
34	K1004860-004	20	20	~	0.00		0.00
35	K1004860-005	20	20	~	0.00		0.00
36	K1004868-001	20	20	~	0.00		0.00
37	CCV4	~	~	~	4.97		99%
38	CCB4	~	~	~	-0.01		< 0.2
39	TCLP-1	20	20	~	0.14		0.14
40	MDL-2	20	20	~	0.24		0.24
41	MDL-3	20	20	~	0.41		0.41
42	MDL-4	20	20	~	0.33		0.33
43	MDL-5	20	20	~	0.25		0.25
44	MDL-6	20	20	~	0.19		0.19
45	MDL-7	20	20	~	0.35		0.35
46	MDL-8	20	20	~	0.07		0.07
47	MDL-9	20	20	~	0.44		0.44
48	MDL-10	20	20	~	0.07		0.07
49	CCV5	~	~	~	4.95		99%
50	CCB5	~	~	~	0.00		< 0.2

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>John D Beul</i>	Date: 5/28/10	Page Number: 2
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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)
51	LOD-1	20	20	~	0.16		0.16
52	LOD-2	20	20	~	0.25		0.25
53	LOD-3	20	20	~	0.41		0.41
54	LOD-4	20	20	~	0.33		0.33
55	LOQ-1	20	20	~	1.39		1.39
56	LOQ-2	20	20	~	0.35		0.35
57	LOQ-3	20	20	~	0.95		0.95
58	LOQ-4	20	20	~	0.75		0.75
59	CCV6	~	~	~	4.93		99%
60	CCB6	~	~	~	0.00		< 0.2
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							

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: JOB	Date: 5/27/10	Page Number: 3
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Columbia Analytical Services K-CVAA-02

Report Generated By CETAC QuickTrace

Analyst: ACQMET18

Worksheet file: C:\Program Files\QuickTrace\Worksheets\Hg 052710B.wsz

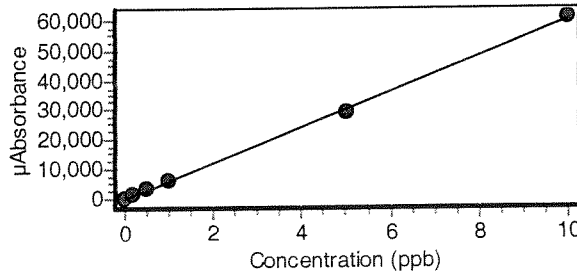
Date Started: 5/27/2010 1:20:44 PM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ppb)	μ Abs	%RSD	Flags
Calibration Blank	STD	05/27/10 01:50:00 pm	0.000	59	30.11	
Replicates			61.5 72.4 33.1 68.4			
Standard #1 (0.2 ppb)	STD	05/27/10 01:51:36 pm	0.200	1249	0.90	
Replicates			1239.1 1250.5 1243.2 1264.7			
Standard #2 (0.5 ppb)	STD	05/27/10 01:53:13 pm	0.500	3224	0.79	
Replicates			3223.5 3220.9 3256.9 3194.4			
Standard #3 (1.0 ppb)	STD	05/27/10 01:54:50 pm	1.000	5953	0.82	
Replicates			5900.9 5925.0 5977.4 6007.5			
Standard #4 (5.0 ppb)	STD	05/27/10 01:56:28 pm	5.000	29221	0.58	
Replicates			29035.6 29153.5 29264.1 29432.5			
Standard #5 (10.0 ppb)	STD	05/27/10 01:58:06 pm	10.000	60549	0.62	
Replicates			60107.9 60416.1 60680.0 60991.5			

Calibration
 Equation: $A = 58.863 + 6005.443C$
 R2: 0.99962
 SEE: 570.4652
 Flags:



ICV1	ICV	05/27/10 02:00:48 pm	4.840	29152	0.60	
Replicates			28941.5 29096.6 29217.7 29350.7			
% Recovery			96.89			

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
ICB	ICB	05/27/10 02:02:23 pm	0.003	74	34.51	
Replicates		93.4 99.1 48.3 56.4				
CRA	CRDL	05/27/10 02:03:59 pm	0.193	1218	1.09	
Replicates		1226.2 1212.3 1202.7 1232.1				
% Recovery		96.53				
CCV1	CCV	05/27/10 02:05:37 pm	4.850	29174	0.55	
Replicates		28972.4 29125.2 29263.9 29335.4				
% Recovery		96.96				
CCB1	CCB	05/27/10 02:07:13 pm	0.004	81	8.47	
Replicates		72.8 78.9 81.4 89.3				
PBW	MB	05/27/10 02:08:48 pm	0.005	90	32.35	
Replicates		87.5 127.5 56.2 89.3				
LCSW	OPR	05/27/10 02:10:24 pm	5.060	30462	0.65	
Replicates		30285.4 30686.1 30569.3 30305.5				
% Recovery		101.25				
K1004813-001	UNK	05/27/10 02:12:00 pm	0.019	171	7.03	
Replicates		174.8 157.7 167.2 186.2				
K1004813-002	UNK	05/27/10 02:13:37 pm	0.046	334	8.47	
Replicates		353.2 310.8 308.4 362.9				
K1004813-003	UNK	05/27/10 02:15:14 pm	0.013	137	18.56	
Replicates		116.3 143.7 118.3 170.6				
K1004813-003A	SPK	05/27/10 02:16:51 pm	4.600	27680	0.69	W
Replicates		27424.5 27666.3 27760.1 27869.9				
% Recovery		458.63				
K1004813-003D	DUP	05/27/10 02:39:47 pm	0.018	169	17.98	D
Replicates		137.0 161.9 165.7 209.9				
		RPD 0.00				
K1004813-003S	MSK	05/27/10 02:49:42 pm	0.990	6007	1.08	
Replicates		5926.3 5985.6 6042.1 6073.1				
% Recovery		97.74				

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
K1004813-001 DISS				UNK	05/27/10 02:51:19 pm	0.007	101	12.03	
Replicates	95.6	118.7	91.0	99.7					
K1004813-002 DISS				UNK	05/27/10 02:52:58 pm	0.004	82	22.71	
Replicates	91.7	78.7	100.2	57.4					
CCV2				CCV	05/27/10 02:54:36 pm	5.010	30169	0.77	
Replicates	29879.1	30101.6	30276.1	30419.7					
% Recovery	100.28								
CCB2				CCB	05/27/10 02:56:11 pm	-0.005	30	49.26	
Replicates	44.8	9.7	35.5	30.5					
K1004813-003 DISS				UNK	05/27/10 02:57:50 pm	0.005	88	32.02	
Replicates	72.2	67.0	83.4	128.7					
K1004744-001				UNK	05/27/10 02:59:28 pm	0.003	75	12.28	
Replicates	74.7	72.2	65.6	87.6					
K1004744-002				UNK	05/27/10 03:01:04 pm	0.011	128	14.38	
Replicates	126.2	104.5	131.1	149.1					
K1004744-003				UNK	05/27/10 03:02:39 pm	0.003	77	14.07	
Replicates	78.7	64.9	73.4	90.8					
K1004744-004				UNK	05/27/10 03:04:15 pm	0.006	93	27.81	
Replicates	111.5	112.7	57.4	90.5					
K1004856-001				UNK	05/27/10 03:05:51 pm	0.005	89	19.44	
Replicates	90.1	88.2	67.0	109.2					
K1004856-001D				DUP	05/27/10 03:07:27 pm	0.005	89	30.37	
Replicates	93.3	51.4	115.8	94.7					
		RPD 0.00							
K1004856-001S				MSK	05/27/10 03:09:04 pm	1.010	6141	0.70	
Replicates	6106.2	6121.6	6133.3	6204.0					
% Recovery	100.79								

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
K1005259-001				UNK	05/27/10 03:10:41 pm	0.003	74	28.23	
Replicates	45.8	82.0	73.3	95.3					
K1004930-004				UNK	05/27/10 03:12:18 pm	-0.002	48	102.98	
Replicates	55.7	82.6	78.0	-24.0					
CCV3				CCV	05/27/10 03:13:56 pm	4.960	29867	0.62	
Replicates	29636.3	29800.8	30005.0	30027.5					
% Recovery	99.27								
CCB3				CCB	05/27/10 03:15:31 pm	-0.001	53	38.46	
Replicates	54.0	41.0	35.9	81.5					
K1004930-005				UNK	05/27/10 03:17:09 pm	0.004	84	38.68	
Replicates	40.2	79.2	105.9	111.7					
K1004680-001				UNK	05/27/10 03:18:47 pm	0.002	68	23.22	
Replicates	70.4	45.3	80.5	76.5					
K1004860-002				UNK	05/27/10 03:20:25 pm	0.004	83	29.23	
Replicates	74.3	57.5	84.7	115.1					
K1004860-003				UNK	05/27/10 03:22:03 pm	0.006	97	27.23	
Replicates	94.8	65.9	130.7	97.8					
K1004860-004				UNK	05/27/10 03:23:39 pm	0.003	74	37.80	
Replicates	110.8	74.3	67.7	43.2					
K1004860-005				UNK	05/27/10 03:25:14 pm	0.002	68	42.04	
Replicates	78.8	100.8	61.9	32.5					
K1004868-001				UNK	05/27/10 03:26:50 pm	0.003	78	5.84	
Replicates	76.2	83.4	77.9	72.5					
CCV4				CCV	05/27/10 03:28:28 pm	4.970	29879	0.63	
Replicates	29627.7	29853.8	29979.3	30056.3					
% Recovery	99.31								

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
CCB4				CCB	05/27/10 03:30:03 pm	-0.004	32	64.01	
Replicates	57.8	9.0	35.0	25.5					
TCLP-1				UNK	05/27/10 03:31:39 pm	0.141	905	4.70	
Replicates	874.4	904.6	964.8	874.9					
MDL-2				UNK	05/27/10 03:33:16 pm	0.242	1511	0.88	
Replicates	1498.0	1524.5	1520.4	1501.7					
MDL-3				UNK	05/27/10 03:34:52 pm	0.412	2530	1.05	
Replicates	2510.5	2514.5	2527.2	2568.3					
MDL-4				UNK	05/27/10 03:36:29 pm	0.326	2019	0.36	
Replicates	2025.6	2022.5	2009.0	2020.8					
MDL-5				UNK	05/27/10 03:38:07 pm	0.253	1580	1.33	
Replicates	1561.5	1564.9	1585.3	1606.8					
MDL-6				UNK	05/27/10 03:39:44 pm	0.192	1210	4.72	
Replicates	1188.6	1195.7	1162.2	1292.7					
MDL-7				UNK	05/27/10 03:41:22 pm	0.346	2139	1.82	
Replicates	2184.3	2106.4	2159.8	2106.9					
MDL-8				UNK	05/27/10 03:43:00 pm	0.065	450	4.26	
Replicates	452.7	463.0	461.5	421.9					
MDL-9				UNK	05/27/10 03:44:39 pm	0.437	2686	0.67	
Replicates	2674.4	2712.3	2681.7	2674.2					
MDL-10				UNK	05/27/10 03:46:15 pm	0.069	473	5.00	
Replicates	452.9	501.1	454.0	484.0					
CCV5				CCV	05/27/10 03:47:53 pm	4.950	29774	0.61	
Replicates	29568.4	29702.8	29833.1	29992.1					
% Recovery	98.96								

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
CCB5				CCB	05/27/10 03:49:28 pm	-0.002	44	16.22	
Replicates	53.2	41.0	36.6	46.8					
LOD-1				UNK	05/27/10 03:51:04 pm	0.155	987	1.87	
Replicates	987.7	961.3	1004.3	994.9					
LOD-2				UNK	05/27/10 03:52:40 pm	0.245	1529	1.33	
Replicates	1512.4	1514.8	1556.5	1532.6					
LOD-3				UNK	05/27/10 03:54:16 pm	0.413	2541	1.80	
Replicates	2473.4	2571.5	2563.5	2557.1					
LOD-4				UNK	05/27/10 03:55:52 pm	0.333	2061	0.28	
Replicates	2059.0	2056.9	2069.4	2057.5					
LOQ-1				UNK	05/27/10 03:57:29 pm	1.390	8383	0.26	
Replicates	8385.8	8393.0	8350.7	8400.5					
LOQ-2				UNK	05/27/10 03:59:06 pm	0.350	2163	0.91	
Replicates	2172.1	2134.8	2167.4	2179.2					
LOQ-3				UNK	05/27/10 04:00:43 pm	0.952	5777	0.35	
Replicates	5781.4	5753.6	5801.4	5769.6					
LOQ-4				UNK	05/27/10 04:02:21 pm	0.750	4562	0.76	
Replicates	4534.6	4609.8	4564.4	4538.4					
CCV6				CCV	05/27/10 04:03:59 pm	4.930	29670	0.61	
Replicates	29422.5	29654.3	29774.3	29827.1					
% Recovery	98.61								
CCB6				CCB	05/27/10 04:05:34 pm	0.002	69	35.84	
Replicates	48.9	67.1	104.4	55.8					

Columbia Analytical Services
EPA METHOD 245.1

Service Request Number(s) :
PREP RUN: 112379, 112380

Sample	Initial Volume	Final Volume	Sample	Initial Volume	Final Volume
MB	100	100	K1004868-001	20	20
LCSW	100	100			
K1004813-001	100	100			
K1004813-002	100	100			
K1004813-003	100	100			
K1004813-003D	100	100			
K1004813-003S	100	100			
K1004813-001 DISS	100	100			
K1004813-002 DISS	100	100			
K1004813-003 DISS	100	100			
K1004744-001	100	100			
K1004744-002	100	100			
K1004744-003	100	100			
K1004744-004	100	100			
K1004856-001	100	100			
K1004856-001D	100	100			
K1004856-001S	100	100			
K1005259-001	100	100			
K1004930-004	100	100			
K1004930-005	100	100			
K1004680-001	20	20			
K1004680-002	20	20			
K1004680-003	20	20			
K1004680-004	20	20			
K1004680-005	20	20			
Std. 0.2	0.2 *				100
Std. 0.5	0.5 *				100
Std. 1.0	1.0 *				100
Std. 5.0	5.0*				100
Std. 10.0	10.0 *				100
ICV	0.5 **				100

Start Time: 1400 Finish Time: 1600 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-G 100 ppb Spike = 1.0 ml * Source Standard
**Source Standard: ICV H61-91-P 1000 ppb LCSW= 0.5 ml ICV **Source Standard

Comments: Client did not send enough sample for 100ml Initial Volume (K1004860, K1004868).

Analyst: Joseph V Baird / Kelly Kie	Date: 5/25/10
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Service Request # K1004744
Instrument ID# K-ICP-AES-02

ICP-OES Data Review Form

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

Comments:

File Name: 052610AICP02

Star Lims: 202239

Primary Review by SC

Date 5/26/10

Secondary Review by mmr

Date 5/26/10

Method: 2010A Sample Name: Blank

Operator:

Comment:

Run Time: 05/26/10 08:36 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	.1400	.0277	-.0076	.00024
Stddev	.0255	.0235	.0029	.00000
%RSD	18.21	84.86	38.58	1.5862

#1	.1580	.0444	-.0097	.00023
#2	.1220	.0111	-.0055	.00024

Elem	Be3130	B_2497	Cd2265	Ca2112
Line	313.042 {107}	249.773 {134}	226.502 {148}	211.276 {159}
Avg	-.00365	.3860	.0003	.3451
Stddev	.00000	.0166	.0001	.0039
%RSD	.07304	4.306	31.51	1.125

#1	-.00365	.3743	.0004	.3424
#2	-.00365	.3978	.0003	.3479

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	-.0926	-.0001	.0003	.0221
Stddev	.0059	.0001	.0001	.0274
%RSD	6.334	46.55	37.23	123.7

#1	-.0967	-.0001	.0002	.0028
#2	-.0884	-.0002	.0003	.0415

Elem	Fe2599	Fe2714	Pb2203	Mg2025
Line	259.940 {129}	271.441 {124}	220.353 {152}	202.582 {166}
Avg	.0014	.0003	.0002	.1012
Stddev	.0001	.0004	.0002	.0019
%RSD	5.078	145.6	106.4	1.927

#1	.0015	.0000	.0001	.0998
#2	.0014	.0005	.0004	.1026

Elem	Mg2795	Mn2576	Mn2939	Mo2020
Line	279.553 {120}	257.610 {131}	293.930 {114}	202.030 {166}
Avg	.02073	.00096	-.0002	.0004
Stddev	.00586	.00012	.0003	.0000
%RSD	28.287	12.713	132.7	5.360

#1	.02487	.00105	-.0005	.0003
#2	.01658	.00088	.0000	.0004

Elem	Ni2316	K_7664	Se1960	Ag3280
Line	231.604 {145}	766.490 {44}	196.090 {171}	328.068 {102}
Avg	-.0002	.7284	-.0152	.0442
Stddev	.0001	.1192	.0176	.0391
%RSD	33.51	16.37	115.7	88.39

#1	-.0002	.6441	-.0028	.0166
#2	-.0003	.8127	-.0277	.0719

Sample Name: Blank Run Time: 05/26/10 08:36

Elem	Na5895	Sn1899	V_3102	Zn2062
Line	589.592 { 57}	189.989 {176}	310.230 {108}	206.200 {163}
Avg	.0006	.0006	.0077	.0010
Stddev	.0002	.0000	.0001	.0000
%RSD	28.91	6.503	1.751	2.297

#1	.0007	.0006	.0078	.0010
#2	.0005	.0006	.0076	.0010

Elem	P_2149	Si2516	Ti3234	Tl1908
Line	214.914 {156}	251.612 {134}	323.452 {104}	190.864 {176}
Avg	.0263	.1677	.00373	-.0002
Stddev	.0157	.0255	.00019	.0001
%RSD	59.54	15.20	5.0075	58.38

#1	.0152	.1858	.00359	-.0001
#2	.0374	.1497	.00386	-.0003

Elem	Li6707	Sr4077
Line	670.784 { 50}	407.771 { 82}
Avg	.39938	.00400
Stddev	.00194	.00015
%RSD	.48629	3.8272

#1	.39800	.00389
#2	.40075	.00411

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	185.43
Stddev	1.20
%RSD	.64836

#1	184.58
#2	186.28

QC
5/26/10

Method: 2010A Sample Name: STDB *ICP7-41-B* Operator:

Comment:

Run Time: 05/26/10 08:39 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	19.64	2.8426	.45830	36.50
Stddev	.03	.0223	.00033	.08
%RSD	.1395	.78390	.07183	.2280

#1	19.62	2.8583	.45807	36.44
#2	19.66	2.8268	.45854	36.56

Elem	Fe2714	Mg2025	Mn2939	K_7664
Line	271.441 {124}	202.582 {166}	293.930 {114}	766.490 { 44}
Avg	.7600	60.24	.6414	210.5
Stddev	.0006	.01	.0004	.3
%RSD	.0802	.0193	.0657	.1657

#1	.7604	60.23	.6411	210.2
#2	.7596	60.25	.6417	210.7

Elem	Na5895	P_2149	Si2516	Li6707
Line	589.592 { 57}	214.914 {156}	251.612 {134}	670.784 { 50}
Avg	4.847	44.67	93.09	420.70
Stddev	.038	.03	.22	.36
%RSD	.7873	.0572	.2335	.08604

#1	4.874	44.69	92.93	420.95
#2	4.820	44.66	93.24	420.44

Elem	Sr4077
Line	407.771 { 82}
Avg	7.9243
Stddev	.0136
%RSD	.17132

#1	7.9147
#2	7.9339

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	182.69
Stddev	.64
%RSD	.35170

#1	182.23
#2	183.14

Method: 2010A Sample Name: STDA *ICP7-36-A* Operator:

Comment: Run Time: 05/26/10 08:42 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	15.80	11.01	45.75	.2834
Stddev	.06	.03	.19	.0014
%RSD	.4044	.2514	.4098	.5019

#1	15.85	11.03	45.89	.2844
#2	15.76	10.99	45.62	.2824

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	27.15	.1143	.1854	18.46
Stddev	.22	.0010	.0015	.14
%RSD	.8048	.9008	.8350	.7642

#1	27.00	.1150	.1865	18.56
#2	27.31	.1135	.1843	18.36

Elem	Fe2599	Pb2203	Mg2795	Mn2576
Line	259.940 {129}	220.353 {152}	279.553 {120}	257.610 {131}
Avg	.4030	.0871	1290.3	3.1106
Stddev	.0089	.0011	10.1	.0277
%RSD	2.204	1.262	.78092	.88921

#1	.4092	.0879	1283.2	3.1301
#2	.3967	.0863	1297.4	3.0910

Elem	Mo2020	Ni2316	Se1960	Ag3280
Line	202.030 {166}	231.604 {145}	196.090 {171}	328.068 {102}
Avg	.1549	.1688	10.02	17.52
Stddev	.0004	.0014	.10	.08
%RSD	.2755	.8104	.9979	.4481

#1	.1552	.1697	10.09	17.57
#2	.1546	.1678	9.951	17.46

Elem	Sn1899	V_3102	Zn2062	Ti3234
Line	189.989 {176}	310.230 {108}	206.200 {163}	323.452 {104}
Avg	.0812	.1450	.1451	.16697
Stddev	.0007	.0002	.0007	.00027
%RSD	.9217	.1152	.4592	.15995

#1	.0817	.1449	.1456	.16679
#2	.0807	.1451	.1447	.16716

Elem	Tl1908
Line	190.864 {176}
Avg	.0803
Stddev	.0008
%RSD	.9643

#1	.0809
#2	.0798

Sample Name: STDA Run Time: 05/26/10 08:42

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	186.62
Stddev	1.10
%RSD	.59130

#1	185.84
#2	187.40

Method: 2010A Sample Name: ICV1 *ICP7-37-C* Operator:
 Comment:
 Run Time: 05/26/10 08:45 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.026	2.550	2.557	5.2398	.12410	-.0013
Stddev	.009	.018	.012	.0029	.00043	.0013
%RSD	.1810	.7226	.4531	.05565	.34949	101.0

#1	5.020	2.563	2.548	5.2377	.12441	-.0004
#2	5.032	2.537	2.565	5.2419	.12380	-.0022

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	1.262	12.57	.5132	1.258	.6290	2.508
Stddev	.000	.11	.0032	.002	.0022	.005
%RSD	.0038	.8741	.6329	.1894	.3443	.1880

#1	1.262	12.49	.5155	1.256	.6306	2.511
#2	1.262	12.65	.5109	1.260	.6275	2.505

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	2.538	12.46	1.2104	2.050	1.257	12.62
Stddev	.009	.08	.0044	.002	.001	.05
%RSD	.3467	.6586	.36088	.1188	.1125	.4304

#1	2.544	12.52	1.2073	2.048	1.256	12.58
#2	2.532	12.41	1.2135	2.051	1.258	12.66

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	2.573	.6190	12.26	.0101	1.253	1.265
Stddev	.001	.0032	.04	.0089	.014	.002
%RSD	.0366	.5108	.2946	88.01	1.134	.1393

#1	2.574	.6213	12.23	.0164	1.263	1.264
#2	2.572	.6168	12.28	.0038	1.243	1.267

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: 05/26/10 08:45

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	-.1489	2.0377	2.495	.00043	.00698
Stddev	.0011	.0000	.0018	.022	.00040	.00002
%RSD	55.57	.0156	.09047	.8667	94.589	.27776

#1	.0012	-.1489	2.0390	2.510	.00071	.00697
#2	.0028	-.1489	2.0364	2.480	.00014	.00699

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	186.49
Stddev	.45
%RSD	.23997

#1	186.17
#2	186.81

Method: 2010A

Sample Name: ICVB1

Operator:

Comment:

ICP7-43-D

Run Time: 05/26/10 08:48 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9775	.0177	.0003	.00094	.00003	2.021
Stddev	.0191	.0044	.0031	.00051	.00000	.004
%RSD	1.954	24.77	1116.	54.478	11.182	.2236
#1	.9640	.0208	.0025	.00130	.00003	2.018
#2	.9911	.0146	-.0019	.00058	.00003	2.025
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	.0008	5.124	.0034	.0002	.0007	9.883
Stddev	.0000	.002	.0007	.0001	.0003	.030
%RSD	3.077	.0434	20.14	68.28	43.97	.3034
#1	.0008	5.125	.0029	.0003	.0005	9.862
#2	.0007	5.122	.0039	.0001	.0009	9.905
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	-.0044	5.0208	10.05	.0036	-.0013	.0048
Stddev	.0030	.0086	.00	.0031	.0002	.0043
%RSD	68.35	.17119	.0449	85.55	11.26	90.15
#1	-.0065	5.0147	10.05	.0057	-.0012	.0078
#2	-.0023	5.0268	10.05	.0014	-.0014	.0017
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	.0103	-.0002	.0095	5.089	.0011	.0000
Stddev	.0049	.0029	.0003	.014	.0019	.0006
%RSD	47.27	1862.	3.088	.2751	166.0	1437.
#1	.0138	-.0022	.0093	5.079	.0024	.0005
#2	.0069	.0019	.0097	5.099	-.0002	-.0004
Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 05/26/10 08:48

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.937	5.162	.00075	-.0058	2.0756	1.9897
Stddev	.016	.006	.00229	.0092	.0163	.0040
%RSD	.3197	.1253	304.55	156.6	.78604	.19914
#1	4.926	5.158	-.00087	-.0123	2.0872	1.9925
#2	4.948	5.167	.00237	.0006	2.0641	1.9869
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	186.79					
Stddev	.12					
%RSD	.06242					
#1	186.70					
#2	186.87					

Method: 2010A

Sample Name: ICB

Operator:

Comment:

Run Time: 05/26/10 08:51 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0083	.0047	-.00008	-.00001	.0005
Stddev	.0151	.0043	.0098	.00003	.00010	.0009
%RSD	94370.	51.71	207.4	42.057	965.15	161.3

#1	.0107	-.0114	-.0022	-.00011	.00006	.0012
#2	-.0107	-.0053	.0116	-.00006	-.00008	-.0001

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	-.0001	-.0013	.0012	.0004	-.0016	.0026
Stddev	.0003	.0007	.0006	.0007	.0016	.0038
%RSD	383.4	56.15	46.22	158.1	101.3	144.9

#1	.0002	-.0018	.0008	.0000	-.0004	.0053
#2	-.0003	-.0008	.0016	.0009	-.0027	-.0001

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	-.0034	.00005	.00097	-.0018	-.0004	-.0143
Stddev	.0058	.00006	.00109	.0003	.0001	.0022
%RSD	173.6	127.94	112.30	15.35	14.75	15.64

#1	.0008	.00000	.00174	-.0016	-.0004	-.0127
#2	-.0075	.00009	.00020	-.0020	-.0004	-.0159

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	.0097	-.0006	.0020	.0027	.0016	-.0015
Stddev	.0127	.0049	.0034	.0003	.0016	.0012
%RSD	131.3	780.4	176.2	9.429	102.2	85.56

#1	.0186	.0029	-.0005	.0026	.0028	-.0023
#2	.0007	-.0041	.0044	.0029	.0004	-.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: 05/26/10 08:51

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	.0019	-.00180	-.0029	-.00010	.00001
Stddev	.0094	.0001	.00035	.0224	.00012	.00009
%RSD	283.7	6.946	19.680	763.6	118.64	861.04

#1	.0099	.0020	-.00205	.0129	-.00002	.00007
#2	-.0033	.0019	-.00155	-.0188	-.00018	-.00005

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	184.58
Stddev	.29
%RSD	.15785

#1	184.37
#2	184.79

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 08:55 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.972	.0157	.0006	2.4931	.04981	-.0168
Stddev	.039	.0056	.0045	.0175	.00018	.0010
%RSD	.7842	35.49	774.3	.70083	.35492	6.076

#1	5.001	.0216	.0015	2.4686	.04982	-.0166
#2	4.935	.0146	.0066	2.5067	.04998	-.0175
#3	4.942	.0085	-.0035	2.4927	.04957	-.0154
#4	5.010	.0182	-.0022	2.5045	.04987	-.0176

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	.0024	25.36	.0017	-.0011	-.0015	24.84
Stddev	.0004	.12	.0007	.0004	.0018	.10
%RSD	16.41	.4692	39.10	39.06	120.8	.3990

#1	.0021	25.19	.0009	-.0010	-.0038	24.70
#2	.0022	25.35	.0020	-.0015	.0004	24.90
#3	.0026	25.47	.0024	-.0014	-.0021	24.82
#4	.0029	25.41	.0015	-.0006	-.0005	24.92

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	.0001	25.04	4.964	-.0027	-.0029	9.995
Stddev	.0070	.09	.018	.0010	.0003	.032
%RSD	8743.	.3744	.3534	38.54	11.35	.3153

#1	.0077	25.02	4.940	-.0035	-.0028	10.02
#2	-.0073	25.02	4.982	-.0036	-.0031	9.961
#3	.0042	25.17	4.964	-.0023	-.0026	9.977
#4	-.0043	24.95	4.969	-.0014	-.0033	10.03

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: 05/26/10 08:55

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111	.0026	9.738	.0050	.0038	-.0001
Stddev	.0092	.0043	.028	.0027	.0015	.0004
%RSD	82.67	164.4	.2907	52.84	38.89	520.7
#1	.0094	.0082	9.737	.0051	.0058	.0000
#2	.0052	.0019	9.742	.0026	.0039	-.0006
#3	.0246	-.0022	9.702	.0087	.0026	.0004
#4	.0052	.0025	9.771	.0038	.0028	-.0001
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	9.973	2.512	-.00060	-.0144	.49744	.50291
Stddev	.043	.004	.00126	.0067	.00266	.00112
%RSD	.4287	.1457	209.41	46.85	.53544	.22316
#1	9.913	2.507	-.00056	-.0116	.49868	.50169
#2	9.973	2.515	.00089	-.0062	.49455	.50408
#3	9.999	2.514	-.00219	-.0207	.49604	.50226
#4	10.01	2.511	-.00054	-.0190	.50051	.50361
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	185.45					
Stddev	.63					
%RSD	.33777					
#1	185.63					
#2	184.59					
#3	186.09					
#4	185.47					

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 09:00 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4620	2.471	2.445	.45767	.52572	.4963
Stddev	.0135	.010	.023	.00228	.00146	.0007
%RSD	2.931	.4183	.9494	.49819	.27684	.1310

#1	.4747	2.460	2.421	.45517	.52476	.4959
#2	.4459	2.466	2.451	.45833	.52681	.4959
#3	.4715	2.484	2.474	.46048	.52710	.4972
#4	.4558	2.475	2.434	.45667	.52419	.4959

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	.4921	2.457	.4940	.4948	.4936	.4901
Stddev	.0025	.010	.0036	.0023	.0053	.0020
%RSD	.5155	.4112	.7245	.4736	1.071	.4113

#1	.4905	2.446	.4911	.4917	.5000	.4886
#2	.4918	2.456	.4975	.4966	.4939	.4918
#3	.4958	2.470	.4965	.4966	.4870	.4918
#4	.4903	2.453	.4907	.4942	.4936	.4881

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	2.450	1.9803	.95982	.9795	.4928	4.928
Stddev	.011	.0066	.00244	.0052	.0020	.006
%RSD	.4366	.33476	.25392	.5267	.4152	.1211

#1	2.449	1.9761	.96266	.9738	.4933	4.930
#2	2.465	1.9741	.95996	.9842	.4928	4.922
#3	2.439	1.9888	.95997	.9836	.4951	4.936
#4	2.448	1.9824	.95670	.9765	.4901	4.925

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: 05/26/10 09:00

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.439	.4892	.4615	2.412	.4921	.4927
Stddev	.025	.0049	.0037	.023	.0045	.0029
%RSD	1.013	1.007	.8002	.9414	.9095	.5870

#1	2.446	.4852	.4569	2.386	.4866	.4899
#2	2.455	.4851	.4652	2.439	.4913	.4931
#3	2.402	.4952	.4636	2.419	.4974	.4966
#4	2.453	.4911	.4603	2.404	.4932	.4913

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	-.0169	.2579	.49021	4.863	.00062	.00156
Stddev	.0083	.0021	.00280	.065	.00007	.00004
%RSD	49.21	.8012	.57187	1.344	10.508	2.3041

#1	-.0094	.2581	.49368	4.821	.00059	.00156
#2	-.0186	.2601	.48723	4.929	.00071	.00158
#3	-.0117	.2583	.48885	4.909	.00056	.00150
#4	-.0279	.2551	.49110	4.795	.00062	.00158

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	189.11
Stddev	.47
%RSD	.25054

#1	189.49
#2	188.81
#3	188.61
#4	189.55

Method: 2010A	Sample Name: CCB		Operator:		
Comment:	Run Time: 05/26/10 09:06		Type: QC	Mode: CONC	Corr.Fact: 1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	.0070	.0041	-.00010	.00002
Stddev	.0091	.0012	.0044	.00006	.00000
%RSD	634.8	17.74	108.8	58.687	9.4147
#1	.0050	.0061	.0009	-.00015	.00002
#2	-.0079	.0079	.0072	-.00006	.00003
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	.0002	.0003	.0053	.0013	.0005
Stddev	.0005	.0003	.0007	.0010	.0003
%RSD	273.8	92.82	13.42	74.03	58.73
#1	-.0002	.0001	.0048	.0020	.0007
#2	.0005	.0004	.0058	.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	.0023	.0003	.0047	.00023	.00067
Stddev	.0006	.0010	.0050	.00002	.00000
%RSD	28.23	311.4	107.1	7.8196	.16970
#1	.0018	.0010	.0011	.00024	.00067
#2	.0027	-.0004	.0083	.00022	.00067
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	.0012	.0008	-.0066	.0035	.0013
Stddev	.0004	.0005	.0039	.0039	.0000
%RSD	30.08	67.97	59.31	113.0	.1549
#1	.0010	.0011	-.0038	.0062	.0013
#2	.0015	.0004	-.0093	.0007	.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: 05/26/10 09:06

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0140	.0019	-.0010	.0036
Stddev	.0005	.0026	.0017	.0002	.0022
%RSD	235.5	18.55	86.80	18.77	62.17

#1	.0006	.0159	.0031	-.0011	.0020
#2	-.0001	.0122	.0007	-.0008	.0052

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	-.0008	.00014	.0066	-.00022	.00003
Stddev	.0003	.00090	.0196	.00051	.00003
%RSD	32.07	638.82	298.2	226.81	116.10

#1	-.0010	.00077	.0204	.00013	.00001
#2	-.0007	-.00049	-.0073	-.00058	.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	185.88
Stddev	1.04
%RSD	.55822

#1	185.15
#2	186.61

Method: 2010A Sample Name: CRI *UCPN-41-A* Operator:
 Comment:
 Run Time: 05/26/10 09:09 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0605	.0442	.0846	.00464	.00452	.0481
Stddev	.0241	.0006	.0009	.00015	.00002	.0004
%RSD	39.82	1.427	1.078	3.2488	.42054	.8634

#1	.0775	.0438	.0840	.00454	.00453	.0484
#2	.0434	.0446	.0853	.00475	.00451	.0478

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	.0043	.0429	.0047	.0103	.0096	.0204
Stddev	.0001	.0014	.0005	.0008	.0004	.0006
%RSD	1.374	3.341	11.21	7.448	4.441	2.771

#1	.0044	.0419	.0044	.0097	.0099	.0208
#2	.0043	.0439	.0051	.0108	.0093	.0200

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	.0437	.01737	.00469	.0076	.0196	.4069
Stddev	.0002	.00013	.00013	.0002	.0003	.0090
%RSD	.5378	.72285	2.8142	1.990	1.343	2.210

#1	.0439	.01728	.00460	.0075	.0194	.4133
#2	.0435	.01746	.00478	.0077	.0198	.4006

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	.0946	.0066	.2013	.0328	.0082	.0087
Stddev	.0195	.0009	.0023	.0042	.0015	.0007
%RSD	20.67	13.50	1.163	12.90	18.34	8.578

#1	.0808	.0073	.2029	.0298	.0093	.0093
#2	.1084	.0060	.1996	.0358	.0071	.0082

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: 05/26/10 09:09

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1832	.3838	.00741	.1495	.00985	.00881
Stddev	.0132	.0023	.00139	.0251	.00027	.00004
%RSD	7.179	.6061	18.746	16.81	2.7494	.49824

#1	.1925	.3821	.00643	.1673	.01004	.00884
#2	.1739	.3854	.00840	.1317	.00966	.00878

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	188.15
Stddev	.84
%RSD	.44527

#1	187.56
#2	188.75

Method: 2010A Sample Name: ICSA *ICPM-43-B* Operator:
 Comment:
 Run Time: 05/26/10 09:12 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	511.5	.0678	-.0015	-.00012	.00003	-.1824
Stddev	.7	.0216	.0084	.00007	.00003	.0009
%RSD	.1361	31.81	571.2	56.041	125.31	.5066

#1	512.0	.0525	.0045	-.00007	.00005	-.1831
#2	511.0	.0830	-.0075	-.00017	.00000	-.1818

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	.0121	488.6	-.0025	.0002	.0021	201.1
Stddev	.0002	.9	.0016	.0008	.0020	.8
%RSD	1.473	.1794	64.39	448.0	92.88	.4056

#1	.0120	489.3	-.0036	-.0004	.0036	200.5
#2	.0123	488.0	-.0013	.0008	.0007	201.6

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	.0030	513.7	.00428	.0029	-.0021	-.0344
Stddev	.0092	1.0	.00015	.0024	.0006	.0130
%RSD	303.8	.1853	3.5985	82.95	27.56	37.89

#1	.0095	514.4	.00417	.0047	-.0025	-.0436
#2	-.0035	513.1	.00439	.0012	-.0017	-.0252

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	.0145	-.0005	.0820	-.0122	.0007	.0065
Stddev	.0098	.0038	.0014	.0011	.0029	.0000
%RSD	67.47	799.9	1.730	8.883	422.4	.1675

#1	.0214	.0022	.0830	-.0114	-.0014	.0065
#2	.0076	-.0032	.0810	-.0130	.0028	.0065

Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ICSA Run Time: 05/26/10 09:12

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0357	-.0143	.01081	-.0597	.01030	.02076
Stddev	.0103	.0024	.00111	.0105	.00030	.00046
%RSD	28.84	16.92	10.304	17.65	2.9182	2.2223

#1	.0430	-.0126	.01160	-.0671	.01008	.02109
#2	.0284	-.0160	.01003	-.0522	.01051	.02044

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	170.84
Stddev	.50
%RSD	.29140

#1	170.48
#2	171.19

Method: 2010A

Sample Name: ICSAB

Operator:

Comment:

ICP-38-C

Run Time: 05/26/10 09:15 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	510.0	1.063	.0029	.47281	.53033	-.1761
Stddev	2.2	.036	.0085	.00145	.00153	.0006
%RSD	.4325	3.369	296.5	.30590	.28768	.3297

#1	508.4	1.038	.0089	.47179	.53141	-.1756
#2	511.5	1.088	-.0031	.47383	.52925	-.1765

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	.9863	489.4	.5025	.4864	.4839	198.8
Stddev	.0019	4.1	.0035	.0012	.0004	.2
%RSD	.1898	.8392	.7038	.2374	.0854	.1126

#1	.9850	486.5	.5050	.4872	.4842	198.6
#2	.9877	492.4	.5000	.4855	.4836	199.0

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	1.001	511.1	.45982	.0022	.9529	-.0452
Stddev	.017	.8	.00062	.0000	.0000	.0097
%RSD	1.648	.1601	.13573	1.690	.0003	21.44

#1	.9894	511.7	.45938	.0023	.9529	-.0383
#2	1.013	510.5	.46026	.0022	.9529	-.0521

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	.0151	.9974	.0645	-.0208	.5069	.9666
Stddev	.0291	.0022	.0045	.0123	.0029	.0017
%RSD	193.0	.2224	6.958	59.41	.5814	.1737

#1	.0357	.9990	.0677	-.0120	.5089	.9654
#2	-.0055	.9958	.0613	-.0295	.5048	.9678

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: 05/26/10 09:15

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0291	-.0048	.01075	-.0663	.01003	.02053
Stddev	.0069	.0030	.00123	.0443	.00054	.00040
%RSD	23.66	61.20	11.419	66.86	5.3342	1.9423

#1	.0243	-.0027	.01161	-.0977	.00965	.02081
#2	.0340	-.0069	.00988	-.0350	.01041	.02024

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	172.56
Stddev	.60
%RSD	.34961

#1	172.14
#2	172.99

Method: 2010A Sample Name: ICSAB

Operator:

Comment:

Run Time: 05/26/10 09:18 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B 2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	507.5	1.067	-.0166	.46342	.52252	-.1731
Stddev	.7	.001	.0005	.00412	.00213	.0007
%RSD	.1340	.1121	3.247	.88803	.40835	.4056

#1	507.0	1.066	-.0162	.46051	.52403	-.1726
#2	507.9	1.068	-.0170	.46633	.52101	-.1736

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	Co2285	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9663	485.8	.4907	.4759	.4926	195.2
Stddev	.0032	7.1	.0023	.0010	.0082	.9
%RSD	.3356	1.452	.4595	.2102	1.662	.4515

#1	.9640	480.8	.4892	.4752	.4868	194.5
#2	.9686	490.8	.4923	.4766	.4984	195.8

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	.9883	509.0	.45102	.0009	.9328	-.0361
Stddev	.0008	2.1	.00246	.0004	.0021	.0058
%RSD	.0815	.4194	.54490	47.57	.2215	16.01

#1	.9888	510.5	.44928	.0006	.9313	-.0402
#2	.9877	507.5	.45275	.0013	.9343	-.0320

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	.0430	.9924	.0633	-.0220	.4980	.9485
Stddev	.0028	.0107	.0013	.0052	.0008	.0080
%RSD	6.585	1.081	2.097	23.59	.1670	.8485

#1	.0450	.9999	.0642	-.0183	.4974	.9428
#2	.0410	.9848	.0623	-.0257	.4986	.9541

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

SC
5/26/10

Sample Name: ICSAB Run Time: 05/26/10 09:18

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194	-.0041	.01013	-.0639	.00989	.01982
Stddev	.0040	.0069	.00238	.0275	.00041	.00098
%RSD	20.46	169.6	23.503	42.98	4.1825	4.9449

#1	.0223	-.0089	.00845	-.0445	.01019	.02052
#2	.0166	.0008	.01181	-.0833	.00960	.01913

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	174.73
Stddev	.46
%RSD	.26331

#1	174.41
#2	175.06

*3C
5/26/10*

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 09:21 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.028	.0046	-.0047	2.4907	.04961	-.0183
Stddev	.081	.0019	.0036	.0202	.00001	.0010
%RSD	1.601	40.18	75.44	.80907	.02095	5.541

#1	5.085	.0033	-.0022	2.5049	.04960	-.0190
#2	4.971	.0059	-.0073	2.4764	.04962	-.0176

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	.0027	25.67	.0031	-.0012	-.0012	25.20
Stddev	.0001	.18	.0004	.0008	.0020	.11
%RSD	4.348	.7115	13.60	62.85	165.7	.4464

#1	.0026	25.54	.0034	-.0007	.0002	25.27
#2	.0028	25.80	.0028	-.0018	-.0026	25.12

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	.0030	24.96	4.925	-.0012	-.0031	9.906
Stddev	.0031	.00	.007	.0001	.0005	.032
%RSD	102.5	.0129	.1334	4.780	15.56	.3241

#1	.0052	24.96	4.929	-.0012	-.0028	9.929
#2	.0008	24.96	4.920	-.0011	-.0035	9.884

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	.0046	.0024	9.805	.0094	.0033	.0010
Stddev	.0010	.0011	.067	.0008	.0015	.0000
%RSD	21.06	47.12	.6840	8.962	44.63	4.257

#1	.0039	.0032	9.853	.0100	.0022	.0009
#2	.0053	.0016	9.758	.0088	.0043	.0010

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

Sample Name: CCVB Run Time: 05/26/10 09:21

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.964	2.498	.00023	-.0228	.49480	.49879
Stddev	.035	.005	.00087	.0130	.00274	.00166
%RSD	.3503	.2187	374.12	56.93	.55320	.33375
#1	9.989	2.502	.00085	-.0136	.49674	.49997
#2	9.939	2.494	-.00038	-.0319	.49286	.49761
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	185.15					
Stddev	.74					
%RSD	.40214					
#1	184.62					
#2	185.68					

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 09:24 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4828	2.455	2.452	.45603	.51986	.4944
Stddev	.0220	.021	.003	.00117	.00133	.0010
%RSD	4.564	.8733	.1074	.25680	.25542	.1935

#1	.4984	2.439	2.450	.45686	.52080	.4950
#2	.4672	2.470	2.454	.45520	.51892	.4937

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	.4939	2.400	.4993	.4915	.5029	.4993
Stddev	.0008	.043	.0004	.0018	.0015	.0115
%RSD	.1575	1.779	.0773	.3714	.2955	2.303

#1	.4944	2.370	.4996	.4928	.5040	.5074
#2	.4933	2.430	.4990	.4902	.5019	.4912

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	2.432	1.9638	.96623	.9698	.4899	4.878
Stddev	.023	.0057	.00419	.0012	.0009	.005
%RSD	.9494	.28866	.43409	.1240	.1909	.0996

#1	2.416	1.9598	.96326	.9689	.4892	4.881
#2	2.449	1.9678	.96920	.9706	.4906	4.874

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	2.404	.4880	.4673	2.391	.4886	.4953
Stddev	.037	.0049	.0071	.011	.0007	.0011
%RSD	1.560	1.008	1.513	.4556	.1414	.2254

#1	2.377	.4845	.4723	2.383	.4891	.4945
#2	2.430	.4915	.4623	2.399	.4881	.4961

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: 05/26/10 09:24

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.2539	.48923	4.871	.00012	.00167
Stddev	.0080	.0012	.00136	.024	.00018	.00007
%RSD	4067.	.4785	.27761	.4913	153.03	4.4084

#1	.0059	.2530	.48827	4.888	.00024	.00173
#2	-.0055	.2547	.49019	4.855	-.00001	.00162

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	188.70
Stddev	.76
%RSD	.40384

#1	188.16
#2	189.24

Method: 2010A Sample Name: CCB Operator:
 Comment:
 Run Time: 05/26/10 09:27 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.0109	.0028	-.00004	.00008	.0003
Stddev	.0261	.0080	.0142	.00018	.00004	.0000
%RSD	735.7	73.68	502.7	431.96	51.750	14.77

#1	-.0149	.0166	-.0072	-.00017	.00011	.0003
#2	.0220	.0052	.0129	.00009	.00005	.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	-.0002	.0000	.0008	.0011	.0004	.0023
Stddev	.0005	.005	.0001	.0004	.0010	.0004
%RSD	295.8	111500.	16.25	34.30	254.0	18.42

#1	.0002	-.0033	.0009	.0008	.0010	.0026
#2	-.0005	.0033	.0008	.0013	-.0003	.0020

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	-.0058	.00034	.00077	.0002	-.0003	-.0008
Stddev	.0030	.00010	.00016	.0008	.0002	.0028
%RSD	52.36	28.593	20.175	330.9	66.52	359.2

#1	-.0079	.00041	.00088	.0008	-.0002	.0012
#2	-.0036	.00027	.00066	-.0003	-.0005	-.0027

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	.0028	.0022	-.0032	.0057	-.0005	-.0008
Stddev	.0029	.0031	.0027	.0023	.0020	.0005
%RSD	106.0	141.4	84.61	40.66	407.1	68.91

#1	.0048	.0000	-.0052	.0073	-.0019	-.0004
#2	.0007	.0044	-.0013	.0040	.0009	-.0012

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: CCB Run Time: 05/26/10 09:27

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	.0020	-.00234	.0176	.00020	.00008
Stddev	.0078	.0021	.00296	.0223	.00026	.00002
%RSD	644.8	104.4	126.45	126.4	129.46	18.939
#1	-.0068	.0005	-.00025	.0334	.00038	.00009
#2	.0043	.0035	-.00443	.0019	.00002	.00007
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	186.03					
Stddev	.04					
%RSD	.02395					
#1	186.00					
#2	186.06					

Method: 2010A Sample Name: K1004575-MB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 09:50 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0050	-.0005	.0066	.00005	.00000

#1	.0036	-.0018	.0041	-.00009	.00001
#2	-.0135	.0008	.0091	.00019	-.00001

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0002	.0013	.0001	-.0006

#1	.0005	-.0004	.0099	.0003	-.0009
#2	.0003	.0007	-.0073	.0000	-.0003

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0001	-.0051	.00006	-.00003

#1	.0012	.0003	-.0071	.00006	-.00005
#2	-.0013	-.0005	-.0032	.00006	.00000

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	-.0003	-.0081	-.0028	.0030

#1	-.0023	.0004	-.0123	.0035	.0047
#2	-.0016	-.0010	-.0039	-.0090	.0013

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0025	.0008	.0040	-.0012	.2170

#1	-.0034	.0051	.0032	-.0013	.2230
#2	-.0016	-.0034	.0049	-.0011	.2110

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0042	-.00316	.0185	-.00032	-.00009

#1	.0041	-.00366	.0148	-.00042	-.00008
#2	.0043	-.00266	.0223	-.00021	-.00009

Int. Std.	Sc3572
Units	Cts/S
Avg	185.94

#1	185.59
#2	186.29

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1004575 (202239) (052610A)
 Run Time: 05/26/10 09:53 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.034	2.608	2.556	5.0790	.12491	1.027
#1	5.034	2.613	2.550	5.0810	.12509	1.025
#2	5.035	2.603	2.562	5.0771	.12473	1.028
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.255	12.39	.5147	1.260	.6388	2.504
#1	1.256	12.35	.5164	1.261	.6376	2.496
#2	1.254	12.43	.5130	1.258	.6401	2.511
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.522	12.51	1.2228	1.006	1.254	12.73
#1	2.521	12.50	1.2322	1.002	1.253	12.80
#2	2.523	12.52	1.2133	1.009	1.255	12.66
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.525	.6180	12.70	.0105	1.259	1.261
#1	2.488	.6142	12.86	.0125	1.266	1.261
#2	2.561	.6218	12.55	.0085	1.253	1.262
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2327	.0114	-.00085	2.461	.00044	.00702
#1	.2397	.0102	-.00142	2.467	.00012	.00705
#2	.2256	.0127	-.00027	2.455	.00077	.00699
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.17					
#1	183.58					
#2	184.75					

Method: 2010A Sample Name: K1004575-001 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 09:56 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.067	.0155	.0045	.15045	-.00003	.0046
#1	1.066	.0203	.0045	.14994	-.00002	.0042
#2	1.069	.0106	.0045	.15096	-.00004	.0050
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	58.02	.0017	.0053	.0015	2.066
#1	.0015	57.61	.0016	.0050	.0018	2.062
#2	.0010	58.42	.0018	.0055	.0012	2.069
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	22.78	.55958	.0065	.0040	7.219
#1	.0109	22.76	.55764	.0089	.0042	7.257
#2	.0001	22.79	.56152	.0040	.0038	7.181
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0361	.0014	31.92	.0046	.0043	.0064
#1	.0326	.0028	32.13	.0061	.0029	.0068
#2	.0395	.0000	31.71	.0031	.0057	.0059
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3200	32.82	.06479	-.0145	.01522	.28726
#1	.3240	32.80	.06468	-.0221	.01529	.28813
#2	.3159	32.84	.06491	-.0070	.01514	.28640
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.22					
#1	183.88					
#2	184.57					

Method: 2010A Sample Name: K1004575-001D Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 09:59 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.079	-.0047	.0098	.15250	.00001	.0041
#1	1.077	-.0077	.0146	.15334	.00002	.0038
#2	1.080	-.0016	.0051	.15166	.00000	.0044
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	58.67	.0039	.0057	.0024	2.091
#1	.0011	58.47	.0044	.0063	.0020	2.100
#2	.0008	58.88	.0034	.0050	.0027	2.081
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	22.82	.56342	.0051	.0033	7.305
#1	.0134	22.89	.56517	.0041	.0032	7.294
#2	-.0020	22.74	.56167	.0060	.0034	7.315
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	-.0015	32.48	.0026	.0067	.0076
#1	.0009	.0012	32.75	.0000	.0073	.0085
#2	.0092	-.0042	32.21	.0052	.0060	.0067
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3207	33.10	.06770	.0012	.01565	.29003
#1	.3184	33.13	.06583	-.0036	.01567	.29145
#2	.3229	33.07	.06958	.0060	.01563	.28860
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.76					
#1	181.88					
#2	183.64					

Method: 2010A Sample Name: K1004575-001L Operator: JC
 Comment: 1/5 (202239) (052610A)
 Run Time: 05/26/10 10:01 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2163	.0022	-.0014	.03039	-.00006	.0006

#1	.2141	.0035	-.0030	.03036	-.00009	.0010
#2	.2185	.0009	.0001	.03041	-.00002	.0002

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	11.94	.0003	.0011	.0014	.4187

#1	.0001	11.93	.0001	.0016	.0017	.4198
#2	.0001	11.96	.0004	.0006	.0011	.4177

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	4.5129	.11294	-.0002	-.0004	1.405

#1	.0082	4.5285	.11325	.0000	-.0006	1.410
#2	.0005	4.4973	.11264	-.0005	-.0002	1.401

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097	.0028	6.035	-.0005	.0034	-.0001

#1	.0118	.0038	6.040	-.0004	.0032	.0002
#2	.0076	.0019	6.029	-.0006	.0037	-.0003

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0658	6.038	.01207	.0099	.00273	.05684

#1	.0670	6.042	.01111	-.0030	.00247	.05721
#2	.0645	6.034	.01304	.0228	.00298	.05648

Int. Std.	Sc3572
Units	Cts/S
Avg	188.31

#1	187.67
#2	188.94

Method: 2010A Sample Name: K1004575-001S Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:04 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.262	.4694	1.023	2.1417	.04793	1.030
#1	3.257	.4747	1.011	2.1437	.04788	1.031
#2	3.268	.4642	1.036	2.1397	.04798	1.029
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0493	58.72	.2003	.4817	.2395	3.256
#1	.0492	58.94	.2015	.4822	.2403	3.259
#2	.0494	58.49	.1992	.4811	.2387	3.252
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4672	23.03	1.0688	1.011	.4794	7.366
#1	.4672	23.15	1.0644	1.010	.4836	7.353
#2	.4671	22.92	1.0733	1.011	.4752	7.379
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9960	.0462	32.82	.0053	.4936	.4896
#1	.9981	.0454	32.91	-.0010	.4910	.4891
#2	.9939	.0470	32.73	.0116	.4962	.4900
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3448	33.62	.06342	.9541	.01578	.29274
#1	.3409	33.62	.06230	.9683	.01604	.29266
#2	.3488	33.63	.06453	.9400	.01552	.29283
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.84					
#1	182.66					
#2	183.03					

Method: 2010A Sample Name: K1004575-002 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:07 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1323	.0092	.0145	.09900	-.00007	.0287

#1	.1302	.0018	.0101	.09869	-.00005	.0296
#2	.1344	.0166	.0189	.09931	-.00008	.0279

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	151.1	.0023	.0122	.0011	.1989

#1	.0009	150.6	.0022	.0117	.0012	.1996
#2	.0010	151.5	.0024	.0127	.0011	.1983

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0060	52.58	1.2011	.0384	.0132	14.73

#1	-.0069	52.80	1.1982	.0398	.0127	14.69
#2	-.0051	52.35	1.2040	.0370	.0136	14.77

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.0013	138.7	-.0005	.0046	.0010

#1	.0104	.0016	138.5	-.0045	.0012	.0009
#2	.0104	.0010	138.9	.0034	.0080	.0011

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3009	22.15	.00538	.0080	.01348	.85389

#1	.2972	22.25	.00537	-.0033	.01342	.85636
#2	.3046	22.06	.00540	.0194	.01355	.85143

Int. Std.	Sc3572
Units	Cts/S
Avg	182.26

#1	182.04
#2	182.47

Method: 2010A Sample Name: K1004575-003 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:10 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1273	.0034	.0155	.09864	-.00011	.0305

#1	.1188	.0008	.0126	.09904	-.00004	.0311
#2	.1358	.0060	.0183	.09825	-.00017	.0298

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	151.7	.0004	.0130	-.0015	.1802

#1	.0013	150.9	.0005	.0131	-.0030	.1808
#2	.0016	152.6	.0003	.0129	.0000	.1795

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	52.96	1.2078	.0353	.0121	14.91

#1	.0028	52.95	1.2115	.0366	.0127	14.92
#2	-.0043	52.98	1.2042	.0340	.0116	14.90

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	.0032	140.2	.0102	.0058	.0014

#1	.0007	.0019	140.9	.0065	.0051	.0012
#2	.0159	.0044	139.6	.0139	.0064	.0015

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3066	22.14	.00507	.0033	.01358	.86630

#1	.2993	22.14	.00616	-.0015	.01393	.86881
#2	.3139	22.13	.00398	.0080	.01323	.86379

Int. Std.	Sc3572
Units	Cts/S
Avg	181.74

#1	181.49
#2	181.98

Method: 2010A Sample Name: K1004575-004 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 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	.0156	-.0005	.0000	-.00008	.00004	-.0001

#1	.0064	-.0035	-.0085	-.00041	.00007	-.0001
#2	.0248	.0026	.0085	.00026	.00001	-.0001

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0877	.0011	-.0002	.0016	.0026

#1	.0001	.0859	.0010	-.0003	.0012	.0028
#2	.0003	.0894	.0013	.0000	.0021	.0024

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0066	.00746	.00012	-.0012	-.0007	.0079

#1	-.0092	.00822	.00023	-.0018	-.0011	.0174
#2	-.0041	.00670	.00001	-.0005	-.0003	-.0015

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159	.0022	.0257	.0033	.0009	.0001

#1	.0269	.0009	.0260	.0058	.0009	.0002
#2	.0048	.0035	.0255	.0009	.0010	.0000

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2300	.0109	-.00188	-.0001	-.00003	.00020

#1	.2347	.0112	-.00135	-.0114	.00000	.00024
#2	.2253	.0105	-.00242	.0111	-.00006	.00017

Int. Std.	Sc3572
Units	Cts/S
Avg	184.97

#1	184.33
#2	185.62

Method:	2010A	Sample Name:	K1004635-001	Operator:	JC
Comment:		(202239)	(052610A)		
Run Time:	05/26/10 10:16	Type:	Unk	Mode:	CONC
				Corr.Fact:	1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0081	-.0017	.06553	-.00003
#1	.0135	.0116	.0021	.06523	-.00004
#2	-.0149	.0046	-.0055	.06582	-.00002
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0066	-.0003	104.8	.0014	.0021
#1	.0063	-.0002	104.5	.0006	.0017
#2	.0069	-.0003	105.0	.0021	.0026
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0202	.0031	33.34	.17435
#1	-.0010	.0199	.0009	33.41	.17442
#2	-.0010	.0204	.0053	33.27	.17429
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0117	.0020	6.135	.0083	.0033
#1	.0119	.0022	6.148	.0104	.0038
#2	.0114	.0018	6.122	.0062	.0029
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	26.86	.0018	.0038	.0000	.2237
#1	27.04	-.0041	.0047	-.0001	.2178
#2	26.69	.0076	.0030	.0001	.2295
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	19.13	-.00136	-.0125	.01169	.39288
#1	19.13	-.00145	-.0182	.01151	.39355
#2	19.14	-.00127	-.0068	.01187	.39221
Int. Std.	Sc3572				
Units	Cts/S				
Avg	182.51				
#1	182.29				
#2	182.73				

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 10:19 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.032	-.0002	-.0022	2.4912	.05012	-.0178
Stddev	.033	.0050	.0062	.0032	.00005	.0006
%RSD	.6459	2772.	280.8	.12878	.10238	3.426

#1	5.009	-.0037	.0022	2.4889	.05009	-.0182
#2	5.055	.0033	-.0066	2.4934	.05016	-.0174

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	25.34	.0021	-.0010	-.0011	25.13
Stddev	.0002	.06	.0005	.0023	.0005	.11
%RSD	7.610	.2278	24.60	221.3	49.67	.4193

#1	.0024	25.29	.0025	-.0026	-.0014	25.06
#2	.0021	25.38	.0017	.0006	-.0007	25.21

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	-.0060	25.12	4.957	-.0015	-.0038	9.956
Stddev	.0146	.22	.028	.0019	.0000	.059
%RSD	243.7	.8713	.5608	128.0	.8036	.5980

#1	.0043	24.96	4.937	-.0029	-.0038	9.998
#2	-.0163	25.27	4.977	-.0001	-.0038	9.914

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	-.0065	-.0008	9.780	.0102	.0044	.0003
Stddev	.0068	.0029	.041	.0009	.0021	.0005
%RSD	105.3	367.7	.4199	9.229	47.59	202.6

#1	-.0017	-.0028	9.810	.0109	.0059	-.0001
#2	-.0113	.0013	9.751	.0095	.0029	.0006

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

Sample Name: CCVB Run Time: 05/26/10 10:19

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.963	2.513	.00056	-.0145	.49425	.50331
Stddev	.023	.002	.00088	.0092	.00263	.00129
%RSD	.2305	.0720	157.01	63.47	.53248	.25665
#1	9.946	2.512	.00118	-.0210	.49611	.50240
#2	9.979	2.514	-.00006	-.0080	.49239	.50423
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	184.71					
Stddev	.23					
%RSD	.12372					
#1	184.88					
#2	184.55					

Method: 2010A Sample Name: CCVA Operator:
 Comment:
 Run Time: 05/26/10 10:22 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4708	2.448	2.454	.45603	.52703	.4969
Stddev	.0031	.002	.001	.00143	.00120	.0010
%RSD	.6632	.0769	.0466	.31382	.22797	.2054
#1	.4685	2.447	2.454	.45704	.52788	.4976
#2	.4730	2.449	2.453	.45502	.52618	.4961
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	.4925	2.425	.4935	.4924	.5043	.5036
Stddev	.0006	.010	.0024	.0041	.0004	.0099
%RSD	.1118	.4204	.4812	.8295	.0713	1.964
#1	.4922	2.418	.4952	.4953	.5046	.5106
#2	.4929	2.432	.4918	.4895	.5041	.4966
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	2.459	1.9799	.96289	.9764	.4915	5.015
Stddev	.000	.0016	.01027	.0003	.0001	.017
%RSD	.0047	.08281	1.0668	.0292	.0273	.3294
#1	2.459	1.9810	.97015	.9766	.4914	5.004
#2	2.459	1.9787	.95563	.9762	.4916	5.027
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	2.442	.4894	.4720	2.391	.4944	.4901
Stddev	.035	.0015	.0036	.008	.0032	.0025
%RSD	1.454	.3109	.7668	.3485	.6395	.5029
#1	2.467	.4883	.4695	2.397	.4922	.4918
#2	2.417	.4904	.4746	2.385	.4967	.4884
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: 05/26/10 10:22

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0118	.2637	.49145	4.881	.00016	.00169
Stddev	.0030	.0043	.00246	.017	.00022	.00006
%RSD	25.82	1.649	.50083	.3469	138.22	3.3820

#1	-.0140	.2667	.48971	4.869	.00000	.00165
#2	-.0097	.2606	.49320	4.893	.00032	.00174

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	188.53
Stddev	.25
%RSD	.13027

#1	188.36
#2	188.71

Method: 2010A Sample Name: CCB Operator:
 Comment:
 Run Time: 05/26/10 10:25 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227	.0079	.0063	.00031	.00010	.0005
Stddev	.0130	.0136	.0022	.00015	.00006	.0002
%RSD	57.35	172.4	35.36	46.956	58.430	34.46

#1	.0135	.0175	.0047	.00042	.00006	.0004
#2	.0320	-.0017	.0079	.00021	.00014	.0006

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	-.0005	.0091	.0009	.0009	.0028	.0036
Stddev	.0004	.0047	.0002	.0003	.0006	.0005
%RSD	86.08	50.97	21.14	30.76	22.40	13.27

#1	-.0008	.0124	.0007	.0007	.0024	.0039
#2	-.0002	.0058	.0010	.0011	.0033	.0033

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	.0010	.00283	.00084	.0022	-.0011	.0047
Stddev	.0034	.00000	.00007	.0012	.0002	.0132
%RSD	349.5	.01673	8.1951	53.02	16.83	284.1

#1	.0033	.00283	.00089	.0030	-.0010	-.0047
#2	-.0014	.00283	.00079	.0014	-.0012	.0140

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	.0055	.0036	.0027	-.0024	.0019	-.0003
Stddev	.0088	.0025	.0016	.0063	.0012	.0001
%RSD	159.1	67.63	59.12	260.1	65.44	23.31

#1	-.0007	.0019	.0015	.0020	.0010	-.0004
#2	.0117	.0054	.0038	-.0068	.0028	-.0003

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: CCB Run Time: 05/26/10 10:25

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0032	.0000	-.00140	.0120	.00022	.00007
Stddev	.0014	.0037	.00130	.0066	.00022	.00004
%RSD	43.17	29510.	93.033	55.01	101.78	53.882

#1	-.0042	.0026	-.00231	.0167	.00038	.00010
#2	-.0022	-.0026	-.00048	.0073	.00006	.00005

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	184.67
Stddev	.00
%RSD	.00137

#1	184.68
#2	184.67

Method: 2010A Sample Name: K1004635-002 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 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	.0036	-.0018	.0094	.00014	-.00002	-.0003

#1	.0050	.0043	.0154	.00005	-.00002	-.0007
#2	.0021	-.0079	.0035	.00024	-.00002	.0002

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0761	.0010	.0003	.0018	.0040

#1	.0007	.0753	.0018	.0009	.0021	.0044
#2	.0004	.0769	.0002	-.0003	.0015	.0036

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0059	.01208	.00002	-.0020	.0016	.0077

#1	-.0040	.01216	-.00005	-.0009	.0011	.0128
#2	-.0079	.01200	.00009	-.0030	.0021	.0026

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	.0032	.0366	.0034	.0005	.0002

#1	.0007	.0016	.0391	.0060	.0006	.0003
#2	.0076	.0047	.0341	.0008	.0004	.0001

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2333	.0073	-.00003	.0101	-.00013	.00032

#1	.2329	.0075	-.00105	.0185	-.00033	.00036
#2	.2336	.0070	.00098	.0016	.00007	.00028

Int. Std.	Sc3572
Units	Cts/S
Avg	183.62

#1	183.56
#2	183.68

Method: 2010A Sample Name: K1004635-003 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:31 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1744	.0016	.0015	.27913	-.00006	.0102
#1	.1901	-.0032	.0040	.27970	-.00004	.0106
#2	.1587	.0064	-.0011	.27857	-.00009	.0098
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	130.8	.0015	.0060	-.0007	.4401
#1	.0004	130.2	.0024	.0062	-.0009	.4424
#2	.0011	131.4	.0006	.0058	-.0006	.4378
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	47.20	.06285	.0151	.0033	7.987
#1	.0037	47.26	.06298	.0158	.0030	7.980
#2	-.0017	47.15	.06272	.0144	.0035	7.994
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166	.0005	127.3	-.0091	.0060	.0009
#1	.0242	.0022	127.7	-.0043	.0055	.0012
#2	.0090	-.0013	126.9	-.0140	.0064	.0007
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2674	21.70	.00716	.0095	.01938	.62964
#1	.2706	21.67	.00672	.0113	.01903	.63151
#2	.2642	21.73	.00761	.0077	.01973	.62777
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.89					
#1	181.22					
#2	182.56					

Method: 2010A Sample Name: RB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:34 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0107	-.0009	-.0006	-.00014	-.00001

#1	-.0149	.0000	-.0041	-.00045	-.00001
#2	-.0064	-.0018	.0028	.00018	.00000

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0013	-.0003	.0071	.0000	.0002

#1	.0009	-.0004	.0089	-.0014	.0006
#2	.0017	-.0002	.0053	.0013	-.0003

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0008	-.0064	.00059	-.00011

#1	.0009	-.0006	-.0178	.00089	-.00005
#2	-.0004	-.0010	.0049	.00029	-.00017

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0002	.0115	.0000	-.0003

#1	-.0008	.0005	-.0081	-.0035	-.0025
#2	-.0022	-.0001	.0310	.0035	.0019

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0156	.0054	.0023	-.0005	-.0006

#1	.0163	.0049	.0034	-.0012	-.0018
#2	.0149	.0059	.0012	.0002	.0006

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0016	-.00151	.0018	-.00045	.00000

#1	.0029	-.00133	.0129	-.00065	.00000
#2	.0004	-.00168	-.0093	-.00025	.00000

Int. Std.	Sc3572
Units	Cts/S
Avg	185.08

#1	184.34
#2	185.82

Method: 2010A Sample Name: K1005150-001 Operator: JC
 Comment: RERUN (202239) (052610A)
 Run Time: 05/26/10 10:38 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.08	.0121	-.0045	.01760	.00051	.0010
#1	12.08	.0138	-.0114	.01748	.00051	.0010
#2	12.09	.0104	.0024	.01772	.00051	.0011
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1507	333.8	.0117	.1304	.4813	13.22
#1	.1505	331.3	.0125	.1289	.4828	13.21
#2	.1509	336.3	.0109	.1318	.4798	13.23
Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0079	28.02	5.985	-.0015	1.037	1.702
#1	-.0108	27.94	5.975	-.0018	1.034	1.693
#2	-.0050	28.11	5.995	-.0011	1.041	1.710
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0190	.0032	4.393	.0059	.0034	18.09
#1	.0252	.0028	4.383	.0065	.0045	18.05
#2	.0127	.0035	4.402	.0052	.0023	18.13
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1582	11.18	-.00087	-.0145	.06444	1.5672
#1	.1580	11.14	-.00082	-.0173	.06444	1.5611
#2	.1584	11.22	-.00093	-.0117	.06443	1.5733
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.35					
#1	181.63					
#2	181.07					

Method: 2010A Sample Name: K1005157-001 Operator: JC
 Comment: RERUN (202239) (052610A)
 Run Time: 05/26/10 10:41 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.37	.0086	.0080	.01802	.00057	-.0002
#1	12.50	.0043	.0115	.01845	.00052	.0005
#2	12.23	.0130	.0045	.01759	.00063	-.0009
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1541	340.2	.0106	.1355	.4800	15.03
#1	.1559	342.0	.0093	.1345	.4786	15.19
#2	.1523	338.3	.0118	.1365	.4814	14.87
Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0035	28.60	6.079	-.0014	1.064	1.720
#1	-.0067	28.90	6.081	-.0015	1.073	1.710
#2	-.0002	28.29	6.077	-.0013	1.054	1.730
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0232	.0033	4.383	.0008	.0054	18.48
#1	.0309	.0032	4.401	-.0064	.0031	18.64
#2	.0156	.0035	4.364	.0080	.0076	18.31
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1856	11.41	.00057	-.0380	.06543	1.5892
#1	.1916	11.48	.00196	-.0401	.06591	1.5915
#2	.1795	11.33	-.00082	-.0360	.06495	1.5869
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.01					
#1	180.39					
#2	181.63					

Method: 2010A Sample Name: RB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:43 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156	-.0044	.0047	-.00004	-.00004	.0008
#1	.0121	-.0140	.0091	-.00021	-.00006	.0008
#2	.0191	.0052	.0003	.00013	-.00002	.0007
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0101	.0005	.0003	.0018	.0047
#1	.0000	.0023	.0010	.0004	.0009	.0085
#2	.0008	.0180	.0000	.0002	.0027	.0010
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	.00030	.00035	-.0008	.0003	-.0076
#1	-.0070	.00048	.00069	-.0013	.0005	.0010
#2	.0025	.00013	.00001	-.0002	.0002	-.0162
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0025	.0160	-.0028	-.0004	.0005
#1	.0007	.0029	.0146	-.0096	-.0019	.0016
#2	.0021	.0022	.0174	.0040	.0011	-.0006
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	.0021	-.00215	-.0002	-.00005	-.00001
#1	.0112	.0018	-.00447	-.0039	.00010	.00002
#2	.0002	.0024	.00017	.0035	-.00019	-.00003
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.36					
#1	184.65					
#2	184.06					

Method: 2010A Sample Name: K1004814-MB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:47 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0078	-.0070	.0013	.00018	.00006

#1	-.0007	-.0097	.0041	-.00016	.00003
#2	-.0149	-.0044	-.0016	.00052	.00009

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0001	.0046	.0010	-.0004

#1	-.0008	.0001	.0069	.0015	-.0003
#2	-.0001	-.0002	.0023	.0004	-.0006

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0011	-.0009	-.0015	.00006	.00001

#1	.0013	-.0008	-.0040	.00008	.00007
#2	.0009	-.0011	.0011	.00003	-.00005

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	.0009	-.0067	.0152	.0033

#1	-.0026	.0014	-.0175	.0242	.0016
#2	-.0020	.0004	.0041	.0062	.0051

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0014	.0005	-.0004	.2214

#1	.0022	.0070	.0005	-.0004	.2149
#2	-.0002	-.0042	.0004	-.0005	.2280

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.00308	-.0010	-.00009	-.00002

#1	.0007	-.00178	.0018	.00000	.00000
#2	.0000	-.00438	-.0038	-.00017	-.00005

Int. Std.	Sc3572
Units	Cts/S
Avg	185.24

#1	185.03
#2	185.45

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1004814 (202239) (052610A)
 Run Time: 05/26/10 10:50 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.084	2.835	2.585	5.3318	.12889	1.049

#1	5.094	2.826	2.572	5.3252	.12896	1.048
#2	5.074	2.844	2.598	5.3384	.12882	1.050

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.284	12.52	.5249	1.288	.6442	2.578

#1	1.287	12.49	.5257	1.293	.6442	2.585
#2	1.282	12.55	.5240	1.284	.6442	2.570

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.590	12.69	1.2478	1.031	1.284	13.05

#1	2.602	12.72	1.2506	1.026	1.289	13.10
#2	2.579	12.66	1.2450	1.036	1.280	13.01

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.612	.6304	13.03	.0013	1.288	1.285

#1	2.623	.6285	13.11	.0071	1.291	1.284
#2	2.601	.6323	12.95	-.0045	1.286	1.287

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2123	.0072	.00121	2.576	-.00011	.00706

#1	.2216	.0078	.00298	2.574	-.00037	.00713
#2	.2029	.0066	-.00057	2.579	.00014	.00699

Int. Std.	Sc3572
Units	Cts/S
Avg	183.34

#1	182.51
#2	184.17

Method: 2010A Sample Name: K1004814-003 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:52 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0257	.0092	.0236	.12398	-.00007	.0143
#1	.0292	.0087	.0236	.12408	-.00006	.0137
#2	.0221	.0096	.0236	.12389	-.00008	.0149
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	93.40	.0029	.0005	.0057	.0873
#1	.0003	92.93	.0045	.0017	.0059	.0891
#2	.0003	93.86	.0013	-.0007	.0056	.0855
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0089	42.09	.00128	.0015	-.0005	7.043
#1	-.0065	42.18	.00136	.0021	-.0013	7.028
#2	-.0113	42.00	.00121	.0010	.0003	7.059
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131	.0005	42.76	-.0026	.0071	.0824
#1	.0076	.0019	42.66	-.0051	.0095	.0819
#2	.0186	-.0009	42.85	-.0001	.0047	.0828
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4004	16.33	.00206	-.0078	.02073	.56654
#1	.4016	16.33	.00278	-.0098	.02082	.56664
#2	.3991	16.32	.00134	-.0059	.02064	.56643
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.10					
#1	182.56					
#2	183.63					

Method: 2010A Sample Name: K1004814-003D Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:55 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0420	.0009	.0132	.12235	-.00002	.0147
#1	.0406	.0018	.0053	.12251	-.00006	.0150
#2	.0434	.0000	.0211	.12218	.00002	.0144
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	93.16	.0036	.0005	.0063	.1033
#1	.0006	92.90	.0035	.0004	.0071	.1028
#2	.0008	93.41	.0036	.0006	.0056	.1038
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0044	41.63	.00104	.0015	-.0007	6.936
#1	-.0100	41.69	.00103	.0021	-.0014	6.935
#2	.0013	41.57	.00106	.0008	.0000	6.938
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166	.0025	42.30	.0040	.0050	.0827
#1	.0076	.0032	42.37	.0009	.0040	.0833
#2	.0256	.0019	42.23	.0070	.0060	.0821
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4093	16.15	.00074	-.0059	.02060	.55942
#1	.4059	16.16	-.00083	.0072	.02083	.56066
#2	.4126	16.15	.00232	-.0191	.02037	.55817
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.28					
#1	183.33					
#2	183.24					

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 10:58 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.006	.0046	.0091	2.5154	.04997	-.0176
Stddev	.007	.0019	.0071	.0057	.00017	.0002
%RSD	.1359	40.32	77.76	.22758	.34141	1.297

#1	5.001	.0060	.0041	2.5195	.05009	-.0178
#2	5.010	.0033	.0142	2.5114	.04985	-.0175

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	.0016	25.53	.0022	-.0013	.0010	25.25
Stddev	.0003	.18	.0006	.0003	.0011	.14
%RSD	18.17	.7237	27.40	22.41	110.8	.5356

#1	.0019	25.40	.0027	-.0011	.0017	25.34
#2	.0014	25.66	.0018	-.0015	.0002	25.15

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	-.0086	25.14	4.966	-.0010	-.0038	9.917
Stddev	.0049	.04	.031	.0009	.0012	.011
%RSD	56.84	.1715	.6307	95.40	31.51	.1074

#1	-.0120	25.17	4.989	-.0003	-.0046	9.925
#2	-.0051	25.11	4.944	-.0016	-.0030	9.910

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	.0156	.0008	9.831	.0050	.0056	.0004
Stddev	.0068	.0016	.058	.0024	.0011	.0005
%RSD	43.80	198.4	.5938	47.74	20.21	109.2

#1	.0205	.0019	9.872	.0033	.0064	.0008
#2	.0108	-.0003	9.789	.0067	.0048	.0001

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

Sample Name: CCVB Run Time: 05/26/10 10:58

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.969	2.515	.00222	-.0212	.49483	.50498
Stddev	.011	.005	.00067	.0077	.00096	.00249
%RSD	.1064	.2014	30.062	36.22	.19475	.49373
#1	9.962	2.518	.00269	-.0158	.49551	.50675
#2	9.977	2.511	.00175	-.0266	.49415	.50322
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	183.98					
Stddev	1.06					
%RSD	.57489					
#1	183.23					
#2	184.73					

Method: 2010A

Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 11:01 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4630	2.452	2.411	.45783	.53097	.4981
Stddev	.0020	.012	.004	.00015	.00219	.0004
%RSD	.4402	.4799	.1633	.03263	.41186	.0770
#1	.4644	2.460	2.408	.45772	.53252	.4983
#2	.4615	2.444	2.414	.45794	.52942	.4978
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	.4951	2.462	.4955	.4954	.5007	.5098
Stddev	.0005	.008	.0019	.0003	.0028	.0116
%RSD	.1017	.3377	.3848	.0650	.5530	2.281
#1	.4947	2.468	.4968	.4957	.5026	.5180
#2	.4954	2.456	.4941	.4952	.4987	.5016
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	2.453	1.9790	.96813	.9806	.4950	4.949
Stddev	.004	.0041	.00666	.0011	.0007	.043
%RSD	.1840	.20779	.68769	.1125	.1487	.8750
#1	2.456	1.9819	.96342	.9798	.4955	4.919
#2	2.449	1.9761	.97283	.9814	.4945	4.980
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	2.431	.4907	.4753	2.401	.4989	.4905
Stddev	.003	.0150	.0021	.018	.0005	.0036
%RSD	.1177	3.053	.4475	.7561	.1002	.7429
#1	2.429	.4801	.4738	2.414	.4986	.4880
#2	2.433	.5013	.4768	2.388	.4993	.4931
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: 05/26/10 11:01

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0072	.2584	.49676	4.883	.00014	.00173
Stddev	.0090	.0022	.00344	.010	.00028	.00001
%RSD	125.8	.8392	.69160	.2134	206.38	.62002
#1	-.0135	.2599	.49919	4.876	-.00006	.00173
#2	-.0008	.2569	.49433	4.891	.00033	.00174
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	187.66
Stddev	.54
%RSD	.29016

#1	187.28
#2	188.05

Method: 2010A Sample Name: CCB Operator:
 Comment:
 Run Time: 05/26/10 11:04 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085	.0061	.0047	-.00008	.00013	.0006
Stddev	.0071	.0050	.0036	.00014	.00006	.0009
%RSD	82.84	81.53	75.44	172.39	48.399	154.7

#1	.0035	.0097	.0022	-.00018	.00008	.0012
#2	.0135	.0026	.0072	.00002	.00017	-.0001

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	.0003	.0033	.0008	.0004	.0001	.0036
Stddev	.0002	.0007	.0008	.0004	.0010	.0002
%RSD	68.07	21.72	93.42	100.7	1296.	4.731

#1	.0005	.0038	.0003	.0001	-.0006	.0038
#2	.0002	.0028	.0014	.0007	.0007	.0035

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	-.0003	.00299	.00088	.0009	-.0010	-.0154
Stddev	.0009	.00001	.00013	.0025	.0002	.0209
%RSD	261.5	.38937	14.321	270.5	22.49	135.6

#1	-.0010	.00298	.00096	.0027	-.0008	-.0006
#2	.0003	.00299	.00079	-.0009	-.0011	-.0302

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	-.0014	.0027	.0029	-.0019	-.0016	-.0013
Stddev	.0088	.0007	.0019	.0109	.0009	.0007
%RSD	637.1	24.83	66.36	562.1	54.29	53.32

#1	.0048	.0022	.0043	.0058	-.0010	-.0008
#2	-.0076	.0032	.0015	-.0097	-.0022	-.0018

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: CCB Run Time: 05/26/10 11:04

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220	.0014	-.00018	.0073	-.00027	.00014
Stddev	.0058	.0003	.00112	.0132	.00025	.00001
%RSD	26.32	19.02	627.43	180.4	91.510	5.7173

#1	.0179	.0016	-.00097	-.0020	-.00010	.00014
#2	.0261	.0012	.00061	.0167	-.00044	.00015

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	184.71
Stddev	.35
%RSD	.19070

#1	184.46
#2	184.96

Method: 2010A Sample Name: K1004814-003L Operator: JC
 Comment: 1/5 (202239) (052610A)
 Run Time: 05/26/10 11:07 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0228	-.0035	.0010	.02487	.00000	.0021
#1	.0263	-.0018	.0054	.02512	.00000	.0021
#2	.0192	-.0053	-.0034	.02461	.00000	.0022
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	19.02	.0013	.0001	.0034	.0206
#1	.0000	19.07	.0013	.0003	.0023	.0204
#2	.0006	18.96	.0013	-.0002	.0045	.0207
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	8.0253	.00036	-.0016	-.0027	1.402
#1	-.0018	7.9934	.00033	-.0017	-.0018	1.392
#2	-.0015	8.0573	.00039	-.0014	-.0036	1.412
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0009	8.299	-.0114	.0078	.0172
#1	-.0021	-.0022	8.337	-.0063	.0088	.0186
#2	.0007	.0041	8.261	-.0164	.0069	.0159
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0915	3.084	.00053	-.0067	.00415	.11199
#1	.0964	3.078	.00140	-.0013	.00441	.11241
#2	.0867	3.089	-.00034	-.0121	.00390	.11156
Int. Std.	Sc3572					
Units	Cts/S					
Avg	185.72					
#1	184.61					
#2	186.84					

Method: 2010A Sample Name: K1004814-003S Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:10 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.999	.4590	1.039	2.1191	.04847	1.046
#1	2.008	.4483	1.037	2.1003	.04855	1.044
#2	1.990	.4696	1.042	2.1378	.04839	1.048
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0489	93.77	.2026	.4763	.2367	1.080
#1	.0491	92.93	.2021	.4732	.2372	1.079
#2	.0488	94.61	.2030	.4793	.2362	1.081
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4802	42.07	.44869	1.019	.4733	6.941
#1	.4788	42.10	.44766	1.009	.4729	6.917
#2	.4815	42.03	.44972	1.029	.4738	6.965
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.009	.0426	42.72	.0077	.4907	.5724
#1	1.001	.0429	42.81	.0139	.4937	.5700
#2	1.017	.0423	42.63	.0014	.4876	.5748
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4570	16.42	-.00066	.9586	.02060	.56742
#1	.4270	16.47	.00005	.9435	.02087	.56834
#2	.4870	16.37	-.00136	.9737	.02033	.56650
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.10					
#1	180.72					
#2	181.48					

Method: 2010A Sample Name: K1004814-001 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:13 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0655	.0328	.0040	.09305	-.00008	.0096
#1	.0719	.0355	-.0017	.09817	-.00018	.0099
#2	.0591	.0301	.0097	.08792	.00001	.0094
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	68.57	.0005	.0015	-.0002	.0554
#1	.0003	68.57	.0004	.0017	-.0019	.0593
#2	-.0001	68.57	.0006	.0012	.0015	.0516
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0084	27.19	.06086	.0720	-.0012	5.645
#1	-.0116	27.17	.06453	.0770	-.0018	5.734
#2	-.0052	27.21	.05719	.0670	-.0006	5.557
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166	.0043	31.40	-.0025	.0225	.0014
#1	.0186	.0023	33.52	-.0058	.0267	.0024
#2	.0145	.0064	29.28	.0008	.0183	.0004
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2293	21.62	.00341	-.0014	.01129	.39882
#1	.2145	21.65	.00528	.0021	.01148	.42634
#2	.2441	21.60	.00154	-.0049	.01110	.37130
Int. Std.	Sc3572					
Units	Cts/S					
Avg	176.91					
#1	167.51					
#2	186.32					

Method: 2010A Sample Name: K1004814-002 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:16 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0280	.0060	.0025	.04514	-.00008	.0054
#1	.0195	.0029	.0050	.04525	-.00011	.0053
#2	.0365	.0091	-.0001	.04503	-.00005	.0055
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	99.36	.0017	.0088	-.0008	.6365
#1	.0010	98.97	.0019	.0085	.0006	.6375
#2	.0008	99.75	.0014	.0091	-.0022	.6355
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	37.41	.83305	.0585	.0080	5.878
#1	-.0033	37.45	.83054	.0569	.0076	5.873
#2	.0023	37.38	.83557	.0601	.0084	5.883
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070	.0026	35.44	.0032	.0029	.0366
#1	.0049	.0016	35.63	.0058	.0039	.0359
#2	.0090	.0035	35.25	.0007	.0019	.0373
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2840	18.58	-.00020	.0019	.00898	.52425
#1	.2789	18.60	-.00007	.0047	.00903	.52591
#2	.2892	18.56	-.00033	-.0008	.00892	.52260
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.33					
#1	180.43					
#2	182.22					

Method: 2010A Sample Name: K1004814-004 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:19 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086	-.0022	.0099	.13035	-.00002	.0102
#1	.0093	-.0061	.0058	.13030	.00002	.0096
#2	.0078	.0018	.0140	.13041	-.00006	.0109
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	91.18	.0031	.0010	.0044	.0114
#1	.0005	90.98	.0045	.0013	.0055	.0114
#2	.0008	91.38	.0017	.0007	.0033	.0115
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0069	47.25	-.00022	.0014	-.0001	7.259
#1	-.0113	47.20	-.00026	.0012	.0006	7.234
#2	-.0026	47.30	-.00019	.0016	-.0009	7.284
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0022	60.60	-.0005	.0053	.0253
#1	-.0090	.0013	60.23	.0059	.0035	.0250
#2	.0104	.0032	60.98	-.0068	.0071	.0256
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3744	15.96	-.00094	-.0161	.01821	.58092
#1	.3705	15.91	-.00196	-.0057	.01815	.58035
#2	.3784	16.00	.00009	-.0265	.01827	.58149
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.86					
#1	181.86					
#2	181.86					

Method: 2010A Sample Name: K1004814-005 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:22 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126	-.0009	.0001	.09913	.00000	.0018
#1	.0339	.0000	.0045	.09878	-.00013	.0015
#2	-.0088	-.0017	-.0043	.09947	.00012	.0021
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	43.44	.0001	.0005	.0119	1.172
#1	.0000	43.21	.0005	-.0004	.0119	1.172
#2	.0004	43.67	-.0004	.0013	.0120	1.171
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0035	16.71	.01028	.0010	-.0011	5.361
#1	-.0035	16.73	.01035	.0013	-.0010	5.355
#2	-.0036	16.68	.01021	.0007	-.0012	5.366
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153	.0005	22.65	-.0015	.0046	.1077
#1	.0132	.0003	22.71	.0013	.0054	.1074
#2	.0173	.0006	22.59	-.0044	.0038	.1081
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2615	31.61	.00083	-.0125	.00591	.20012
#1	.2637	31.58	.00281	-.0041	.00613	.20049
#2	.2593	31.63	-.00115	-.0209	.00569	.19975
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.07					
#1	183.70					
#2	184.45					

Method:	2010A	Sample Name:	K1004814-006	Operator:	JC
Comment:		(202239)	(052610A)		
Run Time:	05/26/10 11:25	Type:	Unk	Mode:	CONC
				Corr.Fact:	1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0095	.0000	-.0072	.10048	.00002
#1	-.0130	-.0035	-.0056	.10033	.00003
#2	-.0059	.0036	-.0087	.10063	.00001
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0003	44.10	.0017	.0005
#1	.0019	.0003	43.90	.0031	.0004
#2	.0020	.0004	44.31	.0004	.0005
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0113	1.186	-.0012	16.91	.01025
#1	.0122	1.186	-.0040	16.89	.01015
#2	.0104	1.187	.0016	16.93	.01035
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0029	-.0021	5.364	.0111	-.0003
#1	.0025	-.0027	5.344	.0159	.0000
#2	.0033	-.0015	5.384	.0063	-.0006
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	22.59	-.0037	.0064	.1095	.2546
#1	22.66	-.0053	.0048	.1087	.2674
#2	22.51	-.0021	.0080	.1104	.2419
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	31.90	.00081	-.0115	.00551	.20216
#1	31.82	.00026	-.0116	.00526	.20256
#2	31.98	.00137	-.0114	.00575	.20175
Int. Std.	Sc3572				
Units	Cts/S				
Avg	184.41				
#1	183.97				
#2	184.84				

Method: 2010A Sample Name: RB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:28 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0050	-.0066	.0072	-.00024	-.00002
#1	.0163	-.0044	.0041	-.00036	.00002
#2	-.0263	-.0087	.0104	-.00011	-.00006
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0000	.0048	.0006	.0007
#1	.0007	-.0001	.0033	-.0004	.0002
#2	.0010	.0002	.0063	.0016	.0011
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0001	.0005	.00018	-.00005
#1	-.0001	.0004	-.0019	.00018	-.00005
#2	.0012	-.0007	.0028	.00018	-.00004
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.0004	-.0025	.0000	.0038
#1	-.0020	-.0006	-.0154	-.0062	.0035
#2	.0007	-.0003	.0104	.0062	.0041
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0137	.0005	.0010	-.0013	.0094
#1	.0137	.0014	.0019	-.0013	.0081
#2	.0136	-.0005	.0001	-.0014	.0106
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0062	-.00108	.0065	-.00029	-.00004
#1	.0084	-.00178	.0130	-.00047	.00000
#2	.0040	-.00039	.0000	-.00011	-.00007
Int. Std.	Sc3572				
Units	Cts/S				
Avg	185.41				
#1	185.12				
#2	185.69				

Method: 2010A Sample Name: K1004744-MB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:31 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.0035	.0016	-.00025	-.00001
#1	-.0050	-.0001	-.0016	.00001	-.00002
#2	.0036	-.0070	.0047	-.00051	.00000
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0000	.0015	.0008	.0007
#1	.0014	.0002	.0084	.0019	.0018
#2	.0003	-.0002	-.0053	-.0002	-.0005
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0023	-.0011	-.0014	-.00005	-.00011
#1	.0028	-.0007	-.0039	-.00006	-.00006
#2	.0018	-.0015	.0012	-.00003	-.00016
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0026	.0004	.0059	.0200	.0006
#1	-.0034	.0003	.0046	.0214	.0035
#2	-.0018	.0004	.0072	.0186	-.0022
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0002	-.0004	-.0001	.1725
#1	.0046	.0005	-.0011	.0001	.1623
#2	-.0035	-.0008	.0002	-.0004	.1827
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0074	-.00166	-.0049	-.00024	-.00002
#1	.0085	-.00267	-.0060	-.00007	-.00003
#2	.0063	-.00065	-.0038	-.00040	-.00002
Int. Std.	Sc3572				
Units	Cts/S				
Avg	183.99				
#1	183.17				
#2	184.80				

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1004744 (202239) (052610A)
 Run Time: 05/26/10 11:34 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.000	2.818	2.573	5.1759	.12598	1.033
#1	5.008	2.787	2.569	5.0807	.12603	1.030
#2	4.991	2.850	2.576	5.2711	.12593	1.035
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.270	12.45	.5205	1.269	.6298	2.531
#1	1.270	12.33	.5205	1.269	.6325	2.534
#2	1.270	12.58	.5206	1.269	.6271	2.529
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.553	12.57	1.2793	1.015	1.263	12.60
#1	2.548	12.56	1.2834	1.012	1.261	12.66
#2	2.557	12.58	1.2752	1.018	1.264	12.53
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.523	.6152	12.76	.0027	1.264	1.267
#1	2.510	.6130	12.84	.0009	1.265	1.267
#2	2.536	.6174	12.67	.0045	1.262	1.268
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1611	.0179	-.00010	2.521	.00014	.00718
#1	.1462	.0174	.00050	2.537	.00017	.00717
#2	.1760	.0184	-.00070	2.505	.00012	.00718
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.37					
#1	182.98					
#2	183.75					

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 11:37 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.007	.0138	.0142	2.4995	.05018	-.0175
Stddev	.061	.0037	.0115	.0092	.00002	.0002
%RSD	1.222	26.99	81.41	.36604	.03327	.9480
#1	5.050	.0165	.0060	2.5060	.05019	-.0176
#2	4.964	.0112	.0223	2.4930	.05016	-.0174
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	.0017	25.38	.0018	-.0006	.0001	25.36
Stddev	.0001	.00	.0000	.0011	.0010	.08
%RSD	7.097	.0136	2.475	184.3	702.0	.3322
#1	.0016	25.38	.0017	-.0014	.0008	25.42
#2	.0018	25.37	.0018	.0002	-.0005	25.30
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	.0003	25.21	4.968	.0003	-.0031	9.959
Stddev	.0021	.15	.004	.0016	.0011	.029
%RSD	620.1	.5806	.0907	498.0	35.05	.2884
#1	-.0012	25.32	4.965	.0014	-.0039	9.980
#2	.0019	25.11	4.971	-.0008	-.0024	9.939
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	.0080	.0043	9.966	.0017	.0039	.0013
Stddev	.0020	.0007	.053	.0010	.0015	.0009
%RSD	24.39	15.67	.5312	60.35	39.14	64.12
#1	.0094	.0038	10.00	.0009	.0050	.0007
#2	.0066	.0047	9.929	.0024	.0029	.0019
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/26/10 11:37

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.03	2.514	-.00056	-.0280	.50009	.50826
Stddev	.00	.000	.00066	.0093	.00295	.00099
%RSD	.0326	.0153	117.04	33.44	.58890	.19447
#1	10.02	2.515	-.00103	-.0213	.50218	.50896
#2	10.03	2.514	-.00010	-.0346	.49801	.50756
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	183.37					
Stddev	.03					
%RSD	.01904					
#1	183.39					
#2	183.34					

Method: 2010A

Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 11:40 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4808	2.475	2.439	.46267	.53600	.5012
Stddev	.0069	.020	.007	.00332	.00137	.0013
%RSD	1.432	.8207	.2697	.71726	.25490	.2638
#1	.4759	2.489	2.434	.46502	.53696	.5021
#2	.4856	2.461	2.444	.46033	.53503	.5003
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	.4982	2.448	.5005	.4980	.4991	.5161
Stddev	.0042	.004	.0052	.0011	.0027	.0149
%RSD	.8455	.1441	1.037	.2226	.5343	2.891
#1	.5012	2.445	.5041	.4988	.5009	.5266
#2	.4953	2.450	.4968	.4972	.4972	.5055
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	2.473	1.9868	.97842	.9831	.4989	4.977
Stddev	.022	.0032	.00649	.0019	.0013	.019
%RSD	.9002	.16310	.66336	.1889	.2612	.3808
#1	2.488	1.9891	.98301	.9844	.4998	4.990
#2	2.457	1.9845	.97383	.9818	.4980	4.963
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	2.443	.4920	.4803	2.433	.4979	.4915
Stddev	.002	.0027	.0062	.006	.0058	.0037
%RSD	.0976	.5477	1.292	.2410	1.174	.7513
#1	2.441	.4939	.4847	2.437	.5021	.4941
#2	2.445	.4901	.4759	2.429	.4938	.4889
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: 05/26/10 11:40

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0026	.2628	.49454	4.946	.00025	.00173
Stddev	.0033	.0047	.00277	.008	.00027	.00000
%RSD	125.3	1.794	.56016	.1611	106.43	.21903

#1	-.0050	.2661	.49650	4.941	.00044	.00173
#2	-.0003	.2595	.49259	4.952	.00006	.00172

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	186.68
Stddev	1.04
%RSD	.55781

#1	185.95
#2	187.42

Method: 2010A Sample Name: CCB Operator:
 Comment:
 Run Time: 05/26/10 11:43 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156	.0048	.0088	.00017	.00016	.0003
Stddev	.0071	.0067	.0013	.00024	.00004	.0000
%RSD	45.37	140.5	15.17	142.79	22.678	11.40

#1	.0206	.0000	.0098	.00034	.00018	.0003
#2	.0106	.0096	.0079	.00000	.00013	.0004

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	.0002	.0064	.0016	.0006	.0020	.0039
Stddev	.0001	.0043	.0000	.0007	.0012	.0002
%RSD	57.36	67.59	2.959	123.3	57.57	6.055

#1	.0001	.0094	.0016	.0010	.0012	.0041
#2	.0002	.0033	.0015	.0001	.0028	.0037

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	.0099	.00364	.00116	.0006	-.0005	.0082
Stddev	.0024	.00025	.00002	.0025	.0003	.0007
%RSD	24.78	6.7815	1.6882	451.2	69.13	8.861

#1	.0116	.00347	.00118	.0024	-.0007	.0077
#2	.0081	.00382	.00115	-.0012	-.0002	.0087

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	.0035	.0005	.0023	.0056	.0022	.0003
Stddev	.0098	.0025	.0031	.0043	.0009	.0004
%RSD	282.3	521.9	137.0	76.26	39.14	135.1

#1	.0104	-.0013	.0001	.0086	.0029	.0000
#2	-.0034	.0022	.0045	.0026	.0016	.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: CCB Run Time: 05/26/10 11:43

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0175	.0012	-.00015	.0045	-.00005	.00009
Stddev	.0034	.0003	.00037	.0040	.00028	.00002
%RSD	19.53	22.59	241.93	88.43	600.07	23.245

#1	.0200	.0014	.00011	.0073	.00015	.00010
#2	.0151	.0010	-.00042	.0017	-.00025	.00007

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	184.23
Stddev	.19
%RSD	.10191

#1	184.36
#2	184.09

Method: 2010A Sample Name: K1004744-001 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:46 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0939	-.0035	-.0034	.03084	-.00009	.0033
#1	.0932	-.0043	-.0100	.03086	-.00010	.0037
#2	.0945	-.0026	.0032	.03082	-.00008	.0029
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	64.92	.0004	.0011	.0002	.0869
#1	.0010	64.59	-.0001	.0008	.0005	.0861
#2	.0003	65.25	.0008	.0014	-.0001	.0876
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0048	24.73	.00116	.0023	-.0007	3.852
#1	.0031	24.74	.00116	.0043	.0002	3.848
#2	-.0126	24.73	.00116	.0002	-.0016	3.856
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.0000	23.71	.0008	.0105	.0005
#1	-.0021	.0025	23.62	-.0014	.0100	-.0002
#2	.0131	-.0025	23.79	.0029	.0110	.0012
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3126	24.36	.00353	.0019	.00785	.34073
#1	.3180	24.31	.00327	.0057	.00788	.34083
#2	.3072	24.41	.00380	-.0019	.00782	.34063
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.81					
#1	183.06					
#2	182.56					

Method: 2010A Sample Name: K1004744-001D Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:49 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0819	-.0048	-.0002	.03218	-.00008	.0030
#1	.0918	-.0052	.0020	.03213	-.00008	.0031
#2	.0719	-.0043	-.0024	.03223	-.00008	.0029
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	66.84	.0001	.0003	.0005	.0905
#1	.0002	66.57	-.0001	.0000	.0005	.0892
#2	.0008	67.12	.0003	.0005	.0005	.0918
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0063	25.35	.00111	.0019	-.0019	3.940
#1	-.0056	25.23	.00114	.0011	-.0007	3.939
#2	-.0069	25.46	.00109	.0028	-.0032	3.941
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159	.0035	24.38	.0013	.0126	.0003
#1	.0297	.0016	24.60	.0024	.0111	.0006
#2	.0021	.0054	24.16	.0003	.0142	.0000
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3309	24.92	.00437	.0065	.00826	.35241
#1	.3268	24.83	.00361	-.0040	.00815	.35359
#2	.3349	25.01	.00513	.0170	.00838	.35122
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.35					
#1	180.94					
#2	181.76					

Method: 2010A Sample Name: K1004744-001L Operator: JC
 Comment: 1/5 (202239) (052610A)
 Run Time: 05/26/10 11:52 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213	-.0057	.0023	.00595	-.00005	-.0002
#1	.0207	.0009	.0045	.00618	.00006	-.0003
#2	.0220	-.0123	.0001	.00572	-.00015	.0000
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	13.10	.0013	.0015	-.0001	.0187
#1	-.0001	13.11	.0005	.0016	-.0006	.0183
#2	.0012	13.09	.0020	.0014	.0003	.0190
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084	4.9080	.00034	.0001	-.0001	.7565
#1	.0087	4.8995	.00037	.0006	-.0010	.7407
#2	.0080	4.9166	.00030	-.0003	.0008	.7723
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138	.0014	4.363	.0022	.0050	-.0001
#1	.0228	.0019	4.381	.0038	.0050	-.0003
#2	.0048	.0010	4.346	.0005	.0050	.0001
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0698	4.536	-.00135	.0058	.00189	.06788
#1	.0732	4.543	-.00059	-.0037	.00198	.06807
#2	.0664	4.530	-.00211	.0152	.00180	.06770
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.08					
#1	183.14					
#2	185.02					

Method: 2010A Sample Name: K1004744-001S Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:56 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.946	.4168	.9897	1.9525	.04633	.9962
#1	1.955	.4067	.9853	1.9535	.04630	.9960
#2	1.937	.4270	.9941	1.9515	.04637	.9964
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0470	64.96	.1914	.4618	.2226	1.019
#1	.0467	64.42	.1908	.4611	.2238	1.019
#2	.0473	65.49	.1920	.4626	.2214	1.019
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4556	24.58	.43126	.9768	.4560	3.754
#1	.4510	24.57	.43050	.9698	.4556	3.752
#2	.4602	24.58	.43201	.9838	.4565	3.756
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9716	.0374	23.19	.0004	.4720	.4646
#1	.9633	.0369	23.21	.0010	.4766	.4632
#2	.9798	.0379	23.17	-.0001	.4673	.4660
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3108	24.31	.00364	.9308	.00778	.33687
#1	.3087	24.23	.00351	.9368	.00750	.33759
#2	.3128	24.39	.00376	.9249	.00806	.33616
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.79					
#1	181.36					
#2	182.22					

Method: 2010A Sample Name: K1004744-002 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:59 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3101	.0086	-.0096	.53310	.00001	.0558
#1	.2952	.0135	-.0137	.53154	-.00001	.0563
#2	.3250	.0038	-.0055	.53467	.00003	.0554
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	185.9	.0008	.0117	-.0013	.6432
#1	.0011	185.2	.0016	.0125	-.0009	.6420
#2	.0005	186.6	.0001	.0110	-.0018	.6444
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	60.14	.40197	.0153	.0051	43.54
#1	.0074	60.04	.40169	.0174	.0055	43.59
#2	-.0006	60.24	.40226	.0131	.0047	43.49
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166	-.0019	>180.0	.0066	.0061	.0120
#1	.0077	-.0047	>180.0	.0114	.0043	.0119
#2	.0256	.0009	>180.0	.0017	.0079	.0121
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1874	24.37	.01574	-.0002	.02255	1.0483
#1	.1809	24.29	.01600	-.0223	.02288	1.0516
#2	.1939	24.45	.01547	.0220	.02221	1.0450
Int. Std.	Sc3572					
Units	Cts/S					
Avg	179.38					
#1	179.02					
#2	179.75					

*X See Dilution
 JC 5/26/10*

Method:	2010A	Sample Name:	K1004744-003	Operator:	JC
Comment:		(202239)	(052610A)		
Run Time:	05/26/10 12:02	Type:	Unk	Mode:	CONC
				Corr.Fact:	1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0114	.0052	-.0057	-.00016	.00006
#1	-.0263	.0061	-.0053	-.00039	.00009
#2	.0036	.0043	-.0060	.00007	.00003
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0006	.0403	.0009	.0008
#1	-.0007	-.0007	.0398	.0009	.0007
#2	.0007	-.0005	.0408	.0009	.0008
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0128	.0049	.00969	.00045
#1	.0004	.0129	.0112	.01011	.00048
#2	.0018	.0126	-.0014	.00928	.00042
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	-.0007	.0465	.0076	.0016
#1	.0005	.0002	.0449	.0173	.0013
#2	-.0022	-.0015	.0481	-.0021	.0019
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0967	-.0034	.0012	.0012	.1723
#1	.1020	-.0076	.0001	.0012	.1669
#2	.0915	.0007	.0023	.0011	.1777
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0135	-.00128	-.0058	-.00031	.00018
#1	.0141	-.00032	.0054	.00006	.00022
#2	.0129	-.00223	-.0170	-.00068	.00013
Int. Std.	Sc3572				
Units	Cts/S				
Avg	183.91				
#1	183.58				
#2	184.24				

Method: 2010A Sample Name: K1004744-004 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 12:05 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1531	-.0062	-.0065	.07056	-.00002	.0216
#1	.1588	-.0057	-.0087	.07014	-.00003	.0220
#2	.1474	-.0066	-.0043	.07098	.00000	.0212
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	70.51	.0011	.0030	.0127	.2736
#1	.0004	70.18	.0002	.0044	.0118	.2741
#2	.0000	70.85	.0020	.0015	.0135	.2732
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0093	19.03	.22103	.0188	.0040	9.923
#1	-.0130	19.06	.22061	.0184	.0042	9.856
#2	-.0056	18.99	.22146	.0192	.0038	9.990
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.0010	56.77	.0031	.0060	.0040
#1	.0049	.0000	56.58	.0017	.0048	.0045
#2	.0062	.0019	56.96	.0045	.0072	.0034
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1817	25.16	.00666	.0003	.01131	.28631
#1	.1742	25.15	.00585	.0031	.01151	.28624
#2	.1892	25.18	.00748	-.0025	.01111	.28638
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.06					
#1	181.90					
#2	182.22					

Method: 2010A Sample Name: K1004765-001 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 12:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157	.0005	-.0105	.01403	-.00009	.0039
#1	.0136	.0053	-.0058	.01424	-.00009	.0041
#2	.0179	-.0043	-.0152	.01382	-.00008	.0038
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	28.90	.0003	.0005	.0029	.1412
#1	-.0002	28.60	-.0002	.0005	.0032	.1409
#2	-.0002	29.19	.0008	.0005	.0027	.1414
Elem	Pb2203	Mg2025	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0066	9.384	8.8049	.00016	.0018	-.0011
#1	-.0061	9.255	8.8203	.00017	.0020	-.0025
#2	-.0071	9.513	8.7894	.00015	.0016	.0003
Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.735	.0228	.0002	12.64	.0014	.0164
#1	3.728	.0366	.0022	12.80	-.0006	.0195
#2	3.742	.0090	-.0019	12.48	.0035	.0133
Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.3644	43.86	-.00004	-.0074	.00088
#1	-.0001	.3672	43.50	-.00184	-.0031	.00102
#2	-.0005	.3617	44.23	.00175	-.0116	.00073
Elem	Sr4077					
Units	ppm					
Avg	.12336					
#1	.12509					
#2	.12164					
Int. Std.	Sc3572					
Units	Cts/S					
Avg	186.45					
#1	184.06					
#2	188.85					

Method: 2010A Sample Name: K1004765-002 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 12:11 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0989	.0026	.0022	.01086	-.00004	.0047
#1	.1045	.0096	-.0072	.01070	-.00011	.0046
#2	.0933	-.0043	.0117	.01102	.00003	.0048
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	22.05	.0009	.0002	.0000	.2498
#1	.0005	21.89	.0007	.0003	-.0022	.2487
#2	-.0002	22.22	.0011	.0001	.0023	.2508
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087	6.7310	.00362	.0019	-.0008	3.230
#1	.0022	6.7228	.00373	.0017	-.0007	3.250
#2	.0151	6.7392	.00351	.0022	-.0009	3.210
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.0027	12.44	.0061	.0099	-.0004
#1	.0021	.0025	12.55	.0081	.0092	-.0004
#2	.0090	.0028	12.33	.0041	.0107	-.0004
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3048	27.95	.01530	-.0109	.00084	.10673
#1	.3008	27.86	.01404	-.0091	.00102	.10708
#2	.3089	28.04	.01656	-.0127	.00067	.10638
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.47					
#1	182.88					
#2	184.06					

Method: 2010A Sample Name: K1004765-003 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 12:14 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087	-.0035	-.0078	.01151	-.00004	.0033
#1	.0150	-.0052	.0007	.01151	-.00007	.0035
#2	.0023	-.0017	-.0163	.01150	-.00001	.0031
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	25.28	.0010	-.0001	.0000	.3294
#1	.0005	25.26	.0007	-.0003	-.0001	.3310
#2	-.0003	25.30	.0012	.0002	.0002	.3279
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0033	10.36	.00026	.0023	-.0008	3.997
#1	-.0026	10.37	.00022	.0029	-.0009	4.023
#2	-.0040	10.35	.00031	.0016	-.0007	3.970
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124	.0013	12.53	-.0016	.0145	.0003
#1	.0048	.0025	12.63	-.0013	.0113	.0000
#2	.0200	.0000	12.43	-.0019	.0177	.0006
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3171	42.41	.00053	-.0012	.00119	.11258
#1	.3145	42.46	.00111	-.0126	.00148	.11293
#2	.3196	42.37	-.00005	.0101	.00090	.11223
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.05					
#1	182.55					
#2	183.55					

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 12:17 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.033	.0156	.0113	2.5208	.05094	-.0181
Stddev	.045	.0012	.0040	.0062	.00026	.0001
%RSD	.8996	7.935	35.49	.24619	.51352	.3079

#1	5.065	.0165	.0085	2.5164	.05076	-.0181
#2	5.001	.0147	.0142	2.5251	.05113	-.0182

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	.0027	25.19	.0019	-.0010	-.0017	25.04
Stddev	.0006	.01	.0000	.0000	.0005	.08
%RSD	22.65	.0286	2.173	.1919	31.94	.3330

#1	.0031	25.19	.0019	-.0010	-.0020	24.98
#2	.0022	25.18	.0019	-.0010	-.0013	25.10

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	-.0023	25.36	4.999	.0001	-.0032	10.02
Stddev	.0175	.09	.030	.0003	.0013	.07
%RSD	771.1	.3388	.6094	361.8	41.14	.6954

#1	.0101	25.30	4.978	.0003	-.0023	10.07
#2	-.0146	25.42	5.021	-.0001	-.0042	9.975

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	.0003	9.974	.0007	.0051	.0011
Stddev	.0029	.0022	.006	.0076	.0011	.0003
%RSD	162.6	707.3	.0583	1106.	22.13	26.39

#1	-.0003	.0019	9.970	.0060	.0043	.0009
#2	.0039	-.0013	9.978	-.0047	.0059	.0014

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

Sample Name: CCVB Run Time: 05/26/10 12:17

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.07	2.543	.00118	-.0289	.50805	.51427
Stddev	.04	.000	.00080	.0106	.00224	.00034
%RSD	.3515	.0091	67.910	36.81	.44033	.06603
#1	10.04	2.543	.00061	-.0214	.50964	.51451
#2	10.09	2.543	.00175	-.0364	.50647	.51403
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	183.47					
Stddev	.14					
%RSD	.07635					
#1	183.57					
#2	183.37					

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 12:20 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4815	2.456	2.438	.46172	.53849	.5011
Stddev	.0221	.006	.007	.00026	.00202	.0007
%RSD	4.588	.2308	.2772	.05706	.37499	.1391
#1	.4971	2.452	2.433	.46154	.53707	.5006
#2	.4658	2.460	2.442	.46191	.53992	.5016
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	.4964	2.450	.4960	.4979	.4982	.5195
Stddev	.0021	.005	.0023	.0006	.0003	.0050
%RSD	.4148	.2104	.4600	.1292	.0694	.9711
#1	.4949	2.447	.4944	.4974	.4980	.5230
#2	.4978	2.454	.4976	.4984	.4985	.5159
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	2.470	1.9899	.96753	.9786	.5001	5.002
Stddev	.011	.0082	.00053	.0023	.0019	.021
%RSD	.4410	.41245	.05513	.2353	.3809	.4194
#1	2.462	1.9841	.96791	.9770	.4987	5.016
#2	2.477	1.9957	.96716	.9802	.5014	4.987
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	2.489	.4975	.4802	2.420	.5009	.4910
Stddev	.003	.0023	.0012	.029	.0011	.0026
%RSD	.1142	.4546	.2505	1.177	.2169	.5339
#1	2.491	.4959	.4794	2.400	.5001	.4891
#2	2.487	.4991	.4811	2.440	.5017	.4929
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: 05/26/10 12:20

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0135	.2685	.49619	4.950	.00065	.00176
Stddev	.0075	.0036	.00525	.010	.00008	.00005
%RSD	55.20	1.330	1.0579	.2012	12.797	2.5810
#1	-.0188	.2710	.49248	4.957	.00060	.00179
#2	-.0083	.2660	.49990	4.943	.00071	.00172
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	187.19					
Stddev	.41					
%RSD	.21700					
#1	187.48					
#2	186.90					

Method: 2010A

Sample Name: CCB

Operator:

Comment:

Run Time: 05/26/10 12:23 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	-.0026	-.0009	.00022	.00019	-.0001
Stddev	.0141	.0037	.0027	.00009	.00005	.0001
%RSD	283.3	144.5	282.7	39.647	25.378	103.4

#1	-.0050	.0001	.0009	.00028	.00023	.0000
#2	.0149	-.0052	-.0028	.00016	.00016	-.0002

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	-.0003	.0058	.0012	.0007	.0002	.0047
Stddev	.0002	.0007	.0004	.0003	.0020	.0011
%RSD	51.25	12.33	30.98	40.00	890.8	24.68

#1	-.0002	.0063	.0009	.0009	.0016	.0055
#2	-.0005	.0053	.0015	.0005	-.0012	.0038

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	.0015	.00408	.00124	.0029	.0001	-.0068
Stddev	.0052	.00017	.00040	.0009	.0001	.0289
%RSD	355.4	4.1592	32.187	31.71	108.5	423.6

#1	-.0022	.00396	.00152	.0036	.0000	-.0273
#2	.0051	.00420	.00096	.0023	.0002	.0136

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	.0076	.0008	.0025	-.0020	.0015	-.0004
Stddev	.0234	.0011	.0001	.0091	.0002	.0002
%RSD	308.6	140.9	2.605	452.8	14.69	45.42

#1	.0242	.0000	.0025	-.0085	.0014	-.0006
#2	-.0090	.0016	.0024	.0044	.0017	-.0003

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: CCB Run Time: 05/26/10 12:23

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	-.0006	-.00253	.0091	-.00010	.00014
Stddev	.0015	.0001	.00321	.0027	.00035	.00001
%RSD	36.39	11.30	127.10	29.65	348.07	10.053
#1	.0051	-.0005	-.00026	.0072	.00015	.00013
#2	.0030	-.0006	-.00480	.0110	-.00035	.00014
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	183.69					
Stddev	.78					
%RSD	.42247					
#1	183.14					
#2	184.24					

Method: 2010A

Sample Name: K1004765-004

Operator: JC

Comment:

(202239) (052610A)

Run Time: 05/26/10 12:47

Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1074	-.0066	.0031	.00943	-.00003	.0040
#1	.0932	-.0114	.0094	.00949	-.00006	.0035
#2	.1216	-.0018	-.0032	.00936	.00001	.0046
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	9.624	.0020	.0001	.0018	.1258
#1	-.0004	9.570	.0016	-.0002	.0008	.1301
#2	.0002	9.679	.0024	.0004	.0029	.1215
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029	2.8251	.00172	-.0011	-.0006	.3971
#1	-.0016	2.8114	.00186	-.0014	-.0016	.3819
#2	.0074	2.8387	.00159	-.0008	.0004	.4122
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138	.0017	2.301	.0029	.0041	.0000
#1	.0187	.0016	2.308	.0043	.0018	-.0001
#2	.0090	.0019	2.294	.0015	.0065	.0001
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1826	12.42	.00547	.0007	.00041	.06386
#1	.1844	12.41	.00592	-.0061	.00028	.06412
#2	.1808	12.43	.00503	.0075	.00055	.06360
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.71					
#1	180.68					
#2	182.73					

Method: 2010A Sample Name: RB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 12:50 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	-.0057	.0047	-.00004	.00003	.0014
#1	.0092	-.0026	.0116	-.00009	.00004	.0012
#2	.0021	-.0087	-.0022	.00000	.00002	.0016
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0025	.0000	.0014	.0005	.0000
#1	.0002	.0033	-.0006	.0015	.0019	.0003
#2	.0000	.0018	.0007	.0013	-.0009	-.0003
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.00001	-.00007	-.0006	.0005	.0129
#1	.0068	.00000	.00001	-.0008	.0003	.0181
#2	-.0031	.00001	-.00015	-.0004	.0008	.0078
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	-.0002	.0129	.0049	.0004	-.0009
#1	.0021	.0025	.0136	.0026	-.0015	-.0010
#2	.0145	-.0028	.0121	.0072	.0022	-.0008
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	-.0001	-.00095	.0036	-.00003	-.00006
#1	.0057	.0002	.00000	.0035	-.00010	-.00004
#2	-.0106	-.0004	-.00190	.0036	.00003	-.00007
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.30					
#1	184.05					
#2	184.54					

Method: 2010A Sample Name: K1005179-MB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 12:53 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	.0048	.0022	-.00002	.00003	.0016
#1	.0177	.0087	-.0047	-.00020	.00008	.0017
#2	-.0064	.0008	.0091	.00015	-.00001	.0015
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0023	.0009	.0010	.0029	-.0008
#1	.0002	-.0012	-.0005	.0006	.0049	-.0005
#2	.0013	.0058	.0022	.0014	.0009	-.0010
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	.00006	.00005	-.0022	-.0007	.0133
#1	.0005	-.00003	.00005	-.0021	-.0020	.0069
#2	.0051	.00016	.00005	-.0023	.0006	.0198
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.0008	.0028	.0023	-.0002	-.0010
#1	.0048	.0003	.0060	-.0022	.0019	-.0007
#2	.0062	.0013	-.0003	.0068	-.0022	-.0013
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2075	.0100	-.00141	.0015	-.00023	-.00005
#1	.2101	.0101	-.00077	-.0023	.00002	-.00006
#2	.2049	.0098	-.00205	.0054	-.00048	-.00005
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.20					
#1	182.48					
#2	183.92					

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1005179 (202239) (052610A)
 Run Time: 05/26/10 12:56 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.018	2.585	2.550	5.1378	.12551	1.037
#1	5.021	2.596	2.549	5.1459	.12564	1.038
#2	5.015	2.574	2.551	5.1297	.12538	1.035
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.258	12.27	.5252	1.269	.6295	2.548
#1	1.262	12.27	.5237	1.273	.6287	2.553
#2	1.253	12.26	.5267	1.266	.6304	2.542
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.501	12.49	1.2489	1.023	1.258	12.55
#1	2.497	12.51	1.2515	1.021	1.261	12.56
#2	2.505	12.48	1.2462	1.025	1.255	12.54
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.519	.6065	12.83	.0080	1.257	1.263
#1	2.500	.6066	12.89	.0060	1.254	1.265
#2	2.538	.6063	12.76	.0099	1.259	1.261
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.14	11.00	-.00244	2.460	10.468	>4.5000
#1	10.16	11.01	-.00265	2.434	10.473	>4.5000
#2	10.11	11.00	-.00222	2.485	10.463	>4.5000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.94					
#1	181.38					
#2	182.50					

*X See dilution
3rd 5/26/10*

Method: 2010A

Sample Name: K1005179-002

Operator: JC

Comment:

(202239) (052610A)

Run Time: 05/26/10 12:59

Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0469	-.0033	.0059	.04954	-.00001	.0247
#1	.0491	-.0007	.0012	.05010	-.00003	.0243
#2	.0448	-.0060	.0106	.04898	.00001	.0251
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	45.88	.0003	.0006	.0025	.0622
#1	.0009	45.70	.0005	.0001	.0039	.0627
#2	.0003	46.06	.0001	.0011	.0011	.0616
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	2.6138	.00862	.0082	.0003	3.638
#1	.0092	2.6129	.00886	.0076	.0006	3.615
#2	-.0052	2.6148	.00839	.0089	.0001	3.662
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076	.0029	6.088	-.0004	.0067	.0031
#1	.0145	.0054	6.095	.0057	.0070	.0027
#2	.0007	.0003	6.082	-.0066	.0065	.0035
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2904	1.497	.00200	-.0010	.00091	.26633
#1	.2866	1.493	.00184	.0093	.00106	.26634
#2	.2943	1.501	.00216	-.0114	.00077	.26632
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.86					
#1	182.69					
#2	183.03					

Method: 2010A

Sample Name: K1005179-002D

Operator: JC

Comment:

(202239) (052610A)

Run Time: 05/26/10

13:02 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0391	.0032	.0182	.05013	-.00005	.0248
#1	.0392	.0010	.0169	.04963	-.00010	.0246
#2	.0391	.0054	.0194	.05063	.00000	.0251
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	46.99	.0007	.0005	.0022	.0642
#1	.0004	46.74	.0005	.0011	.0011	.0647
#2	-.0002	47.23	.0008	.0000	.0033	.0638
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	2.6612	.00891	.0076	.0002	3.721
#1	-.0026	2.6645	.00887	.0071	-.0002	3.717
#2	.0104	2.6579	.00895	.0080	.0006	3.725
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0083	.0006	6.213	.0037	.0073	.0027
#1	-.0076	-.0025	6.195	.0103	.0079	.0027
#2	-.0090	.0038	6.231	-.0029	.0068	.0027
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3072	1.530	.00184	-.0010	.00139	.27119
#1	.3130	1.530	.00212	-.0038	.00150	.27147
#2	.3013	1.530	.00155	.0018	.00129	.27091
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.38					
#1	183.34					
#2	183.43					

Method: 2010A Sample Name: K1005179-002L Operator: JC
 Comment: 1/5 (202239) (052610A)
 Run Time: 05/26/10 13:05 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142	.0013	.0016	.00936	.00006	.0051
#1	.0064	-.0079	.0092	.00925	.00001	.0058
#2	.0220	.0105	-.0059	.00948	.00010	.0044
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	8.999	.0007	.0006	.0008	.0117
#1	-.0003	8.932	.0010	.0002	.0012	.0118
#2	.0000	>9.000	.0005	.0010	.0005	.0115
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0090	.46618	.00156	-.0001	-.0004	.6684
#1	-.0126	.46421	.00173	-.0005	-.0014	.6756
#2	-.0053	.46815	.00140	.0003	.0007	.6611
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	.0000	1.093	-.0023	.0017	-.0001
#1	.0048	-.0003	1.108	-.0034	.0004	.0004
#2	.0007	.0003	1.078	-.0013	.0029	-.0007
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0652	.2870	-.00050	-.0030	.00065	k .05064
#1	.0572	.2867	-.00067	-.0059	.00090	.05028
#2	.0733	.2873	-.00032	.0000	.00040	k .05101
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.24					
#1	183.44					
#2	185.05					

*See
CA line switch PT
5/26/10*

Method: 2010A Sample Name: K1005179-002L Operator: JC
 Comment: 1/5 (202239) (052610A)
 Run Time: 05/26/10 14:44 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142	.0013	.0016	.00936	.00006	.0051
#1	.0064	-.0079	.0092	.00925	.00001	.0058
#2	.0220	.0105	-.0059	.00948	.00010	.0044
Elem	Cd2265	Ca2112	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	8.961	8.989	.0007	.0006	.0008
#1	-.0003	8.939	8.932	.0010	.0002	.0012
#2	.0000	8.982	9.000	.0005	.0010	.0005
Elem	Fe2599	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117	-.0090	.46618	.00156	-.0001	-.0004
#1	.0118	-.0126	.46421	.00173	-.0005	-.0014
#2	.0115	-.0053	.46815	.00140	.0003	.0007
Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6684	.0028	.0000	1.093	-.0023	.0017
#1	.6756	.0048	-.0003	1.108	-.0034	.0004
#2	.6611	.0007	.0003	1.078	-.0013	.0029
Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0652	.2870	-.00050	-.0030	.00065
#1	.0004	.0572	.2867	-.00067	-.0059	.00090
#2	-.0007	.0733	.2873	-.00032	.0000	.00040
Elem	Sr4077					
Units	ppm					
Avg	.05015					
#1	.05028					
#2	.05002					
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.24					
#1	183.44					
#2	185.05					

Method: 2010A Sample Name: K1005179-002S Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 13:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.995	.8544	2.109	4.4013	.10552	2.116

#1	3.970	.8651	2.081	4.2010	.10041	2.113
#2	4.021	.8436	2.138	4.6017	.11063	2.120

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1042	66.99	.4286	1.036	.4929	2.183

#1	.0997	66.43	.4091	.9892	.4892	2.087
#2	.1087	67.55	.4482	1.083	.4967	2.278

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.053	23.05	1.0371	2.220	1.030	24.18

#1	.9987	23.11	.99607	2.110	.9818	24.03
#2	1.108	22.99	1.0782	2.331	1.078	24.33

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.056	.0911	29.52	.0114	1.074	1.047

#1	2.035	.0910	28.18	.0090	1.020	.9952
#2	2.078	.0911	30.86	.0138	1.129	1.099

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.71	24.04	.00435	2.113	>18.000	>4.5000

#1	20.66	23.96	.00327	2.004	>18.000	>4.5000
#2	20.77	24.12	.00543	2.222	>18.000	>4.5000

Int. Std.	Sc3572
Units	Cts/S
Avg	169.82

#1	176.57
#2	163.06

*x See Dilution
3C 5/26/10*

Method: 2010A Sample Name: K1005179-001 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 13:11 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0483	.0079	.0017	.00105	-.00001	.0035

#1	.0605	.0079	-.0021	.00114	-.00005	.0033
#2	.0362	.0078	.0054	.00096	.00002	.0037

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	12.22	.0010	.0010	.0028	.0758

#1	.0000	12.26	.0003	.0009	.0012	.0763
#2	.0000	12.17	.0017	.0010	.0044	.0753

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0033	.90692	.00656	.0009	-.0005	..1341

#1	.0000	.90245	.00655	.0032	.0003	.1195
#2	-.0065	.91138	.00657	-.0014	-.0014	.1487

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069	.0009	3.517	-.0038	.0023	.0006

#1	.0173	.0038	3.536	.0000	-.0002	.0007
#2	-.0034	-.0019	3.497	-.0075	.0047	.0005

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2708	.9025	-.00136	.0129	.00089	.03886

#1	.2689	.9035	-.00175	.0129	.00136	.03924
#2	.2727	.9015	-.00097	.0129	.00042	.03847

Int. Std.	Sc3572
Units	Cts/S
Avg	183.06

#1	183.13
#2	182.99

Method: 2010A Sample Name: K1005179-003 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 13:14 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	-.0026	.0060	-.00009	.00001	.0003
#1	.0121	-.0061	.0154	-.00030	.00009	.0000
#2	-.0021	.0008	-.0035	.00012	-.00007	.0005
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0188	.0017	.0008	.0017	.0007
#1	.0001	.0175	.0013	.0006	.0021	.0005
#2	.0000	.0200	.0020	.0009	.0013	.0009
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031	.00043	.00007	-.0003	.0001	.0023
#1	.0027	.00042	.00005	.0000	.0003	.0088
#2	.0035	.00043	.00010	-.0005	-.0001	-.0042
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0041	.0024	.0098	.0014	.0001	.0012
#1	-.0062	-.0003	.0101	-.0017	-.0025	.0013
#2	-.0021	.0050	.0095	.0044	.0027	.0011
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2876	.0025	-.00016	.0005	-.00007	-.00001
#1	.2876	.0041	-.00218	.0014	.00011	.00001
#2	.2875	.0010	.00187	-.0004	-.00025	-.00003
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.09					
#1	182.02					
#2	182.16					

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 13:17 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.009	.0081	.0155	2.5209	.05068	-.0190
Stddev	.026	.0043	.0071	.0152	.00025	.0002
%RSD	.5230	53.41	45.97	.60374	.49500	1.249
#1	4.991	.0112	.0104	2.5101	.05086	-.0192
#2	5.028	.0051	.0205	2.5316	.05050	-.0188
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	25.64	.0010	-.0003	.0003	25.65
Stddev	.0003	.30	.0003	.0003	.0012	.06
%RSD	13.40	1.175	29.60	91.08	397.2	.2448
#1	.0019	25.42	.0008	-.0001	.0011	25.69
#2	.0023	25.85	.0012	-.0005	-.0005	25.60
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	-.0062	25.20	4.973	-.0014	-.0037	9.933
Stddev	.0009	.00	.027	.0008	.0019	.033
%RSD	14.55	.0152	.5475	53.72	51.09	.3354
#1	-.0068	25.19	4.992	-.0009	-.0050	9.909
#2	-.0055	25.20	4.953	-.0020	-.0024	9.956
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	-.0023	.0013	9.983	.0059	.0051	.0012
Stddev	.0049	.0009	.010	.0035	.0024	.0000
%RSD	211.8	70.69	.1040	59.15	46.65	.3375
#1	.0011	.0006	9.976	.0034	.0034	.0012
#2	-.0058	.0019	9.991	.0083	.0068	.0012
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/26/10 13:17

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.02	2.520	.00044	-.0128	.49836	.50755
Stddev	.08	.003	.00042	.0015	.00361	.00257
%RSD	.7502	.1320	96.672	11.68	.72467	.50595
#1	9.969	2.517	.00014	-.0139	.49580	.50936
#2	10.08	2.522	.00074	-.0118	.50091	.50573
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	183.48					
Stddev	.79					
%RSD	.43149					
#1	182.92					
#2	184.04					

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 13:20 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4873	2.457	2.446	.46206	.53343	.5009
Stddev	.0100	.005	.013	.00266	.00325	.0001
%RSD	2.045	.1882	.5412	.57555	.60996	.0144
#1	.4802	2.453	2.456	.46394	.53573	.5009
#2	.4943	2.460	2.437	.46018	.53113	.5008
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	.5012	2.440	.5013	.4968	.5047	.5211
Stddev	.0034	.009	.0019	.0009	.0019	.0109
%RSD	.6710	.3800	.3716	.1891	.3747	2.086
#1	.5036	2.433	.5026	.4975	.5034	.5288
#2	.4988	2.447	.5000	.4961	.5061	.5134
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	2.465	1.9840	.98164	.9880	.5010	4.978
Stddev	.004	.0041	.00049	.0002	.0035	.005
%RSD	.1563	.20622	.05020	.0184	.6915	.0988
#1	2.468	1.9869	.98129	.9881	.5034	4.974
#2	2.463	1.9811	.98199	.9878	.4985	4.981
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	2.436	.4913	.4847	2.426	.4990	.4965
Stddev	.019	.0087	.0053	.017	.0054	.0021
%RSD	.7882	1.774	1.091	.6802	1.084	.4259
#1	2.423	.4851	.4810	2.438	.5029	.4980
#2	2.450	.4975	.4885	2.415	.4952	.4950
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: 05/26/10 13:20

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0159	.2651	.49964	4.976	.00047	.00192
Stddev	.0037	.0031	.00460	.050	.00001	.00007
%RSD	23.13	1.158	.91987	1.012	2.9502	3.6849
#1	-.0185	.2673	.50289	4.940	.00048	.00197
#2	-.0133	.2630	.49639	5.012	.00046	.00187
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	186.76
Stddev	.58
%RSD	.31280

#1	186.35
#2	187.17

Method: 2010A

Sample Name: CCB

Operator:

Comment:

Run Time: 05/26/10 13:23 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	.0101	.0044	.00064	.00027	.0001
Stddev	.0040	.0007	.0085	.00039	.00002	.0001
%RSD	43.36	6.599	192.0	59.892	8.0873	105.7

#1	.0064	.0105	-.0016	.00092	.00028	.0000
#2	.0120	.0096	.0104	.00037	.00025	.0002

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	.0007	.0109	.0020	.0010	.0010	.0051
Stddev	.0004	.0036	.0007	.0013	.0021	.0001
%RSD	58.70	32.82	34.39	130.7	201.8	2.535

#1	.0009	.0084	.0025	.0001	.0025	.0052
#2	.0004	.0134	.0015	.0019	-.0004	.0050

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	.0025	.00489	.00157	.0020	.0000	.0007
Stddev	.0049	.00003	.00005	.0025	.001	.0158
%RSD	194.8	.64594	3.1029	125.0	2044.	2185.

#1	.0060	.00487	.00154	.0037	-.0005	.0119
#2	-.0009	.00491	.00161	.0002	.0004	-.0105

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	.0007	.0005	.0023	.0059	.0031	-.0001
Stddev	.0137	.0007	.0017	.0007	.0010	.0003
%RSD	1965.	141.3	74.92	11.57	33.12	604.2

#1	.0104	.0000	.0035	.0054	.0038	.0002
#2	-.0090	.0009	.0011	.0063	.0024	-.0003

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: CCB Run Time: 05/26/10 13:23

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0049	.0011	-.00113	.0129	.00001	.00011
Stddev	.0046	.0012	.00080	.0132	.00003	.00003
%RSD	93.17	108.0	70.672	102.8	313.21	24.920

#1	-.0017	.0020	-.00170	.0223	-.00001	.00013
#2	-.0081	.0003	-.00057	.0035	.00003	.00009

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	184.06
Stddev	.13
%RSD	.07127

#1	184.15
#2	183.97

Method: 2010A Sample Name: K1005179-004 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 13:26 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0484	.0023	-.0001	.05004	-.00004	.0253
#1	.0434	-.0034	.0031	.05034	-.00011	.0246
#2	.0533	.0080	-.0032	.04975	.00003	.0260
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	47.21	.0004	.0010	.0015	.0599
#1	-.0004	46.99	.0004	.0005	.0023	.0604
#2	.0002	47.44	.0004	.0014	.0008	.0594
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0070	2.6697	.00865	.0078	.0001	3.750
#1	-.0087	2.6669	.00848	.0076	.0005	3.787
#2	-.0053	2.6725	.00881	.0079	-.0004	3.713
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117	.0005	6.290	.0034	.0070	.0030
#1	.0145	.0013	6.333	.0019	.0092	.0035
#2	.0090	-.0003	6.247	.0049	.0048	.0025
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2968	1.527	.00145	-.0038	.00116	.27320
#1	.2846	1.520	.00218	-.0020	.00115	.27359
#2	.3091	1.534	.00072	-.0056	.00117	.27280
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.55					
#1	182.90					
#2	184.20					

Method: 2010A Sample Name: K1005179-001 Operator: JC
 Comment: DISS (202239) (052610A)
 Run Time: 05/26/10 13:29 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0420	.0004	.0070	.00059	-.00005	.0029
#1	.0448	-.0018	.0168	.00076	-.00002	.0028
#2	.0391	.0026	-.0027	.00043	-.00009	.0030
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	12.19	.0000	.0004	.0002	.0493
#1	.0003	12.13	.0004	.0005	-.0030	.0497
#2	.0002	12.25	-.0004	.0003	.0035	.0489
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065	.90528	.00221	-.0007	-.0004	.1410
#1	.0065	.90384	.00229	-.0002	-.0005	.1542
#2	.0065	.90673	.00213	-.0011	-.0002	.1278
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0186	-.0011	3.499	.0039	.0037	.0000
#1	.0076	-.0025	3.524	-.0019	.0051	-.0003
#2	.0297	.0003	3.473	.0097	.0023	.0002
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2198	.8729	-.00122	.0036	.00064	.03817
#1	.2127	.8748	-.00046	.0017	.00089	.03833
#2	.2269	.8710	-.00198	.0055	.00040	.03801
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.48					
#1	183.34					
#2	183.62					

Method: 2010A Sample Name: K1005179-002 Operator: JC
 Comment: DISS (202239) (052610A)
 Run Time: 05/26/10 13:32 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149	-.0007	.0090	.04915	-.00006	.0245

#1	.0050	.0062	.0119	.04923	-.00007	.0240
#2	.0249	-.0077	.0062	.04907	-.00005	.0249

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	47.03	-.0001	.0015	.0036	.0125

#1	.0007	46.72	-.0008	.0026	.0062	.0121
#2	.0010	47.33	.0007	.0004	.0011	.0129

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025	2.5991	.00271	.0072	-.0002	3.673

#1	.0043	2.5871	.00267	.0063	.0006	3.688
#2	.0008	2.6111	.00275	.0081	-.0010	3.658

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.0024	6.193	-.0025	.0051	.0001

#1	.0062	.0013	6.264	-.0038	.0066	.0002
#2	.0048	.0035	6.123	-.0012	.0035	.0000

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2731	1.428	.00076	-.0018	.00071	.26507

#1	.2600	1.423	.00029	.0055	.00090	.26579
#2	.2862	1.432	.00122	-.0092	.00053	.26434

Int. Std.	Sc3572
Units	Cts/S
Avg	183.89

#1	183.18
#2	184.61

Method:	2010A	Sample Name:	K1005179-003	Operator:	JC
Comment:	DISS	(202239)	(052610A)		
Run Time:	05/26/10	13:35	Type: Unk	Mode: CONC	Corr.Fact: 1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0021	-.0013	-.0057	-.00003	-.00004
#1	-.0035	.0000	-.0041	.00014	-.00010
#2	-.0007	-.0026	-.0072	-.00021	.00002
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0001	.0094	-.0002	.0003
#1	.0002	-.0001	.0084	.0003	.0003
#2	.0007	-.0001	.0104	-.0007	.0003
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0076	-.0037	.00017	.00009
#1	.0024	.0075	.0023	.00008	.00012
#2	-.0003	.0078	-.0096	.00026	.00006
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0002	.0087	-.0028	.0016
#1	-.0011	.0005	.0129	.0048	.0016
#2	-.0019	-.0002	.0045	-.0104	.0016
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0148	.0000	.0038	.0000	.2274
#1	.0142	-.0031	.0043	-.0002	.2181
#2	.0153	.0031	.0033	.0002	.2366
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0021	-.00183	.0100	.00016	-.00003
#1	-.0023	-.00200	.0109	-.00002	-.00004
#2	-.0019	-.00165	.0091	.00034	-.00001
Int. Std.	Sc3572				
Units	Cts/S				
Avg	182.81				
#1	181.84				
#2	183.78				

Method: 2010A Sample Name: K1005179-004 Operator: JC
 Comment: DISS (202239) (052610A)
 Run Time: 05/26/10 13:38 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0178	.0049	.0056	.05249	-.00003	.0253
#1	.0149	-.0008	.0025	.05270	.00000	.0249
#2	.0206	.0106	.0087	.05229	-.00006	.0257
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	49.77	.0006	.0015	.0005	.0122
#1	-.0001	49.57	-.0002	.0010	-.0018	.0125
#2	.0007	49.96	.0015	.0020	.0027	.0119
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	2.7734	.00352	.0071	-.0004	3.958
#1	.0039	2.7717	.00352	.0066	-.0002	3.934
#2	-.0100	2.7752	.00352	.0076	-.0006	3.982
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	.0000	6.661	-.0003	.0053	.0018
#1	-.0021	.0000	6.661	.0009	.0066	.0016
#2	-.0007	.0000	6.660	-.0016	.0040	.0021
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3414	1.546	.00061	.0047	.00170	.28500
#1	.3374	1.542	.00140	.0056	.00190	.28507
#2	.3454	1.551	-.00018	.0038	.00150	.28494
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.61					
#1	183.20					
#2	184.02					

Method: 2010A Sample Name: RB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 13:41 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	-.0075	.0082	-.00004	-.00008	.0013
#1	.0177	-.0149	.0035	.00019	-.00011	.0012
#2	-.0064	-.0001	.0129	-.00027	-.00004	.0015
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0031	.0013	-.0002	.0026	-.0005
#1	.0012	.0089	.0019	.0000	.0028	-.0005
#2	-.0003	-.0028	.0007	-.0003	.0024	-.0006
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029	.00009	.00005	-.0021	.0001	.0082
#1	.0017	.00007	.00018	-.0008	.0001	-.0081
#2	.0042	.00012	-.00007	-.0034	.0000	.0245
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0083	.0000	.0158	-.0056	.0026	-.0007
#1	-.0103	.0009	.0139	-.0090	.0040	-.0002
#2	-.0062	-.0010	.0178	-.0022	.0012	-.0013
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0063	-.0006	-.00115	.0073	.00026	-.00004
#1	-.0072	.0003	-.00052	.0073	.00035	-.00009
#2	-.0054	-.0014	-.00178	.0073	.00017	.00001
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.26					
#1	183.65					
#2	184.88					

Method: 2010A Sample Name: K1005182-MB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 13:44 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078	-.0031	-.0028	.00012	-.00002	.0030
#1	.0107	.0008	-.0079	.00014	.00000	.0035
#2	.0050	-.0070	.0022	.00010	-.00004	.0026
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0036	-.0001	.0003	-.0021	-.0008
#1	-.0003	.0048	-.0003	.0009	-.0022	-.0011
#2	-.0002	.0023	.0000	-.0002	-.0019	-.0006
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	.00004	-.00008	-.0019	-.0009	.0118
#1	-.0057	.00009	-.00019	-.0029	-.0009	.0164
#2	.0020	.00000	.00003	-.0010	-.0008	.0072
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0009	.0069	-.0014	.0029	-.0013
#1	.0034	.0028	.0085	.0033	.0054	-.0012
#2	-.0021	-.0009	.0052	-.0061	.0003	-.0014
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2929	.0248	-.00183	.0064	-.00037	-.00005
#1	.2990	.0240	-.00196	.0128	-.00010	-.00001
#2	.2867	.0256	-.00169	.0000	-.00064	-.00008
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.40					
#1	183.13					
#2	185.67					

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1005182 (202239) (052610A)
 Run Time: 05/26/10 13:47 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	2.589	2.556	5.1675	.12658	.0016
#1	5.018	2.583	2.549	5.0463	.12607	.0020
#2	5.029	2.594	2.562	5.2886	.12708	.0013
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.256	12.34	.5214	1.264	.6353	2.534
#1	1.248	12.24	.5209	1.256	.6343	2.523
#2	1.264	12.45	.5219	1.273	.6363	2.546
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.518	12.53	1.2359	.0004	1.265	12.72
#1	2.512	12.52	1.2345	.0000	1.260	12.65
#2	2.523	12.54	1.2373	.0008	1.269	12.79
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.519	.6198	12.92	.0103	1.270	1.256
#1	2.496	.6184	12.82	.0144	1.257	1.246
#2	2.542	.6212	13.01	.0062	1.283	1.267
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2211	.0201	.00084	2.484	-.00002	.00707
#1	.2048	.0237	.00061	2.451	.00015	.00712
#2	.2375	.0165	.00107	2.517	-.00019	.00701
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.20					
#1	183.56					
#2	182.84					

Method: 2010A Sample Name: K1005182-001 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 13:50 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0234	.0027	.0066	.03094	-.00001	.0291
#1	.0135	.0018	.0037	.03123	.00003	.0284
#2	.0334	.0036	.0094	.03065	-.00004	.0299
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	52.00	-.0009	.0011	.0003	.0303
#1	.0002	51.85	-.0008	.0016	.0026	.0306
#2	.0002	52.16	-.0010	.0007	-.0019	.0299
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	2.9334	.00349	.0031	-.0011	3.125
#1	.0056	2.9259	.00361	.0028	-.0014	3.138
#2	-.0044	2.9409	.00337	.0034	-.0008	3.111
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159	-.0013	3.436	-.0041	.0043	.0368
#1	.0200	-.0038	3.443	-.0015	.0048	.0357
#2	.0117	.0013	3.429	-.0067	.0039	.0379
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3922	3.311	.00108	-.0009	.00313	.21021
#1	.3973	3.314	-.00067	.0206	.00311	.20995
#2	.3871	3.309	.00283	-.0225	.00315	.21048
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.59					
#1	183.49					
#2	183.69					

Method: 2010A Sample Name: K1005182-001D Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 13:53 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0270	.0009	-.0010	.03102	-.00008	.0297
#1	.0192	-.0069	.0000	.03109	-.00007	.0299
#2	.0349	.0088	-.0019	.03095	-.00008	.0295
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	52.30	-.0001	.0003	.0035	.0306
#1	.0007	52.09	.0002	.0002	.0050	.0309
#2	.0005	52.52	-.0003	.0003	.0021	.0304
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	2.9766	.00335	.0030	-.0010	3.188
#1	.0018	2.9725	.00349	.0027	-.0013	3.166
#2	-.0027	2.9807	.00321	.0033	-.0006	3.211
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	-.0011	3.500	.0028	.0065	.0368
#1	.0035	.0000	3.506	.0015	.0075	.0364
#2	-.0062	-.0022	3.493	.0041	.0056	.0371
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5193	3.359	.00112	-.0066	.00337	.21310
#1	.5249	3.354	.00092	-.0058	.00291	.21351
#2	.5137	3.363	.00132	-.0075	.00384	.21269
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.22					
#1	182.67					
#2	183.77					

Method: 2010A

Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 13:56 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.085	.0095	.0123	2.5528	.05126	-.0182
Stddev	.030	.0074	.0062	.0001	.00017	.0005
%RSD	.5938	77.91	50.57	.00483	.32673	2.474
#1	5.106	.0147	.0079	2.5529	.05137	-.0185
#2	5.063	.0042	.0167	2.5527	.05114	-.0179
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	.0019	25.45	.0012	.0001	.0029	25.35
Stddev	.0003	.06	.0010	.0006	.0002	.04
%RSD	13.98	.2177	79.87	701.3	7.141	.1417
#1	.0017	25.41	.0019	-.0003	.0028	25.37
#2	.0021	25.49	.0005	.0005	.0031	25.32
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	.0045	25.42	5.065	-.0015	-.0033	10.15
Stddev	.0050	.03	.039	.0024	.0006	.01
%RSD	109.1	.1140	.7673	159.3	17.06	.1014
#1	.0080	25.40	5.092	-.0032	-.0029	10.16
#2	.0010	25.44	5.038	.0002	-.0037	10.14
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	.0163	.0030	10.08	.0023	.0055	.0014
Stddev	.0156	.0029	.02	.0017	.0032	.0002
%RSD	95.73	96.86	.2390	75.55	58.24	12.38
#1	.0274	.0009	10.06	.0035	.0077	.0013
#2	.0053	.0051	10.09	.0011	.0032	.0015
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/26/10 13:56

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.12	2.556	.00128	-.0140	.51136	.51920
Stddev	.00	.005	.00082	.0054	.00264	.00080
%RSD	.0395	.2135	63.736	38.38	.51720	.15404
#1	10.12	2.559	.00186	-.0178	.50949	.51977
#2	10.11	2.552	.00070	-.0102	.51323	.51864
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	182.71					
Stddev	.22					
%RSD	.12157					
#1	182.55					
#2	182.87					

Method: 2010A

Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 13:59 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4745	2.472	2.457	.46618	.54022	.5022
Stddev	.0001	.010	.002	.00208	.00175	.0001
%RSD	.0273	.4186	.0734	.44617	.32320	.0110
#1	.4746	2.479	2.459	.46765	.54146	.5022
#2	.4744	2.465	2.456	.46471	.53899	.5021
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	.5023	2.429	.5040	.5036	.5049	.5212
Stddev	.0010	.034	.0050	.0007	.0020	.0125
%RSD	.1934	1.406	.9868	.1404	.3885	2.390
#1	.5030	2.405	.5076	.5041	.5063	.5300
#2	.5016	2.453	.5005	.5031	.5035	.5124
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	2.484	1.9823	.98926	.9953	.5045	4.966
Stddev	.016	.0129	.00301	.0016	.0028	.020
%RSD	.6297	.65110	.30423	.1631	.5484	.4059
#1	2.495	1.9731	.99139	.9965	.5064	4.980
#2	2.473	1.9914	.98713	.9942	.5025	4.952
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	2.443	.4900	.4851	2.428	.5046	.4966
Stddev	.016	.0029	.0041	.002	.0062	.0027
%RSD	.6599	.5817	.8366	.0631	1.235	.5516
#1	2.432	.4880	.4880	2.427	.5001	.4986
#2	2.455	.4920	.4823	2.429	.5090	.4947
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: 05/26/10 13:59

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0094	.2622	.50374	4.952	.00058	.00184
Stddev	.0012	.0002	.00030	.030	.00040	.00003
%RSD	12.77	.0924	.05919	.6137	69.836	1.8605

#1	-.0102	.2624	.50396	4.973	.00029	.00186
#2	-.0085	.2620	.50353	4.930	.00087	.00182

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	185.52
Stddev	.81
%RSD	.43727

#1	184.95
#2	186.10

Method: 2010A

Sample Name: CCB

Operator:

Comment:

Run Time: 05/26/10 14:01 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071	.0088	.0019	.00018	-.00008	-.0008
Stddev	.0050	.0038	.0067	.00026	.00004	.0005
%RSD	70.69	42.87	353.7	143.66	48.330	62.49

#1	.0107	.0114	-.0028	.00037	-.00005	-.0011
#2	.0036	.0061	.0066	.00000	-.00011	-.0004

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	-.0003	.0003	.0003	.0008	.0004	-.0006
Stddev	.0005	.0036	.0017	.0003	.0015	.0003
%RSD	162.8	1329.	689.1	41.37	330.1	60.27

#1	.0000	.0028	-.0010	.0010	.0015	-.0008
#2	-.0007	-.0023	.0015	.0006	-.0006	-.0003

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	-.0001	-.00002	.00001	.0012	-.0010	.0011
Stddev	.0134	.00002	.00017	.0017	.0019	.0060
%RSD	12850.	112.87	1822.4	150.4	183.4	533.3

#1	-.0096	.00000	.00013	.0024	.0003	-.0031
#2	.0094	-.00004	-.00011	-.0001	-.0023	.0053

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	.0097	.0005	.0052	.0026	.0015	.0005
Stddev	.0088	.0020	.0005	.0072	.0006	.0012
%RSD	90.91	424.5	10.47	277.0	39.81	215.1

#1	.0035	-.0009	.0049	-.0025	.0020	-.0003
#2	.0159	.0019	.0056	.0076	.0011	.0014

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: CCB Run Time: 05/26/10 14:01

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0008	-.00115	.0110	-.00023	.00001
Stddev	.0065	.0002	.00202	.0027	.00072	.00002
%RSD	137.8	21.78	176.24	24.34	311.84	202.36
#1	.0001	.0007	-.00258	.0091	.00028	.00002
#2	.0093	.0009	.00028	.0129	-.00074	.00000
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	184.15					
Stddev	.49					
%RSD	.26502					
#1	183.80					
#2	184.49					

Method: 2010A Sample Name: K1005182-001L Operator: JC
 Comment: 1/5 (202239) (052610A)
 Run Time: 05/26/10 14:05 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	.0039	.0070	.00558	.00005	.0053

#1	.0021	.0017	.0104	.00532	.00010	.0057
#2	.0092	.0061	.0035	.00585	.00000	.0049

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	10.01	.0019	.0012	.0003	.0066

#1	-.0002	10.12	.0025	.0008	.0014	.0067
#2	-.0005	9.895	.0012	.0016	-.0007	.0064

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064	.52325	.00075	-.0007	.0002	.5675

#1	.0147	.52249	.00081	-.0032	.0006	.5761
#2	-.0019	.52400	.00070	.0017	-.0001	.5588

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	-.0021	.6251	.0032	.0011	.0068

#1	.0117	-.0013	.6365	.0017	.0014	.0073
#2	-.0034	-.0028	.6137	.0046	.0009	.0062

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0705	.6360	.00011	-.0011	.00027	.04113

#1	.0728	.6363	.00149	-.0189	.00019	.04129
#2	.0682	.6357	-.00128	.0167	.00035	.04098

Int. Std.	Sc3572
Units	Cts/S
Avg	184.72

#1	183.85
#2	185.59

Method: 2010A Sample Name: K1005182-001S Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 14:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.891	.3978	.9703	1.9765	.04786	1.049
#1	1.894	.4048	.9777	1.9757	.04779	1.049
#2	1.889	.3908	.9629	1.9774	.04792	1.049
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0467	61.13	.1942	.4703	.2377	.9917
#1	.0463	60.88	.1947	.4725	.2377	.9914
#2	.0471	61.38	.1937	.4682	.2376	.9920
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4561	12.87	.44371	1.006	.4689	13.53
#1	.4553	12.81	.44341	1.003	.4695	13.64
#2	.4569	12.92	.44401	1.008	.4683	13.41
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9373	.0406	14.53	-.0021	.4851	.5090
#1	.9416	.0404	14.65	.0008	.4822	.5073
#2	.9330	.0407	14.41	-.0050	.4881	.5106
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6335	3.379	.00079	.8975	.00352	.21711
#1	.6271	3.378	.00035	.8941	.00360	.21748
#2	.6399	3.381	.00123	.9010	.00344	.21673
Int. Std.	Sc3572					
Units	Cts/S					
Avg	180.05					
#1	179.80					
#2	180.31					

Method: 2010A Sample Name: K1005182-002 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 14:10 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184	-.0092	.0033	.00749	-.00005	.0131
#1	-.0050	-.0078	.0218	.00745	-.00011	.0132
#2	.0419	-.0105	-.0153	.00753	.00001	.0130
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	44.71	.0018	.0002	.0020	.0139
#1	.0001	44.54	.0011	.0003	.0023	.0136
#2	.0005	44.88	.0025	.0000	.0017	.0142
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069	1.4564	.00053	.0018	-.0008	.6541
#1	.0010	1.4548	.00044	.0018	-.0005	.6460
#2	.0128	1.4580	.00061	.0018	-.0012	.6622
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117	.0019	2.786	.0035	.0051	.0091
#1	.0200	.0006	2.796	.0038	.0043	.0098
#2	.0035	.0032	2.775	.0032	.0058	.0085
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5636	2.547	-.00223	.0138	.00184	.12003
#1	.5589	2.547	-.00165	.0186	.00188	.12031
#2	.5684	2.548	-.00281	.0091	.00180	.11976
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.10					
#1	180.78					
#2	181.43					

Method: 2010A Sample Name: K1005182-003 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 14:13 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0483	.0109	-.0001	.11850	-.00009	.0183
#1	.0334	.0157	-.0026	.11782	-.00001	.0192
#2	.0632	.0061	.0024	.11917	-.00016	.0174
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	85.06	.0004	.0001	.0021	.0138
#1	-.0004	84.60	.0010	.0000	.0033	.0140
#2	-.0002	85.53	-.0003	.0002	.0009	.0136
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	2.2026	.00037	.0000	.0005	1.788
#1	-.0012	2.2002	.00032	-.0005	-.0007	1.788
#2	.0066	2.2050	.00043	.0004	.0016	1.788
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0262	-.0011	2.991	-.0028	.0096	-.0001
#1	.0104	-.0006	2.980	-.0011	.0106	-.0011
#2	.0421	-.0016	3.003	-.0045	.0087	.0010
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3512	1.709	-.00034	.0082	.00218	.17004
#1	.3547	1.706	-.00004	-.0022	.00241	.17029
#2	.3477	1.711	-.00065	.0187	.00194	.16980
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.61					
#1	181.41					
#2	181.81					

Method: 2010A Sample Name: K1005182-001 Operator: JC
 Comment: DISS (202239) (052610A)
 Run Time: 05/26/10 14:16 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100	-.0021	.0041	.03209	-.00005	.0315

#1	.0064	-.0017	.0012	.03187	-.00004	.0314
#2	.0136	-.0026	.0069	.03232	-.00005	.0317

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	56.14	.0009	.0028	.0018	.0125

#1	.0004	55.90	.0013	.0021	.0027	.0127
#2	-.0001	56.38	.0005	.0035	.0009	.0123

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0053	3.1464	.00610	.0043	.0003	3.345

#1	-.0122	3.1427	.00613	.0052	-.0002	3.359
#2	.0016	3.1500	.00607	.0034	.0007	3.330

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0186	.0002	3.665	-.0011	.0081	.0414

#1	.0145	.0000	3.692	.0027	.0086	.0414
#2	.0228	.0003	3.637	-.0049	.0075	.0414

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3789	3.532	.00118	-.0084	.00317	.22711

#1	.3795	3.530	-.00051	-.0244	.00288	.22740
#2	.3783	3.534	.00287	.0076	.00346	.22681

Int. Std.	Sc3572
Units	Cts/S
Avg	184.14

#1	183.72
#2	184.57

Method: 2010A Sample Name: K1005182-002 Operator: JC
 Comment: DISS (202239) (052610A)
 Run Time: 05/26/10 14:20 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0249	.0013	-.0011	.00744	-.00004	.0132

#1	.0263	-.0009	-.0090	.00738	-.00006	.0132
#2	.0235	.0035	.0067	.00749	-.00003	.0133

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	44.77	.0007	.0010	.0005	.0096

#1	-.0005	44.51	.0007	.0005	.0015	.0098
#2	-.0003	45.04	.0007	.0015	-.0004	.0095

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097	1.4538	.00054	.0004	-.0012	.6250

#1	.0176	1.4512	.00043	.0015	-.0015	.6324
#2	.0018	1.4563	.00064	-.0007	-.0010	.6176

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	.0011	2.676	-.0066	.0025	.0085

#1	-.0035	.0013	2.669	-.0083	.0031	.0094
#2	.0007	.0010	2.683	-.0049	.0019	.0075

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4456	2.517	.00131	-.0051	.00171	.11830

#1	.4490	2.512	.00175	.0035	.00173	.11858
#2	.4421	2.522	.00088	-.0136	.00170	.11802

Int. Std.	Sc3572
Units	Cts/S
Avg	181.95

#1	182.09
#2	181.81

Method: 2010A Sample Name: K1005182-003 Operator: JC
 Comment: DISS (202239) (052610A)
 Run Time: 05/26/10 14:23 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0228	-.0039	-.0023	.11404	.00001	.0178
#1	.0391	.0035	-.0033	.11368	.00006	.0176
#2	.0064	-.0114	-.0014	.11441	-.00003	.0180
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	84.50	.0001	.0033	.0038	.0082
#1	.0000	84.07	.0000	.0028	.0043	.0088
#2	-.0001	84.94	.0001	.0039	.0032	.0075
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	2.1834	.00334	.0009	-.0014	1.791
#1	.0005	2.1897	.00329	.0016	-.0010	1.800
#2	-.0005	2.1771	.00339	.0003	-.0019	1.783
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0014	3.031	-.0018	.0040	.0006
#1	.0035	.0019	3.040	-.0054	.0026	.0007
#2	-.0035	.0009	3.022	.0019	.0053	.0005
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4814	1.690	.00140	-.0031	.00192	.16835
#1	.4896	1.683	.00212	-.0041	.00182	.16959
#2	.4733	1.698	.00067	-.0020	.00203	.16711
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.56					
#1	181.98					
#2	183.14					

Method: 2010A	Sample Name: RB	Operator: JC			
Comment:	(202239) (052610A)				
Run Time: 05/26/10	14:26	Type: Unk	Mode: CONC	Corr.Fact: 1.000000	
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0157	-.0040	.0019	-.00032	.00004
#1	-.0263	-.0097	.0028	-.00038	.00009
#2	-.0050	.0017	.0009	-.00026	-.00001
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0016	.0002	.0079	.0000	.0011
#1	.0012	.0001	.0073	.0009	.0007
#2	.0019	.0003	.0084	-.0009	.0016
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0009	-.0009	.0005	.00010	-.00007
#1	.0002	-.0010	.0021	.00012	-.00004
#2	.0017	-.0007	-.0010	.00008	-.00009
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	.0008	.0263	-.0055	.0003
#1	-.0021	.0001	.0424	.0021	.0003
#2	-.0003	.0016	.0102	-.0131	.0003
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0132	-.0154	.0053	-.0009	.0097
#1	.0122	.0045	.0059	-.0008	.0149
#2	.0141	-.0352	.0046	-.0011	.0045
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0012	-.00164	.0036	-.00029	-.00003
#1	.0020	-.00111	-.0039	-.00027	.00000
#2	.0004	-.00217	.0111	-.00031	-.00006
Int. Std.	Sc3572				
Units	Cts/S				
Avg	184.73				
#1	184.15				
#2	185.31				

Method: 2010A Sample Name: K1005169-MB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 14:29 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	-.0101	.0031	-.00028	-.00003
#1	.0021	-.0184	-.0003	-.00029	.00008
#2	-.0050	-.0018	.0066	-.00028	-.00014
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0001	.0031	.0010	.0001
#1	.0005	.0002	.0058	.0003	-.0001
#2	.0005	.0001	.0003	.0017	.0002
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0021	-.0008	.0057	.00004	.00015
#1	.0018	-.0003	.0062	.00003	.00024
#2	.0024	-.0013	.0052	.00006	.00006
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	-.0005	.0228	.0000	-.0010
#1	-.0021	-.0005	.0287	.0007	-.0028
#2	-.0018	-.0004	.0169	-.0007	.0009
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0054	.0001	.0020	-.0002	.2781
#1	.0075	-.0007	.0012	-.0003	.2753
#2	.0033	.0010	.0029	.0000	.2809
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0064	.00007	-.0089	-.00006	-.00005
#1	.0064	-.00072	-.0042	-.00023	-.00007
#2	.0064	.00086	-.0136	.00011	-.00003
Int. Std.	Sc3572				
Units	Cts/S				
Avg	182.44				
#1	182.08				
#2	182.79				

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1005169 (202239) (052610A)
 Run Time: 05/26/10 14:32 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.095	2.655	2.559	5.3476	.12891	-.0007
#1	5.089	2.629	2.546	5.3270	.12886	-.0008
#2	5.101	2.682	2.573	5.3682	.12897	-.0006
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.273	12.60	.5267	1.291	.6275	2.578
#1	1.270	12.49	.5260	1.287	.6272	2.573
#2	1.276	12.71	.5273	1.295	.6277	2.582
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.568	12.60	1.2374	-.0022	1.284	12.78
#1	2.550	12.65	1.2306	-.0023	1.280	12.81
#2	2.586	12.56	1.2442	-.0021	1.288	12.74
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.574	.6271	12.68	.0123	1.284	1.284
#1	2.571	.6298	12.71	.0147	1.282	1.276
#2	2.577	.6244	12.65	.0099	1.287	1.292
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2114	-.0015	.00060	2.517	.00017	.00696
#1	.2092	-.0007	-.00001	2.518	.00055	.00699
#2	.2136	-.0022	.00121	2.516	-.00021	.00693
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.36					
#1	184.09					
#2	184.64					

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 14:35 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.129	.0199	.0076	2.5637	.05183	-.0166
Stddev	.026	.0123	.0004	.0073	.00038	.0002
%RSD	.5128	61.94	5.888	.28265	.73602	1.062
#1	5.147	.0286	.0079	2.5688	.05210	-.0165
#2	5.110	.0112	.0073	2.5585	.05156	-.0168
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	.0018	25.51	.0016	-.0007	.0000	25.40
Stddev	.0002	.08	.0007	.0010	.001	.01
%RSD	9.536	.3274	47.13	137.5	9844.	.0445
#1	.0019	25.57	.0021	-.0015	-.0005	25.41
#2	.0017	25.45	.0011	.0000	.0005	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	-.0081	25.66	5.083	-.0024	-.0036	10.27
Stddev	.0123	.03	.020	.0007	.0009	.02
%RSD	151.4	.1125	.3958	29.28	24.44	.2335
#1	-.0168	25.68	5.097	-.0028	-.0030	10.25
#2	.0006	25.64	5.069	-.0019	-.0042	10.28
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	.0094	.0016	10.15	-.0009	.0075	.0006
Stddev	.0059	.0018	.01	.0006	.0004	.0005
%RSD	62.14	112.9	.0927	71.35	5.884	78.20
#1	.0053	.0003	10.15	-.0013	.0072	.0009
#2	.0136	.0029	10.16	-.0004	.0078	.0003
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/26/10 14:35

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.25	2.573	-.00031	-.0026	.51677	.52368
Stddev	.03	.002	.00066	.0053	.00210	.00112
%RSD	.2852	.0733	212.01	207.6	.40580	.21429
#1	10.27	2.574	.00016	-.0063	.51528	.52447
#2	10.23	2.572	-.00078	.0012	.51825	.52288
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	183.22					
Stddev	.13					
%RSD	.07170					
#1	183.13					
#2	183.31					

Method: 2010A Sample Name: CCVA Operator:
 Comment:
 Run Time: 05/26/10 14:38 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4924	2.486	2.438	.46758	.55145	.5070
Stddev	.0273	.004	.004	.00168	.00284	.0029
%RSD	5.545	.1732	.1694	.35823	.51514	.5675
#1	.5118	2.483	2.441	.46876	.55346	.5091
#2	.4731	2.489	2.435	.46640	.54944	.5050
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	.5003	2.515	.5029	.5049	.5032	.5279
Stddev	.0026	.035	.0007	.0039	.0058	.0086
%RSD	.5145	1.397	.1385	.7645	1.158	1.629
#1	.5021	2.490	.5024	.5076	.4990	.5340
#2	.4985	2.540	.5034	.5022	.5073	.5219
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	2.525	2.0184	.98251	.9950	.5065	5.123
Stddev	.021	.0078	.00269	.0029	.0002	.066
%RSD	.8133	.38770	.27382	.2921	.0422	1.285
#1	2.540	2.0128	.98061	.9971	.5064	5.169
#2	2.511	2.0239	.98441	.9930	.5067	5.076
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	2.514	.4949	.4900	2.491	.5128	.4963
Stddev	.008	.0094	.0007	.004	.0033	.0000
%RSD	.3343	1.897	.1493	.1766	.6401	.0067
#1	2.520	.4883	.4895	2.494	.5105	.4963
#2	2.508	.5016	.4905	2.487	.5151	.4962
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: 05/26/10 14:38

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0107	.2656	.50465	5.006	.00021	.00179
Stddev	.0008	.0013	.00411	.010	.00064	.00005
%RSD	7.656	.4897	.81383	.1992	299.72	2.8630

#1	-.0101	.2665	.50175	5.013	-.00024	.00175
#2	-.0113	.2647	.50756	4.999	.00067	.00182

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	185.46
Stddev	.28
%RSD	.15096

#1	185.26
#2	185.66

Method: 2010A

Sample Name: CCB

Operator:

Comment:

Run Time: 05/26/10

14:40 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0109	.0009	-.00026	.00006
Stddev	.0201	.0031	.0009	.00045	.00004
%RSD	2908.	28.43	94.50	170.93	60.202

#1	.0135	.0131	.0003	.00006	.00004
#2	-.0149	.0087	.0016	-.00058	.00009

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	.0005	.0004	.0043	.0010	.0004
Stddev	.0002	.0003	.0072	.0018	.0007
%RSD	39.48	88.80	166.5	176.5	154.2

#1	.0006	.0006	.0094	.0023	.0000
#2	.0004	.0001	-.0008	-.0003	.0009

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	.0027	.0006	.0000	.00021	.00017
Stddev	.0008	.0005	.008	.00004	.00004
%RSD	31.40	87.16	52100.	17.328	24.367

#1	.0033	.0010	-.0057	.00024	.00020
#2	.0021	.0002	.0056	.00018	.00014

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	-.0004	-.0004	-.0050	.0028	.0017
Stddev	.0015	.0013	.0017	.0068	.0020
%RSD	381.1	336.6	33.72	247.8	115.7

#1	.0006	-.0013	-.0038	.0076	.0032
#2	-.0014	.0005	-.0062	-.0021	.0003

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: 05/26/10 14:40

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0027	.0019	.0023	.0001	.0008
Stddev	.0008	.0007	.0000	.0007	.0045
%RSD	28.01	35.83	.5408	650.8	526.0
#1	.0021	.0014	.0023	-.0004	.0040
#2	.0032	.0024	.0023	.0006	-.0023
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	.0004	-.00007	.0119	.00022	-.00005
Stddev	.0023	.00027	.0173	.00075	.00004
%RSD	602.9	384.47	145.3	341.59	86.875
#1	-.0013	-.00026	-.0003	-.00031	-.00008
#2	.0020	.00012	.0241	.00075	-.00002
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	183.10				
Stddev	.06				
%RSD	.03067				
#1	183.14				
#2	183.06				

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1005169 Si (202239) (052610A)
 Run Time: 05/26/10 14:47 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0028	-.0035	.0107	.00011	-.00006

#1	-.0007	.0035	.0104	.00007	-.00004
#2	-.0050	-.0105	.0110	.00014	-.00008

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0011	.0001	.0033	.0009	.0005

#1	-.0006	-.0005	.0023	.0001	.0013
#2	-.0015	.0007	.0043	.0018	-.0002

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	-.0006	-.0035	.00009	-.00001

#1	-.0021	-.0005	-.0035	.00011	.00005
#2	.0005	-.0008	-.0036	.00008	-.00008

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	-.0001	.0149	.0159	.0021

#1	-.0012	.0007	.0197	.0200	.0025
#2	-.0008	-.0009	.0100	.0117	.0016

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	16.89	.0004	.0035	-.0007	.2812

#1	17.05	.0057	.0040	-.0007	.2768
#2	16.73	-.0050	.0029	-.0007	.2856

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	11.01	-.00095	-.0087	.00003	.00000

#1	11.01	-.00111	-.0155	.00004	-.00001
#2	11.02	-.00079	-.0020	.00003	.00001

Int. Std.	Sc3572
Units	Cts/S
Avg	183.69

#1	182.66
#2	184.73

Method: 2010A Sample Name: K1005169-003 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 14:50 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0013	.0145	.00300	.00000

#1	-.0064	-.0105	.0047	.00283	.00004
#2	.0050	.0131	.0242	.00317	-.00004

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0044	-.0004	.7234	.0010	.0004

#1	.0043	-.0006	.7143	.0015	.0007
#2	.0045	-.0003	.7324	.0005	.0002

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0128	.0445	-.0001	.12137	.01520

#1	.0136	.0440	-.0009	.12133	.01503
#2	.0120	.0451	.0008	.12141	.01538

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	.0016	.1323	.0014	.0024

#1	-.0031	.0016	.1325	.0104	.0009
#2	-.0015	.0017	.1320	-.0076	.0038

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.7799	-.0052	.0033	2.301	.4814

#1	.7837	-.0062	.0025	2.285	.4839
#2	.7761	-.0043	.0041	2.318	.4789

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.2759	-.00042	-.0087	.00006	.00270

#1	.2743	-.00106	.0054	-.00039	.00272
#2	.2775	.00023	-.0228	.00051	.00269

Int. Std.	Sc3572
Units	Cts/S
Avg	183.44

#1	183.46
#2	183.43

Method: 2010A Sample Name: K1005169-003D Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 14:53 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0042	.0026	.0082	.00310	.00007
#1	-.0021	-.0053	.0060	.00337	.00001
#2	-.0064	.0105	.0104	.00283	.00013
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0051	.0003	.7197	.0027	.0009
#1	.0051	.0001	.7106	.0036	.0012
#2	.0050	.0005	.7287	.0018	.0005
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.0440	-.0043	.11968	.01531
#1	.0108	.0436	-.0083	.11904	.01529
#2	.0100	.0444	-.0004	.12032	.01534
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	.0007	.1249	.0048	.0008
#1	-.0016	-.0003	.1230	.0076	.0013
#2	-.0009	.0016	.1267	.0021	.0003
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.7858	-.0028	.0041	2.297	.5301
#1	.7884	-.0001	.0028	2.283	.5261
#2	.7832	-.0055	.0054	2.310	.5341
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.2741	.00111	.0005	.00031	.00273
#1	.2747	.00238	.0052	.00060	.00271
#2	.2736	-.00016	-.0042	.00003	.00275
Int. Std.	Sc3572				
Units	Cts/S				
Avg	181.87				
#1	181.42				
#2	182.32				

Method: 2010A Sample Name: K1005169-003S Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 14:56 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.940	.4114	.9994	2.0442	.04946	1.044

#1	1.921	.4105	1.001	2.0487	.04936	1.041
#2	1.959	.4123	.9982	2.0398	.04957	1.047

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0489	.7178	.2031	.5032	.2387	1.052

#1	.0492	.7125	.2042	.5012	.2384	1.052
#2	.0485	.7230	.2019	.5053	.2389	1.051

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5091	.11896	.47348	1.044	.5022	.1438

#1	.5107	.11849	.47390	1.043	.5034	.1405
#2	.5076	.11942	.47307	1.046	.5009	.1472

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.002	.0418	17.93	.0179	.4914	2.798

#1	.9882	.0404	18.01	.0166	.4913	2.803
#2	1.016	.0431	17.85	.0191	.4915	2.793

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5207	11.37	.00181	1.007	-.00017	.00275

#1	.5157	11.33	.00131	1.013	.00011	.00271
#2	.5257	11.41	.00231	1.001	-.00045	.00278

Int. Std.	Sc3572
Units	Cts/S
Avg	180.37

#1	179.75
#2	180.99

Method: 2010A Sample Name: RB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 14:59 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163	-.0070	.0091	.00017	.00005	.0026
#1	.0149	-.0078	-.0009	.00023	.00002	.0026
#2	.0177	-.0061	.0192	.00010	.00009	.0026
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0003	.0005	.0009	.0011	.0004
#1	.0000	-.0099	.0010	.0007	.0018	.0010
#2	.0002	.0094	-.0001	.0011	.0005	-.0003
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064	.00010	.00011	.0008	.0004	.0029
#1	.0150	.00012	.00015	.0016	-.0005	.0139
#2	-.0022	.00008	.00007	.0001	.0013	-.0080
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076	.0013	.0128	.0002	.0043	-.0003
#1	-.0062	.0035	.0157	.0050	.0036	-.0010
#2	.0214	-.0009	.0098	-.0047	.0049	.0003
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051	.0001	-.00082	.0024	-.00020	-.00007
#1	-.0011	.0011	-.00157	.0014	-.00042	-.00008
#2	.0112	-.0010	-.00006	.0034	.00002	-.00006
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.36					
#1	181.73					
#2	183.00					

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1005179 1/5 (202239) (052610A)
 Run Time: 05/26/10 15:02 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.037	.5109	.4697	1.0023	.02657	.2173
#1	1.019	.5087	.4663	.99836	.02664	.2169
#2	1.055	.5130	.4731	1.0063	.02651	.2176
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2633	2.596	.1070	.2677	.1241	.5367
#1	.2621	2.607	.1063	.2654	.1235	.5338
#2	.2645	2.584	.1077	.2701	.1246	.5397
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5144	2.7090	.24656	.2005	.2650	2.654
#1	.5067	2.7237	.24566	.1997	.2642	2.679
#2	.5220	2.6943	.24746	.2012	.2657	2.629
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4733	.1236	2.437	-.0040	.2604	.2601
#1	.4678	.1229	2.444	-.0016	.2584	.2593
#2	.4788	.1244	2.429	-.0065	.2624	.2609
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.089	2.134	-.00012	.4410	2.2221	2.1297
#1	2.087	2.126	-.00053	.4467	2.2268	2.1331
#2	2.090	2.142	.00029	.4353	2.2174	2.1263
Int. Std.	Sc3572					
Units	Cts/S					
Avg	186.52					
#1	186.89					
#2	186.15					

Method: 2010A Sample Name: K1005179-002S Operator: JC
 Comment: 1/5 (202239) (052610A)
 Run Time: 05/26/10 15:05 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8077	.1680	.3869	.81836	.02104	.4560

#1	.8284	.1697	.3851	.81842	.02118	.4573
#2	.7869	.1663	.3888	.81831	.02090	.4546

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0200	14.52	.0855	.2133	.0949	.4457

#1	.0198	14.49	.0866	.2130	.0945	.4451
#2	.0202	14.54	.0843	.2136	.0954	.4464

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1944	4.9670	.19801	.4327	.2105	5.172

#1	.1946	4.9876	.19812	.4302	.2097	5.181
#2	.1943	4.9464	.19789	.4353	.2112	5.162

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4262	.0205	5.478	-.0043	.2087	.2097

#1	.4194	.0208	5.579	-.0085	.2098	.2119
#2	.4331	.0202	5.378	-.0002	.2077	.2075

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.427	4.785	-.00030	.3626	4.6227	4.3425

#1	4.429	4.803	-.00056	.3526	4.6279	4.3792
#2	4.424	4.767	-.00004	.3726	4.6175	4.3057

Int. Std.	Sc3572
Units	Cts/S
Avg	184.20

#1	184.07
#2	184.33

Method: 2010A Sample Name: K1004744-002 Operator: JC
 Comment: 1/10 (202239) (052610A)
 Run Time: 05/26/10 15:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0207	-.0030	.0037	.05439	.00001	.0057
#1	.0335	.0036	.0003	.05343	.00001	.0054
#2	.0079	-.0096	.0072	.05535	.00001	.0060
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	20.05	-.0005	.0013	.0004	.0682
#1	-.0001	19.85	-.0005	.0014	.0008	.0680
#2	.0000	20.24	-.0005	.0011	.0000	.0683
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035	6.2436	.04110	.0013	.0006	4.463
#1	.0116	6.2497	.04081	.0027	.0001	4.446
#2	-.0046	6.2375	.04139	-.0002	.0011	4.480
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	.0008	28.68	-.0060	.0034	.0002
#1	.0021	.0019	28.68	-.0036	.0045	.0009
#2	.0145	-.0003	28.67	-.0083	.0023	-.0005
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0298	2.332	.00015	.0091	.00236	.10802
#1	.0261	2.324	-.00061	.0063	.00247	.10844
#2	.0335	2.341	.00091	.0118	.00225	.10760
Int. Std.	Sc3572					
Units	Cts/S					
Avg	187.98					
#1	187.58					
#2	188.38					

Method: 2010A

Sample Name: RB

Operator: JC

Comment:

(202239) (052610A)

Run Time: 05/26/10 15:11 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	-.0026	.0019	-.00002	-.00006	.0015
#1	.0035	.0035	-.0003	.00018	-.00005	.0016
#2	.0050	-.0087	.0041	-.00021	-.00007	.0014
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0005	.0004	-.0006	.0016	-.0005
#1	-.0002	-.0013	.0013	-.0007	.0023	-.0007
#2	.0005	.0023	-.0005	-.0005	.0009	-.0003
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.00012	.00003	-.0001	.0011	-.0079
#1	.0048	.00011	-.00002	.0005	.0012	-.0102
#2	-.0057	.00012	.00008	-.0008	.0011	-.0056
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117	-.0025	.0144	.0006	.0026	-.0002
#1	.0104	-.0035	.0171	.0043	.0039	-.0008
#2	.0131	-.0016	.0116	-.0031	.0012	.0004
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	.0007	.00024	-.0003	.00006	-.00003
#1	.0020	.0026	-.00021	-.0042	.00006	-.00005
#2	-.0055	-.0012	.00069	.0036	.00007	-.00002
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.53					
#1	182.63					
#2	184.42					

Method: 2010A Sample Name: K1004719-MB Operator: JC
 Comment: 9/10 (202239) (052610A)
 Run Time: 05/26/10 15:14 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0021	-.0066	.0009	.00006	-.00002

#1	-.0007	-.0070	-.0060	-.00021	-.00005
#2	-.0035	-.0062	.0079	.00034	.00001

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0005	.0028	.0012	.0000

#1	-.0001	-.0007	.0033	.0011	.0000
#2	.0001	-.0002	.0023	.0012	.0000

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0015	-.0014	.0021	.00001	.00003

#1	.0030	-.0016	.0056	-.00001	.00008
#2	.0000	-.0013	-.0014	.00004	-.00003

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0027	.0005	.0016	-.0076	.0005

#1	-.0023	-.0006	-.0025	-.0007	.0016
#2	-.0031	.0017	.0057	-.0145	-.0006

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0011	-.0038	.0042	-.0009	-.0064

#1	.0017	-.0062	.0041	-.0009	-.0109
#2	.0006	-.0015	.0043	-.0009	-.0018

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.00244	.0007	.00005	-.00003

#1	-.0005	-.00217	-.0002	-.00039	-.00001
#2	.0012	-.00270	.0016	.00048	-.00005

Int. Std.	Sc3572
Units	Cts/S
Avg	183.59

#1	183.70
#2	183.48

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 15:17 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.122	.0033	.0045	2.6110	.05247	-.0183
Stddev	.009	.0074	.0031	.0006	.00000	.0006
%RSD	.1732	221.4	69.11	.02204	.00213	3.020
#1	5.129	-.0019	.0023	2.6115	.05247	-.0187
#2	5.116	.0086	.0067	2.6106	.05247	-.0179
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	.0019	25.81	.0036	-.0010	.0012	25.65
Stddev	.0002	.17	.0007	.0001	.0039	.00
%RSD	12.37	.6698	18.39	11.09	328.6	.0049
#1	.0021	25.68	.0041	-.0011	-.0016	25.65
#2	.0018	25.93	.0032	-.0009	.0040	25.65
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	.0024	25.77	5.195	-.0024	-.0022	10.12
Stddev	.0062	.04	.000	.0026	.0000	.02
%RSD	256.4	.1639	.0072	108.4	.5400	.2145
#1	-.0020	25.74	5.195	-.0006	-.0022	10.10
#2	.0067	25.80	5.195	-.0042	-.0022	10.13
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	.0157	.0014	10.04	-.0002	.0049	.0007
Stddev	.0029	.0034	.04	.0013	.0035	.0009
%RSD	18.68	236.2	.4181	624.8	71.68	134.9
#1	.0177	.0038	10.07	-.0011	.0073	.0013
#2	.0136	-.0010	10.01	.0007	.0024	.0000
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/26/10 15:17

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.32	2.591	.00161	-.0084	.50925	.52821
Stddev	.01	.005	.00110	.0026	.00110	.00159
%RSD	.1175	.2038	68.224	30.90	.21669	.30186

#1	10.33	2.587	.00084	-.0065	.51003	.52933
#2	10.32	2.595	.00239	-.0102	.50847	.52708

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	182.27
Stddev	.59
%RSD	.32592

#1	181.85
#2	182.69

Method: 2010A

Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 15:20 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4764	2.503	2.520	.47893	.55503	.5111
Stddev	.0030	.022	.039	.00446	.00287	.0002
%RSD	.6200	.8960	1.530	.93115	.51731	.0351
#1	.4743	2.518	2.493	.48209	.55706	.5112
#2	.4785	2.487	2.548	.47578	.55300	.5109
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	.5132	2.559	.5105	.5156	.4951	.5363
Stddev	.0034	.004	.0021	.0032	.0047	.0139
%RSD	.6637	.1508	.4081	.6227	.9457	2.586
#1	.5156	2.562	.5120	.5179	.4918	.5462
#2	.5108	2.557	.5091	.5133	.4984	.5265
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	2.579	2.0469	.99733	1.014	.5150	5.019
Stddev	.006	.0035	.00069	.004	.0034	.012
%RSD	.2483	.16982	.06873	.3539	.6547	.2412
#1	2.583	2.0494	.99782	1.017	.5174	5.010
#2	2.574	2.0445	.99685	1.012	.5126	5.027
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	2.551	.4955	.4801	2.552	.5166	.5099
Stddev	.025	.0054	.0061	.013	.0020	.0044
%RSD	.9889	1.086	1.263	.4977	.3835	.8609
#1	2.533	.4917	.4844	2.561	.5152	.5130
#2	2.568	.4994	.4759	2.543	.5180	.5068
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: 05/26/10 15:20

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0158	.2710	.50975	5.090	.00019	.00173
Stddev	.0061	.0012	.00274	.063	.00013	.00001
%RSD	38.75	.4609	.53775	1.244	70.602	.72154

#1	-.0201	.2719	.50781	5.135	.00010	.00174
#2	-.0115	.2701	.51169	5.046	.00029	.00172

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	185.81
Stddev	1.25
%RSD	.67470

#1	184.92
#2	186.69

Method: 2010A

Sample Name: CCB

Operator:

Comment:

Run Time: 05/26/10 15:23 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121	.0096	.0076	.00015	.00012	.0004
Stddev	.0020	.0037	.0004	.00029	.00007	.0008
%RSD	16.56	38.89	5.913	200.73	57.244	218.9

#1	.0107	.0123	.0072	.00035	.00017	-.0002
#2	.0135	.0070	.0079	-.00006	.00007	.0009

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	-.0003	.0081	.0004	.0006	.0045	.0006
Stddev	.0007	.0011	.0010	.0000	.0006	.0001
%RSD	222.9	13.24	291.7	7.656	14.08	19.97

#1	.0002	.0074	.0011	.0006	.0049	.0007
#2	-.0008	.0089	-.0004	.0007	.0041	.0005

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	-.0040	.00040	.00031	.0016	.0002	-.0144
Stddev	.0073	.00007	.00009	.0026	.0006	.0242
%RSD	184.8	16.568	29.950	164.7	386.8	168.6

#1	-.0092	.00036	.00037	.0034	-.0003	.0028
#2	.0012	.00045	.00024	-.0003	.0006	-.0315

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	-.0014	-.0006	.0030	.0032	.0056	-.0004
Stddev	.0029	.0022	.0011	.0012	.0008	.0004
%RSD	211.9	354.7	36.50	38.33	13.87	80.93

#1	.0007	.0010	.0022	.0023	.0050	-.0007
#2	-.0035	-.0022	.0037	.0040	.0061	-.0002

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: CCB Run Time: 05/26/10 15:23

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0021	-.0017	-.00116	-.0003	.00012	-.00006
Stddev	.0035	.0012	.00034	.0054	.00005	.00005
%RSD	164.4	67.42	28.968	1993.	43.365	75.244

#1	-.0046	-.0025	-.00140	-.0041	.00008	-.00010
#2	.0003	-.0009	-.00092	.0035	.00015	-.00003

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	183.67
Stddev	.50
%RSD	.27460

#1	183.31
#2	184.03

Service Request # K1004744 _____
 Calibration _____ 052510C _____
 QC in calibration__ 052510C _____
 QC Service Request K1004744 _____
 STARLIMS RUN # 202144 _____

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:

Primary Review by _____
 Secondary Review by JTB

Date 5/25/10
 Date 5/26/10

R:\icp\misc\data review forms\PQ 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. 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	CLAA LOD (0.5X)	Unknown	0 kg	0 ml	1.00	1	2	4	145
9	CLAA LOD (1.0X)	Unknown	0 kg	0 ml	1.00	1	2	5	145
10	CLAA LOQ (1.0X)	Unknown	0 kg	0 ml	1.00	1	2	6	145
11	CLAA LOQ (2.0X)	Unknown	0 kg	0 ml	1.00	1	2	7	145
12	3050B LOD (0.5X) 1/5	Unknown	0 kg	0 ml	0.50	1	2	8	145
13	3050B LOD (1.0X) 1/5	Unknown	0 kg	0 ml	0.50	1	2	9	145
14	3050B LOQ (1.0X) 1/5	Unknown	0 kg	0 ml	0.50	1	2	10	145
15	3050B LOQ (2.0X) 1/5	Unknown	0 kg	0 ml	0.50	1	2	11	145
16	ICSA	Unknown	0 kg	0 ml	1.00	0	1	5	145
17	ICSAB	Unknown	0 kg	0 ml	1.00	0	1	6	145
18	K1004316-MB	Unknown	0 kg	0 ml	1.00	1	1	1	145
19	LCSW K1004316	Unknown	0 kg	0 ml	1.00	1	1	2	145
20	CCV2	Unknown	0 kg	0 ml	1.00	0	1	2	145
21	CCB2	Unknown	0 kg	0 ml	1.00	0	1	1	145
22	K1004316-008 (Pump)	Unknown	0 kg	0 ml	1.00	1	1	3	145
23	K1004316-008D (Pump)	Unknown	0 kg	0 ml	1.00	1	1	4	145
24	K1004316-008S (Pump)	Unknown	0 kg	0 ml	1.00	1	1	7	145
25	K1004316-006 (Pump)	Unknown	0 kg	0 ml	1.00	1	1	8	145
26	K1004316-006 (Lab)	Unknown	0 kg	0 ml	1.00	1	1	9	145
27	K1004316-008 (Lab)	Unknown	0 kg	0 ml	1.00	1	1	10	145
28	K1004316-Filter Blank	Unknown	0 kg	0 ml	1.00	1	1	11	145
29	K1004316-001	Unknown	0 kg	0 ml	1.00	1	1	12	145
30	K1004316-001 1/5L	Unknown	0 kg	0 ml	1.00	1	1	5	145
31	K1004316-001 +20A	Unknown	0 kg	0 ml	1.00	1	1	6	145
32	CCV3	Unknown	0 kg	0 ml	1.00	0	1	2	145
33	CCB3	Unknown	0 kg	0 ml	1.00	0	1	1	145
34	K1004316-002	Unknown	0 kg	0 ml	1.00	1	2	1	145
35	K1004316-003	Unknown	0 kg	0 ml	1.00	1	2	2	145
36	K1004316-004	Unknown	0 kg	0 ml	1.00	1	2	3	145
37	K1004744-MB	Unknown	0 kg	0 ml	1.00	1	2	12	145
38	LCSW K1004744	Unknown	0 kg	0 ml	1.00	1	3	1	145
39	K1004744-001	Unknown	0 kg	0 ml	1.00	1	3	2	145
40	K1004744-001D	Unknown	0 kg	0 ml	1.00	1	3	3	145
41	K1004744-001S	Unknown	0 kg	0 ml	1.00	1	3	4	145
42	CCV4	Unknown	0 kg	0 ml	1.00	0	1	2	145
43	CCB4	Unknown	0 kg	0 ml	1.00	0	1	1	145
44	K1004744-002	Unknown	0 kg	0 ml	1.00	1	3	5	145
45	K1004744-003	Unknown	0 kg	0 ml	1.00	1	3	6	145
46	K1004744-004	Unknown	0 kg	0 ml	1.00	1	3	7	145
47	K1004758-001	Unknown	0 kg	0 ml	1.00	1	3	8	145
48	K1004909-001 1/2	Unknown	0 kg	0 ml	1.00	1	3	9	145

49	K1004909-002	Unknown	0 kg	0 ml	1.00	1	3	10	145
50	K1004911-001 1/2	Unknown	0 kg	0 ml	1.00	1	3	11	145
51	K1004711-001	Unknown	0 kg	0 ml	1.00	1	3	12	145
52	K1004728-005	Unknown	0 kg	0 ml	1.00	1	4	1	145
53	CCV5	Unknown	0 kg	0 ml	1.00	0	1	2	145
54	CCB5	Unknown	0 kg	0 ml	1.00	0	1	1	145

Instrument Setup - Configurations

Configuration Name - acqmet11
Description - PQExcell CCT Sim Default
Date - 8:34:25 5/25/10
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	-350.00
Lens1	5.00
Lens2	-75.00
Lens3	-25.00
Pole Bias	5.00
Sampling Depth	400.00
Horizontal	-5.00
Vertical	65.00
Cool	13.00
Auxiliary	0.80
Nebuliser	0.82
Forward power	1,350.00
HT1 Voltage	1,900.00
HT2 Voltage	2,600.00
D1	-40.00
Focus	10.00

Configuration Name - acqmet11
Description - PQExcell CCT Sim Default
Date - 8:34:25 5/25/10
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	-350.00
Lens1	5.00
Lens2	-75.00
Lens3	-25.00
Pole Bias	5.00
Sampling Depth	400.00
Horizontal	-5.00
Vertical	65.00
Cool	13.00
Auxiliary	0.80

					Masses in
Mass	Mass DAC	Peak Width (AMU)	Error (AMU)	Include	Tune Solution
7.016	1550	0.715	-0.008	TRUE	
9.012	2057	0.715	-0.012	TRUE	Li-7
23.985	5878	0.715	0.029	TRUE	Be-9
24.986	6125	0.715	-0.002	TRUE	Mg-24
25.983	6385	0.715	0.023	TRUE	Co-59
53.949	13496	0.766	-0.01	TRUE	In-115
55.935	14003	0.766	-0.005	TRUE	Ce-140
58.933	14764	0.715	-0.014	TRUE	Pb-208
112.904	28507	0.714	-0.03	TRUE	Bi-209
114.904	29020	0.663	-0.016	TRUE	U-238
139.905	35403	0.663	0.03	TRUE	
141.908	35910	0.663	0.016	TRUE	
155.923	39479	0.612	0.003	TRUE	
205.974	52245	0.612	0.014	TRUE	
206.976	52498	0.561	0.005	TRUE	
207.977	52752	0.612	0	TRUE	
208.98	53005	0.561	-0.012	TRUE	
238.051	60422	0.509	-0.011	TRUE	

Excluded In Calib	Excluded In Results	Multi Element	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	209Bi	7Li	9Be	59Co	115In	208Pb
1	Stability 05-25-2010	5/25/2010 8:45:28 A	(P)0.000	(P)16618.661	(P)3261.539	(P)11747.330	(P)29653.921	(P)13421.969
2	Stability 05-25-2010	5/25/2010 8:46:43 A	(P)0.000	(P)16303.465	(P)3265.707	(P)11680.942	(P)29334.598	(P)12945.363
3	Stability 05-25-2010	5/25/2010 8:47:58 A	(P)0.000	(P)15918.698	(P)3094.002	(P)11603.711	(P)29166.088	(P)12666.280
4	Stability 05-25-2010	5/25/2010 8:49:13 A	(P)0.000	(P)15768.531	(P)3129.676	(P)11389.373	(P)28791.163	(P)12496.631
5	Stability 05-25-2010	5/25/2010 8:50:29 A	(P)0.333	(P)15783.047	(P)3093.168	(P)11159.190	(P)28516.102	(P)12408.387
	Mean of Stability 05-25	5/25/2010 8:45:28 A	(P)0.067	(P)16078.480	(P)3168.818	(P)11516.109	(P)29092.374	(P)12787.726
	SD of Stability 05-25-20		(P)0.149	(P)371.245	(P)87.802	(P)240.707	(P)447.845	(P)409.420
	%RSD of Stability 05		(P)223.607	(P)2.309	(P)2.771	(P)2.090	(P)1.539	(P)3.202

Run	Label	TimeStamp	209Bi	208Pb	238U
1	Stability 05-25-2010	5/25/2010 8:45:28 A	(P)21609.833	(P)0.000	(P)23145.403
2	Stability 05-25-2010	5/25/2010 8:46:43 A	(P)20887.593	(P)0.000	(P)22519.238
3	Stability 05-25-2010	5/25/2010 8:47:58 A	(P)20580.982	(P)0.000	(P)22062.859
4	Stability 05-25-2010	5/25/2010 8:49:13 A	(P)20209.953	(P)0.000	(P)21874.071
5	Stability 05-25-2010	5/25/2010 8:50:29 A	(P)19911.034	(P)0.000	(P)21879.578
	Mean of Stability 05-25	5/25/2010 8:45:28 A	(P)20639.879	(P)0.000	(P)22296.230
	SD of Stability 05-25-20		(P)656.066	(P)0.000	(P)542.473
	%RSD of Stability 05		(P)3.179	(P)0.000	(P)2.433

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144



Sample Name:		Cal. Blk			Mean	SD	%RSD
TimeStamp		5/25/10 14:35					
Aluminum	27	-0.0054	-0.0021	0.0075	0	0.0067	0
Antimony	121	0.0025	-0.0031	0.0007	0	0.0029	0
Antimony	123	-0.0013	-0.0016	0.0029	0	0.0025	0
Arsenic	75	-0.0824	0.0547	0.0277	0	0.0726	0
Barium	137	-0.0014	-0.0005	0.0019	0	0.0017	0
Barium	138	0.0003	-0.0005	0.0002	0	0.0005	0
Beryllium	9	0.0003	0.0004	-0.0007	0	0.0006	0
Cadmium	111	-0.0022	-0.0013	0.0034	0	0.003	0
Cadmium	114	-0.0005	-0.0004	0.0008	0	0.0007	0
Chromium	52	0.0053	-0.0169	0.0116	0	0.0149	0
Chromium	53	-0.014	0.0273	-0.0133	0	0.0237	0
Cobalt	59	-0.0003	-0.001	0.0013	0	0.0012	0
Copper	63	-0.0008	0.0004	0.0003	0	0.0007	0
Copper	65	-0.005	0.0027	0.0023	0	0.0043	0
Lead	206	-0.0078	0.0086	-0.0008	0	0.0082	0
Lead	207	-0.0044	0.0054	-0.0009	0	0.005	0
Lead	208	-0.0071	0.0076	-0.0005	0	0.0074	0
Manganese	55	0.0009	-0.0003	-0.0005	0	0.0008	0
Molybdenum	95	0.0017	0.0012	-0.0029	0	0.0025	0
Molybdenum	97	-0.0026	0.0007	0.0019	0	0.0023	0
Molybdenum	98	0.0005	-0.0007	0.0002	0	0.0006	0
Nickel	60	0.0258	0.0022	-0.028	0	0.027	0
Nickel	62	-0.0601	-0.1261	0.1862	0	0.1646	0
Selenium	77	0.0963	-0.0617	-0.0346	0	0.0845	0
Selenium	78	0.1115	-0.1163	0.0048	0	0.114	0
Selenium	82	-0.1642	0.1091	0.0552	0	0.1448	0
Silver	107	0.0006	-0.0008	0.0002	0	0.0007	0
Silver	109	0.0007	0.0009	-0.0015	0	0.0013	0
Thallium	203	0.0003	-0.0004	0.0001	0	0.0004	0
Thallium	205	0.0004	-0.0002	-0.0003	0	0.0004	0
Tin	118	0.0002	-0.0012	0.001	0	0.0011	0
Tin	120	0.0013	-0.0001	-0.0012	0	0.0012	0
Vanadium	51	0.0085	-0.0175	0.0089	0	0.0151	0
Zinc	66	0.0095	-0.0016	-0.008	0	0.0089	0
Zinc	68	0.0071	0.0327	-0.0398	0	0.0368	0

Internal Standard Factors:

Lithium	6	0.967	1.005	1.029	0.967 n/a	n/a
Scandium	45	0.967	0.998	1.038	0.967 n/a	n/a
Gallium	71	0.944	1.011	1.051	0.944 n/a	n/a
Rhodium	103	0.974	1.007	1.02	0.974 n/a	n/a
Indium	115	0.984	1.006	1.011	0.984 n/a	n/a
Lutetium	175	0.992	0.998	1.01	0.992 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	Cal. Stn				Mean	SD	%RSD
TimeStamp	5/25/10 14:40						
Aluminum	27	24.83	24.48	25.69	25	0.6217	2.487
Antimony	121	24.69	24.91	25.39	25	0.3583	1.433
Antimony	123	24.8	24.75	25.46	25	0.3957	1.583
Arsenic	75	25.02	25.03	24.96	25	0.0365	0.1458
Barium	137	24.49	24.8	25.7	25	0.6295	2.518
Barium	138	24.83	24.62	25.54	25	0.4823	1.929
Beryllium	9	25.73	24.9	24.37	25	0.6879	2.752
Cadmium	111	24.64	25.06	25.3	25	0.333	1.332
Cadmium	114	24.63	24.97	25.41	25	0.3891	1.556
Chromium	52	25.02	24.52	25.47	25	0.4735	1.894
Chromium	53	24.66	24.73	25.61	25	0.5256	2.103
Cobalt	59	24.4	25.4	25.2	25	0.5266	2.107
Copper	63	24.79	24.63	25.58	25	0.5093	2.037
Copper	65	24.74	25.55	24.72	25	0.4727	1.891
Lead	206	24.74	24.83	25.43	25	0.3717	1.487
Lead	207	25.09	24.45	25.46	25	0.5081	2.032
Lead	208	24.87	24.69	25.44	25	0.3896	1.558
Manganese	55	24.9	24.73	25.36	25	0.3262	1.305
Molybdenum	95	24.54	25.03	25.43	25	0.4482	1.793
Molybdenum	97	24.62	24.96	25.42	25	0.4047	1.619
Molybdenum	98	24.47	25.29	25.24	25	0.4563	1.825
Nickel	60	25.2	24.82	24.99	25	0.1898	0.7592
Nickel	62	24.62	25.44	24.94	25	0.4148	1.659
Selenium	77	24.96	25.63	24.41	25	0.6109	2.444
Selenium	78	24.55	25.65	24.8	25	0.5787	2.315
Selenium	82	24.77	25.22	25.01	25	0.2269	0.9076
Silver	107	24.57	25.1	25.34	25	0.3931	1.573
Silver	109	24.76	24.91	25.33	25	0.2989	1.196
Thallium	203	24.99	24.52	25.49	25	0.4829	1.931
Thallium	205	25.05	24.48	25.47	25	0.4966	1.987
Tin	118	24.72	24.88	25.4	25	0.3556	1.422
Tin	120	24.79	24.82	25.39	25	0.3358	1.343
Vanadium	51	24.97	24.8	25.23	25	0.2137	0.8547
Zinc	66	24.96	25.02	25.03	25	0.0363	0.1453
Zinc	68	24.96	25.2	24.84	25	0.1836	0.7343

Internal Standard Factors:

Lithium	6	0.998	0.994	1.015	0.998	n/a	n/a
Scandium	45	0.972	0.995	1.026	0.972	n/a	n/a
Gallium	71	0.957	0.985	0.997	0.957	n/a	n/a
Rhodium	103	0.953	0.995	1	0.953	n/a	n/a
Indium	115	0.948	0.959	0.971	0.948	n/a	n/a
Lutetium	175	0.948	0.941	0.98	0.948	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		ICV1			Mean	SD	%RSD
TimeStamp		5/25/10 14:46					
Aluminum	27	97.98	98.04	99.91	98.64	1.096	1.111
Antimony	121	23.43	23.28	24.41	23.71	0.614	2.59
Antimony	123	23.38	23.74	24.48	23.87	0.5633	2.36
Arsenic	75	23.76	23.61	24.4	23.92	0.4196	1.754
Barium	137	97.69	99.34	102.4	99.8	2.375	2.379
Barium	138	95.87	99.42	99.66	98.32	2.121	2.158
Beryllium	9	2.777	2.57	2.659	2.668	0.1039	3.894
Cadmium	111	12.17	12.28	12.79	12.42	0.3315	2.67
Cadmium	114	12.57	12.68	13.05	12.77	0.2512	1.968
Chromium	52	9.639	9.555	9.759	9.651	0.1025	1.062
Chromium	53	10.05	10.28	10.37	10.23	0.1636	1.599
Cobalt	59	24.58	24.38	24.8	24.59	0.2068	0.8413
Copper	63	12.58	12.32	12.71	12.53	0.1957	1.562
Copper	65	12.39	12.03	12.25	12.23	0.1833	1.499
Lead	206	22.62	23.04	23.33	23	0.3559	1.548
Lead	207	25.3	25.79	25.61	25.57	0.2453	0.9593
Lead	208	24.12	24.31	24.59	24.34	0.2348	0.9647
Manganese	55	24.61	24.07	25.03	24.57	0.4781	1.946
Molybdenum	95	24.22	24.38	25.26	24.62	0.5605	2.276
Molybdenum	97	24.46	24.1	25.05	24.54	0.4821	1.965
Molybdenum	98	24.24	24.47	25.11	24.6	0.4521	1.838
Nickel	60	24.6	23.72	24.62	24.31	0.5165	2.125
Nickel	62	24.12	25.5	25.22	24.95	0.7277	2.917
Selenium	77	26.4	24.2	25.9	25.5	1.152	4.519
Selenium	78	25.36	24.36	25.21	24.97	0.5409	2.166
Selenium	82	24.18	24.32	24.13	24.21	0.0985	0.4068
Silver	107	12.32	12.32	12.8	12.48	0.2782	2.229
Silver	109	12.28	12.41	12.81	12.5	0.2781	2.224
Thallium	203	24.11	25.19	24.96	24.75	0.5681	2.295
Thallium	205	24.3	24.43	24.66	24.46	0.183	0.7479
Tin	118	23.67	23.74	24.68	24.03	0.5671	2.36
Tin	120	23.72	24.16	24.66	24.18	0.4713	1.949
Vanadium	51	24.71	24.56	24.84	24.7	0.1409	0.5703
Zinc	66	25.67	25.42	25.73	25.61	0.1613	0.6301
Zinc	68	26.6	26.55	27.28	26.81	0.4082	1.523

Internal Standard Factors:

Lithium	6	1.043	1.02	1.054	1.043	n/a	n/a
Scandium	45	0.982	1.019	1.034	0.982	n/a	n/a
Gallium	71	0.991	0.985	1.013	0.991	n/a	n/a
Rhodium	103	0.976	1	1.016	0.976	n/a	n/a
Indium	115	0.958	0.966	0.978	0.958	n/a	n/a
Lutetium	175	0.946	0.965	0.969	0.946	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	CCV1				Mean	SD	%RSD
TimeStamp	5/25/10 14:51						
Aluminum	27	24.9	25.2	25.38	25.16	0.242	0.9621
Antimony	121	24.92	24.55	24.72	24.73	0.1879	0.76
Antimony	123	25.23	24.43	25.5	25.06	0.5569	2.222
Arsenic	75	24.61	24.6	25.07	24.76	0.2696	1.089
Barium	137	25.18	24.09	25.29	24.85	0.6652	2.677
Barium	138	24.67	24.64	25.04	24.78	0.2232	0.9006
Beryllium	9	26.76	25.37	24.74	25.62	1.038	4.052
Cadmium	111	25.49	24.79	24.71	25	0.4265	1.706
Cadmium	114	25.11	24.33	25.26	24.9	0.4968	1.995
Chromium	52	24.49	24.6	24.78	24.62	0.1442	0.5856
Chromium	53	24.66	23.77	25.64	24.69	0.9376	3.798
Cobalt	59	25.26	25.09	25.48	25.28	0.1945	0.7694
Copper	63	25.03	25.26	25.59	25.29	0.2824	1.116
Copper	65	25.14	24.8	24.89	24.94	0.1766	0.7082
Lead	206	24.85	24.45	25.26	24.85	0.4069	1.637
Lead	207	24.26	24.79	24.92	24.66	0.3483	1.413
Lead	208	24.66	24.47	24.9	24.68	0.2133	0.8643
Manganese	55	24.96	24.74	24.8	24.83	0.1168	0.4702
Molybdenum	95	24.87	24.8	25.25	24.97	0.2475	0.9913
Molybdenum	97	25.26	24.94	24.62	24.94	0.3226	1.293
Molybdenum	98	25.39	24.74	25.16	25.1	0.33	1.315
Nickel	60	24.59	24.51	25.34	24.81	0.4556	1.836
Nickel	62	25.5	24.39	25.79	25.23	0.7378	2.925
Selenium	77	25.28	24.44	25.36	25.03	0.5125	2.048
Selenium	78	25.05	23.69	24.98	24.57	0.7673	3.123
Selenium	82	23.96	25.26	24.7	24.64	0.6513	2.643
Silver	107	25.15	24.25	25.06	24.82	0.4982	2.007
Silver	109	24.89	24.31	25.08	24.76	0.4004	1.617
Thallium	203	24.52	24.63	25.4	24.85	0.4789	1.927
Thallium	205	24.82	25.06	24.6	24.82	0.2305	0.9287
Tin	118	25.12	24.36	24.89	24.79	0.3919	1.581
Tin	120	25.1	24.63	25.48	25.07	0.4259	1.699
Vanadium	51	24.96	25.02	25.09	25.02	0.0693	0.277
Zinc	66	24.53	24.78	25.68	25	0.6035	2.414
Zinc	68	25.05	24.52	25.59	25.05	0.5354	2.137

Internal Standard Factors:

Lithium	6	1.058	1.019	1.03	1.058	n/a	n/a
Scandium	45	0.994	1.007	1.033	0.994	n/a	n/a
Gallium	71	0.991	1.009	1.036	0.991	n/a	n/a
Rhodium	103	1.007	1.008	1.021	1.007	n/a	n/a
Indium	115	0.997	0.975	0.999	0.997	n/a	n/a
Lutetium	175	0.99	1.006	1.029	0.99	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	ICB1	Mean	SD	%RSD			
TimeStamp	5/25/10 15:02						
Aluminum	27	-0.0083	0.0163	-0.002	0.002	0.0128	640.2
Antimony	121	0.0075	0.009	0.011	0.0092	0.0018	19.18
Antimony	123	0.0046	0.0128	0.0108	0.0094	0.0043	45.26
Arsenic	75	0.0432	-0.0887	0.0029	-0.0142	0.0676	475.1
Barium	137	-0.0034	0.003	0.0044	0.0013	0.0042	316.4
Barium	138	-0.0005	0.001	0.0062	0.0022	0.0035	158
Beryllium	9	0.0006	-0.0001	0.0006	0.0004	0.0004	111.7
Cadmium	111	0.0025	0.0026	0.0045	0.0032	0.0011	35.82
Cadmium	114	-0.0011	0.0014	0.0072	0.0025	0.0043	172
Chromium	52	-0.0561	-0.0287	-0.0749	-0.0532	0.0233	43.69
Chromium	53	0.0114	-0.0267	0.0337	0.0061	0.0305	497.6
Cobalt	59	0.0007	0.0029	0.0094	0.0043	0.0046	105.6
Copper	63	-0.008	-0.0154	0.0012	-0.0074	0.0083	111.7
Copper	65	-0.005	-0.0093	0.0009	-0.0045	0.0051	114.6
Lead	206	-0.0067	-0.0058	-0.0005	-0.0043	0.0033	77.38
Lead	207	-0.001	-0.0065	-0.0038	-0.0037	0.0027	73.46
Lead	208	-0.0067	-0.0057	-0.0049	-0.0058	0.0009	15.65
Manganese	55	0.0011	0.0089	0.0054	0.0052	0.0039	75.34
Molybdenum	95	0.0011	0.0021	0.0043	0.0025	0.0016	65.27
Molybdenum	97	0.0081	-0.0002	0.0054	0.0044	0.0043	96.13
Molybdenum	98	0.0034	0.0028	0.0037	0.0033	0.0005	14.19
Nickel	60	-0.005	-0.0021	-0.0093	-0.0055	0.0036	65.95
Nickel	62	-0.0744	0.1832	0.0202	0.043	0.1303	302.9
Selenium	77	-0.106	-0.0706	-0.127	-0.1012	0.0285	28.19
Selenium	78	0.0858	0.012	0.1921	0.0967	0.0905	93.68
Selenium	82	0.0283	-0.3372	-0.1088	-0.1392	0.1847	132.6
Silver	107	0.0123	0.0148	0.0179	0.015	0.0028	18.66
Silver	109	0.0161	0.0153	0.0157	0.0157	0.0004	2.804
Thallium	203	0.0019	0.0022	0.0043	0.0028	0.0013	46.14
Thallium	205	0.0008	0.0022	0.0055	0.0028	0.0024	85.57
Tin	118	0.0096	0.0101	0.0071	0.009	0.0016	17.78
Tin	120	0.0098	0.0091	0.0084	0.0091	0.0007	7.368
Vanadium	51	-0.0165	0.0025	-0.0326	-0.0155	0.0176	113.4
Zinc	66	0.0011	-0.001	-0.0177	-0.0059	0.0103	174.2
Zinc	68	-0.0226	-0.0065	-0.0028	-0.0106	0.0105	98.93

Internal Standard Factors:

Lithium	6	1.055	1.03	1.041	1.055 n/a	n/a
Scandium	45	0.97	1.025	1.046	0.97 n/a	n/a
Gallium	71	0.956	1.032	1.072	0.956 n/a	n/a
Rhodium	103	0.999	1.038	1.044	0.999 n/a	n/a
Indium	115	1.007	1.042	1.033	1.007 n/a	n/a
Lutetium	175	1.009	1.031	1.024	1.009 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	CCB1				Mean	SD	%RSD
TimeStamp	5/25/10 15:06						
Aluminum	27	0.018	-0.0005	0.0079	0.0085	0.0093	109.8
Antimony	121	0.0051	0.0033	0.0063	0.0049	0.0016	31.67
Antimony	123	0.0042	0.0026	0.003	0.0033	0.0008	25.88
Arsenic	75	0.0139	-0.1104	-0.0615	-0.0527	0.0626	118.9
Barium	137	0.0012	-0.0002	0.0021	0.001	0.0011	113.8
Barium	138	0.0012	0.0018	0.0032	0.0021	0.001	49.7
Beryllium	9	0.0007	0	0.0026	0.0011	0.0014	125.8
Cadmium	111	0.0006	0.0036	0.0064	0.0035	0.0029	81.55
Cadmium	114	0.0012	-0.001	0.0028	0.001	0.0019	193.5
Chromium	52	-0.03	-0.0427	-0.026	-0.0329	0.0087	26.51
Chromium	53	-0.035	-0.005	-0.0095	-0.0165	0.0162	98.16
Cobalt	59	0.0039	0.0045	0.0053	0.0046	0.0007	15.86
Copper	63	-0.0055	-0.0107	0.0038	-0.0041	0.0073	178.4
Copper	65	-0.004	-0.0107	0.0069	-0.0026	0.0089	344.1
Lead	206	-0.0071	-0.0047	0.0012	-0.0035	0.0042	119.7
Lead	207	-0.0019	-0.0098	-0.0041	-0.0052	0.0041	77.92
Lead	208	-0.0048	-0.0052	-0.0032	-0.0044	0.001	23.41
Manganese	55	0.0007	-0.0005	-0.0009	-0.0002	0.0008	325.3
Molybdenum	95	0.0034	-0.0015	0.0029	0.0016	0.0027	166
Molybdenum	97	0.003	-0.0013	0.002	0.0013	0.0023	183
Molybdenum	98	0.0027	0.0028	0.0046	0.0034	0.001	30.28
Nickel	60	-0.0093	-0.0579	0.0105	-0.0189	0.0352	186.1
Nickel	62	0.0933	0.0097	-0.0276	0.0251	0.0619	246.6
Selenium	77	-0.0698	0.0497	-0.059	-0.0264	0.066	250.7
Selenium	78	0.152	0.0618	0.1052	0.1063	0.0451	42.45
Selenium	82	-0.0258	-0.2836	-0.2519	-0.1871	0.1406	75.15
Silver	107	0.0088	0.0069	0.0115	0.0091	0.0023	25.31
Silver	109	0.0072	0.0045	0.0075	0.0064	0.0017	26.33
Thallium	203	0.0037	0.0014	0.002	0.0024	0.0012	51.09
Thallium	205	0.0036	0.0023	0.0019	0.0026	0.0009	33.41
Tin	118	0.0064	0.0092	0.0056	0.007	0.0019	26.65
Tin	120	0.0064	0.0056	0.0063	0.0061	0.0004	6.91
Vanadium	51	0.0013	-0.0115	-0.0014	-0.0039	0.0067	174
Zinc	66	-0.0174	-0.011	-0.0451	-0.0245	0.0181	73.98
Zinc	68	-0.0341	0.0021	0.0133	-0.0062	0.0248	397.4

Internal Standard Factors:

Lithium	6	1.077	1.052	1.059	1.077 n/a	n/a
Scandium	45	1.016	1.036	1.054	1.016 n/a	n/a
Gallium	71	1.038	1.055	1.081	1.038 n/a	n/a
Rhodium	103	1.026	1.045	1.039	1.026 n/a	n/a
Indium	115	1.011	1.032	1.025	1.011 n/a	n/a
Lutetium	175	1.022	1.024	1.031	1.022 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		WATER CRA			Mean	SD	%RSD
TimeStamp		5/25/10 15:11					
Aluminum	27	2.103	2.119	2.11	2.111	0.0079	0.3756
Antimony	121	0.0454	0.0504	0.0487	0.0482	0.0025	5.281
Antimony	123	0.0569	0.056	0.0483	0.0538	0.0047	8.789
Arsenic	75	0.4976	0.4891	0.6996	0.5621	0.1192	21.2
Barium	137	0.0546	0.0672	0.0537	0.0585	0.0076	12.94
Barium	138	0.0515	0.058	0.0594	0.0563	0.0042	7.493
Beryllium	9	0.0219	0.022	0.0247	0.0229	0.0016	7.047
Cadmium	111	0.0207	0.0229	0.019	0.0209	0.0019	9.337
Cadmium	114	0.0249	0.0256	0.0224	0.0243	0.0017	6.888
Chromium	52	0.1671	0.1816	0.1688	0.1725	0.0079	4.58
Chromium	53	0.2174	0.1799	0.174	0.1904	0.0236	12.37
Cobalt	59	0.0225	0.023	0.0249	0.0235	0.0013	5.367
Copper	63	0.1236	0.1108	0.1408	0.1251	0.0151	12.05
Copper	65	0.1193	0.1125	0.1245	0.1188	0.006	5.093
Lead	206	0.0214	0.0191	0.0164	0.019	0.0025	13.2
Lead	207	0.0169	0.0249	0.0171	0.0196	0.0045	23.2
Lead	208	0.0187	0.0167	0.0143	0.0166	0.0022	13.42
Manganese	55	0.0696	0.0648	0.0575	0.064	0.0061	9.487
Molybdenum	95	0.0603	0.0514	0.0566	0.0561	0.0045	8.009
Molybdenum	97	0.052	0.0633	0.06	0.0584	0.0058	9.898
Molybdenum	98	0.0393	0.054	0.0514	0.0483	0.0079	16.33
Nickel	60	0.2483	0.2214	0.2176	0.2291	0.0167	7.307
Nickel	62	0.1882	0.1487	0.1379	0.1583	0.0265	16.73
Selenium	77	1.069	0.8663	0.7897	0.9083	0.1443	15.88
Selenium	78	1.203	1.106	1.086	1.132	0.0624	5.509
Selenium	82	0.9652	0.9363	1.343	1.082	0.227	20.99
Silver	107	0.0246	0.0236	0.0211	0.0231	0.0018	7.814
Silver	109	0.02	0.019	0.0296	0.0229	0.0059	25.63
Thallium	203	0.0222	0.0202	0.0209	0.0211	0.001	4.651
Thallium	205	0.0211	0.0218	0.0224	0.0218	0.0007	3.032
Tin	118	0.0575	0.0556	0.0738	0.0623	0.01	16.05
Tin	120	0.0596	0.0562	0.057	0.0576	0.0018	3.107
Vanadium	51	0.1811	0.2084	0.2082	0.1992	0.0157	7.878
Zinc	66	0.5536	0.5082	0.6043	0.5554	0.0481	8.663
Zinc	68	0.5041	0.5355	0.5812	0.5403	0.0388	7.177

Internal Standard Factors:

Lithium	6	1.072	1.043	1.05	1.072 n/a	n/a
Scandium	45	1.032	1.077	1.069	1.032 n/a	n/a
Gallium	71	1.033	1.052	1.077	1.033 n/a	n/a
Rhodium	103	1.035	1.055	1.05	1.035 n/a	n/a
Indium	115	1.032	1.041	1.042	1.032 n/a	n/a
Lutetium	175	1.047	1.044	1.061	1.047 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name: TimeStamp	CLAA LOD (0.5X) 5/25/10 15:16	Mean	SD	%RSD
Aluminum 27	1.185	1.176	1.152	1.171 0.017 1.452
Antimony 121	0.0298	0.0321	0.0292	0.0303 0.0015 5.064
Antimony 123	0.0325	0.023	0.0248	0.0267 0.005 18.84
Arsenic 75	0.1695	0.2657	0.4397	0.2916 0.137 46.97
Barium 137	0.0386	0.0279	0.0286	0.0317 0.006 18.86
Barium 138	0.0328	0.0336	0.0335	0.0333 0.0004 1.326
Beryllium 9	0.0095	0.0054	0.0096	0.0082 0.0024 29.39
Cadmium 111	0.0055	0.0094	0.0181	0.011 0.0065 58.81
Cadmium 114	0.0084	0.0117	0.0105	0.0102 0.0016 16.08
Chromium 52	0.1202	0.1271	0.1029	0.1167 0.0125 10.72
Chromium 53	0.0926	0.1112	0.0827	0.0955 0.0145 15.17
Cobalt 59	0.0082	0.0096	0.0124	0.0101 0.0021 21.33
Copper 63	0.0369	0.0359	0.0487	0.0405 0.0071 17.54
Copper 65	0.0386	0.0295	0.0633	0.0438 0.0175 40.04
Lead 206	0.0102	0.0038	-0.001	0.0043 0.0056 129.9
Lead 207	0.0032	0.0053	0.0006	0.0031 0.0023 76.89
Lead 208	0.0066	0.0037	0.0014	0.0039 0.0026 67.23
Manganese 55	0.0374	0.0334	0.0435	0.0381 0.0051 13.38
Molybdenum 95	0.0262	0.0272	0.0285	0.0273 0.0011 4.18
Molybdenum 97	0.0198	0.029	0.033	0.0273 0.0068 24.77
Molybdenum 98	0.0217	0.0271	0.0271	0.0253 0.0031 12.3
Nickel 60	0.0653	0.0373	0.1116	0.0714 0.0375 52.56
Nickel 62	-0.0037	0.2749	0.1076	0.1262 0.1402 111.1
Selenium 77	0.3876	0.4331	0.311	0.3772 0.0617 16.35
Selenium 78	0.5493	0.1833	0.793	0.5085 0.3069 60.35
Selenium 82	0.0883	0.567	0.7408	0.4653 0.3379 72.61
Silver 107	0.0095	0.0121	0.0101	0.0106 0.0013 12.6
Silver 109	0.0125	0.0101	0.0101	0.0109 0.0014 12.76
Thallium 203	0.0116	0.009	0.0102	0.0103 0.0013 12.84
Thallium 205	0.0119	0.0092	0.0101	0.0104 0.0013 12.84
Tin 118	0.036	0.0317	0.0358	0.0345 0.0024 6.984
Tin 120	0.0292	0.0294	0.0367	0.0318 0.0043 13.39
Vanadium 51	0.1081	0.1088	0.1172	0.1114 0.005 4.528
Zinc 66	0.2752	0.2546	0.2455	0.2584 0.0152 5.896
Zinc 68	0.2889	0.2145	0.2418	0.2484 0.0376 15.15

Internal Standard Factors:

Lithium 6	1.085	1.078	1.097	1.085 n/a n/a
Scandium 45	1.055	1.077	1.105	1.055 n/a n/a
Gallium 71	1.02	1.04	1.083	1.02 n/a n/a
Rhodium 103	1.041	1.047	1.057	1.041 n/a n/a
Indium 115	1.037	1.043	1.041	1.037 n/a n/a
Lutetium 175	1.05	1.053	1.044	1.05 n/a n/a

Instrument ID: K-ICP-MS-02

Experiment: 05-25-10C

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #202144

Sample Name:		CLAA LOD (1.0X)			Mean	SD	%RSD
TimeStamp		5/25/10 15:21					
Aluminum	27	2.22	2.209	2.204	2.211	0.0081	0.3661
Antimony	121	0.0492	0.0545	0.0534	0.0524	0.0028	5.31
Antimony	123	0.0489	0.05	0.0434	0.0474	0.0036	7.512
Arsenic	75	0.5902	0.4086	0.595	0.5313	0.1063	20
Barium	137	0.0605	0.0589	0.0734	0.0643	0.008	12.39
Barium	138	0.061	0.0706	0.0641	0.0652	0.0049	7.511
Beryllium	9	0.0268	0.0242	0.0165	0.0225	0.0053	23.76
Cadmium	111	0.0163	0.0237	0.0198	0.0199	0.0037	18.71
Cadmium	114	0.0218	0.0305	0.0142	0.0221	0.0081	36.81
Chromium	52	0.2186	0.2177	0.2345	0.2236	0.0094	4.226
Chromium	53	0.1696	0.1954	0.2218	0.1956	0.0261	13.33
Cobalt	59	0.0234	0.0251	0.024	0.0242	0.0009	3.523
Copper	63	0.0847	0.1071	0.1099	0.1006	0.0138	13.73
Copper	65	0.08	0.0901	0.0669	0.079	0.0117	14.74
Lead	206	0.0182	0.0137	0.0141	0.0153	0.0025	16.22
Lead	207	0.0143	0.0049	0.019	0.0127	0.0072	56.58
Lead	208	0.0139	0.0087	0.0136	0.0121	0.0029	24.03
Manganese	55	0.0563	0.0615	0.0579	0.0586	0.0027	4.541
Molybdenum	95	0.0557	0.0565	0.0454	0.0525	0.0062	11.81
Molybdenum	97	0.0458	0.0594	0.0433	0.0495	0.0087	17.47
Molybdenum	98	0.0534	0.0541	0.062	0.0565	0.0048	8.474
Nickel	60	0.1694	0.1412	0.182	0.1642	0.0209	12.73
Nickel	62	0.2764	0.3566	0.4386	0.3572	0.0811	22.7
Selenium	77	0.7843	0.9109	0.71	0.8017	0.1016	12.67
Selenium	78	1.036	1.216	1.032	1.095	0.1049	9.582
Selenium	82	1.152	0.6264	1.026	0.9348	0.2744	29.35
Silver	107	0.0227	0.0189	0.0174	0.0197	0.0027	13.78
Silver	109	0.0199	0.0154	0.0168	0.0174	0.0023	13.4
Thallium	203	0.021	0.023	0.0254	0.0231	0.0022	9.452
Thallium	205	0.022	0.0205	0.0213	0.0213	0.0007	3.445
Tin	118	0.0807	0.0705	0.0833	0.0782	0.0067	8.609
Tin	120	0.0737	0.0771	0.0745	0.0751	0.0018	2.355
Vanadium	51	0.2451	0.2203	0.2162	0.2272	0.0156	6.872
Zinc	66	0.5294	0.4813	0.4379	0.4828	0.0458	9.479
Zinc	68	0.4695	0.4154	0.4509	0.4452	0.0275	6.176

Internal Standard**Factors:**

Lithium	6	1.103	1.082	1.099	1.103	n/a	n/a
Scandium	45	1.085	1.096	1.116	1.085	n/a	n/a
Gallium	71	1.067	1.098	1.079	1.067	n/a	n/a
Rhodium	103	1.068	1.057	1.061	1.068	n/a	n/a
Indium	115	1.046	1.033	1.024	1.046	n/a	n/a
Lutetium	175	1.043	1.036	1.048	1.043	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		CLAA LOQ (1.0X)			Mean	SD	%RSD
TimeStamp		5/25/10 15:26					
Aluminum	27	2.214	2.157	2.124	2.165	0.0457	2.11
Antimony	121	0.0571	0.0546	0.0503	0.054	0.0034	6.336
Antimony	123	0.0524	0.0491	0.0552	0.0522	0.003	5.808
Arsenic	75	0.642	0.5254	0.479	0.5488	0.084	15.3
Barium	137	0.0603	0.0688	0.057	0.062	0.006	9.751
Barium	138	0.0598	0.0608	0.0596	0.0601	0.0006	1.047
Beryllium	9	0.0185	0.0144	0.0126	0.0152	0.003	19.88
Cadmium	111	0.0314	0.0258	0.0305	0.0292	0.003	10.23
Cadmium	114	0.031	0.028	0.023	0.0273	0.004	14.81
Chromium	52	0.2046	0.2109	0.2845	0.2333	0.0444	19.03
Chromium	53	0.199	0.2127	0.1703	0.194	0.0216	11.15
Cobalt	59	0.0241	0.026	0.0183	0.0228	0.004	17.71
Copper	63	0.097	0.1024	0.1099	0.1031	0.0065	6.296
Copper	65	0.0771	0.0902	0.0951	0.0875	0.0093	10.64
Lead	206	0.0156	0.017	0.0186	0.0171	0.0015	8.602
Lead	207	0.0196	0.0128	0.0208	0.0177	0.0043	24.53
Lead	208	0.016	0.0174	0.0187	0.0174	0.0013	7.723
Manganese	55	0.0608	0.0576	0.0469	0.0551	0.0073	13.22
Molybdenum	95	0.0625	0.0488	0.0511	0.0542	0.0073	13.56
Molybdenum	97	0.0404	0.0587	0.0695	0.0562	0.0147	26.2
Molybdenum	98	0.0568	0.0558	0.05	0.0542	0.0037	6.762
Nickel	60	0.2063	0.1976	0.1615	0.1885	0.0238	12.6
Nickel	62	0.2645	0.6053	0.2643	0.378	0.1968	52.07
Selenium	77	0.8175	0.9834	0.9205	0.9071	0.0837	9.228
Selenium	78	1.048	1.214	0.9938	1.085	0.1146	10.56
Selenium	82	1.297	0.8805	0.748	0.9752	0.2865	29.38
Silver	107	0.0194	0.0172	0.0236	0.0201	0.0033	16.33
Silver	109	0.0166	0.0206	0.0177	0.0183	0.0021	11.29
Thallium	203	0.0191	0.0253	0.021	0.0218	0.0032	14.64
Thallium	205	0.0225	0.0206	0.018	0.0204	0.0023	11.09
Tin	118	0.0525	0.057	0.0506	0.0534	0.0033	6.154
Tin	120	0.0605	0.0581	0.0581	0.0589	0.0014	2.357
Vanadium	51	0.2114	0.2122	0.2568	0.2268	0.026	11.45
Zinc	66	0.4718	0.5125	0.4631	0.4824	0.0264	5.467
Zinc	68	0.4649	0.4656	0.463	0.4645	0.0014	0.2963

Internal Standard Factors:

Lithium	6	1.103	1.098	1.064	1.103	n/a	n/a
Scandium	45	1.052	1.108	1.139	1.052	n/a	n/a
Gallium	71	1.035	1.119	1.073	1.035	n/a	n/a
Rhodium	103	1.051	1.062	1.059	1.051	n/a	n/a
Indium	115	1.037	1.041	1.032	1.037	n/a	n/a
Lutetium	175	1.024	1.044	1.054	1.024	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		CLAA LOQ (2.0X)			Mean	SD	%RSD
TimeStamp		5/25/10 15:31					
Aluminum	27	4.138	4.278	4.127	4.181	0.0839	2.006
Antimony	121	0.0936	0.0946	0.0915	0.0932	0.0016	1.688
Antimony	123	0.0892	0.0901	0.0942	0.0912	0.0027	2.928
Arsenic	75	1.124	1.154	1.05	1.109	0.0535	4.825
Barium	137	0.1159	0.1142	0.1048	0.1117	0.006	5.358
Barium	138	0.1098	0.1114	0.107	0.1094	0.0022	2.031
Beryllium	9	0.0365	0.0407	0.0429	0.04	0.0033	8.147
Cadmium	111	0.0478	0.0383	0.038	0.0414	0.0056	13.46
Cadmium	114	0.0338	0.0495	0.0444	0.0426	0.008	18.75
Chromium	52	0.4007	0.4335	0.4081	0.4141	0.0172	4.162
Chromium	53	0.4371	0.3814	0.4141	0.4109	0.028	6.812
Cobalt	59	0.0461	0.042	0.0418	0.0433	0.0024	5.559
Copper	63	0.1998	0.2076	0.2119	0.2064	0.0061	2.976
Copper	65	0.1907	0.1982	0.2014	0.1968	0.0054	2.769
Lead	206	0.0453	0.0347	0.0424	0.0408	0.0055	13.41
Lead	207	0.0441	0.0393	0.0427	0.0421	0.0025	5.877
Lead	208	0.0408	0.0375	0.0391	0.0391	0.0016	4.11
Manganese	55	0.1166	0.1153	0.1164	0.1161	0.0007	0.5695
Molybdenum	95	0.102	0.0974	0.1113	0.1036	0.0071	6.833
Molybdenum	97	0.1203	0.1058	0.0915	0.1059	0.0144	13.59
Molybdenum	98	0.1133	0.1142	0.1001	0.1092	0.0079	7.208
Nickel	60	0.3386	0.3561	0.344	0.3462	0.0089	2.585
Nickel	62	0.4288	0.5452	0.3564	0.4435	0.0953	21.48
Selenium	77	1.9	1.905	2.166	1.99	0.1517	7.623
Selenium	78	2.084	1.991	2.084	2.053	0.054	2.63
Selenium	82	2.18	2.15	2.129	2.153	0.0255	1.185
Silver	107	0.0458	0.0483	0.0416	0.0452	0.0034	7.423
Silver	109	0.0383	0.0426	0.0387	0.0398	0.0024	5.93
Thallium	203	0.046	0.0379	0.0367	0.0402	0.0051	12.61
Thallium	205	0.0436	0.0409	0.0441	0.0429	0.0017	3.951
Tin	118	0.1085	0.1388	0.1238	0.1237	0.0152	12.26
Tin	120	0.1101	0.1161	0.1112	0.1125	0.0032	2.815
Vanadium	51	0.4213	0.4243	0.4436	0.4298	0.0121	2.82
Zinc	66	0.9871	1.007	0.9915	0.9951	0.0102	1.029
Zinc	68	0.8718	0.9585	0.9726	0.9343	0.0546	5.841

Internal Standard Factors:

Lithium	6	1.11	1.091	1.13	1.11 n/a	n/a
Scandium	45	1.061	1.093	1.114	1.061 n/a	n/a
Gallium	71	1.037	1.079	1.08	1.037 n/a	n/a
Rhodium	103	1.05	1.042	1.062	1.05 n/a	n/a
Indium	115	1.039	1.012	1.026	1.039 n/a	n/a
Lutetium	175	1.029	1.023	1.045	1.029 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		3050B LOD (0.5X) 1/5			Mean	SD	%RSD
TimeStamp		5/25/10 15:36					
Aluminum	27	1.478	1.452	1.477	1.469	0.0151	1.024
Antimony	121	0.0281	0.0267	0.0242	0.0264	0.002	7.639
Antimony	123	0.0291	0.031	0.0261	0.0287	0.0025	8.637
Arsenic	75	0.1725	0.2144	0.2409	0.2093	0.0345	16.48
Barium	137	0.0246	0.0301	0.0319	0.0289	0.0038	13.28
Barium	138	0.0353	0.0343	0.0338	0.0344	0.0008	2.256
Beryllium	9	0.0104	0.0111	0.0091	0.0102	0.001	10.3
Cadmium	111	0.0069	0.0079	0.0113	0.0087	0.0023	26.41
Cadmium	114	0.0921	0.0862	0.092	0.0901	0.0034	3.787
Chromium	52	0.1586	0.1682	0.1787	0.1685	0.01	5.951
Chromium	53	0.1592	0.18	0.1727	0.1706	0.0106	6.187
Cobalt	59	0.0147	0.0126	0.0137	0.0137	0.0011	7.818
Copper	63	0.0492	0.0524	0.0588	0.0534	0.0049	9.149
Copper	65	0.0615	0.0514	0.0573	0.0567	0.0051	9.009
Lead	206	0.0107	0.0061	0.0086	0.0085	0.0023	27.49
Lead	207	0.0068	0.0102	0.0118	0.0096	0.0025	26.52
Lead	208	0.0085	0.0087	0.0083	0.0085	0.0002	2.42
Manganese	55	0.0314	0.0353	0.0364	0.0344	0.0026	7.605
Molybdenum	95	0.026	0.0329	0.0256	0.0281	0.0041	14.56
Molybdenum	97	0.0324	0.0312	0.0365	0.0334	0.0028	8.283
Molybdenum	98	0.0306	0.0286	0.0253	0.0282	0.0027	9.474
Nickel	60	0.1106	0.1233	0.1105	0.1148	0.0074	6.427
Nickel	62	0.1415	0.1426	0.0859	0.1233	0.0325	26.32
Selenium	77	0.4	0.5476	0.4132	0.4536	0.0817	18.01
Selenium	78	0.4632	0.4751	0.6273	0.5219	0.0915	17.53
Selenium	82	0.1734	0.4453	0.3642	0.3277	0.1396	42.6
Silver	107	0.0123	0.0117	0.0116	0.0119	0.0003	2.883
Silver	109	0.0113	0.0127	0.0093	0.0111	0.0017	15.53
Thallium	203	0.0121	0.0126	0.0112	0.012	0.0007	5.603
Thallium	205	0.01	0.01	0.0129	0.011	0.0017	15.33
Tin	118	2.734	2.748	2.725	2.736	0.0115	0.4185
Tin	120	2.812	2.915	3.034	2.92	0.1111	3.803
Vanadium	51	0.1039	0.0932	0.1064	0.1012	0.007	6.909
Zinc	66	0.3102	0.358	0.3285	0.3322	0.0241	7.255
Zinc	68	0.3399	0.319	0.3262	0.3284	0.0107	3.246

Internal Standard Factors:

Lithium	6	1.084	1.055	1.078	1.084	n/a	n/a
Scandium	45	1.04	1.067	1.087	1.04	n/a	n/a
Gallium	71	1.004	1.041	1.064	1.004	n/a	n/a
Rhodium	103	1.032	1.041	1.044	1.032	n/a	n/a
Indium	115	1.011	1.022	1.027	1.011	n/a	n/a
Lutetium	175	1.012	1.017	1.059	1.012	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		3050B LOD (1.0X) 1/5			Mean	SD	%RSD
TimeStamp		5/25/10 15:42					
Aluminum	27	2.723	2.531	2.586	2.613	0.099	3.789
Antimony	121	0.0537	0.0589	0.054	0.0555	0.0029	5.221
Antimony	123	0.0483	0.0527	0.0581	0.053	0.0049	9.246
Arsenic	75	0.5417	0.5698	0.516	0.5425	0.0269	4.96
Barium	137	0.0614	0.0592	0.0536	0.0581	0.004	6.961
Barium	138	0.0659	0.0634	0.0653	0.0649	0.0013	1.96
Beryllium	9	0.0258	0.0271	0.0237	0.0255	0.0017	6.76
Cadmium	111	0.0273	0.0233	0.022	0.0242	0.0027	11.36
Cadmium	114	0.1018	0.111	0.1012	0.1047	0.0055	5.251
Chromium	52	0.2927	0.2938	0.2993	0.2953	0.0035	1.186
Chromium	53	0.2968	0.2831	0.2685	0.2828	0.0141	5
Cobalt	59	0.0253	0.0229	0.0234	0.0239	0.0013	5.241
Copper	63	0.1437	0.1381	0.1473	0.143	0.0046	3.237
Copper	65	0.1343	0.1306	0.1349	0.1333	0.0023	1.758
Lead	206	0.0233	0.0214	0.0193	0.0214	0.002	9.319
Lead	207	0.0248	0.0254	0.0209	0.0237	0.0025	10.35
Lead	208	0.0234	0.0224	0.0201	0.022	0.0017	7.713
Manganese	55	0.1137	0.107	0.1045	0.1084	0.0048	4.385
Molybdenum	95	0.057	0.0688	0.0528	0.0595	0.0083	13.91
Molybdenum	97	0.0739	0.0566	0.0557	0.0621	0.0103	16.61
Molybdenum	98	0.0579	0.0599	0.0635	0.0605	0.0028	4.7
Nickel	60	0.1959	0.2089	0.2119	0.2056	0.0085	4.13
Nickel	62	0.2859	0.3003	0.2024	0.2629	0.0529	20.11
Selenium	77	0.9292	0.9482	0.9563	0.9445	0.0139	1.473
Selenium	78	1.089	1.026	0.9919	1.036	0.0492	4.754
Selenium	82	0.8527	1.006	0.9804	0.9464	0.0822	8.681
Silver	107	0.0218	0.0227	0.0229	0.0225	0.0006	2.5
Silver	109	0.0223	0.0186	0.0187	0.0199	0.0021	10.51
Thallium	203	0.022	0.0235	0.0235	0.023	0.0009	3.885
Thallium	205	0.0241	0.0231	0.0238	0.0237	0.0005	2.031
Tin	118	3.095	2.975	2.913	2.994	0.0926	3.093
Tin	120	3.056	3.018	2.728	2.934	0.1794	6.114
Vanadium	51	0.213	0.2142	0.22	0.2157	0.0037	1.724
Zinc	66	0.5704	0.5039	0.5686	0.5476	0.0379	6.919
Zinc	68	0.5297	0.5506	0.5627	0.5477	0.0167	3.043

Internal Standard Factors:

Lithium	6	1.116	1.078	1.121	1.116 n/a	n/a
Scandium	45	1.011	1.056	1.078	1.011 n/a	n/a
Gallium	71	1.011	1.046	1.067	1.011 n/a	n/a
Rhodium	103	1.023	1.043	1.031	1.023 n/a	n/a
Indium	115	1	1.003	1.018	1 n/a	n/a
Lutetium	175	1.017	1.001	1.024	1.017 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		3050B LOQ (1.0X) 1/5			Mean	SD	%RSD
TimeStamp		5/25/10 15:47					
Aluminum	27	2.666	2.593	2.582	2.614	0.0458	1.751
Antimony	121	0.0528	0.0541	0.0527	0.0532	0.0008	1.505
Antimony	123	0.0502	0.0508	0.0467	0.0492	0.0022	4.532
Arsenic	75	0.4816	0.4928	0.5488	0.5077	0.036	7.088
Barium	137	0.059	0.0679	0.0623	0.0631	0.0045	7.119
Barium	138	0.0631	0.0609	0.0549	0.0597	0.0042	7.119
Beryllium	9	0.0243	0.0225	0.0143	0.0204	0.0053	26.17
Cadmium	111	0.0232	0.0241	0.0218	0.023	0.0012	5.204
Cadmium	114	0.113	0.1106	0.0982	0.1073	0.0079	7.383
Chromium	52	0.2833	0.2672	0.2535	0.268	0.0149	5.566
Chromium	53	0.3317	0.2901	0.3082	0.31	0.0208	6.722
Cobalt	59	0.0251	0.0252	0.0197	0.0233	0.0031	13.48
Copper	63	0.1246	0.1179	0.1331	0.1252	0.0076	6.051
Copper	65	0.1056	0.1167	0.1301	0.1175	0.0123	10.47
Lead	206	0.0187	0.0198	0.0244	0.021	0.0031	14.59
Lead	207	0.0234	0.0224	0.025	0.0236	0.0013	5.556
Lead	208	0.0206	0.0212	0.0232	0.0217	0.0014	6.246
Manganese	55	0.0578	0.063	0.0589	0.0599	0.0027	4.527
Molybdenum	95	0.0562	0.0569	0.0544	0.0559	0.0013	2.279
Molybdenum	97	0.0574	0.0614	0.0501	0.0563	0.0057	10.17
Molybdenum	98	0.0594	0.0619	0.0567	0.0593	0.0026	4.431
Nickel	60	0.2412	0.2297	0.2112	0.2274	0.0152	6.667
Nickel	62	0.2329	0.1608	0.1956	0.1965	0.0361	18.35
Selenium	77	0.8303	0.8497	0.861	0.847	0.0155	1.829
Selenium	78	0.9384	0.9388	0.9902	0.9558	0.0298	3.115
Selenium	82	0.782	0.9012	0.8851	0.8561	0.0647	7.557
Silver	107	0.0213	0.0229	0.0202	0.0215	0.0014	6.52
Silver	109	0.0229	0.0231	0.0229	0.0229	0.0001	0.585
Thallium	203	0.0233	0.0252	0.023	0.0238	0.0012	4.945
Thallium	205	0.0218	0.0208	0.0225	0.0217	0.0008	3.899
Tin	118	2.78	2.871	2.842	2.831	0.0467	1.648
Tin	120	2.726	2.992	2.908	2.875	0.1362	4.738
Vanadium	51	0.1986	0.206	0.1889	0.1978	0.0086	4.328
Zinc	66	0.5488	0.531	0.5549	0.5449	0.0124	2.275
Zinc	68	0.5248	0.5141	0.5118	0.5169	0.0069	1.34

Internal Standard Factors:

Lithium	6	1.107	1.114	1.073	1.107	n/a	n/a
Scandium	45	1.052	1.085	1.064	1.052	n/a	n/a
Gallium	71	1.006	1.054	1.068	1.006	n/a	n/a
Rhodium	103	1.023	1.048	1.044	1.023	n/a	n/a
Indium	115	1.007	1.025	1.026	1.007	n/a	n/a
Lutetium	175	1.032	1.023	1.007	1.032	n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 05-25-10C

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #202144

Sample Name:		3050B LOQ (2.0X) 1/5			Mean	SD	%RSD
TimeStamp		5/25/10 15:53					
Aluminum	27	4.855	4.805	4.865	4.841	0.0322	0.6652
Antimony	121	0.1127	0.1018	0.1007	0.1051	0.0067	6.345
Antimony	123	0.1093	0.1043	0.1015	0.105	0.0039	3.728
Arsenic	75	1.041	1	1.027	1.023	0.0208	2.034
Barium	137	0.1254	0.1195	0.1193	0.1214	0.0035	2.86
Barium	138	0.1227	0.1199	0.1152	0.1193	0.0038	3.175
Beryllium	9	0.0469	0.047	0.0487	0.0475	0.001	2.069
Cadmium	111	0.0445	0.042	0.0415	0.0427	0.0016	3.813
Cadmium	114	0.1297	0.1238	0.1185	0.124	0.0056	4.521
Chromium	52	0.4754	0.4935	0.4814	0.4834	0.0092	1.905
Chromium	53	0.5556	0.5158	0.4999	0.5238	0.0287	5.478
Cobalt	59	0.0435	0.0457	0.041	0.0434	0.0023	5.397
Copper	63	0.2112	0.2344	0.2317	0.2258	0.0127	5.605
Copper	65	0.2327	0.2153	0.2088	0.2189	0.0124	5.649
Lead	206	0.0417	0.0379	0.0389	0.0395	0.002	5.03
Lead	207	0.04	0.0426	0.0381	0.0402	0.0023	5.612
Lead	208	0.0435	0.0412	0.0419	0.0422	0.0012	2.819
Manganese	55	0.1226	0.1234	0.1161	0.1207	0.004	3.314
Molybdenum	95	0.1143	0.1093	0.1034	0.109	0.0055	5.038
Molybdenum	97	0.1173	0.1124	0.1165	0.1154	0.0026	2.279
Molybdenum	98	0.1082	0.1134	0.1048	0.1088	0.0043	3.97
Nickel	60	0.4612	0.4043	0.4288	0.4314	0.0286	6.622
Nickel	62	0.4689	0.5478	0.4045	0.4737	0.0718	15.15
Selenium	77	1.894	1.953	1.83	1.892	0.0612	3.231
Selenium	78	2.069	1.879	1.951	1.966	0.096	4.881
Selenium	82	1.791	1.726	1.897	1.805	0.0866	4.797
Silver	107	0.0428	0.0454	0.0456	0.0446	0.0016	3.549
Silver	109	0.045	0.0425	0.0456	0.0444	0.0016	3.673
Thallium	203	0.0436	0.0432	0.0441	0.0437	0.0004	1.01
Thallium	205	0.0447	0.0448	0.0433	0.0443	0.0009	1.926
Tin	118	2.823	2.809	2.699	2.777	0.0676	2.434
Tin	120	2.833	2.622	2.804	2.753	0.1148	4.169
Vanadium	51	0.3904	0.4206	0.4209	0.4106	0.0175	4.273
Zinc	66	1.155	1.09	1.034	1.093	0.0604	5.523
Zinc	68	1.072	0.9983	1.048	1.039	0.0375	3.609

Internal Standard Factors:

Lithium	6	1.094	1.11	1.12	1.094	n/a	n/a
Scandium	45	1.013	1.047	1.104	1.013	n/a	n/a
Gallium	71	1.023	1.06	1.071	1.023	n/a	n/a
Rhodium	103	1.026	1.043	1.042	1.026	n/a	n/a
Indium	115	1.002	1.018	1.002	1.002	n/a	n/a
Lutetium	175	1.003	1.018	1.014	1.003	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	ICSA	Mean	SD	%RSD			
TimeStamp	5/25/10 15:59						
Aluminum	27	23610	22920	23350	23290	350.7	1.506
Antimony	121	0.0849	0.0686	0.065	0.0728	0.0106	14.53
Antimony	123	0.0702	0.0694	0.0807	0.0734	0.0063	8.594
Arsenic	75	0.12	0.0071	0.1239	0.0837	0.0663	79.27
Barium	137	0.2439	0.2488	0.2363	0.243	0.0063	2.61
Barium	138	0.2642	0.2519	0.2402	0.2521	0.012	4.758
Beryllium	9	0.0024	0.0015	0.0006	0.0015	0.0009	59.81
Cadmium	111	0.0736	0.0686	0.0539	0.0654	0.0103	15.68
Cadmium	114	0.0612	0.0539	0.0501	0.0551	0.0056	10.2
Chromium	52	0.3717	0.3548	0.294	0.3402	0.0409	12.02
Chromium	53	4.088	3.598	3.884	3.857	0.2459	6.375
Cobalt	59	0.861	0.8018	0.8505	0.8378	0.0316	3.773
Copper	63	1.6	1.654	1.619	1.624	0.0272	1.676
Copper	65	0.8958	0.8485	0.8724	0.8722	0.0236	2.709
Lead	206	0.1616	0.1519	0.1547	0.156	0.005	3.21
Lead	207	0.1775	0.1698	0.1714	0.1729	0.0041	2.369
Lead	208	0.168	0.1658	0.1603	0.1647	0.004	2.4
Manganese	55	1.467	1.34	1.399	1.402	0.0633	4.515
Molybdenum	95	53.53	52.81	52.89	53.08	0.3968	0.7476
Molybdenum	97	53.15	52.41	52.84	52.8	0.3752	0.7105
Molybdenum	98	54.61	52.56	53.63	53.6	1.024	1.91
Nickel	60	1.669	1.508	1.595	1.591	0.0805	5.064
Nickel	62	5.158	5.582	5.938	5.559	0.3901	7.018
Selenium	77	1.939	2.194	2.188	2.107	0.1453	6.897
Selenium	78	0.4462	0.3377	0.6515	0.4785	0.1594	33.31
Selenium	82	-0.1997	-0.1866	0.1676	-0.0729	0.2084	285.9
Silver	107	0.062	0.0711	0.0748	0.0693	0.0066	9.492
Silver	109	0.0572	0.0618	0.0593	0.0594	0.0023	3.844
Thallium	203	0.0734	0.0617	0.0602	0.0651	0.0072	11.12
Thallium	205	0.065	0.06	0.0614	0.0621	0.0026	4.15
Tin	118	0.0582	0.0585	0.0528	0.0565	0.0032	5.686
Tin	120	0.053	0.0522	0.0511	0.0521	0.0009	1.807
Vanadium	51	0.0563	0.0254	0.1084	0.0634	0.0419	66.16
Zinc	66	4.212	4.133	4.12	4.155	0.05	1.203
Zinc	68	3.809	3.714	3.697	3.74	0.0599	1.602

Internal Standard Factors:

Lithium	6	1.527	1.538	1.575	1.527	n/a	n/a
Scandium	45	1.441	1.486	1.515	1.441	n/a	n/a
Gallium	71	1.425	1.469	1.477	1.425	n/a	n/a
Rhodium	103	1.399	1.377	1.395	1.399	n/a	n/a
Indium	115	1.323	1.296	1.286	1.323	n/a	n/a
Lutetium	175	1.289	1.284	1.272	1.289	n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 05-25-10C

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #202144

Sample Name:	ICSAB	Mean	SD	%RSD			
TimeStamp	5/25/10 16:03						
Aluminum	27	22630	22260	22070	22320	282.2	1.264
Antimony	121	0.062	0.0566	0.0528	0.0571	0.0047	8.144
Antimony	123	0.0681	0.0455	0.0543	0.056	0.0114	20.37
Arsenic	75	25.32	26.15	25.5	25.66	0.4402	1.716
Barium	137	0.1339	0.1428	0.1649	0.1472	0.016	10.84
Barium	138	0.1468	0.1379	0.1496	0.1448	0.0061	4.205
Beryllium	9	0.0061	-0.0005	0.0032	0.0029	0.0033	112
Cadmium	111	24.45	25.12	24.08	24.55	0.5284	2.153
Cadmium	114	23.54	24.18	23.65	23.79	0.3418	1.437
Chromium	52	52.12	51.78	50.99	51.63	0.5807	1.125
Chromium	53	54.5	53.91	54.91	54.44	0.506	0.9295
Cobalt	59	51.74	52.32	51.44	51.84	0.4458	0.8601
Copper	63	46.49	47.1	46.77	46.79	0.3015	0.6445
Copper	65	45.95	45.88	45.17	45.67	0.4319	0.9458
Lead	206	0.1253	0.1178	0.1183	0.1205	0.0042	3.481
Lead	207	0.1496	0.1193	0.142	0.137	0.0158	11.52
Lead	208	0.1303	0.1223	0.1246	0.1257	0.0041	3.242
Manganese	55	51.74	51.94	50.55	51.41	0.7531	1.465
Molybdenum	95	52.93	52.6	51.88	52.47	0.5348	1.019
Molybdenum	97	51.3	52.9	51.89	52.03	0.8104	1.558
Molybdenum	98	52.94	52.83	52.43	52.73	0.2692	0.5106
Nickel	60	49.18	49.58	48.51	49.09	0.5412	1.103
Nickel	62	54.4	55.04	53.14	54.19	0.9652	1.781
Selenium	77	27.98	27.38	27.87	27.74	0.3166	1.141
Selenium	78	24.95	27.02	24.54	25.51	1.33	5.217
Selenium	82	24.66	24.67	25.74	25.02	0.6248	2.497
Silver	107	11.89	12.18	11.79	11.95	0.2046	1.712
Silver	109	11.89	12.13	11.92	11.98	0.1314	1.097
Thallium	203	0.0553	0.0452	0.0496	0.05	0.0051	10.11
Thallium	205	0.0497	0.0463	0.0444	0.0468	0.0027	5.731
Tin	118	0.0476	0.0538	0.0436	0.0483	0.0051	10.61
Tin	120	0.0443	0.0545	0.0428	0.0472	0.0064	13.47
Vanadium	51	53.08	53.34	52.67	53.03	0.3341	0.63
Zinc	66	26.44	27.14	26.51	26.69	0.3833	1.436
Zinc	68	25.42	26.5	25.49	25.8	0.6076	2.355

Internal Standard

Factors:

Lithium	6	1.518	1.522	1.496	1.518	n/a	n/a
Scandium	45	1.47	1.488	1.47	1.47	n/a	n/a
Gallium	71	1.392	1.412	1.363	1.392	n/a	n/a
Rhodium	103	1.368	1.36	1.332	1.368	n/a	n/a
Indium	115	1.257	1.257	1.226	1.257	n/a	n/a
Lutetium	175	1.309	1.251	1.266	1.309	n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 05-25-10C

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #202144

Sample Name:		K1004316-MB			Mean	SD	%RSD
TimeStamp		5/25/10 16:25					
Aluminum	27	0.5319	0.5169	0.511	0.5199	0.0108	2.068
Antimony	121	0.0007	0.0001	-0.0009	0	0.0008	3221
Antimony	123	0.0008	0.003	0.0005	0.0014	0.0014	97.77
Arsenic	75	-0.1299	0.034	-0.0156	-0.0372	0.084	226
Barium	137	0.0042	0.0015	0.0074	0.0043	0.003	68.51
Barium	138	0.0035	0.0041	0.0028	0.0035	0.0006	18.18
Beryllium	9	0.0034	0.0049	0.0065	0.0049	0.0016	31.95
Cadmium	111	0.0067	0.0096	0.0078	0.0081	0.0015	18.26
Cadmium	114	0.0028	0.0007	0.0007	0.0014	0.0012	89.41
Chromium	52	0.0726	0.0944	0.0766	0.0812	0.0116	14.27
Chromium	53	0.0565	0.0569	0.0995	0.071	0.0247	34.86
Cobalt	59	0.0054	0.0063	0.0031	0.0049	0.0016	33.32
Copper	63	-0.0187	-0.0206	-0.0215	-0.0203	0.0014	6.941
Copper	65	-0.0257	-0.0303	-0.003	-0.0197	0.0146	74.14
Lead	206	-0.0004	0	-0.0005	-0.0003	0.0003	87.94
Lead	207	-0.0021	0.0052	0.0021	0.0017	0.0036	207.8
Lead	208	-0.0019	-0.0011	-0.0017	-0.0016	0.0004	26.96
Manganese	55	-0.0007	0.0047	0.0041	0.0027	0.0029	108
Molybdenum	95	0.0154	0.0122	0.0074	0.0117	0.004	34.31
Molybdenum	97	0.0097	0.006	0.0115	0.0091	0.0028	30.65
Molybdenum	98	0.0068	0.0076	0.0072	0.0072	0.0004	5.443
Nickel	60	-0.0169	-0.0462	-0.0405	-0.0345	0.0156	45.07
Nickel	62	0.1959	0.2028	0.3426	0.2471	0.0828	33.5
Selenium	77	-0.0037	-0.1232	-0.135	-0.0873	0.0727	83.24
Selenium	78	0.1187	0.05	0.3711	0.1799	0.1691	93.96
Selenium	82	-0.4423	-0.0372	-0.2316	-0.237	0.2026	85.46
Silver	107	-0.0001	-0.0028	-0.002	-0.0017	0.0014	83.93
Silver	109	-0.0016	-0.0021	-0.0023	-0.002	0.0004	17.84
Thallium	203	0.0029	0.0028	0.0018	0.0025	0.0006	23.61
Thallium	205	0.0049	0.0036	0.0015	0.0033	0.0017	51.84
Tin	118	0.0051	0.0018	-0.0024	0.0015	0.0038	252.4
Tin	120	0.0014	-0.0019	-0.0026	-0.001	0.0021	212.4
Vanadium	51	0.0303	0.0365	0.0202	0.029	0.0083	28.5
Zinc	66	-0.0311	-0.0491	-0.042	-0.0407	0.0091	22.27
Zinc	68	-0.0125	-0.0455	-0.0512	-0.0364	0.0209	57.44

Internal Standard Factors:

Lithium	6	1.083	1.103	1.135	1.083 n/a	n/a
Scandium	45	0.979	1.031	1.068	0.979 n/a	n/a
Gallium	71	0.958	1.02	1.041	0.958 n/a	n/a
Rhodium	103	0.955	0.994	0.996	0.955 n/a	n/a
Indium	115	0.969	0.981	0.983	0.969 n/a	n/a
Lutetium	175	0.96	0.978	0.993	0.96 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		LCSW K1004316			Mean	SD	%RSD
TimeStamp		5/25/10 16:29					
Aluminum	27	20.79	21.08	21.61	21.16	0.4152	1.962
Antimony	121	19.75	20.22	19.98	19.98	0.2344	1.173
Antimony	123	20.18	20.15	20.47	20.27	0.1797	0.8868
Arsenic	75	20.4	20.5	19.95	20.28	0.2934	1.447
Barium	137	20.55	20.25	20.43	20.41	0.1488	0.729
Barium	138	20.09	20.22	20.86	20.39	0.4134	2.028
Beryllium	9	21.16	20.9	20.91	20.99	0.1469	0.7
Cadmium	111	20.14	20.86	20.33	20.44	0.3696	1.808
Cadmium	114	20.02	19.38	19.75	19.72	0.3177	1.612
Chromium	52	19.77	20.96	20.45	20.4	0.5965	2.924
Chromium	53	20.11	19.86	20.04	20	0.1283	0.6414
Cobalt	59	20.77	20.56	21.05	20.79	0.2452	1.179
Copper	63	20.48	20.6	20.8	20.63	0.1571	0.7616
Copper	65	20.24	20.4	20.43	20.36	0.1039	0.5105
Lead	206	20.58	19.78	20.22	20.2	0.399	1.976
Lead	207	19.95	20.27	20.48	20.23	0.265	1.31
Lead	208	20.42	19.98	20.15	20.18	0.2203	1.092
Manganese	55	19.94	20.32	20.22	20.16	0.1992	0.9882
Molybdenum	95	20.54	20.47	20.72	20.58	0.1307	0.635
Molybdenum	97	20.1	20.44	20.28	20.27	0.172	0.8484
Molybdenum	98	20.43	20.49	20.15	20.35	0.182	0.8943
Nickel	60	20.24	20.96	20.11	20.44	0.4558	2.231
Nickel	62	21.12	21	21.18	21.1	0.0901	0.4268
Selenium	77	20.83	20.93	20.87	20.88	0.0462	0.2214
Selenium	78	20.53	20.94	20.52	20.66	0.2427	1.174
Selenium	82	20.52	19.75	20.05	20.11	0.3883	1.931
Silver	107	20.37	19.98	19.96	20.1	0.2272	1.13
Silver	109	20.48	20.21	20.59	20.43	0.1917	0.9384
Thallium	203	20.45	19.85	20.71	20.34	0.441	2.169
Thallium	205	20.04	20.32	20.27	20.21	0.1517	0.7507
Tin	118	0.0034	0.0048	0.0018	0.0034	0.0015	44.74
Tin	120	-0.0001	0.0011	0.0003	0.0004	0.0006	135.5
Vanadium	51	20.34	20.93	20.77	20.68	0.3034	1.467
Zinc	66	20.49	20.52	20.86	20.63	0.2046	0.9919
Zinc	68	20.38	20.83	20.51	20.57	0.2341	1.138

Internal Standard Factors:

Lithium	6	1.096	1.083	1.089	1.096	n/a	n/a
Scandium	45	1.007	1.054	1.062	1.007	n/a	n/a
Gallium	71	1.01	1.019	1.016	1.01	n/a	n/a
Rhodium	103	0.982	0.963	0.965	0.982	n/a	n/a
Indium	115	0.961	0.938	0.945	0.961	n/a	n/a
Lutetium	175	0.968	0.948	0.963	0.968	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	CCV2				Mean	SD	%RSD
TimeStamp	5/25/10 16:34						
Aluminum	27	26.45	25.96	24.13	25.51	1.221	4.787
Antimony	121	24.28	25.07	24.63	24.66	0.3977	1.612
Antimony	123	25.08	25.27	24.91	25.08	0.1799	0.7172
Arsenic	75	23.81	24.06	25.13	24.33	0.705	2.897
Barium	137	24.64	25.28	25.2	25.04	0.3495	1.395
Barium	138	25.06	25.25	24.77	25.03	0.2454	0.9806
Beryllium	9	27.14	25.12	24.97	25.74	1.212	4.707
Cadmium	111	24.3	25.24	24.75	24.76	0.4695	1.896
Cadmium	114	24.31	24.93	24.9	24.71	0.3487	1.411
Chromium	52	25.27	24.66	24.45	24.79	0.4227	1.705
Chromium	53	25.34	24.99	24.55	24.96	0.3986	1.597
Cobalt	59	25.38	25.71	25.18	25.42	0.2656	1.045
Copper	63	25.59	24.75	25.42	25.25	0.4398	1.742
Copper	65	24.41	24.83	25.31	24.85	0.4463	1.796
Lead	206	24.91	24.82	24.65	24.8	0.1361	0.5491
Lead	207	25.33	24.63	24.5	24.82	0.4495	1.811
Lead	208	24.85	24.64	24.68	24.72	0.109	0.4408
Manganese	55	24.3	25.14	24.96	24.8	0.4467	1.801
Molybdenum	95	24.93	24.77	24.79	24.83	0.091	0.3663
Molybdenum	97	24.32	25.04	24.54	24.63	0.3717	1.509
Molybdenum	98	24.51	24.88	24.69	24.7	0.183	0.7411
Nickel	60	24.32	24.65	25.23	24.73	0.4567	1.847
Nickel	62	24.96	26.12	26	25.69	0.6377	2.482
Selenium	77	25.45	25.49	25.14	25.36	0.1929	0.7605
Selenium	78	25.08	25.45	25.73	25.42	0.3257	1.281
Selenium	82	24.13	25.16	25.23	24.84	0.6141	2.472
Silver	107	24.39	24.76	24.63	24.59	0.1875	0.7625
Silver	109	24.92	25.18	24.63	24.91	0.2748	1.103
Thallium	203	25.9	24.94	25.17	25.34	0.4994	1.971
Thallium	205	25.23	24.88	24.66	24.93	0.2852	1.144
Tin	118	24.38	24.66	24.81	24.61	0.2184	0.8872
Tin	120	24.95	24.89	24.96	24.94	0.0364	0.146
Vanadium	51	24.83	25.02	24.85	24.9	0.1055	0.4238
Zinc	66	24.95	24.83	24.73	24.84	0.1119	0.4506
Zinc	68	24.16	24.29	25.34	24.6	0.6483	2.636

Internal Standard Factors:

Lithium	6	1.095	1.073	1.068	1.095 n/a	n/a
Scandium	45	1.002	1.009	1.024	1.002 n/a	n/a
Gallium	71	0.95	0.974	0.993	0.95 n/a	n/a
Rhodium	103	0.95	0.952	0.945	0.95 n/a	n/a
Indium	115	0.927	0.932	0.932	0.927 n/a	n/a
Lutetium	175	0.962	0.942	0.943	0.962 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	CCB2				Mean	SD	%RSD
TimeStamp	5/25/10 16:44						
Aluminum	27	0.1778	0.2335	0.2494	0.2202	0.0376	17.06
Antimony	121	-0.0001	0.0003	0.0037	0.0013	0.0021	155.5
Antimony	123	-0.0022	-0.0005	0.003	0.0001	0.0027	3817
Arsenic	75	0.0717	-0.1181	-0.0804	-0.0423	0.1004	237.7
Barium	137	0.0034	0.0006	0.0093	0.0044	0.0045	100.9
Barium	138	0.006	0.0027	0.0086	0.0058	0.003	51.32
Beryllium	9	0.0033	0.0032	0.0033	0.0033	0.0001	1.552
Cadmium	111	0.0031	0.0032	0.0032	0.0032	0	1.516
Cadmium	114	-0.0006	0.0035	0.005	0.0027	0.0029	109.2
Chromium	52	0.0007	-0.0312	-0.016	-0.0155	0.016	102.8
Chromium	53	0.0292	0.0157	0.0337	0.0262	0.0093	35.68
Cobalt	59	-0.0007	0.0037	0.01	0.0043	0.0054	125.3
Copper	63	0.0175	0.0132	0.0302	0.0203	0.0089	43.55
Copper	65	0.0165	0.038	0.0337	0.0294	0.0114	38.73
Lead	206	-0.0002	0.0018	0.0039	0.0018	0.002	110.9
Lead	207	0	0.0084	0.0054	0.0046	0.0042	91.95
Lead	208	-0.0006	0.0005	0.0024	0.0008	0.0015	197.4
Manganese	55	0.0198	0.009	0.0192	0.016	0.0061	38.06
Molybdenum	95	0.0088	0.0084	0.0098	0.009	0.0008	8.412
Molybdenum	97	0.0127	0.0057	0.0163	0.0116	0.0054	46.48
Molybdenum	98	0.0068	0.0082	0.0107	0.0085	0.002	23.08
Nickel	60	0.0489	0.0062	0.0038	0.0196	0.0254	129.3
Nickel	62	0.281	0.1468	0.3173	0.2484	0.0898	36.15
Selenium	77	-0.055	-0.1011	0.0299	-0.0421	0.0665	158
Selenium	78	0.3743	0.2379	0.1442	0.2522	0.1157	45.89
Selenium	82	0.1317	-0.4406	-0.2595	-0.1895	0.2925	154.4
Silver	107	0.0125	0.0132	0.0155	0.0137	0.0016	11.47
Silver	109	0.0156	0.0155	0.0111	0.0141	0.0026	18.43
Thallium	203	0.0025	0.0022	0.0055	0.0034	0.0018	52.76
Thallium	205	0.001	0.0029	0.0051	0.003	0.0021	69.03
Tin	118	0.0058	0.0102	0.0068	0.0076	0.0023	30.23
Tin	120	0.0024	0.0344	0.0076	0.0148	0.0172	116.1
Vanadium	51	0.0061	-0.0007	0.0045	0.0033	0.0036	107.3
Zinc	66	0.0731	0.0872	0.1331	0.0978	0.0314	32.07
Zinc	68	0.0996	0.13	0.1279	0.1192	0.017	14.25

Internal Standard Factors:

Lithium	6	1.07	1.059	1.074	1.07	n/a	n/a
Scandium	45	0.965	0.989	1.025	0.965	n/a	n/a
Gallium	71	0.935	0.984	1.012	0.935	n/a	n/a
Rhodium	103	0.953	0.968	0.97	0.953	n/a	n/a
Indium	115	0.955	0.965	0.971	0.955	n/a	n/a
Lutetium	175	0.969	0.972	0.975	0.969	n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 05-25-10C

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #202144

Sample Name:		K1004316-008 (Pump)			Mean	SD	%RSD
TimeStamp		5/25/10 16:48					
Aluminum	27	1.503	1.398	1.459	1.453	0.0524	3.608
Antimony	121	0.6227	0.6189	0.6002	0.6139	0.012	1.957
Antimony	123	0.6115	0.6095	0.6023	0.6078	0.0049	0.8017
Arsenic	75	1.243	1.031	1.208	1.161	0.1137	9.794
Barium	137	201	200.3	201.6	201	0.667	0.3319
Barium	138	215.2	201.4	200.4	205.7	8.297	4.034
Beryllium	9	0.0022	-0.0008	0.0017	0.001	0.0016	158.5
Cadmium	111	0.3373	0.2835	0.2697	0.2968	0.0357	12.04
Cadmium	114	0.2606	0.2662	0.3102	0.279	0.0272	9.735
Chromium	52	0.4834	0.5414	0.4977	0.5075	0.0302	5.955
Chromium	53	0.5102	0.5868	0.6014	0.5661	0.049	8.647
Cobalt	59	0.3685	0.3663	0.3701	0.3683	0.0019	0.5239
Copper	63	0.9038	0.9663	0.9521	0.9407	0.0327	3.48
Copper	65	0.8324	0.7297	0.7526	0.7716	0.0539	6.988
Lead	206	0.6662	0.6851	0.6837	0.6783	0.0105	1.554
Lead	207	0.7203	0.7178	0.7411	0.7264	0.0128	1.755
Lead	208	0.7106	0.7124	0.7233	0.7154	0.0069	0.9604
Manganese	55	1.089	1.06	1.13	1.093	0.0355	3.246
Molybdenum	95	0.5102	0.452	0.4782	0.4801	0.0292	6.072
Molybdenum	97	0.4767	0.4729	0.4628	0.4708	0.0072	1.529
Molybdenum	98	0.4527	0.4605	0.4462	0.4531	0.0072	1.587
Nickel	60	1.539	1.432	1.657	1.543	0.1122	7.273
Nickel	62	0.6291	0.8441	0.8515	0.7749	0.1263	16.3
Selenium	77	0.3426	0.4374	0.5348	0.4383	0.0961	21.93
Selenium	78	0.6904	0.6943	0.5303	0.6384	0.0936	14.66
Selenium	82	0.7657	0.1326	0.841	0.5798	0.3891	67.11
Silver	107	0.0012	0.0015	-0.0011	0.0005	0.0014	269.4
Silver	109	0.0014	-0.0005	-0.0024	-0.0005	0.0019	357
Thallium	203	0.0166	0.017	0.0154	0.0163	0.0008	4.992
Thallium	205	0.0154	0.0181	0.0173	0.0169	0.0014	8.419
Tin	118	0.0173	0.0184	0.0159	0.0172	0.0013	7.404
Tin	120	0.0178	0.012	0.013	0.0143	0.0031	21.54
Vanadium	51	1.819	1.78	1.842	1.814	0.0315	1.734
Zinc	66	12.9	13.34	13.28	13.17	0.2397	1.82
Zinc	68	16.27	16.26	16.4	16.31	0.0771	0.4725

Internal Standard Factors:

Lithium	6	1.286	1.335	1.346	1.286	n/a	n/a
Scandium	45	1.127	1.227	1.267	1.127	n/a	n/a
Gallium	71	1.255	1.323	1.35	1.255	n/a	n/a
Rhodium	103	1.228	1.248	1.258	1.228	n/a	n/a
Indium	115	1.145	1.157	1.162	1.145	n/a	n/a
Lutetium	175	1.015	1.026	1.04	1.015	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004316-008D (Pump)			Mean	SD	%RSD
TimeStamp		5/25/10 16:54					
Aluminum	27	1.554	1.477	1.425	1.485	0.0647	4.356
Antimony	121	0.5937	0.6089	0.6013	0.6013	0.0076	1.267
Antimony	123	0.617	0.6226	0.6213	0.6203	0.0029	0.4737
Arsenic	75	1.146	1.375	1.311	1.277	0.1181	9.245
Barium	137	203.1	206.7	198.7	202.8	4	1.972
Barium	138	217.5	215	206.2	212.9	5.955	2.797
Beryllium	9	0.0008	0	0.0007	0.0005	0.0004	85.83
Cadmium	111	0.3064	0.2971	0.3017	0.3017	0.0047	1.554
Cadmium	114	0.2761	0.2807	0.2681	0.275	0.0064	2.318
Chromium	52	0.4825	0.4998	0.4843	0.4889	0.0095	1.948
Chromium	53	0.5574	0.5156	0.4741	0.5157	0.0417	8.079
Cobalt	59	0.3683	0.3706	0.371	0.37	0.0015	0.3968
Copper	63	0.9909	0.9698	0.99	0.9836	0.0119	1.212
Copper	65	0.7097	0.735	0.74	0.7282	0.0162	2.229
Lead	206	0.693	0.6871	0.6337	0.6713	0.0327	4.868
Lead	207	0.7391	0.741	0.7041	0.7281	0.0208	2.86
Lead	208	0.7213	0.7055	0.6851	0.704	0.0181	2.575
Manganese	55	1.143	1.175	1.111	1.143	0.032	2.8
Molybdenum	95	0.4833	0.4752	0.4321	0.4635	0.0275	5.935
Molybdenum	97	0.4325	0.4106	0.49	0.4444	0.041	9.223
Molybdenum	98	0.4655	0.4842	0.4508	0.4668	0.0167	3.578
Nickel	60	1.434	1.622	1.535	1.531	0.0939	6.133
Nickel	62	0.6879	0.8477	0.8306	0.7887	0.0877	11.13
Selenium	77	0.4783	0.4338	0.4542	0.4554	0.0223	4.896
Selenium	78	0.9858	0.9573	0.4608	0.8013	0.2952	36.84
Selenium	82	0.6137	0.9858	1.282	0.9604	0.3347	34.85
Silver	107	-0.0004	0.0003	-0.0008	-0.0003	0.0005	202.3
Silver	109	0.0006	-0.0022	-0.0012	-0.0009	0.0014	148.9
Thallium	203	0.0145	0.0187	0.0176	0.0169	0.0022	12.98
Thallium	205	0.0167	0.0157	0.0143	0.0156	0.0012	7.715
Tin	118	0.0111	0.0113	0.0171	0.0132	0.0034	25.97
Tin	120	0.0114	0.0197	0.0064	0.0125	0.0067	53.83
Vanadium	51	1.894	1.909	1.827	1.877	0.0436	2.322
Zinc	66	13.55	14.23	12.93	13.57	0.6478	4.774
Zinc	68	17.07	17.55	16.29	16.97	0.6396	3.769

Internal Standard Factors:

Lithium	6	1.319	1.336	1.305	1.319	n/a	n/a
Scandium	45	1.217	1.271	1.275	1.217	n/a	n/a
Gallium	71	1.349	1.423	1.378	1.349	n/a	n/a
Rhodium	103	1.309	1.346	1.338	1.309	n/a	n/a
Indium	115	1.227	1.259	1.241	1.227	n/a	n/a
Lutetium	175	1.101	1.105	1.104	1.101	n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 05-25-10C

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #202144

Sample Name:		K1004316-008S (Pump)			Mean	SD	%RSD
TimeStamp		5/25/10 16:59					
Aluminum	27	20.82	20.85	20.82	20.83	0.0197	0.0947
Antimony	121	20.57	20.03	21.05	20.55	0.5137	2.5
Antimony	123	20.68	19.77	20.94	20.46	0.6135	2.998
Arsenic	75	21.87	21.59	21.8	21.75	0.1455	0.6688
Barium	137	212.1	206.7	217	211.9	5.152	2.431
Barium	138	221.3	207.9	211.7	213.6	6.888	3.224
Beryllium	9	21.32	19.61	19.87	20.27	0.9236	4.557
Cadmium	111	20.03	19.49	20.25	19.92	0.391	1.963
Cadmium	114	19.14	18.72	20.01	19.29	0.6608	3.426
Chromium	52	20.22	19.44	19.04	19.57	0.5984	3.058
Chromium	53	19.91	19.23	19.73	19.62	0.3513	1.791
Cobalt	59	20.17	19.81	19.28	19.75	0.4455	2.255
Copper	63	19.09	19.33	18.79	19.07	0.2709	1.421
Copper	65	19.24	18.62	18.88	18.91	0.3115	1.647
Lead	206	18.39	18.43	18.81	18.54	0.2347	1.266
Lead	207	18.51	18.82	18.65	18.66	0.1568	0.8401
Lead	208	18.57	18.6	18.69	18.62	0.06	0.3221
Manganese	55	20.88	19.64	19.83	20.12	0.6703	3.332
Molybdenum	95	22.1	22.12	22.31	22.18	0.1189	0.5361
Molybdenum	97	22.43	21.99	22.56	22.32	0.2991	1.34
Molybdenum	98	22.76	21.95	22.72	22.48	0.4595	2.044
Nickel	60	20.24	19.9	19.72	19.95	0.2617	1.311
Nickel	62	19.81	19.2	19.76	19.59	0.335	1.71
Selenium	77	21.35	20.85	19.43	20.54	0.9954	4.845
Selenium	78	21.08	20.55	21.15	20.92	0.3278	1.567
Selenium	82	20.5	21.42	20.46	20.79	0.5406	2.6
Silver	107	-0.0004	-0.0022	-0.0012	-0.0013	0.0009	69.37
Silver	109	-0.0014	-0.0026	-0.0024	-0.0021	0.0007	31.47
Thallium	203	17.65	18.16	18.14	17.98	0.291	1.618
Thallium	205	18.03	18.16	18.15	18.11	0.069	0.3808
Tin	118	0.0191	0.0141	0.0162	0.0165	0.0025	15.19
Tin	120	0.0133	0.0094	0.0136	0.0121	0.0024	19.62
Vanadium	51	21.76	21.05	20.82	21.21	0.4903	2.312
Zinc	66	32.2	31.59	31.89	31.89	0.3047	0.9553
Zinc	68	35.27	33.02	34.17	34.15	1.129	3.305

**Internal Standard
Factors:**

Lithium	6	1.301	1.263	1.27	1.301	n/a	n/a
Scandium	45	1.236	1.202	1.202	1.236	n/a	n/a
Gallium	71	1.336	1.293	1.287	1.336	n/a	n/a
Rhodium	103	1.347	1.269	1.28	1.347	n/a	n/a
Indium	115	1.265	1.18	1.204	1.265	n/a	n/a
Lutetium	175	1.192	1.129	1.105	1.192	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004316-006 (Pump)			Mean	SD	%RSD
TimeStamp		5/25/10 17:04					
Aluminum	27	0.7287	0.6892	0.6907	0.7029	0.0224	3.187
Antimony	121	0.0752	0.0812	0.0785	0.0783	0.003	3.863
Antimony	123	0.0814	0.0666	0.0667	0.0716	0.0085	11.93
Arsenic	75	0.1626	0.2795	0.2329	0.225	0.0589	26.17
Barium	137	38.7	38.86	40.01	39.19	0.713	1.819
Barium	138	38.88	38.87	39.61	39.12	0.4246	1.085
Beryllium	9	0.0047	0.0031	0.0048	0.0042	0.0009	22.38
Cadmium	111	0.0398	0.0443	0.076	0.0534	0.0198	36.99
Cadmium	114	0.066	0.0573	0.0606	0.0613	0.0044	7.183
Chromium	52	0.3386	0.3276	0.3003	0.3222	0.0197	6.118
Chromium	53	0.3652	0.3914	0.3535	0.37	0.0194	5.232
Cobalt	59	0.3486	0.3154	0.2996	0.3212	0.025	7.782
Copper	63	0.8968	0.9321	0.9204	0.9165	0.018	1.965
Copper	65	0.9632	0.9997	0.9479	0.9703	0.0266	2.744
Lead	206	0.9466	0.9352	0.9684	0.9501	0.0169	1.779
Lead	207	1.024	1.022	1.02	1.022	0.0016	0.1586
Lead	208	0.9968	0.9848	1	0.9939	0.0081	0.8162
Manganese	55	4.308	4.142	4.147	4.199	0.0948	2.257
Molybdenum	95	0.8536	0.8782	0.8834	0.8717	0.0159	1.826
Molybdenum	97	0.8557	0.8096	0.8819	0.8491	0.0366	4.311
Molybdenum	98	0.8663	0.8047	0.8815	0.8508	0.0407	4.784
Nickel	60	2.415	2.251	2.404	2.357	0.0915	3.881
Nickel	62	2.049	1.993	1.823	1.955	0.1178	6.024
Selenium	77	0.3084	0.314	0.0275	0.2166	0.1638	75.61
Selenium	78	0.3975	0.6518	0.4879	0.5124	0.1289	25.16
Selenium	82	0.4497	0.7561	0.4493	0.5517	0.1771	32.09
Silver	107	-0.0032	-0.0025	-0.0044	-0.0033	0.001	29.6
Silver	109	-0.0034	-0.0021	-0.0034	-0.0029	0.0007	24.64
Thallium	203	0.0045	0.0025	0.0063	0.0044	0.0019	43.62
Thallium	205	0.0039	0.0057	0.0091	0.0062	0.0026	41.97
Tin	118	0.1157	0.1342	0.1189	0.1229	0.0099	8.048
Tin	120	0.1157	0.116	0.1218	0.1178	0.0034	2.922
Vanadium	51	0.2269	0.2272	0.2127	0.2223	0.0083	3.736
Zinc	66	1.982	1.891	1.872	1.915	0.0588	3.072
Zinc	68	2.505	2.275	2.35	2.377	0.1172	4.93

Internal Standard Factors:

Lithium	6	1.301	1.297	1.304	1.301	n/a	n/a
Scandium	45	1.229	1.284	1.312	1.229	n/a	n/a
Gallium	71	1.298	1.314	1.305	1.298	n/a	n/a
Rhodium	103	1.284	1.271	1.268	1.284	n/a	n/a
Indium	115	1.206	1.208	1.211	1.206	n/a	n/a
Lutetium	175	1.116	1.09	1.09	1.116	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004316-006 (Lab)			Mean	SD	%RSD
TimeStamp		5/25/10 17:10					
Aluminum	27	0.7323	0.701	0.7024	0.7119	0.0177	2.484
Antimony	121	0.0403	0.0391	0.0457	0.0417	0.0035	8.366
Antimony	123	0.0421	0.0329	0.0337	0.0363	0.0051	14.07
Arsenic	75	0.0906	0.2806	0.1371	0.1694	0.099	58.46
Barium	137	38.6	37.92	37.73	38.08	0.46	1.208
Barium	138	38.45	38.87	38.51	38.61	0.2284	0.5916
Beryllium	9	-0.0002	0.0029	-0.0003	0.0008	0.0018	225
Cadmium	111	0.0472	0.0559	0.048	0.0504	0.0048	9.478
Cadmium	114	0.0519	0.0564	0.0525	0.0536	0.0024	4.547
Chromium	52	0.2766	0.2905	0.2843	0.2838	0.007	2.455
Chromium	53	0.369	0.4154	0.3336	0.3727	0.041	11
Cobalt	59	0.1681	0.1639	0.1736	0.1685	0.0049	2.902
Copper	63	1.109	1.093	1.114	1.105	0.0109	0.9824
Copper	65	1.077	1.134	1.119	1.11	0.0296	2.668
Lead	206	1.043	0.9909	1.016	1.017	0.0262	2.578
Lead	207	1.073	1.089	1.123	1.095	0.0256	2.338
Lead	208	1.052	1.052	1.082	1.062	0.0174	1.639
Manganese	55	3.825	3.878	3.8	3.834	0.0402	1.048
Molybdenum	95	0.7878	0.8207	0.853	0.8205	0.0326	3.973
Molybdenum	97	0.8624	0.8212	0.8546	0.8461	0.0219	2.588
Molybdenum	98	0.8571	0.8374	0.8308	0.8418	0.0137	1.631
Nickel	60	2.432	2.406	2.353	2.397	0.0401	1.673
Nickel	62	1.283	2.005	2.065	1.784	0.4353	24.39
Selenium	77	0.13	0.1781	0.2692	0.1924	0.0707	36.75
Selenium	78	0.6678	0.2711	0.5682	0.5024	0.2064	41.08
Selenium	82	0.0996	0.7239	0.3481	0.3905	0.3143	80.48
Silver	107	-0.0044	-0.003	-0.0025	-0.0033	0.001	30.45
Silver	109	-0.0039	-0.0034	-0.0024	-0.0032	0.0008	23.49
Thallium	203	0.0024	0.0016	0.0011	0.0017	0.0007	41.1
Thallium	205	0.0032	0.0016	0.0011	0.002	0.0011	55.68
Tin	118	0.1183	0.1199	0.1082	0.1155	0.0063	5.478
Tin	120	0.1266	0.1251	0.1038	0.1185	0.0127	10.74
Vanadium	51	0.1988	0.2028	0.2147	0.2054	0.0082	4.006
Zinc	66	2.352	2.414	2.401	2.389	0.0325	1.361
Zinc	68	3.051	2.94	2.935	2.975	0.0656	2.206

Internal Standard Factors:

Lithium	6	1.241	1.249	1.223	1.241 n/a	n/a
Scandium	45	1.198	1.285	1.271	1.198 n/a	n/a
Gallium	71	1.253	1.278	1.306	1.253 n/a	n/a
Rhodium	103	1.25	1.252	1.263	1.25 n/a	n/a
Indium	115	1.202	1.19	1.185	1.202 n/a	n/a
Lutetium	175	1.09	1.091	1.082	1.09 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004316-008 (Lab)			Mean	SD	%RSD
TimeStamp		5/25/10 17:15					
Aluminum	27	1.44	1.465	1.527	1.477	0.0445	3.014
Antimony	121	0.5616	0.5588	0.5823	0.5676	0.0128	2.26
Antimony	123	0.5606	0.58	0.5588	0.5665	0.0118	2.08
Arsenic	75	1.168	1.1	1.281	1.183	0.0913	7.714
Barium	137	197.6	202	199	199.5	2.221	1.113
Barium	138	214.7	210.9	198.6	208.1	8.392	4.033
Beryllium	9	0.0006	0.0037	0.002	0.0021	0.0016	73.39
Cadmium	111	0.2625	0.2767	0.272	0.2704	0.0072	2.673
Cadmium	114	0.2696	0.2673	0.2736	0.2702	0.0032	1.185
Chromium	52	0.5041	0.5191	0.5114	0.5116	0.0075	1.468
Chromium	53	0.5931	0.5188	0.5933	0.5684	0.043	7.559
Cobalt	59	0.0638	0.0588	0.0606	0.0611	0.0025	4.134
Copper	63	0.9068	0.9202	0.9334	0.9201	0.0133	1.442
Copper	65	0.6448	0.6606	0.641	0.6488	0.0104	1.604
Lead	206	0.5013	0.4555	0.4715	0.4761	0.0232	4.879
Lead	207	0.4593	0.5265	0.5284	0.5047	0.0393	7.795
Lead	208	0.491	0.4947	0.4928	0.4928	0.0019	0.384
Manganese	55	0.3821	0.3782	0.3845	0.3816	0.0032	0.8273
Molybdenum	95	0.4464	0.4698	0.4373	0.4512	0.0167	3.705
Molybdenum	97	0.4679	0.4715	0.4423	0.4606	0.0159	3.458
Molybdenum	98	0.4135	0.456	0.465	0.4448	0.0275	6.186
Nickel	60	1.628	1.509	1.475	1.537	0.0806	5.246
Nickel	62	0.4814	0.4668	0.4435	0.4639	0.0191	4.119
Selenium	77	0.151	0.1584	0.3821	0.2305	0.1314	57
Selenium	78	0.6209	0.738	0.3342	0.5644	0.2078	36.82
Selenium	82	0.7191	0.4571	1.018	0.7313	0.2805	38.36
Silver	107	-0.0014	-0.0022	-0.0044	-0.0027	0.0015	58.03
Silver	109	-0.0046	-0.0033	-0.0036	-0.0039	0.0007	17.15
Thallium	203	0.0142	0.0179	0.0094	0.0139	0.0043	30.82
Thallium	205	0.0154	0.0149	0.0181	0.0161	0.0017	10.59
Tin	118	0.0191	0.0184	0.0139	0.0171	0.0029	16.66
Tin	120	0.0125	0.0169	0.008	0.0125	0.0044	35.61
Vanadium	51	1.818	1.863	1.778	1.82	0.0425	2.333
Zinc	66	12.85	12.6	12.63	12.69	0.138	1.088
Zinc	68	15.69	15.9	15.96	15.85	0.1401	0.884

Internal Standard Factors:

Lithium	6	1.268	1.264	1.235	1.268	n/a	n/a
Scandium	45	1.158	1.17	1.148	1.158	n/a	n/a
Gallium	71	1.249	1.271	1.286	1.249	n/a	n/a
Rhodium	103	1.284	1.282	1.278	1.284	n/a	n/a
Indium	115	1.223	1.211	1.189	1.223	n/a	n/a
Lutetium	175	1.104	1.075	1.068	1.104	n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 05-25-10C

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #202144

Sample Name:		K1004316-Filter Blank			Mean	SD	%RSD
TimeStamp		5/25/10 17:20					
Aluminum	27	10.03	9.578	9.678	9.762	0.2372	2.43
Antimony	121	0.0002	0.0001	-0.0019	-0.0006	0.0012	212.7
Antimony	123	-0.0004	-0.0013	-0.0022	-0.0013	0.0009	70.92
Arsenic	75	0.005	-0.0975	0.0556	-0.0123	0.078	634.7
Barium	137	0.1209	0.1386	0.1305	0.13	0.0088	6.808
Barium	138	0.1199	0.1409	0.1261	0.129	0.0108	8.375
Beryllium	9	-0.002	-0.0007	-0.0008	-0.0011	0.0007	61.6
Cadmium	111	0.0059	0.0014	0.0041	0.0038	0.0023	59.65
Cadmium	114	0.0014	0.0017	0.0013	0.0015	0.0002	13.82
Chromium	52	0.0417	0.0361	0.0412	0.0397	0.0031	7.894
Chromium	53	0.1222	0.0866	0.0926	0.1005	0.019	18.94
Cobalt	59	0.0025	0.0023	-0.0005	0.0014	0.0017	114.6
Copper	63	0.1367	0.1304	0.1268	0.1313	0.005	3.813
Copper	65	0.1423	0.1018	0.1423	0.1288	0.0234	18.13
Lead	206	0.0123	0.0071	0.0064	0.0086	0.0032	37.49
Lead	207	0.0078	0.0056	0.0121	0.0085	0.0033	39.03
Lead	208	0.0099	0.0067	0.0082	0.0082	0.0016	19.64
Manganese	55	0.0669	0.066	0.0695	0.0675	0.0018	2.709
Molybdenum	95	-0.0016	0.0017	0.0016	0.0006	0.0019	330.9
Molybdenum	97	0.0025	0.0047	0.0066	0.0046	0.0021	44.28
Molybdenum	98	0.0033	0.0033	0.0021	0.0029	0.0007	25.01
Nickel	60	0.032	0.029	0.0173	0.0261	0.0078	29.81
Nickel	62	-0.0589	0.0502	0.0712	0.0208	0.0699	335.8
Selenium	77	-0.005	0.0171	0.1205	0.0442	0.067	151.5
Selenium	78	0.3116	0.0878	0.1473	0.1822	0.1159	63.61
Selenium	82	-0.0154	-0.2863	0.2538	-0.016	0.2701	1693
Silver	107	-0.0008	-0.0032	-0.0029	-0.0023	0.0013	57.08
Silver	109	-0.0029	-0.0013	-0.0039	-0.0027	0.0013	48.4
Thallium	203	-0.0004	-0.001	-0.0012	-0.0008	0.0004	47.52
Thallium	205	-0.0001	-0.0006	-0.0003	-0.0004	0.0002	68.15
Tin	118	0.0145	0.015	0.0098	0.0131	0.0029	21.94
Tin	120	0.0086	0.0096	0.0075	0.0085	0.0011	12.57
Vanadium	51	-0.011	-0.0009	0.0016	-0.0034	0.0067	194.4
Zinc	66	6.778	6.673	6.844	6.765	0.0859	1.269
Zinc	68	6.545	6.812	6.673	6.677	0.1333	1.997

Internal Standard Factors:

Lithium	6	1.089	1.044	1.03	1.089	n/a	n/a
Scandium	45	0.982	0.968	0.983	0.982	n/a	n/a
Gallium	71	0.953	0.971	0.971	0.953	n/a	n/a
Rhodium	103	0.962	0.978	0.955	0.962	n/a	n/a
Indium	115	0.988	0.976	0.974	0.988	n/a	n/a
Lutetium	175	1.014	0.968	0.983	1.014	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004316-001			Mean	SD	%RSD
TimeStamp		5/25/10 17:25					
Aluminum	27	0.2269	0.2425	0.2829	0.2508	0.0289	11.52
Antimony	121	0.0152	0.0143	0.0191	0.0162	0.0025	15.74
Antimony	123	0.021	0.0202	0.0149	0.0187	0.0033	17.71
Arsenic	75	-0.0538	-0.0932	0.0837	-0.0211	0.0929	440.4
Barium	137	0.0112	0.0142	0.0274	0.0176	0.0086	48.95
Barium	138	0.0157	0.02	0.0215	0.019	0.003	15.8
Beryllium	9	0.0031	-0.0008	0.0006	0.001	0.002	209
Cadmium	111	0.0031	0.0014	0.0041	0.0028	0.0014	48.24
Cadmium	114	-0.0006	0.0009	-0.0005	-0.0001	0.0008	1159
Chromium	52	0.0533	0.0598	0.0595	0.0575	0.0037	6.452
Chromium	53	0.0351	0.0615	0.0315	0.0427	0.0164	38.37
Cobalt	59	0.0434	0.0539	0.0579	0.0517	0.0075	14.5
Copper	63	0.0662	0.0595	0.0605	0.0621	0.0037	5.895
Copper	65	0.022	0.0379	0.0238	0.0279	0.0087	31.14
Lead	206	0.0147	0.0131	0.0195	0.0158	0.0033	20.94
Lead	207	0.025	0.0192	0.0195	0.0213	0.0033	15.5
Lead	208	0.0205	0.0154	0.017	0.0176	0.0026	14.7
Manganese	55	0.179	0.1875	0.1808	0.1825	0.0045	2.449
Molybdenum	95	0.0009	0.005	0.0024	0.0028	0.0021	75.16
Molybdenum	97	0.0085	0.0067	0.0067	0.0073	0.001	14.06
Molybdenum	98	0.0048	0.0053	0.0061	0.0054	0.0007	12.51
Nickel	60	-0.0097	-0.0053	0.0407	0.0086	0.0279	325.4
Nickel	62	-0.111	-0.0698	-0.0101	-0.0636	0.0507	79.72
Selenium	77	0.049	-0.0715	0.0328	0.0034	0.0654	1907
Selenium	78	0.2429	0.2955	0.3745	0.3043	0.0662	21.77
Selenium	82	-0.1417	-0.3522	0.2665	-0.0758	0.3146	415
Silver	107	-0.0028	-0.002	-0.0042	-0.003	0.0011	37.95
Silver	109	-0.0041	-0.0032	-0.0025	-0.0033	0.0008	24.55
Thallium	203	0	0.0003	-0.0007	-0.0001	0.0005	429.4
Thallium	205	-0.0007	-0.0011	-0.0011	-0.001	0.0002	23.38
Tin	118	0.0027	0.004	-0.0001	0.0022	0.002	93.5
Tin	120	0.0017	0.0019	0.0024	0.002	0.0003	17.44
Vanadium	51	0.0166	0.0091	0.0216	0.0158	0.0063	39.88
Zinc	66	1.186	1.229	1.159	1.191	0.0355	2.982
Zinc	68	1.113	1.139	1.153	1.135	0.0205	1.807

Internal Standard Factors:

Lithium	6	1.045	1.002	1.044	1.045 n/a	n/a
Scandium	45	0.944	0.961	0.972	0.944 n/a	n/a
Gallium	71	0.942	0.982	0.976	0.942 n/a	n/a
Rhodium	103	0.946	0.963	0.964	0.946 n/a	n/a
Indium	115	0.955	0.956	0.966	0.955 n/a	n/a
Lutetium	175	0.974	0.978	0.986	0.974 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004316-001 1/5L			Mean	SD	%RSD
TimeStamp		5/25/10 17:29					
Aluminum	27	0.1624	0.1673	0.1546	0.1615	0.0064	3.959
Antimony	121	0.0002	-0.0014	-0.0011	-0.0008	0.0008	108.2
Antimony	123	-0.0002	-0.0014	0.0011	-0.0002	0.0013	678.8
Arsenic	75	0.0302	0.0546	0.0808	0.0552	0.0253	45.81
Barium	137	0.0004	0.0034	0.0011	0.0016	0.0016	95.21
Barium	138	0.0057	0.0076	0.0101	0.0078	0.0022	27.91
Beryllium	9	0.001	-0.0008	-0.0014	-0.0004	0.0012	302.6
Cadmium	111	0.0039	-0.0022	0.0048	0.0022	0.0038	174.7
Cadmium	114	0.0004	-0.0006	0.0001	0	0.0005	2991
Chromium	52	0.0038	-0.0294	0.0082	-0.0058	0.0206	356.2
Chromium	53	0.0464	0.0207	0.0342	0.0338	0.0129	38.03
Cobalt	59	0.0111	0.0111	0.0101	0.0108	0.0006	5.287
Copper	63	0.0251	0.0098	0.0174	0.0174	0.0077	44.02
Copper	65	-0.008	0.0051	-0.002	-0.0017	0.0066	399.9
Lead	206	-0.0059	-0.0055	-0.0028	-0.0047	0.0017	35.06
Lead	207	0.0011	-0.001	-0.0038	-0.0012	0.0025	201
Lead	208	-0.0047	-0.0028	-0.0043	-0.0039	0.001	25.53
Manganese	55	0.035	0.033	0.0336	0.0339	0.001	3.027
Molybdenum	95	0.0015	-0.0004	-0.0004	0.0003	0.0011	407.1
Molybdenum	97	0.0003	0.0055	0.0045	0.0034	0.0027	79.37
Molybdenum	98	0.0004	0.0024	0.0005	0.0011	0.0011	103.7
Nickel	60	-0.0515	0.0057	-0.0179	-0.0213	0.0288	135.4
Nickel	62	0.0393	0.0769	-0.0381	0.026	0.0586	225.3
Selenium	77	-0.0568	-0.1255	0.0087	-0.0579	0.0671	115.9
Selenium	78	0.1589	0.1283	0.0549	0.114	0.0535	46.88
Selenium	82	0.0368	0.0586	0.2501	0.1152	0.1173	101.9
Silver	107	-0.001	-0.0013	-0.0028	-0.0017	0.001	57.22
Silver	109	-0.003	-0.0038	-0.0032	-0.0033	0.0004	11.8
Thallium	203	-0.0007	-0.0009	-0.0005	-0.0007	0.0002	33.43
Thallium	205	-0.0004	-0.0009	-0.0006	-0.0007	0.0002	37.14
Tin	118	0.0002	-0.0019	0.0092	0.0025	0.0059	236.7
Tin	120	-0.0043	-0.0005	-0.0028	-0.0026	0.0019	74.9
Vanadium	51	-0.0028	-0.0015	-0.0008	-0.0017	0.001	59.68
Zinc	66	0.0878	0.0697	0.0931	0.0835	0.0123	14.66
Zinc	68	0.0756	0.0334	0.0233	0.0441	0.0278	62.94

Internal Standard Factors:

Lithium	6	0.988	1.005	1.02	0.988 n/a	n/a
Scandium	45	0.968	0.949	0.97	0.968 n/a	n/a
Gallium	71	0.931	0.946	0.952	0.931 n/a	n/a
Rhodium	103	0.941	0.949	0.948	0.941 n/a	n/a
Indium	115	0.94	0.947	0.948	0.94 n/a	n/a
Lutetium	175	0.969	0.989	0.965	0.969 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004316-001 +20A			Mean	SD	%RSD
TimeStamp		5/25/10 17:34					
Aluminum	27	21.21	21.15	20.99	21.12	0.1123	0.5317
Antimony	121	20.53	20.67	20.69	20.63	0.0854	0.4138
Antimony	123	20.24	20.7	20.79	20.58	0.2951	1.434
Arsenic	75	20.58	20.25	21.23	20.69	0.4977	2.406
Barium	137	19.95	19.91	19.58	19.81	0.204	1.03
Barium	138	19.97	19.9	19.89	19.92	0.0445	0.2232
Beryllium	9	22.7	22.42	22.08	22.4	0.3078	1.374
Cadmium	111	20.8	20.8	20.86	20.82	0.0359	0.1724
Cadmium	114	20.57	20.68	20.58	20.61	0.0639	0.31
Chromium	52	19.99	19.74	19.94	19.89	0.1351	0.6791
Chromium	53	19.55	19.74	19.52	19.61	0.1192	0.6081
Cobalt	59	19.5	19.68	19.91	19.7	0.2083	1.058
Copper	63	20.44	19.77	20.17	20.13	0.3354	1.667
Copper	65	20.11	20.24	20.31	20.22	0.1028	0.5083
Lead	206	19.54	19.68	19.67	19.63	0.0784	0.3994
Lead	207	20.09	19.89	19.81	19.93	0.143	0.7174
Lead	208	19.68	19.78	19.8	19.75	0.063	0.3189
Manganese	55	20.18	19.59	20.01	19.93	0.3029	1.52
Molybdenum	95	19.5	19.99	20.13	19.88	0.3329	1.675
Molybdenum	97	19.86	20.01	19.89	19.92	0.0784	0.3934
Molybdenum	98	19.42	19.86	19.91	19.73	0.2715	1.376
Nickel	60	20.22	19.65	20.35	20.07	0.3712	1.85
Nickel	62	20.71	20.09	20.77	20.53	0.3748	1.826
Selenium	77	21.42	21.35	20.92	21.23	0.268	1.262
Selenium	78	21.08	21.12	23.32	21.84	1.283	5.872
Selenium	82	21.56	20.24	21.43	21.08	0.7308	3.467
Silver	107	19.95	20.05	19.84	19.95	0.1027	0.5147
Silver	109	20.06	20.09	20.2	20.12	0.0712	0.354
Thallium	203	19.77	20	20.12	19.96	0.1764	0.8835
Thallium	205	20.08	19.73	19.85	19.89	0.1797	0.9035
Tin	118	19.31	19.37	19.35	19.34	0.0282	0.1459
Tin	120	19.15	19.2	19.38	19.24	0.1188	0.6176
Vanadium	51	20	19.87	20.34	20.07	0.2432	1.211
Zinc	66	21.43	21.7	22.06	21.73	0.3145	1.447
Zinc	68	21.17	21.27	21.78	21.4	0.3253	1.52

Internal Standard Factors:

Lithium	6	1.028	1.015	1.035	1.028	n/a	n/a
Scandium	45	0.943	0.95	0.98	0.943	n/a	n/a
Gallium	71	0.907	0.92	0.943	0.907	n/a	n/a
Rhodium	103	0.919	0.919	0.92	0.919	n/a	n/a
Indium	115	0.923	0.901	0.898	0.923	n/a	n/a
Lutetium	175	0.932	0.918	0.919	0.932	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	CCV3				Mean	SD	%RSD
TimeStamp	5/25/10 17:42						
Aluminum	27	26.24	26.97	26.14	26.45	0.4524	1.711
Antimony	121	25.27	25.19	25.18	25.21	0.0485	0.1923
Antimony	123	25.22	25.21	25.25	25.23	0.0184	0.0729
Arsenic	75	24.34	24.86	25.03	24.74	0.3596	1.453
Barium	137	24.99	25.25	25.12	25.12	0.1313	0.5227
Barium	138	25.01	25.07	24.84	24.97	0.1214	0.4863
Beryllium	9	27.72	27.08	27.06	27.29	0.3761	1.379
Cadmium	111	24.99	25.39	25.32	25.23	0.2182	0.8647
Cadmium	114	25.13	24.78	24.97	24.96	0.1715	0.6872
Chromium	52	24.93	25.37	24.51	24.94	0.4311	1.729
Chromium	53	25.55	25.33	24.62	25.17	0.487	1.935
Cobalt	59	25.1	24.85	24.61	24.85	0.2405	0.9677
Copper	63	24.87	25.39	24.29	24.85	0.5534	2.227
Copper	65	24.55	24.49	24.58	24.54	0.0472	0.1923
Lead	206	25.07	24.67	24.48	24.74	0.3038	1.228
Lead	207	25.35	24.95	24.41	24.9	0.4741	1.904
Lead	208	25.08	24.8	24.59	24.82	0.2488	1.002
Manganese	55	24.68	24.77	24.68	24.71	0.0489	0.198
Molybdenum	95	25.46	24.99	25.27	25.24	0.2358	0.9341
Molybdenum	97	25.14	25.19	25.61	25.31	0.2572	1.016
Molybdenum	98	25.25	24.78	25.18	25.07	0.2581	1.03
Nickel	60	24.73	24.69	24.43	24.62	0.1588	0.6449
Nickel	62	25.53	24.93	25.93	25.47	0.5022	1.972
Selenium	77	25.77	23.33	24.7	24.6	1.225	4.979
Selenium	78	25.98	24.57	24.82	25.12	0.7525	2.995
Selenium	82	24.54	23.39	24.05	23.99	0.5763	2.402
Silver	107	24.6	24.55	25.01	24.72	0.2533	1.025
Silver	109	24.9	24.75	24.6	24.75	0.1497	0.6047
Thallium	203	25.7	25.19	24.66	25.18	0.5231	2.077
Thallium	205	25.22	25.14	24.61	24.99	0.33	1.32
Tin	118	25.16	25.13	24.91	25.07	0.1403	0.5596
Tin	120	25.06	25.22	24.9	25.06	0.1622	0.6473
Vanadium	51	25.42	25.27	24.72	25.14	0.3719	1.479
Zinc	66	24.72	24.74	24.71	24.72	0.0151	0.0609
Zinc	68	24.71	24.74	24.16	24.54	0.327	1.333

Internal Standard Factors:

Lithium	6	1.002	1.027	1.03	1.002	n/a	n/a
Scandium	45	0.893	0.954	0.942	0.893	n/a	n/a
Gallium	71	0.876	0.908	0.934	0.876	n/a	n/a
Rhodium	103	0.903	0.905	0.925	0.903	n/a	n/a
Indium	115	0.894	0.9	0.899	0.894	n/a	n/a
Lutetium	175	0.905	0.898	0.889	0.905	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	CCB3	Mean	SD	%RSD			
TimeStamp	5/25/10 17:52						
Aluminum	27	0.2126	0.2157	0.2279	0.2187	0.0081	3.705
Antimony	121	0.003	0.0042	0.0034	0.0035	0.0006	17.31
Antimony	123	0.002	0.0067	0.0098	0.0062	0.0039	63.55
Arsenic	75	-0.0175	0.077	0.0156	0.0251	0.048	191.5
Barium	137	0.0107	0.014	0.0122	0.0123	0.0017	13.53
Barium	138	0.0096	0.0156	0.0104	0.0119	0.0033	27.46
Beryllium	9	0.0089	0.0127	0.0066	0.0094	0.0031	32.67
Cadmium	111	0.0105	0.0073	0.0083	0.0087	0.0016	18.45
Cadmium	114	0.01	0.0079	0.0087	0.0089	0.0011	12.09
Chromium	52	-0.0153	-0.0303	-0.0085	-0.018	0.0111	61.74
Chromium	53	0.0312	0.0595	0.0658	0.0522	0.0184	35.31
Cobalt	59	0.007	0.0181	0.0067	0.0106	0.0065	61.42
Copper	63	0.0527	0.0531	0.0443	0.05	0.005	9.922
Copper	65	0.0385	0.0282	0.0458	0.0375	0.0089	23.61
Lead	206	0.0052	0.0076	0.0011	0.0047	0.0033	70.04
Lead	207	0.0019	0.007	0.0052	0.0047	0.0025	54.26
Lead	208	0.003	0.0069	0.0032	0.0044	0.0022	49.66
Manganese	55	0.0203	0.0229	0.0226	0.0219	0.0014	6.568
Molybdenum	95	0.0051	0.0139	0.0101	0.0097	0.0044	45.16
Molybdenum	97	0.0051	0.0166	0.0086	0.0101	0.0059	58.38
Molybdenum	98	0.0076	0.0118	0.0084	0.0093	0.0023	24.37
Nickel	60	0.0158	0.0639	0.0329	0.0376	0.0244	64.87
Nickel	62	0.2895	0.094	0.1867	0.19	0.0978	51.47
Selenium	77	-0.0682	-0.082	-0.1794	-0.1099	0.0606	55.17
Selenium	78	0.3226	-0.0453	0.0059	0.0944	0.1993	211.1
Selenium	82	-0.1368	0.1114	-0.1555	-0.0603	0.149	247.1
Silver	107	0.0184	0.0185	0.0214	0.0194	0.0017	8.804
Silver	109	0.0161	0.0241	0.0174	0.0192	0.0043	22.55
Thallium	203	0.0054	0.0094	0.006	0.0069	0.0021	31.07
Thallium	205	0.0061	0.0092	0.0066	0.0073	0.0017	22.63
Tin	118	0.011	0.0194	0.0128	0.0144	0.0044	30.81
Tin	120	0.0116	0.0105	0.017	0.013	0.0034	26.38
Vanadium	51	0.0066	-0.0022	-0.0094	-0.0017	0.008	477.2
Zinc	66	0.0786	0.1025	0.1126	0.0979	0.0175	17.83
Zinc	68	0.1555	0.1105	0.1087	0.1249	0.0265	21.24

Internal Standard Factors:

Lithium	6	1.042	1.036	1.07	1.042	n/a	n/a
Scandium	45	0.906	0.96	1.002	0.906	n/a	n/a
Gallium	71	0.895	0.945	0.976	0.895	n/a	n/a
Rhodium	103	0.917	0.945	0.947	0.917	n/a	n/a
Indium	115	0.912	0.934	0.942	0.912	n/a	n/a
Lutetium	175	0.904	0.929	0.943	0.904	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004316-002			Mean	SD	%RSD
TimeStamp		5/25/10 17:56					
Aluminum	27	0.52	0.517	0.5731	0.5367	0.0315	5.874
Antimony	121	-0.0028	-0.003	-0.0018	-0.0025	0.0006	25.55
Antimony	123	-0.0011	-0.0027	-0.0019	-0.0019	0.0008	41.36
Arsenic	75	0.0841	0.0191	-0.008	0.0317	0.0473	149.2
Barium	137	0.0194	0.0086	0.0224	0.0168	0.0073	43.23
Barium	138	0.0167	0.0168	0.017	0.0168	0.0002	0.9349
Beryllium	9	0.0013	0.0038	0.0039	0.003	0.0015	48.4
Cadmium	111	0.003	-0.0004	0.0013	0.0013	0.0017	134.9
Cadmium	114	0.0011	0.0061	0.0015	0.0029	0.0028	97.53
Chromium	52	0.054	-0.0003	-0.0063	0.0158	0.0332	210.3
Chromium	53	0.0631	0.0576	0.0177	0.0461	0.0248	53.73
Cobalt	59	0.0044	0.0033	-0.0008	0.0023	0.0027	118.8
Copper	63	0.4443	0.3907	0.4246	0.4199	0.0271	6.454
Copper	65	0.385	0.3616	0.3568	0.3678	0.0151	4.106
Lead	206	-0.0054	-0.0012	-0.0019	-0.0028	0.0023	80.08
Lead	207	-0.0078	-0.0098	-0.0072	-0.0083	0.0014	16.79
Lead	208	-0.0065	-0.0039	-0.0052	-0.0052	0.0013	24.35
Manganese	55	0.0058	-0.0009	0.0032	0.0027	0.0034	125
Molybdenum	95	0.0036	0.0036	0.0016	0.0029	0.0011	38.81
Molybdenum	97	0.0045	0.0086	0.0025	0.0052	0.0031	60.24
Molybdenum	98	0.0048	0.0032	0.0032	0.0037	0.0009	24.31
Nickel	60	0.0464	0.0349	0.0193	0.0335	0.0136	40.62
Nickel	62	0.1939	0.11	0.133	0.1456	0.0434	29.8
Selenium	77	-0.135	-0.0886	-0.1664	-0.13	0.0392	30.13
Selenium	78	0.3685	0.1539	0.1193	0.2139	0.135	63.11
Selenium	82	0.1138	-0.0581	-0.1862	-0.0435	0.1505	345.9
Silver	107	0.0078	0.0055	0.0001	0.0045	0.0039	87.81
Silver	109	0.0044	0.0031	0.0002	0.0026	0.0021	82.84
Thallium	203	0.0023	0.0012	0.0012	0.0015	0.0007	42.67
Thallium	205	0.0012	0.0011	0.0021	0.0015	0.0006	38.62
Tin	118	-0.0019	0.007	0.0075	0.0042	0.0053	125.5
Tin	120	0.0049	0.0004	0.0057	0.0037	0.0029	77.58
Vanadium	51	0.0152	-0.0063	0.0072	0.0054	0.0108	202.6
Zinc	66	0.2095	0.1163	0.1082	0.1447	0.0563	38.92
Zinc	68	0.1804	0.1532	0.1901	0.1746	0.0191	10.97

Internal Standard
Factors:

Lithium	6	1.071	1.043	1.062	1.071	n/a	n/a
Scandium	45	0.998	0.98	0.974	0.998	n/a	n/a
Gallium	71	0.973	0.979	0.964	0.973	n/a	n/a
Rhodium	103	0.947	0.945	0.949	0.947	n/a	n/a
Indium	115	0.927	0.939	0.93	0.927	n/a	n/a
Lutetium	175	0.929	0.936	0.943	0.929	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	K1004316-003	Mean	SD	%RSD			
TimeStamp	5/25/10 18:01						
Aluminum	27	0.2638	0.3018	0.2687	0.2781	0.0207	7.424
Antimony	121	0.0169	0.0161	0.0247	0.0193	0.0047	24.6
Antimony	123	0.0158	0.0209	0.0217	0.0195	0.0032	16.53
Arsenic	75	-0.0629	-0.0046	0.0549	-0.0042	0.0589	1402
Barium	137	0.0162	0.0176	0.0135	0.0158	0.0021	13.5
Barium	138	0.0147	0.015	0.0162	0.0153	0.0008	5.052
Beryllium	9	0.002	0.0001	0.0014	0.0011	0.001	85.68
Cadmium	111	0.0021	0.0031	0.0004	0.0019	0.0013	70.58
Cadmium	114	-0.0003	-0.001	0.0012	0	0.0011	2583
Chromium	52	-0.0143	-0.0235	-0.0197	-0.0192	0.0046	24.14
Chromium	53	0.1292	0.0724	0.0699	0.0905	0.0336	37.07
Cobalt	59	0.0498	0.0454	0.0521	0.0491	0.0034	6.981
Copper	63	0.1191	0.1199	0.1343	0.1244	0.0085	6.86
Copper	65	0.1257	0.1185	0.1104	0.1182	0.0076	6.473
Lead	206	0.0164	0.0177	0.026	0.02	0.0052	26.02
Lead	207	0.0233	0.0185	0.027	0.0229	0.0042	18.51
Lead	208	0.016	0.0173	0.022	0.0184	0.0032	17.24
Manganese	55	0.1716	0.162	0.1664	0.1667	0.0048	2.87
Molybdenum	95	0.0035	0.0049	0.0044	0.0043	0.0007	17.1
Molybdenum	97	0.0034	0.0077	0.0057	0.0056	0.0021	38.12
Molybdenum	98	0.0079	0.0048	0.0073	0.0067	0.0016	24.16
Nickel	60	-0.0173	-0.0229	0.0195	-0.0069	0.023	334.4
Nickel	62	0.0971	0.1347	0.1285	0.1201	0.0202	16.8
Selenium	77	-0.0681	-0.1499	0.0719	-0.0487	0.1121	230.2
Selenium	78	0.0609	0.2317	0.2291	0.1739	0.0979	56.28
Selenium	82	-0.2464	-0.1661	0.1613	-0.0837	0.2159	257.9
Silver	107	0.0009	-0.0005	0.0002	0.0002	0.0007	380
Silver	109	-0.0009	-0.0009	-0.0008	-0.0009	0	4.735
Thallium	203	0	-0.0005	-0.001	-0.0005	0.0005	94.7
Thallium	205	-0.0001	0.0001	0.0002	0.0001	0.0001	189.8
Tin	118	0.006	0.0071	0.0092	0.0074	0.0017	22.3
Tin	120	0.0008	0.0023	0.0007	0.0012	0.0009	73.91
Vanadium	51	-0.0242	-0.0078	-0.0121	-0.0147	0.0085	57.9
Zinc	66	0.8724	0.8309	0.833	0.8455	0.0234	2.762
Zinc	68	0.8268	0.8661	0.8498	0.8476	0.0197	2.328

Internal Standard Factors:

Lithium	6	1.076	1.096	1.082	1.076	n/a	n/a
Scandium	45	0.971	0.977	0.977	0.971	n/a	n/a
Gallium	71	0.943	0.971	1	0.943	n/a	n/a
Rhodium	103	0.942	0.956	0.966	0.942	n/a	n/a
Indium	115	0.933	0.942	0.94	0.933	n/a	n/a
Lutetium	175	0.939	0.93	0.934	0.939	n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 05-25-10C

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #202144

Sample Name:		K1004316-004			Mean	SD	%RSD
TimeStamp		5/25/10 18:05					
Aluminum	27	0.1603	0.1692	0.1833	0.1709	0.0116	6.786
Antimony	121	-0.0043	-0.0034	-0.004	-0.0039	0.0005	12.33
Antimony	123	-0.0028	-0.0028	-0.0032	-0.0029	0.0002	8.432
Arsenic	75	0.0546	-0.063	-0.0042	-0.0042	0.0588	1400
Barium	137	0.0036	0.003	0.0091	0.0052	0.0033	63.57
Barium	138	0.0079	0.0103	0.0101	0.0094	0.0013	13.75
Beryllium	9	-0.002	-0.002	0.0007	-0.0011	0.0015	138.6
Cadmium	111	0.0004	0.0013	0.0047	0.0021	0.0023	107.3
Cadmium	114	0.0007	0.0011	-0.0014	0.0001	0.0013	992.7
Chromium	52	0.0072	0.0131	-0.01	0.0034	0.012	349.2
Chromium	53	0.0346	0.0726	0.0347	0.0473	0.0219	46.33
Cobalt	59	0.0058	0.0024	0.0002	0.0028	0.0028	98.78
Copper	63	0.3533	0.3831	0.3882	0.3749	0.0189	5.03
Copper	65	0.3371	0.3539	0.3495	0.3468	0.0087	2.523
Lead	206	-0.009	-0.0044	-0.0062	-0.0065	0.0023	35.49
Lead	207	-0.0076	-0.007	-0.0081	-0.0075	0.0005	7.139
Lead	208	-0.0096	-0.0077	-0.0079	-0.0084	0.0011	12.61
Manganese	55	-0.0007	-0.0018	-0.0011	-0.0012	0.0006	48.17
Molybdenum	95	-0.0017	0.0023	-0.0003	0.0001	0.002	2490
Molybdenum	97	-0.0007	0.0055	-0.0027	0.0007	0.0043	584.5
Molybdenum	98	0.0004	-0.0003	0.0005	0.0002	0.0004	243.7
Nickel	60	-0.0029	0.0245	-0.0276	-0.002	0.0261	1329
Nickel	62	0.036	0.2019	0.0449	0.0943	0.0933	99.01
Selenium	77	-0.0987	-0.0439	-0.1004	-0.081	0.0322	39.72
Selenium	78	0.0611	0.1397	0.1339	0.1116	0.0438	39.3
Selenium	82	0.0577	-0.2198	-0.113	-0.0917	0.14	152.6
Silver	107	-0.0032	0.0003	-0.0012	-0.0014	0.0018	129.7
Silver	109	-0.0008	-0.0011	0.0002	-0.0006	0.0007	119.7
Thallium	203	-0.0005	0	-0.0007	-0.0004	0.0004	92.25
Thallium	205	-0.001	-0.0007	-0.0008	-0.0008	0.0002	19.65
Tin	118	0.0018	0.0015	0.0018	0.0017	0.0002	9.688
Tin	120	-0.0025	0.0014	-0.0025	-0.0012	0.0022	184
Vanadium	51	0.0069	-0.0041	-0.0034	-0.0002	0.0061	3069
Zinc	66	-0.0266	-0.011	0.0409	0.0011	0.0353	3166
Zinc	68	0.0301	-0.0001	0.0186	0.0162	0.0152	94.02

Internal Standard

Factors:

Lithium	6	1.059	1.07	1.069	1.059 n/a	n/a
Scandium	45	0.961	0.993	0.999	0.961 n/a	n/a
Gallium	71	0.938	0.976	0.993	0.938 n/a	n/a
Rhodium	103	0.937	0.946	0.943	0.937 n/a	n/a
Indium	115	0.928	0.927	0.924	0.928 n/a	n/a
Lutetium	175	0.943	0.954	0.933	0.943 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004744-MB			Mean	SD	%RSD
TimeStamp		5/25/10 18:10					
Aluminum	27	0.1617	0.1928	0.1934	0.1826	0.0182	9.946
Antimony	121	-0.0046	-0.0024	-0.0043	-0.0038	0.0012	31.9
Antimony	123	-0.0015	-0.0052	-0.0043	-0.0037	0.0019	52.66
Arsenic	75	0.0016	-0.0326	0.018	-0.0044	0.0258	592.1
Barium	137	-0.0039	-0.0046	-0.0038	-0.0041	0.0004	10.66
Barium	138	-0.001	-0.0012	0.0007	-0.0005	0.001	214
Beryllium	9	0	0.0021	-0.0019	0.0001	0.002	2561
Cadmium	111	0.0021	-0.0004	0.0032	0.0016	0.0018	114
Cadmium	114	-0.0017	-0.0003	-0.0005	-0.0008	0.0008	90.89
Chromium	52	0.0157	-0.0089	0.0204	0.0091	0.0157	173.7
Chromium	53	0.0543	0.0174	0.0391	0.0369	0.0186	50.29
Cobalt	59	0	0.0017	0.004	0.0019	0.002	108.5
Copper	63	0.0012	0.0034	0.0012	0.0019	0.0013	66.75
Copper	65	-0.0087	-0.0143	-0.0011	-0.0081	0.0066	82.52
Lead	206	-0.0104	-0.0109	-0.0113	-0.0109	0.0004	4.095
Lead	207	-0.0101	-0.0126	-0.0098	-0.0109	0.0015	13.84
Lead	208	-0.0096	-0.0113	-0.0113	-0.0108	0.001	9.112
Manganese	55	-0.0036	-0.0058	-0.0015	-0.0036	0.0021	58.98
Molybdenum	95	-0.0017	-0.0023	-0.0009	-0.0016	0.0007	42.11
Molybdenum	97	0.0024	0.0005	0.0016	0.0015	0.001	63.69
Molybdenum	98	0.0001	0.0017	0.0013	0.001	0.0009	83.97
Nickel	60	-0.0669	0.0075	-0.0111	-0.0235	0.0387	164.6
Nickel	62	0.203	0.301	0.4042	0.3027	0.1006	33.22
Selenium	77	-0.1078	-0.086	-0.001	-0.0649	0.0565	86.96
Selenium	78	0.2725	0.0019	0.2092	0.1612	0.1416	87.82
Selenium	82	-0.0899	-0.1785	0.0297	-0.0796	0.1045	131.3
Silver	107	-0.0019	-0.0018	-0.0016	-0.0018	0.0002	9.378
Silver	109	-0.0017	-0.0005	-0.0023	-0.0015	0.001	63.7
Thallium	203	0.0002	-0.0012	0.0003	-0.0002	0.0008	344.5
Thallium	205	-0.0002	-0.0001	-0.0007	-0.0003	0.0004	113.4
Tin	118	0.0001	0.0071	-0.0011	0.002	0.0044	218.7
Tin	120	-0.0017	-0.0048	0.0011	-0.0018	0.0029	161.7
Vanadium	51	-0.0065	0.0074	0.0054	0.0021	0.0075	357.8
Zinc	66	-0.0673	-0.0812	-0.0124	-0.0536	0.0364	67.81
Zinc	68	-0.1015	-0.0395	-0.039	-0.06	0.0359	59.9

Internal Standard Factors:

Lithium	6	1.08	1.1	1.123	1.08 n/a	n/a
Scandium	45	0.975	1.009	1.018	0.975 n/a	n/a
Gallium	71	0.961	0.985	1.012	0.961 n/a	n/a
Rhodium	103	0.944	0.965	0.973	0.944 n/a	n/a
Indium	115	0.935	0.939	0.96	0.935 n/a	n/a
Lutetium	175	0.942	0.95	0.961	0.942 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	LCSW K1004744				Mean	SD	%RSD
TimeStamp	5/25/10 18:14						
Aluminum	27	22.26	21.64	22.06	21.98	0.3172	1.443
Antimony	121	20.22	20.22	20.01	20.15	0.1245	0.6178
Antimony	123	20.58	20.45	20.16	20.39	0.2143	1.051
Arsenic	75	19.91	19.86	19.14	19.64	0.4328	2.204
Barium	137	20.1	19.95	19.25	19.77	0.4503	2.278
Barium	138	20.07	20.02	20.3	20.13	0.148	0.7353
Beryllium	9	22.62	20.44	21.13	21.4	1.111	5.19
Cadmium	111	20.35	20.48	20.01	20.28	0.2385	1.176
Cadmium	114	19.86	19.63	19.3	19.59	0.2833	1.446
Chromium	52	20	20.8	20.28	20.36	0.4076	2.002
Chromium	53	20.31	19.84	19.31	19.82	0.4968	2.507
Cobalt	59	20.53	20.21	19.97	20.24	0.2839	1.403
Copper	63	20.2	19.78	19.95	19.97	0.208	1.041
Copper	65	19.78	19.8	19.27	19.61	0.3012	1.535
Lead	206	19.82	19.61	19.69	19.71	0.1044	0.5297
Lead	207	19.85	19.33	19.99	19.72	0.3472	1.761
Lead	208	19.72	19.56	19.67	19.65	0.0798	0.4059
Manganese	55	19.98	19.81	19.5	19.76	0.2458	1.244
Molybdenum	95	20.5	20.45	20.01	20.32	0.272	1.339
Molybdenum	97	20.1	20.4	20.03	20.18	0.1951	0.9667
Molybdenum	98	20.83	20.57	19.83	20.41	0.5186	2.541
Nickel	60	19.92	20.24	19.49	19.88	0.3749	1.886
Nickel	62	19.74	20.56	19.84	20.05	0.4471	2.23
Selenium	77	20.26	19.99	20.14	20.13	0.1317	0.6543
Selenium	78	21.29	20.37	19.53	20.39	0.8789	4.309
Selenium	82	20.51	19	18.86	19.45	0.9157	4.707
Silver	107	20.06	19.85	19.26	19.72	0.4114	2.085
Silver	109	19.97	19.89	19.52	19.79	0.2373	1.199
Thallium	203	20.18	19.81	20.09	20.03	0.1937	0.9671
Thallium	205	19.5	19.64	20.05	19.73	0.288	1.459
Tin	118	0.0026	0.0046	0.0084	0.0052	0.003	56.73
Tin	120	0.0013	0.0096	0.0056	0.0055	0.0042	75.84
Vanadium	51	20.12	20.39	20.39	20.3	0.1581	0.7789
Zinc	66	19.96	20.15	20.22	20.11	0.1341	0.6668
Zinc	68	19.73	19.94	18.81	19.49	0.5987	3.071

Internal Standard Factors:

Lithium	6	1.07	1.063	1.095	1.07	n/a	n/a
Scandium	45	0.973	1.009	1.018	0.973	n/a	n/a
Gallium	71	0.973	0.986	0.973	0.973	n/a	n/a
Rhodium	103	0.957	0.955	0.934	0.957	n/a	n/a
Indium	115	0.937	0.926	0.905	0.937	n/a	n/a
Lutetium	175	0.93	0.916	0.933	0.93	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004744-001			Mean	SD	%RSD
TimeStamp		5/25/10 18:21					
Aluminum	27	47.13	45.77	45.74	46.22	0.794	1.718
Antimony	121	0.1044	0.09	0.0937	0.096	0.0075	7.773
Antimony	123	0.0957	0.0857	0.0925	0.0913	0.0051	5.634
Arsenic	75	0.9476	0.9482	0.8205	0.9055	0.0736	8.125
Barium	137	35.37	35.91	35.71	35.66	0.2719	0.7624
Barium	138	35.72	36.52	35.96	36.06	0.4104	1.138
Beryllium	9	0.0124	0.0077	0.0023	0.0075	0.005	67.52
Cadmium	111	0.0555	0.0648	0.068	0.0628	0.0065	10.34
Cadmium	114	0.0552	0.0615	0.058	0.0583	0.0031	5.404
Chromium	52	1.031	1.02	0.9999	1.017	0.0157	1.547
Chromium	53	0.8646	0.9159	0.952	0.9109	0.0439	4.821
Cobalt	59	0.1246	0.1369	0.1387	0.1334	0.0077	5.779
Copper	63	0.8679	0.8972	0.879	0.8813	0.0148	1.677
Copper	65	0.6097	0.6198	0.6361	0.6219	0.0133	2.135
Lead	206	0.0629	0.0598	0.0592	0.0606	0.002	3.26
Lead	207	0.0689	0.0738	0.0668	0.0698	0.0036	5.189
Lead	208	0.0648	0.0635	0.062	0.0634	0.0014	2.273
Manganese	55	1.778	1.723	1.687	1.73	0.046	2.657
Molybdenum	95	2.273	2.122	2.208	2.201	0.0759	3.447
Molybdenum	97	2.236	2.226	2.146	2.203	0.0495	2.245
Molybdenum	98	2.196	2.222	2.22	2.213	0.0142	0.6432
Nickel	60	1.152	1.03	0.9613	1.048	0.0964	9.203
Nickel	62	0.5774	0.7702	0.5586	0.6354	0.1171	18.43
Selenium	77	0.3433	0.1501	0.3021	0.2652	0.1018	38.37
Selenium	78	0.8388	0.6244	0.5763	0.6798	0.1397	20.55
Selenium	82	0.5145	0.4693	0.1352	0.373	0.2072	55.55
Silver	107	0.0031	0.0015	0.0029	0.0025	0.0009	35.94
Silver	109	0.0016	0.001	0.0038	0.0022	0.0015	68.06
Thallium	203	0.0046	0.007	0.006	0.0059	0.0012	20.54
Thallium	205	0.0047	0.0035	0.0049	0.0044	0.0008	17.7
Tin	118	0.1046	0.0875	0.0847	0.0923	0.0108	11.66
Tin	120	0.0933	0.0991	0.099	0.0971	0.0033	3.409
Vanadium	51	8.217	8.182	7.987	8.129	0.1242	1.528
Zinc	66	1.195	1.048	1.099	1.114	0.0747	6.7
Zinc	68	1.999	1.805	1.848	1.884	0.1014	5.384

Internal Standard Factors:

Lithium	6	1.286	1.282	1.306	1.286 n/a	n/a
Scandium	45	0.977	1.074	1.096	0.977 n/a	n/a
Gallium	71	1.131	1.219	1.22	1.131 n/a	n/a
Rhodium	103	1.123	1.166	1.179	1.123 n/a	n/a
Indium	115	1.056	1.093	1.089	1.056 n/a	n/a
Lutetium	175	0.995	1.011	1.011	0.995 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004744-001D			Mean	SD	%RSD
TimeStamp		5/25/10 18:27					
Aluminum	27	52.58	50.41	50.97	51.32	1.125	2.192
Antimony	121	0.091	0.0979	0.0861	0.0917	0.0059	6.448
Antimony	123	0.0905	0.1004	0.1033	0.098	0.0067	6.836
Arsenic	75	0.955	0.9883	0.9725	0.972	0.0167	1.715
Barium	137	36.22	35.51	35.64	35.79	0.3771	1.054
Barium	138	36.08	35.28	35.53	35.63	0.4129	1.159
Beryllium	9	0.0095	0.0122	0.0179	0.0132	0.0042	32.13
Cadmium	111	0.0506	0.0595	0.0447	0.0516	0.0075	14.45
Cadmium	114	0.0596	0.0575	0.0488	0.0553	0.0057	10.33
Chromium	52	0.9538	0.9002	0.8922	0.9154	0.0335	3.66
Chromium	53	0.8789	0.8943	0.8894	0.8875	0.0079	0.8884
Cobalt	59	0.1277	0.1285	0.1283	0.1282	0.0004	0.3159
Copper	63	0.8647	0.8872	0.8451	0.8657	0.0211	2.432
Copper	65	0.6351	0.6456	0.6151	0.6319	0.0155	2.452
Lead	206	0.0602	0.063	0.0635	0.0623	0.0018	2.852
Lead	207	0.0724	0.0724	0.0655	0.0701	0.004	5.677
Lead	208	0.0651	0.0672	0.0634	0.0652	0.0019	2.873
Manganese	55	1.751	1.738	1.699	1.729	0.0271	1.565
Molybdenum	95	2.208	2.154	2.17	2.177	0.0278	1.278
Molybdenum	97	2.304	2.198	2.074	2.192	0.115	5.248
Molybdenum	98	2.239	2.171	2.135	2.182	0.0525	2.405
Nickel	60	1.084	0.9877	1.074	1.049	0.053	5.051
Nickel	62	0.4943	0.7344	0.5584	0.5957	0.1243	20.87
Selenium	77	0.2818	0.2727	0.185	0.2465	0.0535	21.7
Selenium	78	0.6272	0.7448	0.5964	0.6561	0.0784	11.94
Selenium	82	0.3399	0.4898	0.4797	0.4364	0.0838	19.2
Silver	107	-0.0008	0.0004	0.0023	0.0006	0.0015	248
Silver	109	0.0008	-0.0018	-0.0025	-0.0011	0.0017	149.1
Thallium	203	0.0024	0.0031	0.0016	0.0024	0.0007	31.06
Thallium	205	0.0034	0.0034	0.0024	0.0031	0.0006	18.89
Tin	118	0.1015	0.1008	0.0991	0.1005	0.0012	1.225
Tin	120	0.0956	0.0972	0.0946	0.0958	0.0013	1.378
Vanadium	51	8.192	7.791	7.942	7.975	0.2028	2.543
Zinc	66	1.271	1.279	1.172	1.241	0.0597	4.816
Zinc	68	1.975	1.898	1.87	1.914	0.0546	2.85

Internal Standard Factors:

Lithium	6	1.315	1.338	1.33	1.315	n/a	n/a
Scandium	45	1.039	1.08	1.091	1.039	n/a	n/a
Gallium	71	1.18	1.241	1.214	1.18	n/a	n/a
Rhodium	103	1.157	1.171	1.155	1.157	n/a	n/a
Indium	115	1.105	1.088	1.082	1.105	n/a	n/a
Lutetium	175	1.017	1	1.01	1.017	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004744-001S			Mean	SD	%RSD
TimeStamp		5/25/10 18:32					
Aluminum	27	72.38	70.06	68.95	70.46	1.749	2.482
Antimony	121	20.81	21.12	20.31	20.75	0.4124	1.987
Antimony	123	20.74	21.36	20.37	20.82	0.4984	2.393
Arsenic	75	22.85	21.36	22.41	22.21	0.7642	3.441
Barium	137	57.02	58.12	55.93	57.02	1.095	1.921
Barium	138	56.69	57.18	56.51	56.79	0.3476	0.612
Beryllium	9	21.47	21.2	20.34	21	0.5889	2.804
Cadmium	111	20.8	20.64	20.36	20.6	0.223	1.082
Cadmium	114	19.51	20.02	19.18	19.57	0.4212	2.152
Chromium	52	19.9	19.55	19.99	19.82	0.2313	1.167
Chromium	53	19.76	19.91	18.86	19.51	0.5664	2.903
Cobalt	59	19.25	19.44	19.21	19.3	0.1197	0.6204
Copper	63	19.41	19.55	19.28	19.42	0.1358	0.6993
Copper	65	19.13	18.65	19.31	19.03	0.3396	1.785
Lead	206	18.67	19.1	18.54	18.77	0.2947	1.57
Lead	207	18.69	18.83	19.17	18.9	0.2473	1.308
Lead	208	18.75	18.96	18.72	18.81	0.1274	0.6772
Manganese	55	20.87	20.47	20.37	20.57	0.2674	1.3
Molybdenum	95	24.23	24.88	24.18	24.43	0.3917	1.603
Molybdenum	97	24.67	24.93	24.74	24.78	0.1323	0.534
Molybdenum	98	24.52	25.18	24.07	24.59	0.5574	2.267
Nickel	60	19.47	19.01	19.68	19.39	0.3384	1.746
Nickel	62	20.46	19.49	18.7	19.55	0.8827	4.515
Selenium	77	20.93	21.43	21.01	21.12	0.272	1.287
Selenium	78	21.38	21.64	21.33	21.45	0.1688	0.787
Selenium	82	22.25	20.15	22.33	21.58	1.235	5.726
Silver	107	19.38	19.78	19.2	19.46	0.2949	1.516
Silver	109	19.07	19.81	19.16	19.34	0.4071	2.105
Thallium	203	19	19.46	19.07	19.17	0.2508	1.308
Thallium	205	19.2	19.03	19.43	19.22	0.2027	1.055
Tin	118	0.1061	0.1121	0.1102	0.1094	0.0031	2.801
Tin	120	0.1043	0.1008	0.1055	0.1035	0.0024	2.353
Vanadium	51	27.48	27.01	27.39	27.29	0.2484	0.9103
Zinc	66	20.72	20.18	20.64	20.51	0.2901	1.414
Zinc	68	21.18	21.17	20.97	21.11	0.1215	0.5754

Internal Standard Factors:

Lithium	6	1.327	1.301	1.274	1.327	n/a	n/a
Scandium	45	1.03	1.062	1.054	1.03	n/a	n/a
Gallium	71	1.148	1.154	1.177	1.148	n/a	n/a
Rhodium	103	1.118	1.139	1.115	1.118	n/a	n/a
Indium	115	1.058	1.07	1.026	1.058	n/a	n/a
Lutetium	175	0.989	0.994	0.985	0.989	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	CCV4	Mean	SD	%RSD			
TimeStamp	5/25/10 18:41						
Aluminum	27	27.25	27	26.38	26.87	0.4484	1.668
Antimony	121	25.18	25.36	25.17	25.24	0.1053	0.4173
Antimony	123	25.43	25.35	24.97	25.25	0.2442	0.9669
Arsenic	75	25.32	24.74	25.22	25.09	0.3111	1.24
Barium	137	25.23	25.07	24.79	25.03	0.2234	0.8926
Barium	138	25.23	25.17	24.81	25.07	0.2246	0.8958
Beryllium	9	28.27	26.34	26.54	27.05	1.061	3.922
Cadmium	111	25.54	25.1	25.37	25.34	0.2255	0.8901
Cadmium	114	25.17	25.18	24.71	25.02	0.2705	1.081
Chromium	52	25.66	25.54	25.19	25.46	0.245	0.9622
Chromium	53	25.38	25.69	25.33	25.47	0.1954	0.7671
Cobalt	59	25.84	25.14	25.12	25.37	0.4056	1.599
Copper	63	25.24	25.11	25.45	25.27	0.1695	0.6708
Copper	65	24.7	24.53	25.22	24.82	0.3597	1.449
Lead	206	24.86	24.71	24.74	24.77	0.0795	0.3208
Lead	207	25.11	25.28	24.91	25.1	0.1835	0.731
Lead	208	24.96	25	24.91	24.96	0.046	0.1842
Manganese	55	25.64	24.89	24.86	25.13	0.4427	1.761
Molybdenum	95	25.35	25.45	24.75	25.18	0.3803	1.51
Molybdenum	97	25.52	25.31	25.04	25.29	0.2387	0.9439
Molybdenum	98	25.63	24.96	24.67	25.09	0.4917	1.96
Nickel	60	25.13	25.12	25.47	25.24	0.1995	0.7906
Nickel	62	25.91	25.83	26.24	25.99	0.2163	0.832
Selenium	77	24.52	25	26.38	25.3	0.9687	3.829
Selenium	78	24.94	24.94	25.79	25.22	0.4884	1.936
Selenium	82	24.43	23.57	25.7	24.56	1.071	4.358
Silver	107	25.01	24.45	24.68	24.71	0.2778	1.124
Silver	109	24.82	24.58	24.64	24.68	0.1257	0.5093
Thallium	203	25.19	25.42	25.07	25.23	0.1769	0.7013
Thallium	205	24.95	25.18	25.19	25.11	0.1349	0.5374
Tin	118	25.44	24.83	24.92	25.06	0.3267	1.304
Tin	120	25.29	25.36	24.87	25.17	0.2693	1.07
Vanadium	51	25.96	25.72	24.76	25.48	0.6374	2.502
Zinc	66	25.17	24.12	25.26	24.85	0.6366	2.562
Zinc	68	24.62	24.76	25.05	24.81	0.2199	0.8862

Internal Standard Factors:

Lithium	6	1.08	1.021	1.018	1.08	n/a	n/a
Scandium	45	0.885	0.945	0.953	0.885	n/a	n/a
Gallium	71	0.863	0.906	0.935	0.863	n/a	n/a
Rhodium	103	0.878	0.883	0.912	0.878	n/a	n/a
Indium	115	0.872	0.873	0.896	0.872	n/a	n/a
Lutetium	175	0.869	0.865	0.882	0.869	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	CCB4	Mean	SD	%RSD			
TimeStamp	5/25/10 18:56						
Aluminum	27	0.2263	0.2389	0.3138	0.2597	0.0473	18.22
Antimony	121	0.0077	0.0061	0.0053	0.0064	0.0013	19.76
Antimony	123	0.002	0.0066	0.0063	0.005	0.0026	52.43
Arsenic	75	-0.0236	-0.038	-0.0217	-0.0278	0.0089	32.19
Barium	137	0.0145	0.0104	0.0162	0.0137	0.003	21.71
Barium	138	0.0123	0.0125	0.0112	0.012	0.0007	5.655
Beryllium	9	0.0056	0.0081	0.0038	0.0058	0.0021	36.71
Cadmium	111	0.0155	0.0128	0.0068	0.0117	0.0045	38.28
Cadmium	114	0.0085	0.0089	0.0068	0.0081	0.0011	13.46
Chromium	52	0.0077	-0.0003	0.0103	0.0059	0.0056	94.45
Chromium	53	0.0711	0.0501	0.0663	0.0625	0.011	17.56
Cobalt	59	0.0052	0.0087	0.0096	0.0079	0.0023	29.29
Copper	63	0.076	0.0782	0.0708	0.075	0.0038	5.091
Copper	65	0.0304	0.0507	0.0568	0.046	0.0138	30.08
Lead	206	0.0069	0.0047	0.0063	0.006	0.0011	18.77
Lead	207	0.0044	0.008	0.008	0.0068	0.0021	30.71
Lead	208	0.0066	0.0063	0.0056	0.0062	0.0005	8.607
Manganese	55	0.0226	0.0225	0.0157	0.0203	0.004	19.73
Molybdenum	95	0.0108	0.0167	0.0085	0.012	0.0043	35.51
Molybdenum	97	0.019	0.0107	0.01	0.0132	0.005	37.64
Molybdenum	98	0.0108	0.014	0.0062	0.0103	0.0039	38.01
Nickel	60	0.0484	0.0377	0.0336	0.0399	0.0076	19.16
Nickel	62	0.081	0.2004	0.031	0.1041	0.087	83.57
Selenium	77	0.0339	-0.1111	0.0671	-0.0034	0.0948	2823
Selenium	78	0.2005	0.0315	0.3185	0.1835	0.1443	78.63
Selenium	82	-0.0682	-0.2587	-0.0258	-0.1176	0.1241	105.5
Silver	107	0.0145	0.0141	0.0093	0.0126	0.0029	23.12
Silver	109	0.014	0.0144	0.0111	0.0132	0.0018	13.65
Thallium	203	0.0112	0.0093	0.0063	0.0089	0.0025	27.84
Thallium	205	0.008	0.0062	0.0075	0.0072	0.0009	12.93
Tin	118	0.0161	0.0131	0.0103	0.0132	0.0029	22.06
Tin	120	0.0126	0.0102	0.0473	0.0234	0.0208	88.92
Vanadium	51	0.0077	0.0079	0.0065	0.0074	0.0008	10.17
Zinc	66	0.1317	0.11	0.1431	0.1283	0.0168	13.1
Zinc	68	0.1241	0.1029	0.0883	0.1051	0.018	17.13

Internal Standard Factors:

Lithium	6	1.036	1.022	1.046	1.036 n/a	n/a
Scandium	45	0.95	0.981	0.986	0.95 n/a	n/a
Gallium	71	0.937	0.942	0.985	0.937 n/a	n/a
Rhodium	103	0.962	0.96	0.974	0.962 n/a	n/a
Indium	115	0.957	0.954	0.967	0.957 n/a	n/a
Lutetium	175	0.94	0.962	0.951	0.94 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004744-002			Mean	SD	%RSD
TimeStamp		5/25/10 19:01					
Aluminum	27	232.7	232.2	235	233.3	1.477	0.6332
Antimony	121	0.1023	0.1027	0.1082	0.1044	0.0033	3.166
Antimony	123	0.1036	0.1013	0.1094	0.1048	0.0042	3.974
Arsenic	75	0.4064	0.4645	0.7717	0.5475	0.1963	35.84
Barium	137	621.2	622.8	615	619.7	4.118	0.6645
Barium	138	656.3	648.3	639	647.9	8.659	1.337
Beryllium	9	0.0147	0.0133	0.0122	0.0134	0.0013	9.489
Cadmium	111	0.0571	0.0537	0.0439	0.0515	0.0068	13.29
Cadmium	114	0.0455	0.0405	0.0447	0.0436	0.0027	6.137
Chromium	52	0.6551	0.6409	0.6688	0.6549	0.014	2.13
Chromium	53	7.243	7.652	8.269	7.721	0.5167	6.692
Cobalt	59	11.83	11.66	11.83	11.78	0.0976	0.8284
Copper	63	5.759	5.926	5.789	5.825	0.0891	1.53
Copper	65	1.486	1.51	1.471	1.489	0.0195	1.31
Lead	206	0.0954	0.0868	0.0959	0.0927	0.0051	5.492
Lead	207	0.1099	0.1185	0.113	0.1138	0.0044	3.827
Lead	208	0.1054	0.1029	0.101	0.1031	0.0022	2.136
Manganese	55	406	380.2	385.4	390.5	13.67	3.5
Molybdenum	95	17.06	17.1	16.84	17	0.1433	0.8428
Molybdenum	97	17.06	17.07	16.85	16.99	0.124	0.7299
Molybdenum	98	16.99	16.76	16.88	16.87	0.1148	0.6804
Nickel	60	8.381	8.419	8.392	8.397	0.0191	0.2279
Nickel	62	11.02	12.7	12.23	11.98	0.8659	7.228
Selenium	77	6.459	6.397	5.915	6.257	0.2979	4.761
Selenium	78	1.103	0.8301	1.105	1.013	0.1584	15.63
Selenium	82	1.211	1.361	1.415	1.329	0.1058	7.964
Silver	107	0.0094	0.0045	0.0077	0.0072	0.0025	34.44
Silver	109	0.005	0.0045	0.006	0.0052	0.0007	14.18
Thallium	203	0.0288	0.035	0.0262	0.03	0.0045	14.98
Thallium	205	0.0294	0.0352	0.033	0.0326	0.0029	9.024
Tin	118	0.0234	0.0319	0.0214	0.0256	0.0056	21.87
Tin	120	0.0305	0.0231	0.0186	0.024	0.006	24.94
Vanadium	51	1.622	1.447	1.361	1.477	0.133	9.007
Zinc	66	10.51	11.32	11.08	10.97	0.4173	3.805
Zinc	68	20.54	20.77	20.81	20.71	0.1461	0.7054

Internal Standard Factors:

Lithium	6	1.485	1.437	1.414	1.485 n/a	n/a
Scandium	45	1.087	1.074	1.088	1.087 n/a	n/a
Gallium	71	1.321	1.319	1.299	1.321 n/a	n/a
Rhodium	103	1.369	1.334	1.321	1.369 n/a	n/a
Indium	115	1.243	1.226	1.212	1.243 n/a	n/a
Lutetium	175	1.146	1.158	1.161	1.146 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004744-003			Mean	SD	%RSD
TimeStamp		5/25/10 19:06					
Aluminum	27	3.605	3.813	3.866	3.761	0.138	3.669
Antimony	121	0.0044	-0.0004	0.0027	0.0022	0.0024	107.7
Antimony	123	0.0013	0.0004	0.0015	0.0011	0.0006	55.29
Arsenic	75	-0.0814	-0.1174	-0.0116	-0.0701	0.0538	76.7
Barium	137	0.2333	0.3188	0.4342	0.3288	0.1008	30.66
Barium	138	0.2426	0.3314	0.467	0.347	0.113	32.57
Beryllium	9	-0.002	-0.0002	0.0008	-0.0005	0.0015	303.3
Cadmium	111	0.0096	0.0145	0.0094	0.0111	0.0029	25.73
Cadmium	114	0.0038	0.0051	0.0081	0.0056	0.0022	38.82
Chromium	52	0.2432	0.249	0.2897	0.2606	0.0253	9.716
Chromium	53	0.7819	0.6301	0.5244	0.6455	0.1295	20.06
Cobalt	59	0.0075	0.0111	0.0135	0.0107	0.003	28.08
Copper	63	0.2877	0.2732	0.3046	0.2885	0.0157	5.444
Copper	65	0.2592	0.2654	0.2573	0.2606	0.0042	1.63
Lead	206	0.0035	0.0033	0.0031	0.0033	0.0002	6.076
Lead	207	0.0083	0.0107	0.0107	0.0099	0.0014	14.28
Lead	208	0.0049	0.0042	0.0048	0.0046	0.0004	8.512
Manganese	55	0.5179	0.5463	0.6468	0.5704	0.0677	11.88
Molybdenum	95	0.1063	0.107	0.108	0.1071	0.0009	0.801
Molybdenum	97	0.1133	0.1213	0.1248	0.1198	0.0059	4.911
Molybdenum	98	0.1112	0.1061	0.1081	0.1085	0.0026	2.363
Nickel	60	0.1724	0.1551	0.1336	0.1537	0.0195	12.65
Nickel	62	0.3812	0.5053	0.161	0.3491	0.1744	49.94
Selenium	77	0.2141	0.177	0.0146	0.1352	0.1061	78.49
Selenium	78	0.4365	0.4775	0.3129	0.409	0.0857	20.95
Selenium	82	-0.1519	-0.2596	-0.113	-0.1748	0.0759	43.42
Silver	107	0.0137	0.0158	0.0092	0.0129	0.0033	25.93
Silver	109	0.013	0.0104	0.0139	0.0124	0.0018	14.74
Thallium	203	-0.0005	-0.0002	-0.0002	-0.0003	0.0001	45.18
Thallium	205	-0.0001	0.0004	-0.0009	-0.0002	0.0006	297.2
Tin	118	0.0284	0.0294	0.0272	0.0283	0.0011	3.878
Tin	120	0.0278	0.0375	0.026	0.0305	0.0062	20.24
Vanadium	51	0.025	0.0333	0.0672	0.0418	0.0224	53.49
Zinc	66	2.021	2.081	2.209	2.104	0.0962	4.57
Zinc	68	2.094	2.069	2.036	2.066	0.0291	1.41

Internal Standard Factors:

Lithium	6	1.022	1.006	0.954	1.022 n/a	n/a
Scandium	45	0.857	0.876	0.88	0.857 n/a	n/a
Gallium	71	0.854	0.862	0.86	0.854 n/a	n/a
Rhodium	103	0.901	0.893	0.891	0.901 n/a	n/a
Indium	115	0.918	0.906	0.898	0.918 n/a	n/a
Lutetium	175	0.958	0.964	0.953	0.958 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004744-004			Mean	SD	%RSD
TimeStamp		5/25/10 19:11					
Aluminum	27	116.4	115	116.5	115.9	0.8645	0.7456
Antimony	121	0.1186	0.1362	0.1359	0.1302	0.0101	7.76
Antimony	123	0.1164	0.1231	0.1253	0.1216	0.0046	3.81
Arsenic	75	0.4413	0.5387	0.564	0.5146	0.0648	12.58
Barium	137	80.19	81.14	79.8	80.38	0.685	0.8522
Barium	138	80.02	80.02	80.93	80.32	0.5245	0.653
Beryllium	9	0.0101	0.0115	0.0083	0.0099	0.0016	15.78
Cadmium	111	0.0351	0.0382	0.0339	0.0358	0.0022	6.2
Cadmium	114	0.022	0.0277	0.0225	0.0241	0.0031	13
Chromium	52	0.6773	0.7182	0.7158	0.7038	0.0229	3.258
Chromium	53	2.009	2.164	2.114	2.095	0.0791	3.775
Cobalt	59	2.572	2.619	2.722	2.638	0.0763	2.891
Copper	63	14.38	14.39	14.23	14.33	0.0858	0.5988
Copper	65	13.7	13.46	13.48	13.55	0.1319	0.9734
Lead	206	0.1033	0.1181	0.1148	0.1121	0.0078	6.937
Lead	207	0.1323	0.1316	0.1291	0.131	0.0017	1.276
Lead	208	0.1192	0.123	0.1207	0.121	0.0019	1.58
Manganese	55	218.4	218.3	217.1	217.9	0.7326	0.3361
Molybdenum	95	23.24	23.91	23.81	23.65	0.3598	1.521
Molybdenum	97	23.83	23.61	23.38	23.61	0.2226	0.9429
Molybdenum	98	23.25	23.51	23.62	23.46	0.1918	0.8175
Nickel	60	5.49	5.519	5.48	5.496	0.0203	0.3691
Nickel	62	4.409	4.788	4.855	4.684	0.2404	5.132
Selenium	77	0.7289	0.6406	0.7189	0.6962	0.0484	6.945
Selenium	78	0.5557	0.7293	0.6286	0.6379	0.0872	13.66
Selenium	82	-0.0614	0.3822	0.3734	0.2314	0.2536	109.6
Silver	107	0.001	0.0023	0.0021	0.0018	0.0007	38.77
Silver	109	-0.0018	-0.0017	-0.0026	-0.002	0.0005	25.23
Thallium	203	0.0062	0.0054	0.0039	0.0052	0.0012	23.31
Thallium	205	0.0048	0.0059	0.0042	0.005	0.0009	17.27
Tin	118	0.0143	0.0167	0.0188	0.0166	0.0022	13.51
Tin	120	0.0197	0.0196	0.0146	0.018	0.0029	16.06
Vanadium	51	1.283	1.278	1.277	1.279	0.0033	0.2578
Zinc	66	4.806	4.925	4.733	4.821	0.0968	2.008
Zinc	68	6.397	6.225	6.389	6.337	0.097	1.53

Internal Standard Factors:

Lithium	6	1.158	1.151	1.19	1.158	n/a	n/a
Scandium	45	0.864	0.908	0.935	0.864	n/a	n/a
Gallium	71	1.038	1.068	1.083	1.038	n/a	n/a
Rhodium	103	1.082	1.095	1.09	1.082	n/a	n/a
Indium	115	1.057	1.057	1.043	1.057	n/a	n/a
Lutetium	175	1.01	1	0.996	1.01	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004758-001			Mean	SD	%RSD
TimeStamp		5/25/10 19:16					
Aluminum	27	3.435	3.435	3.423	3.431	0.0068	0.1975
Antimony	121	0.1238	0.1176	0.117	0.1195	0.0038	3.153
Antimony	123	0.1191	0.112	0.1177	0.1163	0.0038	3.24
Arsenic	75	0.0594	0.0458	0.1485	0.0846	0.0558	65.98
Barium	137	11.33	11.11	11.11	11.18	0.1234	1.104
Barium	138	11.02	11.02	11.03	11.03	0.003	0.0275
Beryllium	9	-0.0003	0.0019	-0.0026	-0.0003	0.0023	729.9
Cadmium	111	-0.0001	0.002	0.004	0.002	0.002	103.7
Cadmium	114	0.0006	-0.0016	0.0017	0.0002	0.0017	745
Chromium	52	0.2544	0.2402	0.2688	0.2544	0.0143	5.628
Chromium	53	0.7134	0.6062	0.6648	0.6614	0.0537	8.116
Cobalt	59	2.266	2.279	2.328	2.291	0.033	1.442
Copper	63	1.504	1.554	1.584	1.547	0.0405	2.616
Copper	65	0.1058	0.0987	0.1475	0.1174	0.0264	22.48
Lead	206	-0.0089	-0.004	-0.009	-0.0073	0.0029	39.27
Lead	207	-0.0101	-0.0051	-0.0072	-0.0075	0.0025	33.73
Lead	208	-0.0102	-0.007	-0.0099	-0.009	0.0018	19.59
Manganese	55	431.6	436.9	432.8	433.8	2.773	0.6393
Molybdenum	95	0.8301	0.8535	0.8349	0.8395	0.0124	1.471
Molybdenum	97	0.8328	0.8806	0.8132	0.8422	0.0346	4.113
Molybdenum	98	0.862	0.8354	0.8543	0.8506	0.0137	1.61
Nickel	60	7.078	6.857	7.125	7.02	0.1429	2.036
Nickel	62	12	11.57	12.36	11.98	0.3972	3.317
Selenium	77	0.2893	0.0433	-0.0697	0.0877	0.1836	209.5
Selenium	78	0.5894	0.4566	0.3348	0.4603	0.1273	27.66
Selenium	82	0.1423	-0.0262	0.1937	0.1032	0.115	111.4
Silver	107	-0.0011	-0.0007	-0.0012	-0.001	0.0003	25.49
Silver	109	0.0023	-0.0017	-0.002	-0.0005	0.0024	503.5
Thallium	203	0.0051	0.0031	0.0023	0.0035	0.0014	40.43
Thallium	205	0.0042	0.0041	0.003	0.0038	0.0006	17.08
Tin	118	0.0011	-0.0003	0.0044	0.0017	0.0024	138
Tin	120	-0.0039	0.0001	-0.0066	-0.0035	0.0034	96.86
Vanadium	51	0.0723	0.0729	0.036	0.0604	0.0212	35.02
Zinc	66	1.636	1.637	1.676	1.649	0.0229	1.389
Zinc	68	1.69	1.682	1.589	1.653	0.0562	3.398

Internal Standard Factors:

Lithium	6	1.213	1.21	1.178	1.213 n/a	n/a
Scandium	45	1.138	1.177	1.2	1.138 n/a	n/a
Gallium	71	1.154	1.173	1.158	1.154 n/a	n/a
Rhodium	103	1.171	1.171	1.158	1.171 n/a	n/a
Indium	115	1.126	1.102	1.097	1.126 n/a	n/a
Lutetium	175	1.025	0.996	0.989	1.025 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004909-001 1/2			Mean	SD	%RSD
TimeStamp		5/25/10 19:21					
Aluminum	27	363.4	354	370.8	362.7	8.394	2.314
Antimony	121	0.2401	0.2436	0.234	0.2392	0.0048	2.025
Antimony	123	0.211	0.2393	0.2209	0.2237	0.0143	6.412
Arsenic	75	0.9198	0.8059	0.8335	0.853	0.0594	6.968
Barium	137	18.16	18.48	18.29	18.31	0.1577	0.8614
Barium	138	17.95	18.35	18.23	18.18	0.2083	1.146
Beryllium	9	0.0123	0.0115	0.0185	0.0141	0.0038	27.1
Cadmium	111	0.1074	0.094	0.123	0.1081	0.0145	13.4
Cadmium	114	0.1314	0.129	0.1176	0.126	0.0073	5.819
Chromium	52	0.9719	1.028	0.965	0.9883	0.0346	3.5
Chromium	53	1.487	1.449	1.667	1.534	0.1166	7.599
Cobalt	59	0.22	0.2423	0.2178	0.2267	0.0136	5.981
Copper	63	45.23	45.17	44.65	45.02	0.3194	0.7094
Copper	65	43.86	44.32	44.69	44.29	0.4168	0.941
Lead	206	1.099	1.146	1.132	1.126	0.0241	2.142
Lead	207	1.289	1.243	1.293	1.275	0.0281	2.206
Lead	208	1.214	1.217	1.214	1.215	0.0016	0.129
Manganese	55	40.59	40.14	40.22	40.32	0.2361	0.5856
Molybdenum	95	2.347	2.373	2.388	2.37	0.0208	0.8767
Molybdenum	97	2.411	2.432	2.36	2.401	0.0368	1.534
Molybdenum	98	2.405	2.394	2.367	2.389	0.0195	0.817
Nickel	60	1.441	1.376	1.412	1.41	0.0329	2.334
Nickel	62	1.59	1.498	1.722	1.603	0.1122	6.996
Selenium	77	0.1016	0.2734	0.3692	0.2481	0.1356	54.67
Selenium	78	0.3896	0.5247	0.6393	0.5179	0.125	24.14
Selenium	82	0.2842	0.3248	0.4144	0.3411	0.0666	19.53
Silver	107	0.2831	0.2759	0.2819	0.2803	0.0038	1.369
Silver	109	0.2756	0.2795	0.2963	0.2838	0.011	3.886
Thallium	203	0.0124	0.0091	0.0104	0.0106	0.0017	15.63
Thallium	205	0.0108	0.01	0.0093	0.01	0.0007	7.212
Tin	118	0.3703	0.4172	0.3879	0.3918	0.0237	6.043
Tin	120	0.3884	0.3812	0.3933	0.3876	0.0061	1.578
Vanadium	51	1.304	1.319	1.24	1.288	0.0422	3.274
Zinc	66	65.61	65.38	66.38	65.79	0.5258	0.7992
Zinc	68	65.59	66.63	67.16	66.46	0.7996	1.203

Internal Standard Factors:

Lithium	6	1.159	1.149	1.144	1.159	n/a	n/a
Scandium	45	0.981	1.012	1.022	0.981	n/a	n/a
Gallium	71	1.016	1.04	1.063	1.016	n/a	n/a
Rhodium	103	1.06	1.065	1.078	1.06	n/a	n/a
Indium	115	1.02	1.033	1.04	1.02	n/a	n/a
Lutetium	175	0.974	0.965	0.955	0.974	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004909-002			Mean	SD	%RSD
TimeStamp		5/25/10 19:27					
Aluminum	27	46.57	45.61	46.04	46.07	0.4798	1.041
Antimony	121	0.2816	0.2984	0.2814	0.2872	0.0098	3.396
Antimony	123	0.3186	0.293	0.2935	0.3017	0.0146	4.853
Arsenic	75	1.101	1.229	1.293	1.207	0.0979	8.106
Barium	137	4.085	4.148	4.236	4.156	0.0758	1.822
Barium	138	4.139	4.158	4.237	4.178	0.0519	1.242
Beryllium	9	-0.0026	0.0004	0.0004	-0.0006	0.0017	286.5
Cadmium	111	0.0724	0.0518	0.0574	0.0605	0.0106	17.57
Cadmium	114	0.0584	0.0596	0.0415	0.0532	0.0101	19.01
Chromium	52	0.4306	0.4137	0.4042	0.4162	0.0134	3.207
Chromium	53	1.859	1.788	1.822	1.823	0.0354	1.943
Cobalt	59	0.3232	0.3307	0.3441	0.3326	0.0106	3.192
Copper	63	8.01	7.759	7.869	7.879	0.1255	1.592
Copper	65	7.412	7.301	7.39	7.368	0.0587	0.7964
Lead	206	0.4466	0.4018	0.4215	0.4233	0.0225	5.306
Lead	207	0.4668	0.4478	0.4733	0.4626	0.0133	2.864
Lead	208	0.4604	0.4458	0.4495	0.4519	0.0076	1.681
Manganese	55	49.93	49.11	50.31	49.78	0.6118	1.229
Molybdenum	95	3.84	3.622	3.778	3.747	0.1123	2.998
Molybdenum	97	3.77	3.875	3.733	3.793	0.0737	1.943
Molybdenum	98	3.757	3.697	3.712	3.722	0.0312	0.8373
Nickel	60	1.357	1.326	1.342	1.342	0.0153	1.141
Nickel	62	1.325	1.161	1.579	1.355	0.2108	15.56
Selenium	77	0.4322	0.4207	0.4254	0.4261	0.0058	1.361
Selenium	78	0.6768	0.5451	0.4639	0.562	0.1074	19.12
Selenium	82	0.0834	0.5847	0.4855	0.3845	0.2654	69.03
Silver	107	0.0531	0.0587	0.0532	0.055	0.0032	5.879
Silver	109	0.0527	0.0495	0.0574	0.0532	0.004	7.49
Thallium	203	-0.0012	0.0003	-0.0007	-0.0005	0.0008	154.8
Thallium	205	-0.0002	0.0001	0	0	0.0002	858.7
Tin	118	0.3757	0.3425	0.3591	0.3591	0.0166	4.624
Tin	120	0.3785	0.3783	0.3764	0.3777	0.0012	0.3113
Vanadium	51	0.7692	0.8129	0.8403	0.8075	0.0358	4.438
Zinc	66	53.31	52.85	53.08	53.08	0.2304	0.434
Zinc	68	53.24	52.37	53.66	53.09	0.6574	1.238

Internal Standard Factors:

Lithium	6	1.2	1.193	1.213	1.2 n/a	n/a
Scandium	45	0.966	1.004	1.036	0.966 n/a	n/a
Gallium	71	1.075	1.111	1.145	1.075 n/a	n/a
Rhodium	103	1.121	1.131	1.15	1.121 n/a	n/a
Indium	115	1.079	1.091	1.097	1.079 n/a	n/a
Lutetium	175	1.008	1.001	1.017	1.008 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004911-001 1/2			Mean	SD	%RSD
TimeStamp		5/25/10 19:32					
Aluminum	27	122.4	124.8	126.1	124.4	1.887	1.517
Antimony	121	0.1937	0.2048	0.1944	0.1976	0.0062	3.151
Antimony	123	0.2097	0.2007	0.1985	0.203	0.0059	2.926
Arsenic	75	0.881	0.9191	0.8035	0.8679	0.0589	6.789
Barium	137	10.12	10.38	10.07	10.19	0.1701	1.669
Barium	138	10.13	10.18	10.28	10.2	0.0777	0.7618
Beryllium	9	0.0011	0.0011	0.0017	0.0013	0.0003	26.86
Cadmium	111	0.0932	0.0847	0.0747	0.0842	0.0093	11.02
Cadmium	114	0.0752	0.0831	0.0846	0.081	0.005	6.221
Chromium	52	0.7773	0.7479	0.7211	0.7487	0.0281	3.755
Chromium	53	5.678	5.826	5.576	5.693	0.1256	2.206
Cobalt	59	0.2281	0.2118	0.2421	0.2273	0.0152	6.667
Copper	63	27.23	26.84	26.98	27.02	0.1985	0.7345
Copper	65	24.89	25.25	25.28	25.14	0.2171	0.8634
Lead	206	0.6111	0.6102	0.6274	0.6162	0.0097	1.568
Lead	207	0.6846	0.713	0.7098	0.7025	0.0155	2.211
Lead	208	0.6731	0.6713	0.6663	0.6702	0.0035	0.5246
Manganese	55	35.87	35.16	35.03	35.36	0.4474	1.265
Molybdenum	95	2.845	2.916	2.906	2.889	0.0382	1.324
Molybdenum	97	2.941	2.901	2.925	2.922	0.0201	0.686
Molybdenum	98	2.889	2.856	2.897	2.881	0.0217	0.7541
Nickel	60	0.9746	0.8935	0.8821	0.9167	0.0505	5.505
Nickel	62	3.8	4.602	6.013	4.805	1.12	23.31
Selenium	77	1.169	0.9783	1.381	1.176	0.2013	17.12
Selenium	78	0.9171	0.5946	0.603	0.7049	0.1838	26.07
Selenium	82	1.634	1.73	1.62	1.661	0.0599	3.602
Silver	107	0.8551	0.9106	0.8516	0.8724	0.0331	3.793
Silver	109	0.8872	0.8699	0.8694	0.8755	0.0102	1.162
Thallium	203	0.0006	0.0009	-0.0004	0.0004	0.0007	177.9
Thallium	205	0.0012	0.0006	-0.0006	0.0004	0.0009	219
Tin	118	0.1289	0.1277	0.1533	0.1366	0.0145	10.59
Tin	120	0.1378	0.1213	0.1202	0.1264	0.0098	7.785
Vanadium	51	0.3019	0.3351	0.2323	0.2898	0.0525	18.1
Zinc	66	37.78	38.1	37.82	37.9	0.1727	0.4556
Zinc	68	37.2	38.53	37.13	37.62	0.7934	2.109

Internal Standard Factors:

Lithium	6	1.184	1.195	1.159	1.184 n/a	n/a
Scandium	45	1.068	1.082	1.06	1.068 n/a	n/a
Gallium	71	1.123	1.157	1.14	1.123 n/a	n/a
Rhodium	103	1.164	1.187	1.156	1.164 n/a	n/a
Indium	115	1.125	1.131	1.113	1.125 n/a	n/a
Lutetium	175	1.025	1.018	1.024	1.025 n/a	n/a

Instrument ID: K-ICP-MS-02

Experiment: 05-25-10C

Units: µg/L (ppb)

Method: EPA 200.8

Analyst: Greg Jasper

STARLIMS #202144

Sample Name:		K1004711-001			Mean	SD	%RSD
TimeStamp		5/25/10 19:38					
Aluminum	27	29.1	28.93	29.02	29.02	0.0856	0.2951
Antimony	121	0.0005	0.0015	0.0014	0.0011	0.0005	47.77
Antimony	123	-0.0021	0.0065	0.0021	0.0022	0.0043	199.7
Arsenic	75	0.0578	-0.0052	-0.0591	-0.0022	0.0585	2722
Barium	137	0.7973	0.7681	0.7995	0.7883	0.0175	2.223
Barium	138	0.7867	0.8052	0.8312	0.8077	0.0224	2.767
Beryllium	9	0.0005	-0.002	-0.0001	-0.0005	0.0013	257.1
Cadmium	111	0.0051	0.0015	0.0023	0.003	0.0019	64.29
Cadmium	114	0.0007	0.0003	0.0006	0.0005	0.0002	38.5
Chromium	52	0.1148	0.1016	0.0807	0.0991	0.0172	17.36
Chromium	53	0.5371	0.4206	0.3987	0.4522	0.0744	16.46
Cobalt	59	0.0227	0.0227	0.0202	0.0219	0.0014	6.501
Copper	63	17.38	17.55	17.56	17.49	0.1022	0.5844
Copper	65	17.74	17.11	16.84	17.23	0.4627	2.686
Lead	206	0.035	0.0295	0.0283	0.0309	0.0036	11.53
Lead	207	0.0322	0.0299	0.0345	0.0322	0.0023	7.096
Lead	208	0.0353	0.0326	0.032	0.0333	0.0018	5.291
Manganese	55	2.497	2.443	2.431	2.457	0.0353	1.435
Molybdenum	95	0.0221	0.0108	0.0106	0.0145	0.0066	45.38
Molybdenum	97	0.0144	0.034	0.0176	0.022	0.0105	47.73
Molybdenum	98	0.0116	0.0126	0.0087	0.011	0.002	18.26
Nickel	60	0.0299	0.0521	0.0467	0.0429	0.0116	26.93
Nickel	62	0.2516	0.001	0.2553	0.1693	0.1458	86.09
Selenium	77	0.1453	0.0845	-0.0866	0.0478	0.1202	251.8
Selenium	78	0.3183	0.3303	0.2575	0.302	0.0391	12.94
Selenium	82	0.2434	-0.004	-0.3538	-0.0381	0.3001	787
Silver	107	0.0063	0.0034	0.0048	0.0049	0.0014	29.75
Silver	109	0.0052	0.0038	-0.0013	0.0026	0.0034	132.8
Thallium	203	0.0012	-0.0002	-0.0002	0.0003	0.0008	336.2
Thallium	205	0.0002	0.0001	0.0004	0.0002	0.0001	51.37
Tin	118	0.0016	0.0032	0.0075	0.0041	0.0031	74.63
Tin	120	-0.0013	-0.0002	0.0025	0.0003	0.0019	603.2
Vanadium	51	0.2917	0.313	0.2998	0.3015	0.0108	3.564
Zinc	66	0.8704	0.8774	0.895	0.881	0.0127	1.439
Zinc	68	0.8704	0.8394	0.8593	0.8564	0.0157	1.835

Internal Standard

Factors:

Lithium	6	1.035	1.062	1.046	1.035	n/a	n/a
Scandium	45	0.942	0.966	0.968	0.942	n/a	n/a
Gallium	71	0.95	0.984	0.977	0.95	n/a	n/a
Rhodium	103	0.996	1.002	0.99	0.996	n/a	n/a
Indium	115	0.992	0.985	0.974	0.992	n/a	n/a
Lutetium	175	0.961	0.954	0.956	0.961	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		K1004728-005			Mean	SD	%RSD
TimeStamp		5/25/10 19:43					
Aluminum	27	1.765	1.708	1.723	1.732	0.0296	1.71
Antimony	121	0.0746	0.0603	0.0658	0.0669	0.0072	10.75
Antimony	123	0.0667	0.0761	0.0724	0.0717	0.0047	6.575
Arsenic	75	0.068	-0.0056	-0.1027	-0.0135	0.0856	635.5
Barium	137	10.78	10.95	10.75	10.83	0.1094	1.01
Barium	138	10.96	10.85	10.97	10.93	0.0699	0.64
Beryllium	9	-0.0019	-0.0013	-0.0019	-0.0017	0.0004	23.12
Cadmium	111	0.0133	0.0076	0.0104	0.0104	0.0029	27.47
Cadmium	114	0.044	0.0383	0.0373	0.0398	0.0036	9.075
Chromium	52	0.0204	0.0163	-0.0045	0.0107	0.0133	124
Chromium	53	1.274	1.275	1.139	1.229	0.0781	6.355
Cobalt	59	0.0406	0.0419	0.0422	0.0416	0.0008	2.045
Copper	63	22.41	22.55	22.6	22.52	0.0979	0.4346
Copper	65	22.35	22.41	22.11	22.29	0.1594	0.715
Lead	206	3.997	3.837	3.963	3.932	0.0844	2.146
Lead	207	4.313	4.303	4.317	4.311	0.007	0.1632
Lead	208	4.2	4.129	4.186	4.172	0.0378	0.9065
Manganese	55	29.46	29.1	28.55	29.04	0.4567	1.573
Molybdenum	95	0.1682	0.1954	0.1794	0.181	0.0137	7.567
Molybdenum	97	0.1826	0.2214	0.1567	0.1869	0.0326	17.42
Molybdenum	98	0.199	0.1842	0.1833	0.1888	0.0088	4.684
Nickel	60	1.059	1.039	1.015	1.038	0.0222	2.138
Nickel	62	1.028	0.9985	0.9468	0.9909	0.0409	4.13
Selenium	77	0.1188	0.3117	0.2992	0.2432	0.1079	44.38
Selenium	78	0.4612	0.38	0.2242	0.3551	0.1205	33.92
Selenium	82	0.1697	0.0919	-0.1918	0.0232	0.1903	818.8
Silver	107	0.0003	-0.0009	-0.0011	-0.0006	0.0007	125.2
Silver	109	-0.002	-0.0014	-0.0027	-0.002	0.0007	32.45
Thallium	203	-0.0004	-0.0002	-0.0012	-0.0006	0.0005	83.07
Thallium	205	-0.0009	-0.0005	-0.0007	-0.0007	0.0002	27.26
Tin	118	1.132	1.19	1.163	1.162	0.0289	2.486
Tin	120	1.156	1.148	1.124	1.143	0.0164	1.436
Vanadium	51	-0.0071	-0.0137	0.033	0.0041	0.0253	617.6
Zinc	66	31.62	30.92	31.19	31.24	0.3505	1.122
Zinc	68	31.6	31.78	31.43	31.6	0.1747	0.5527

Internal Standard Factors:

Lithium	6	1.108	1.107	1.099	1.108	n/a	n/a
Scandium	45	0.932	0.978	0.972	0.932	n/a	n/a
Gallium	71	1.02	1.05	1.056	1.02	n/a	n/a
Rhodium	103	1.056	1.072	1.076	1.056	n/a	n/a
Indium	115	1.045	1.05	1.034	1.045	n/a	n/a
Lutetium	175	0.984	0.97	0.98	0.984	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:	CCV5				Mean	SD	%RSD
TimeStamp	5/25/10 19:48						
Aluminum	27	25.99	26.36	26.14	26.16	0.1909	0.7297
Antimony	121	24.56	24.89	25.17	24.87	0.3059	1.23
Antimony	123	24.18	25.26	25.51	24.98	0.7041	2.818
Arsenic	75	24.14	23.73	24.92	24.26	0.6042	2.49
Barium	137	24.14	24.85	25.31	24.77	0.5916	2.389
Barium	138	24.45	25.28	25.15	24.96	0.4475	1.793
Beryllium	9	26.9	26.6	27.59	27.03	0.5094	1.884
Cadmium	111	24.41	24.72	25.25	24.79	0.4237	1.709
Cadmium	114	24.2	25.15	25.43	24.93	0.6419	2.575
Chromium	52	24.59	25.14	25.12	24.95	0.3101	1.243
Chromium	53	24.22	25.1	25.45	24.92	0.635	2.548
Cobalt	59	24.94	25.45	25.15	25.18	0.2594	1.03
Copper	63	25.07	25.42	24.92	25.14	0.2554	1.016
Copper	65	24.23	24.42	24.51	24.39	0.144	0.5905
Lead	206	24.27	25.36	24.83	24.82	0.5483	2.209
Lead	207	25.05	25.49	24.69	25.08	0.4026	1.606
Lead	208	24.59	25.25	24.95	24.93	0.3279	1.315
Manganese	55	24.62	24.59	24.71	24.64	0.0615	0.2496
Molybdenum	95	24.16	25.31	25.24	24.9	0.6463	2.595
Molybdenum	97	24.69	24.68	25.1	24.83	0.2407	0.9694
Molybdenum	98	24.46	24.99	25.45	24.97	0.4988	1.998
Nickel	60	24.72	24.8	24.58	24.7	0.1128	0.4568
Nickel	62	24.84	26.35	26.48	25.89	0.9146	3.533
Selenium	77	24.18	25.16	26.1	25.15	0.9573	3.807
Selenium	78	24.48	24.72	26.08	25.09	0.8605	3.43
Selenium	82	23.96	23.46	25.45	24.29	1.038	4.271
Silver	107	23.8	24.63	25.48	24.64	0.8374	3.399
Silver	109	24.21	24.96	25.33	24.83	0.5671	2.284
Thallium	203	24.75	25.98	25.12	25.28	0.6295	2.49
Thallium	205	25.01	24.8	25.04	24.95	0.1305	0.5232
Tin	118	24.19	24.87	25.29	24.78	0.5582	2.252
Tin	120	24.19	25.35	25.3	24.95	0.6523	2.615
Vanadium	51	25.34	25.72	24.78	25.28	0.4727	1.87
Zinc	66	24.62	25.42	24.94	24.99	0.4016	1.607
Zinc	68	23.58	23.75	24.98	24.1	0.7666	3.18

Internal Standard Factors:

Lithium	6	1.035	1.02	1.004	1.035	n/a	n/a
Scandium	45	0.917	0.965	0.923	0.917	n/a	n/a
Gallium	71	0.888	0.901	0.904	0.888	n/a	n/a
Rhodium	103	0.9	0.918	0.933	0.9	n/a	n/a
Indium	115	0.896	0.907	0.911	0.896	n/a	n/a
Lutetium	175	0.89	0.897	0.889	0.89	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 05-25-10C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #202144

Sample Name:		CCB5			Mean	SD	%RSD
TimeStamp		5/25/10 20:02					
Aluminum	27	0.2054	0.2221	0.2276	0.2184	0.0116	5.288
Antimony	121	0.0064	0.0032	0.0039	0.0045	0.0017	37.79
Antimony	123	0.0053	0.0015	0.0032	0.0034	0.0019	56.07
Arsenic	75	0.0986	-0.0334	-0.0587	0.0022	0.0844	3877
Barium	137	0.0173	0.0095	0.0117	0.0128	0.004	31.11
Barium	138	0.0136	0.0135	0.0148	0.014	0.0008	5.402
Beryllium	9	0.0094	0.0112	0.0087	0.0098	0.0013	13.41
Cadmium	111	0.011	0.0111	0.012	0.0114	0.0006	4.925
Cadmium	114	0.0081	0.0093	0.009	0.0088	0.0006	6.684
Chromium	52	-0.0267	-0.0218	-0.0204	-0.023	0.0033	14.53
Chromium	53	0.2271	0.1483	0.1709	0.1821	0.0406	22.28
Cobalt	59	0.004	0.0081	0.0097	0.0073	0.0029	40.07
Copper	63	0.0782	0.0567	0.0635	0.0661	0.011	16.67
Copper	65	0.041	0.0594	0.0298	0.0434	0.0149	34.4
Lead	206	0.0082	0.0043	0.0064	0.0063	0.002	31.38
Lead	207	0.0077	0.0039	0.0017	0.0044	0.003	67.83
Lead	208	0.0074	0.0057	0.0065	0.0065	0.0009	13.11
Manganese	55	0.0191	0.0241	0.0244	0.0225	0.003	13.31
Molybdenum	95	0.0094	0.0075	0.0088	0.0086	0.001	11.19
Molybdenum	97	0.0177	0.0189	0.0262	0.0209	0.0046	21.92
Molybdenum	98	0.0122	0.0108	0.0092	0.0107	0.0015	14.09
Nickel	60	0.0292	0.0248	0.0355	0.0298	0.0054	18.01
Nickel	62	0.1924	0.3782	0.3814	0.3173	0.1082	34.11
Selenium	77	-0.0419	-0.0251	-0.1134	-0.0601	0.0469	78.06
Selenium	78	0.4554	0.201	0.0044	0.2203	0.2262	102.7
Selenium	82	0.2249	-0.1735	-0.3198	-0.0895	0.2819	315.2
Silver	107	0.0195	0.0139	0.013	0.0155	0.0035	22.74
Silver	109	0.0152	0.0177	0.0117	0.0149	0.003	20.18
Thallium	203	0.0138	0.0083	0.0085	0.0102	0.0031	30.65
Thallium	205	0.0075	0.0079	0.0079	0.0078	0.0003	3.357
Tin	118	0.0077	0.0119	0.0088	0.0095	0.0022	23.06
Tin	120	0.0086	0.0153	0.0096	0.0112	0.0037	32.68
Vanadium	51	-0.0105	0.0178	0.0137	0.007	0.0153	218.9
Zinc	66	0.1325	0.1561	0.1042	0.1309	0.026	19.85
Zinc	68	0.1543	0.0965	0.0901	0.1136	0.0353	31.12

Internal Standard
 Factors:

Lithium	6	1.031	1.025	1.025	1.031 n/a	n/a
Scandium	45	0.931	0.952	0.945	0.931 n/a	n/a
Gallium	71	0.93	0.936	0.932	0.93 n/a	n/a
Rhodium	103	0.95	0.958	0.962	0.95 n/a	n/a
Indium	115	0.955	0.958	0.961	0.955 n/a	n/a
Lutetium	175	0.94	0.936	0.935	0.94 n/a	n/a

July 1, 2010

Analytical Report for Service Request No: K1004814

Melissa Kleven
Exponent
15375 Southeast 30th Place, Suite 250
Bellevue, WA 98007

RE: Heglart-Kronquist/0907194.000.0601

Dear Melissa:

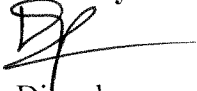
Enclosed are the additional pages for the samples submitted to our laboratory on May 13, 2010. For your reference, these analyses have been assigned our service request number K1004814.

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 3

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Exponent
Project: Heglar-Kronquist
Sample Matrix: Water

Service Request No.: K1004814
Date Received: 05/13/10

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

Six water samples were received for analysis at Columbia Analytical Services on 05/13/10. 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

A field filtered container was used for the measurement of Chloride, Fluoride, Sulfate, Nitrate, Nitrite and Ortho Phosphate for samples BH-1 and BH-2. A field filtered container was used for the measurement of Ortho Phosphate for samples 5add, 4bcd, 14aaa and 3b.

No anomalies associated with the analysis of these samples were observed.

Dissolved Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Zinc for sample "5add" were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Elevated Detection Limits:

The Method Reporting Limit (MRL) for Selenium in sample BH-1 was elevated due to suspected matrix interference. The Selenium concentration measured in the sample by Inductively Coupled Plasma – Mass Spectroscopy (ICP-MS) could not be confirmed when analyzed by an alternate methodology (Graphite Furnace Atomic Absorption). The problem was discussed with Melissa Kleven at Exponent on 6/8/2010 and the option of running the sample by Borohydride Reduction – Atomic Absorption (EPA Method 7742) was considered. However, the EPA Method 7742 is not currently included in the lab's Washington Department of Ecology certification program for the water matrix. When suspected matrix interference is encountered, and the result cannot be confirmed, it is standard CAS policy to elevate both the MRL and Method Detection Limit (MDL) to a level greater than the interference. However, in this instance only the MRL was elevated as per the direction of Melissa Kleven. The reported value is flagged as estimated.

No other anomalies associated with the analysis of these samples were observed.

Approved by  Date 06/30/10

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
BH-1	K1004814-001	0.031	0.013	1	05/14/10 07:30	0.077	
BH-2	K1004814-002	0.031	0.013	1	05/14/10 07:30	0.098	
5add	K1004814-003	0.031	0.013	1	05/14/10 07:30	0.556	
4bcd	K1004814-004	0.031	0.013	1	05/14/10 07:30	0.550	
14aaa	K1004814-005	0.031	0.013	1	05/14/10 07:30	0.157	
3b	K1004814-006	0.031	0.013	1	05/14/10 07:30	0.181	
Method Blank	K1004814-MB	0.031	0.013	1	05/14/10 07:30	ND	

June 10, 2010

Analytical Report for Service Request No: K1004814

Melissa Kleven
Exponent
15375 Southeast 30th Place, Suite 250
Bellevue, WA 98007

RE: Heglart-Kronquist/0907194.000.0601

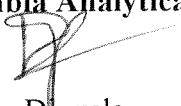
Dear Melissa:

Enclosed are the results of the samples submitted to our laboratory on May 13, 2010. For your reference, these analyses have been assigned our service request number K1004814.

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.: K1004814
Date Received: 05/13/10

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

Six water samples were received for analysis at Columbia Analytical Services on 05/13/10. 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

A field filtered container was used for the measurement of Chloride, Fluoride, Sulfate, Nitrate, Nitrite and Ortho Phosphate for samples BH-1 and BH-2.

No anomalies associated with the analysis of these samples were observed.

Dissolved Metals


Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Zinc for sample "5add" were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Elevated Detection Limits:

The Method Reporting Limit (MRL) for Selenium in sample BH-1 was elevated due to suspected matrix interference. The Selenium concentration measured in the sample by Inductively Coupled Plasma – Mass Spectroscopy (ICP-MS) could not be confirmed when analyzed by an alternate methodology (Graphite Furnace Atomic Absorption). The problem was discussed with Melissa Kleven at Exponent on 6/8/2010 and the option of running the sample by Borohydride Reduction – Atomic Absorption (EPA Method 7742) was considered. However, the EPA Method 7742 is not currently included in the lab's Washington Department of Ecology certification program for the water matrix. When suspected matrix interference is encountered, and the result cannot be confirmed, it is standard CAS policy to elevate both the MRL and Method Detection Limit (MDL) to a level greater than the interference. However, in this instance only the MRL was elevated as per the direction of Melissa Kleven. The reported value is flagged as estimated.

No other anomalies associated with the analysis of these samples were observed.

Approved by _____  _____ Date 06/11/10

Chain of Custody

PROJECT NAME: <u>Heglar - Kronquist</u> PROJECT NUMBER: <u>0907194.000.0601</u> PROJECT MANAGER: <u>Melissa Kieven</u> COMPANY/ADDRESS: <u>13375 SE 30th Pl</u> <u>Suite 250</u> CITY/STATE/ZIP: <u>Bellevue, WA 98007</u> E-MAIL ADDRESS: <u>mkieven@exponent.com</u> PHONE #: <u>425-519-8774</u> FAX #: <u>425-519-8799</u> SAMPLER'S SIGNATURE: <u>[Signature] / Keri Whetter</u>		NUMBER OF CONTAINERS SAMPLE I.D. DATE TIME LAB I.D. MATRIX BH-1 5/12/10 1347 L 5 BH-2 5/12/10 905 L 5	
SEMI-VOLATILE ORGANICS BY GC/MS 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270LL <input type="checkbox"/> Volatile Organics 624 <input type="checkbox"/> 8260 <input type="checkbox"/> 8021 <input type="checkbox"/> BTEX <input type="checkbox"/> Hydrocarbons (see below) <input type="checkbox"/> Gas <input type="checkbox"/> Fuel Fingerprint (FIO) <input type="checkbox"/> Oil & Grease/TRPH <input type="checkbox"/> 1664 SGT <input type="checkbox"/> PCBs <input type="checkbox"/> Aroclors <input type="checkbox"/> Pesticides/Herbicides 608 <input type="checkbox"/> 8081A <input type="checkbox"/> 8141A <input type="checkbox"/> 8151A <input type="checkbox"/> Chlorophenolics - 8151M <input type="checkbox"/> PAHS 8310 <input type="checkbox"/> SIM <input type="checkbox"/> Metals, Total of Dissolved (See list below) Cyanide <input type="checkbox"/> Hex-Chrom <input type="checkbox"/> pH Cond. <input type="checkbox"/> SO ₄ <input type="checkbox"/> PO ₄ <input type="checkbox"/> (E) <input type="checkbox"/> NO ₃ <input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> (E) <input type="checkbox"/> NO ₂ <input type="checkbox"/> DDC (circle) NO ₂ +NO ₃ <input type="checkbox"/> (NH ₃ -N) COD, Total P, TKN, TOC, AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/> Alkalinity <input type="checkbox"/> Phosphate as orthophosphate <input type="checkbox"/>			
REMARKS BH-1 Run BH-2 NO ₃ , NO ₂ and ortho-PO ₄ ASAP within 48 hr hold time			

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 w/ #2504 is field-filtered
 -1L Unpreserved is field-filtered
 -500 mL w/ HN03 is field-filtered
 Sample Shipment contains USDA regulated soil samples (check box if applicable) Bar code # T022894

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>as above</u>
TURNAROUND REQUIREMENTS 24 hr. _____ 48 hr. _____ 5 Day _____ <input checked="" type="checkbox"/> Standard (10-15 working days) Provide FAX Results _____ Requested Report Date _____	RECEIVED BY: Signature: <u>[Signature]</u> Date/Time: <u>5/13/10</u> Printed Name: <u>Jon Jones</u> Firm: <u>CAS</u>
RELINQUISHED BY: Signature: <u>[Signature]</u> Date/Time: <u>5-12-10/185</u> Printed Name: <u>Keri Whetter</u> Firm: <u>Exponent</u>	RELINQUISHED BY: Signature: _____ Date/Time: _____ Printed Name: _____ Firm: _____



CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: 2 OF 2 PAGE 2 OF 2 COC # 2

PROJECT NAME	PROJECT NUMBER	PROJECT MANAGER	COMPANY ADDRESS	CITY/STATE/ZIP	E-MAIL ADDRESS	PHONE #	FAX #	SAMPLER'S SIGNATURE	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
Heglar - Krangquist	0907194-000-8601	Melissa Kleven	15375 SE 30th PI Suite 250	Bellevue, WA 98007	mkleven@exponent.com	425-519-8774	425-519-8799	K S / Ker: Whetter	5-12-10	1245	L	5		run
										1455				NO3, NO2 and ortho-
										1530				PO4
										1605				ASAP,
														within
														48 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: same
above

TURNAROUND REQUIREMENTS

24 hr. _____ 48 hr. _____
 5 Day _____
 Standard (10-15 working days)
 Provide FAX Results _____

Requested Report Date _____

REINQUISHED BY:
 Signature: Ker: Whetter Date/Time: 5-12-10/1815
 Printed Name: Exponent Firm: Exponent

RECEIVED BY:
 Signature: Joan Zaver Date/Time: 5/13/10
 Printed Name: John Jones Firm: CAS

REINQUISHED BY: _____
 Signature: _____ Date/Time: _____
 Printed Name: _____ Firm: _____

RECEIVED BY: _____
 Signature: _____ Date/Time: _____
 Printed Name: _____ Firm: _____

SPECIAL INSTRUCTIONS/COMMENTS:
 - 500 ml unpreserved
 is field-filtered

Bar code # T022894

Sample Shipment contains USDA regulated soil samples (check box if applicable)

PROJECT NAME	PROJECT NUMBER	PROJECT MANAGER	COMPANY ADDRESS	CITY/STATE/ZIP	E-MAIL ADDRESS	PHONE #	FAX #	SAMPLER'S SIGNATURE	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS

**Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form**

PC P.D

Client / Project: Exponent Service Request K10 04814

Received: 5/13/10 Opened: 5/13/10 By: Jan

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
2.3	1.0	288			8684 6000 9778		Y
-0.7	1.9	289					

7. Packing material used. Inserts **Baggies** **Bubble Wrap** Gel Packs **Wet Ice** Sleeves **Other plastic bag**
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	Out of	Head-		pH	Reagent	Volume	Reagent Lot	Initials	Time
	Bottle Type	Temp	space	Broke			added	Number		

Notes, Discrepancies, & Resolutions: _____

SHORT HOLD TIME

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 : K1004814
 Date Collected : 05/12/10
 Date Received : 05/13/10

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
BH-1	K1004814-001	4.0	0.6	20	06/01/10	57.4	
BH-2	K1004814-002	2.0	0.3	10	06/01/10	50.1	
5add	K1004814-003	4.0	0.6	20	06/02/10	71.4	
4bcd	K1004814-004	4.0	0.6	20	06/01/10	105	
14aaa	K1004814-005	0.20	0.06	2	06/01/10	2.11	
3b	K1004814-006	0.20	0.06	2	06/01/10	1.99	
Method Blank	K1004814-MB	0.20	0.03	1	06/02/10	ND	
Method Blank	K1004814-MB	0.20	0.03	1	06/01/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/01/10

Duplicate Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1005258-001DUP
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	0.69	0.65	0.67	6	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/01/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1005258-001MS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery	
Chloride	300.0	0.20	3.00	0.69	3.22	84	80-120	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/01/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004814-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	
Chloride	NONE	300.0	5.00	4.88	98	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 : K1004814
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 : K1004814-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	4.88	98	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
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	6/1/2010	5.00	4.99	100
CCV2 Result	6/1/2010	5.00	4.90	98
CCV3 Result	6/1/2010	5.00	4.85	97
CCV4 Result	6/1/2010	5.00	4.90	98
CCV5 Result	6/1/2010	5.00	4.84	97
CCV6 Result	6/1/2010	5.00	4.88	98
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
CCV8 Result	6/3/2010	5.00	4.92	98

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
Date Collected : NA
Date Received : NA

Chloride
300.0
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	6/1/2010	0.20	ND
CCB2 Result	6/1/2010	0.20	ND
CCB3 Result	6/1/2010	0.20	ND
CCB4 Result	6/1/2010	0.20	ND
CCB5 Result	6/1/2010	0.20	0.03 J
CCB6 Result	6/1/2010	0.20	0.03 J
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 : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
BH-1	K1004814-001	0.20	0.01	2	06/01/10	0.36	
BH-2	K1004814-002	0.20	0.01	2	06/01/10	0.35	
5add	K1004814-003	0.20	0.01	2	06/01/10	0.22	
4bcd	K1004814-004	0.20	0.01	2	06/01/10	0.25	
14aaa	K1004814-005	0.20	0.01	2	06/01/10	0.40	
3b	K1004814-006	0.20	0.01	2	06/01/10	0.39	
Method Blank	K1004814-MB	0.20	0.003	1	06/01/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/01/10

Duplicate Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1005258-001DUP
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	0.02	0.02	<1	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/01/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1005258-001MS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery	
Fluoride	300.0	0.20	3.00	0.02	2.94	97	80-120	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/01/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004814-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 : K1004814
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	6/1/2010	5.00	5.01	100
CCV2 Result	6/1/2010	5.00	4.91	98
CCV3 Result	6/1/2010	5.00	4.89	98
CCV4 Result	6/1/2010	5.00	4.91	98
CCV5 Result	6/1/2010	5.00	4.91	98
CCV6 Result	6/1/2010	5.00	4.93	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
Date Collected : NA
Date Received : NA

Fluoride
300.0
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	6/1/2010	0.20	ND
CCB2 Result	6/1/2010	0.20	ND
CCB3 Result	6/1/2010	0.20	ND
CCB4 Result	6/1/2010	0.20	ND
CCB5 Result	6/1/2010	0.20	ND
CCB6 Result	6/1/2010	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 : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
BH-1	K1004814-001	0.20	0.02	2	06/01/10	18.3	
BH-2	K1004814-002	2.0	0.1	10	06/01/10	41.4	
5add	K1004814-003	2.0	0.1	10	06/01/10	22.9	
4bcd	K1004814-004	2.0	0.1	10	06/01/10	22.8	
14aaa	K1004814-005	0.20	0.02	2	06/01/10	2.62	
3b	K1004814-006	0.20	0.02	2	06/01/10	2.51	
Method Blank	K1004814-MB	0.20	0.01	1	06/01/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/01/10

Duplicate Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1005258-001DUP
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	1.85	1.85	1.85	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/01/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1005258-001MS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfate	300.0	0.20	3.00	1.85	4.61	92	80-120	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 06/01/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004814-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery	
Sulfate	NONE	300.0	5.00	4.79	96	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
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	6/1/2010	5.00	4.99	100
CCV2 Result	6/1/2010	5.00	4.98	100
CCV3 Result	6/1/2010	5.00	4.94	99
CCV4 Result	6/1/2010	5.00	4.92	98
CCV5 Result	6/1/2010	5.00	4.89	98
CCV6 Result	6/1/2010	5.00	4.88	98

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
Date Collected : NA
Date Received : NA

Sulfate
300.0
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	6/1/2010	0.20	ND
CCB2 Result	6/1/2010	0.20	ND
CCB3 Result	6/1/2010	0.20	0.14 J
CCB4 Result	6/1/2010	0.20	ND
CCB5 Result	6/1/2010	0.20	0.02 J
CCB6 Result	6/1/2010	0.20	0.02 J

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
5add	K1004814-003	0.050	0.020	1	05/20/10	0.025	J
4bcd	K1004814-004	0.050	0.020	1	05/20/10	ND	
14aaa	K1004814-005	0.050	0.020	1	05/20/10	ND	
3b	K1004814-006	0.050	0.020	1	05/20/10	ND	
Method Blank	K1004814-MB	0.050	0.020	1	05/20/10	0.022	J

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

Ammonia as Nitrogen, Dissolved

Analysis Method : 350.1
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
BH-1	K1004814-001	0.050	0.020	1	05/20/10	0.046	J
BH-2	K1004814-002	0.050	0.020	1	05/20/10	0.116	
Method Blank	K1004814-MB	0.050	0.020	1	05/20/10	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 : K1004814
Date Collected : 5/12/2010
Date Received : 5/13/2010
Date Prepared : NA
Date Analyzed : 05/20/10

Duplicate Summary
Inorganic Parameters

Sample Name : BH-1
Lab Code : K1004814-001DUP
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, Dissolved	350.1	0.050	0.046	0.049	0.048	6	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : 5/12/2010
Date Received : 5/13/2010
Date Prepared : NA
Date Analyzed : 05/20/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : BH-1
Lab Code : K1004814-001MS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery	
Ammonia as Nitrogen, Dissolved	350.1	0.050	2.00	0.046	2.07	101	90-112	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/20/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004814-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery	
Ammonia as Nitrogen	NONE	350.1	14.3	14.6	102	90-112	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
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	5/20/2010	2.00	1.91	96
CCV2 Result	5/20/2010	2.00	1.91	96
CCV3 Result	5/20/2010	2.00	1.90	95
CCV4 Result	5/20/2010	2.00	1.91	96
CCV5 Result	5/20/2010	2.00	1.90	95
CCV6 Result	5/20/2010	2.00	1.90	95
CCV7 Result	5/20/2010	2.00	1.90	95
CCV8 Result	5/20/2010	2.00	1.89	95
CCV9 Result	5/20/2010	2.00	1.89	95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
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	5/20/2010	0.050	0.030 J
CCB2 Result	5/20/2010	0.050	0.025 J
CCB3 Result	5/20/2010	0.050	0.033 J
CCB4 Result	5/20/2010	0.050	0.036 J
CCB5 Result	5/20/2010	0.050	ND
CCB6 Result	5/20/2010	0.050	ND
CCB7 Result	5/20/2010	0.050	ND
CCB8 Result	5/20/2010	0.050	ND
CCB9 Result	5/20/2010	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 : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
BH-1	K1004814-001	0.050	0.005	1	05/13/10 16:39	0.058	
BH-2	K1004814-002	0.050	0.005	1	05/13/10 16:39	0.183	
5add	K1004814-003	0.050	0.005	1	05/13/10 16:39	0.010	J
4bcd	K1004814-004	0.050	0.005	1	05/13/10 16:39	0.012	J
14aaa	K1004814-005	0.050	0.005	1	05/13/10 16:39	0.012	J
3b	K1004814-006	0.050	0.005	1	05/13/10 16:39	0.009	J
Method Blank	K1004814-MB	0.050	0.005	1	05/13/10 16:39	0.011	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : 5/12/2010
Date Received : 5/13/2010
Date Prepared : NA
Date Analyzed : 05/13/10

Duplicate Summary
Inorganic Parameters

Sample Name : BH-1
Lab Code : K1004814-001DUP
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	0.058	0.058	0.058	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : 5/12/2010
Date Received : 5/13/2010
Date Prepared : NA
Date Analyzed : 05/13/10

Matrix Spike Summary
 Inorganic Parameters

Sample Name : BH-1
Lab Code : K1004814-001MS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
							Percent Recovery Acceptance Limits	
Nitrite as Nitrogen	353.2	0.050	2.00	0.058	2.04	99	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 : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/13/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004814-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery	
Nitrite as Nitrogen	NONE	353.2	4.00	3.99	100	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
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	5/13/2010	2.00	1.95	98
CCV2 Result	5/13/2010	2.00	1.97	99
CCV3 Result	5/13/2010	2.00	1.97	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
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	5/13/2010	0.050	0.010 J
CCB2 Result	5/13/2010	0.050	0.012 J
CCB3 Result	5/13/2010	0.050	0.007 J

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
BH-1	K1004814-001	0.050	0.009	1	05/15/10	1.82	
BH-2	K1004814-002	0.50	0.09	10	05/15/10	26.0	
5add	K1004814-003	0.25	0.05	5	05/15/10	6.04	
4bcd	K1004814-004	0.050	0.009	1	05/15/10	2.88	
14aaa	K1004814-005	0.050	0.009	1	05/15/10	0.034	J
3b	K1004814-006	0.050	0.009	1	05/15/10	0.045	J
Method Blank	K1004814-MB	0.050	0.009	1	05/15/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : 5/12/2010
Date Received : 5/13/2010
Date Prepared : NA
Date Analyzed : 05/15/10

Duplicate Summary
Inorganic Parameters

Sample Name : BH-1
Lab Code : K1004814-001DUP
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	0.050	1.82	1.84	1.83	1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
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 : K1004814-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	
Nitrate as Nitrogen	NONE	353.2	14.8	14.7	99	88-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
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	5/15/2010	2.00	2.03	102
CCV2 Result	5/15/2010	2.00	2.05	103
CCV3 Result	5/15/2010	2.00	2.05	103
CCV4 Result	5/15/2010	2.00	2.01	101
CCV5 Result	5/15/2010	2.00	2.03	102
CCV6 Result	5/15/2010	2.00	2.05	103
CCV7 Result	5/15/2010	2.00	2.04	102
CCV8 Result	5/15/2010	2.00	2.00	100

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
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	5/15/2010	0.050	ND
CCB2 Result	5/15/2010	0.050	ND
CCB3 Result	5/15/2010	0.050	ND
CCB4 Result	5/15/2010	0.050	ND
CCB5 Result	5/15/2010	0.050	ND
CCB6 Result	5/15/2010	0.050	ND
CCB7 Result	5/15/2010	0.050	ND
CCB8 Result	5/15/2010	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 : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
BH-1	K1004814-001	0.010	0.004	1	05/14/10 07:30	0.025	
BH-2	K1004814-002	0.010	0.004	1	05/14/10 07:30	0.032	
5add	K1004814-003	0.010	0.004	1	05/14/10 07:30	0.181	
4bcd	K1004814-004	0.010	0.004	1	05/14/10 07:30	0.179	
14aaa	K1004814-005	0.010	0.004	1	05/14/10 07:30	0.051	
3b	K1004814-006	0.010	0.004	1	05/14/10 07:30	0.059	
Method Blank	K1004814-MB	0.010	0.004	1	05/14/10 07:30	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar-Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : WATER

Service Request : K1004814
 Date Collected : 5/12/2010
 Date Received : 5/13/2010
 Date Prepared : NA
 Date Analyzed : 05/14/10

Duplicate Summary
 Inorganic Parameters

Sample Name : Sadd
 Lab Code : K1004814-003DUP
 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	0.181	0.180	0.181	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : 5/12/2010
Date Received : 5/13/2010
Date Prepared : NA
Date Analyzed : 05/14/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : 5add
Lab Code : K1004814-003MS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Orthophosphate as Phosphorus	365.3	0.010	0.200	0.181	0.375	97	81-119	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar-Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/14/10

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004814-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	
Orthophosphate as Phosphorus	NONE	365.3	3.57	3.35	94	89-118	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
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	5/14/2010	0.500	0.494	99
CCV2 Result	5/14/2010	0.500	0.490	98
CCV3 Result	5/14/2010	0.500	0.490	98

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar-Kronquist

Service Request : K1004814
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	5/14/2010	0.010	ND
CCB2 Result	5/14/2010	0.010	ND
CCB3 Result	5/14/2010	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 : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
BH-1	K1004814-001	9.0	3.0	1	05/18/10	234	
BH-2	K1004814-002	9.0	3.0	1	05/18/10	138	
5add	K1004814-003	9.0	3.0	1	05/18/10	352	
4bcd	K1004814-004	9.0	3.0	1	05/18/10	400	
14aaa	K1004814-005	9.0	3.0	1	05/18/10	240	
3b	K1004814-006	9.0	3.0	1	05/18/10	245	
Method Blank	K1004814-MB	9.0	3.0	1	05/18/10	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 : K1004814
Date Collected : 5/12/2010
Date Received : 5/13/2010
Date Prepared : NA
Date Analyzed : 05/18/10

Duplicate Summary
Inorganic Parameters

Sample Name : 14aaa
Lab Code : K1004814-005DUP
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	240	247	244	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 : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/18/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : K1004814-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
Alkalinity as CaCO3, Total	NONE	SM 2320 B	67.9	70.1	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 : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
BH-1	K1004814-001	9.0	3.0	1	05/18/10	234	
BH-2	K1004814-002	9.0	3.0	1	05/18/10	138	
5add	K1004814-003	9.0	3.0	1	05/18/10	352	
4bcd	K1004814-004	9.0	3.0	1	05/18/10	400	
14aaa	K1004814-005	9.0	3.0	1	05/18/10	240	
3b	K1004814-006	9.0	3.0	1	05/18/10	245	
Method Blank	K1004814-MB	9.0	3.0	1	05/18/10	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 : K1004814
Date Collected : 5/12/2010
Date Received : 5/13/2010
Date Prepared : NA
Date Analyzed : 05/18/10

Duplicate Summary
Inorganic Parameters

Sample Name : 14aaa
Lab Code : K1004814-005DUP
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 CaCO3	SM 2320 B	9.0	240	247	244	3	

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 : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
BH-1	K1004814-001	9.0	3.0	1	05/18/10	ND	
BH-2	K1004814-002	9.0	3.0	1	05/18/10	ND	
5add	K1004814-003	9.0	3.0	1	05/18/10	ND	
4bcd	K1004814-004	9.0	3.0	1	05/18/10	ND	
14aaa	K1004814-005	9.0	3.0	1	05/18/10	ND	
3b	K1004814-006	9.0	3.0	1	05/18/10	ND	
Method Blank	K1004814-MB	9.0	3.0	1	05/18/10	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 : K1004814
Date Collected : 5/12/2010
Date Received : 5/13/2010
Date Prepared : NA
Date Analyzed : 05/18/10

Duplicate Summary
Inorganic Parameters

Sample Name : 14aaa
Lab Code : K1004814-005DUP
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 : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
BH-1	K1004814-001	9.0	3.0	1	05/18/10	ND	
BH-2	K1004814-002	9.0	3.0	1	05/18/10	ND	
5add	K1004814-003	9.0	3.0	1	05/18/10	ND	
4bcd	K1004814-004	9.0	3.0	1	05/18/10	ND	
14aaa	K1004814-005	9.0	3.0	1	05/18/10	ND	
3b	K1004814-006	9.0	3.0	1	05/18/10	ND	
Method Blank	K1004814-MB	9.0	3.0	1	05/18/10	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 : K1004814
Date Collected : 5/12/2010
Date Received : 5/13/2010
Date Prepared : NA
Date Analyzed : 05/18/10

Duplicate Summary
Inorganic Parameters

Sample Name : 14aaa
Lab Code : K1004814-005DUP
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 : K1004814
Date Collected : 05/12/10
Date Received : 05/13/10

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
BH-1	K1004814-001	5.0	5.0	1	05/15/10	391	
BH-2	K1004814-002	5.0	5.0	1	05/15/10	540	
5add	K1004814-003	5.0	5.0	1	05/15/10	526	
4bcd	K1004814-004	5.0	5.0	1	05/15/10	572	
14aaa	K1004814-005	5.0	5.0	1	05/15/10	255	
3b	K1004814-006	5.0	5.0	1	05/15/10	259	
Method Blank	K1004814-MB	5.0	5.0	1	05/15/10	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 : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/15/10

Duplicate Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1004856-001DUP
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	206	218	212	6	

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 : K1004814
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/15/10

Laboratory Control Sample Summary
 Inorganic Parameters

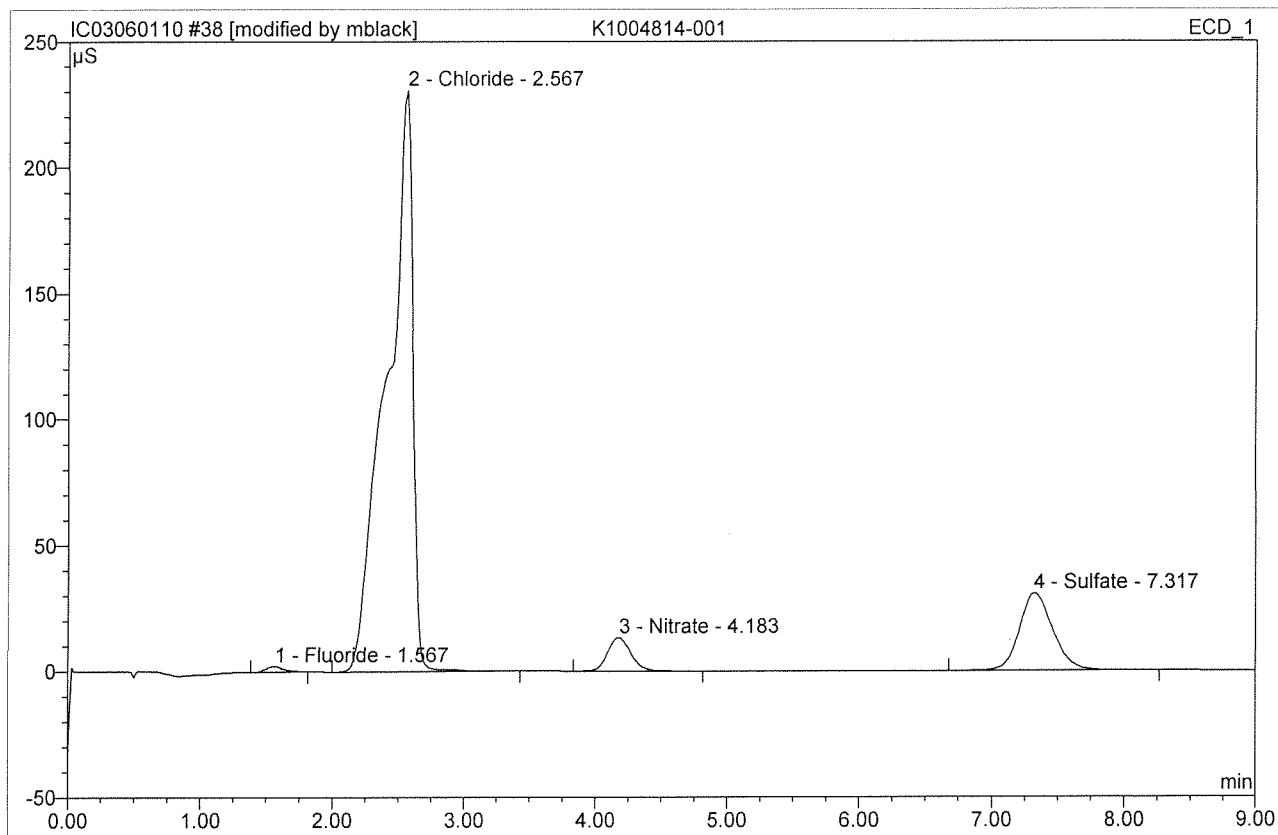
Sample Name : Lab Control Sample
Lab Code : K1004814-LCS
Test Notes :

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	708	94	83-117	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

38 K1004814-001			
Sample Name:	K1004814-001	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:	6/1/2010 16:09	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	1.57	Fluoride	2.245	0.344	0.53	0.360	BMB*
2	2.57	Chloride	230.770	52.639	81.40	67.506	BMB
3	4.18	Nitrate	13.178	2.684	4.15	1.457	BMB
4	7.32	Sulfate	30.759	8.997	13.91	18.285	BMB
Total:			276.952	64.664	100.00	87.607	

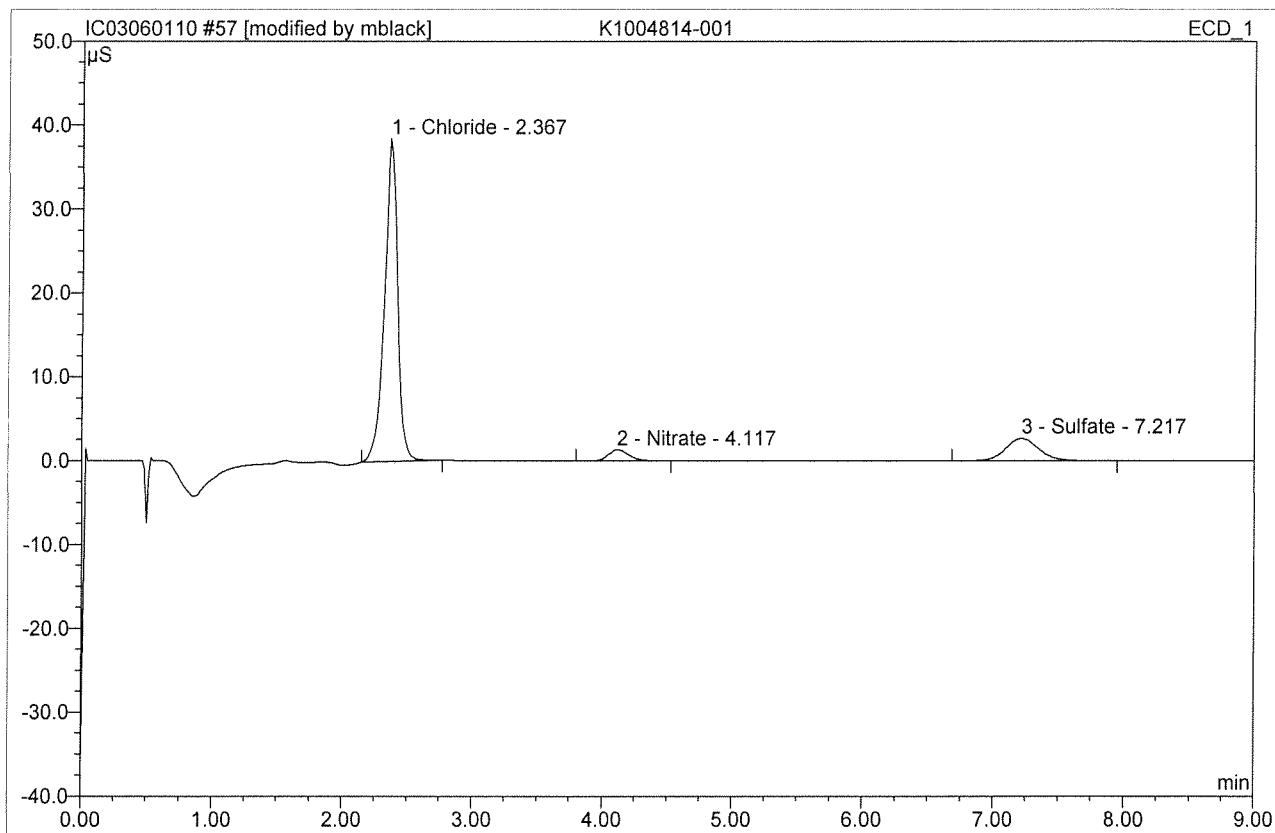
After Initials

MB

JUN 01 2010

MB 6/2/10

57 K1004814-001			
Sample Name:	K1004814-001	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:	20.0000
Recording Time:	6/1/2010 20:00	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	2.37	Chloride	38.481	4.478	81.13	57.434	BMB*
2	4.12	Nitrate	1.338	0.247	4.48	1.342	BMB*
3	7.22	Sulfate	2.685	0.794	14.39	16.146	BMB
Total:			42.504	5.520	100.00	74.921	

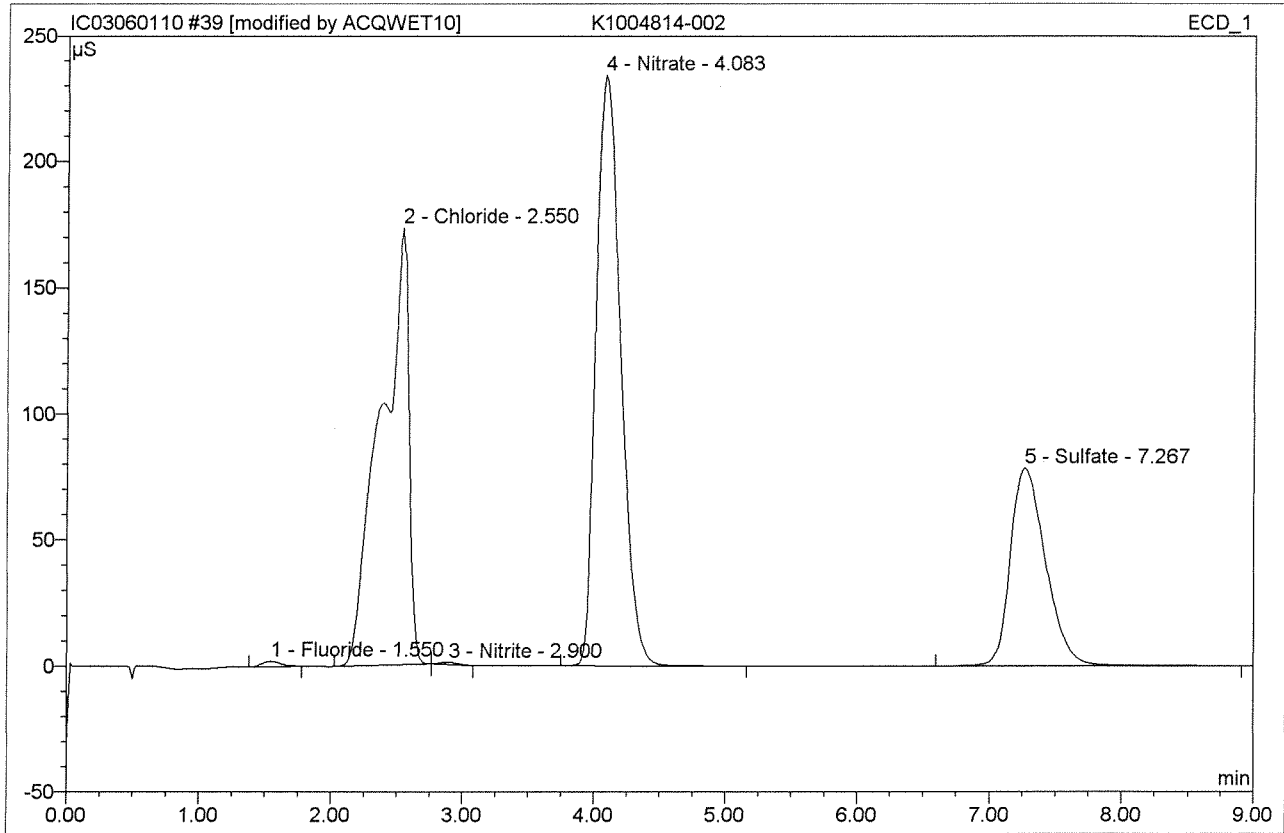
After Initials MB

JUN 02 2010

MB 6/2/10

Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other _____

39 K1004814-002			
Sample Name:	K1004814-002	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:	6/1/2010 16:20	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	1.55	Fluoride	2.055	0.336	0.28	0.351	BMB*
2	2.55	Chloride	173.091	42.414	35.88	54.393	BMB*
3	2.90	Nitrite	0.883	0.137	0.12	0.095	bMB
4	4.08	Nitrate	234.077	51.083	43.21	27.733	BMB
5	7.27	Sulfate	78.386	24.243	20.51	49.270	BMB
Total:			488.493	118.213	100.00	131.842	

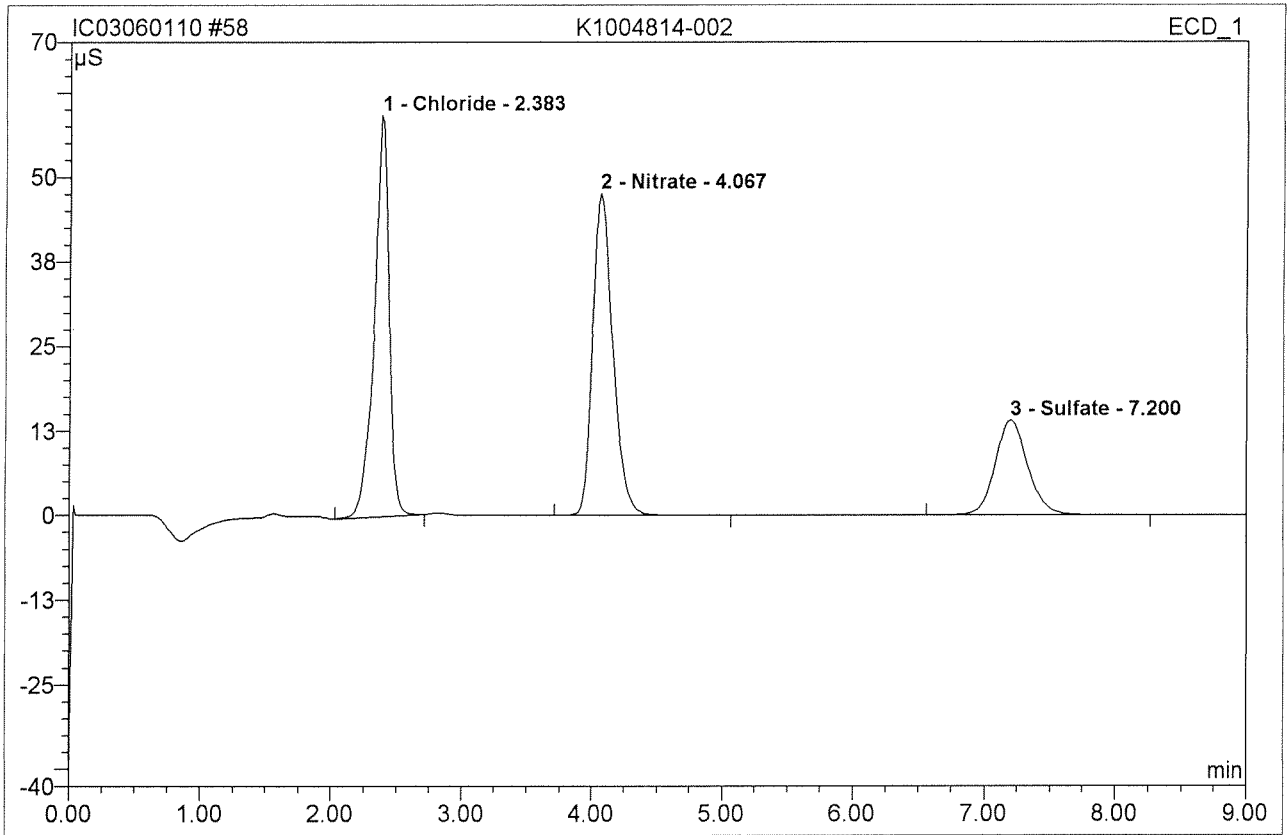
After Initials

AB

JUN 01 2010

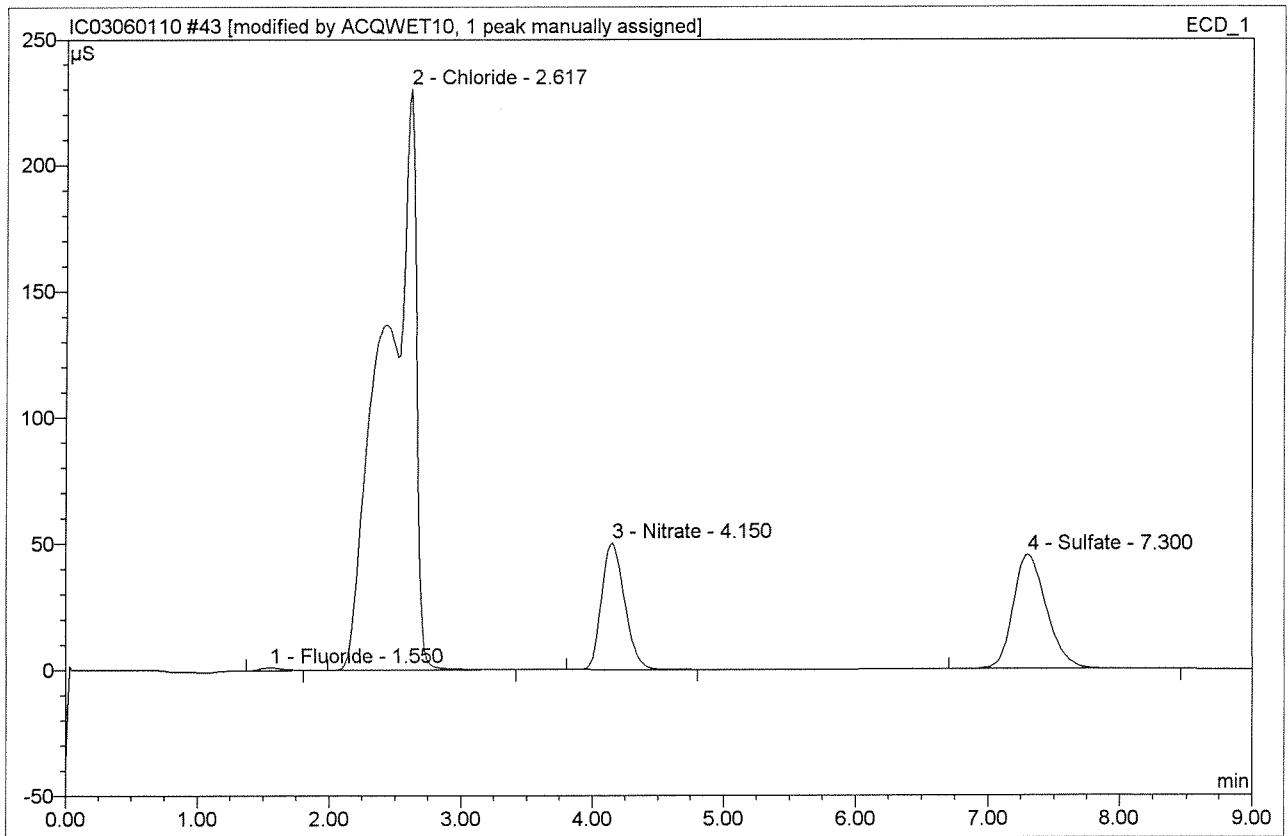
06/02/10

58 K1004814-002			
<i>Sample Name:</i>	K1004814-002	<i>Injection Volume:</i>	200.0
<i>Vial Number:</i>	56	<i>Channel:</i>	ECD_1
<i>Sample Type:</i>	unknown	<i>Wavelength:</i>	n.a.
<i>Control Program:</i>	epa300	<i>Bandwidth:</i>	n.a.
<i>Quantif. Method:</i>	epa300	<i>Dilution Factor:</i>	10.0000
<i>Recording Time:</i>	6/1/2010 20:11	<i>Sample Weight:</i>	1.0000
<i>Run Time (min):</i>	9.00	<i>Sample Amount:</i>	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.38	Chloride	59.370	7.817	37.99	50.125	BMB
2	4.07	Nitrate	47.588	8.684	42.20	23.573	BMB
3	7.20	Sulfate	14.093	4.076	19.81	41.416	BMB
Total:			121.052	20.577	100.00	115.113	

43 K1004814-003			
Sample Name:	K1004814-003	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:	2.0000
Recording Time:	6/1/2010 17:06	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	1.145	0.209	0.24	0.218	BMB*
2	2.62	Chloride	230.080	63.820	72.87	81.845	BMB*^A
3	4.15	Nitrate	50.089	10.235	11.69	5.556	BMB
4	7.30	Sulfate	45.329	13.319	15.21	27.070	BMB
Total:			326.643	87.583	100.00	114.690	

After Initials

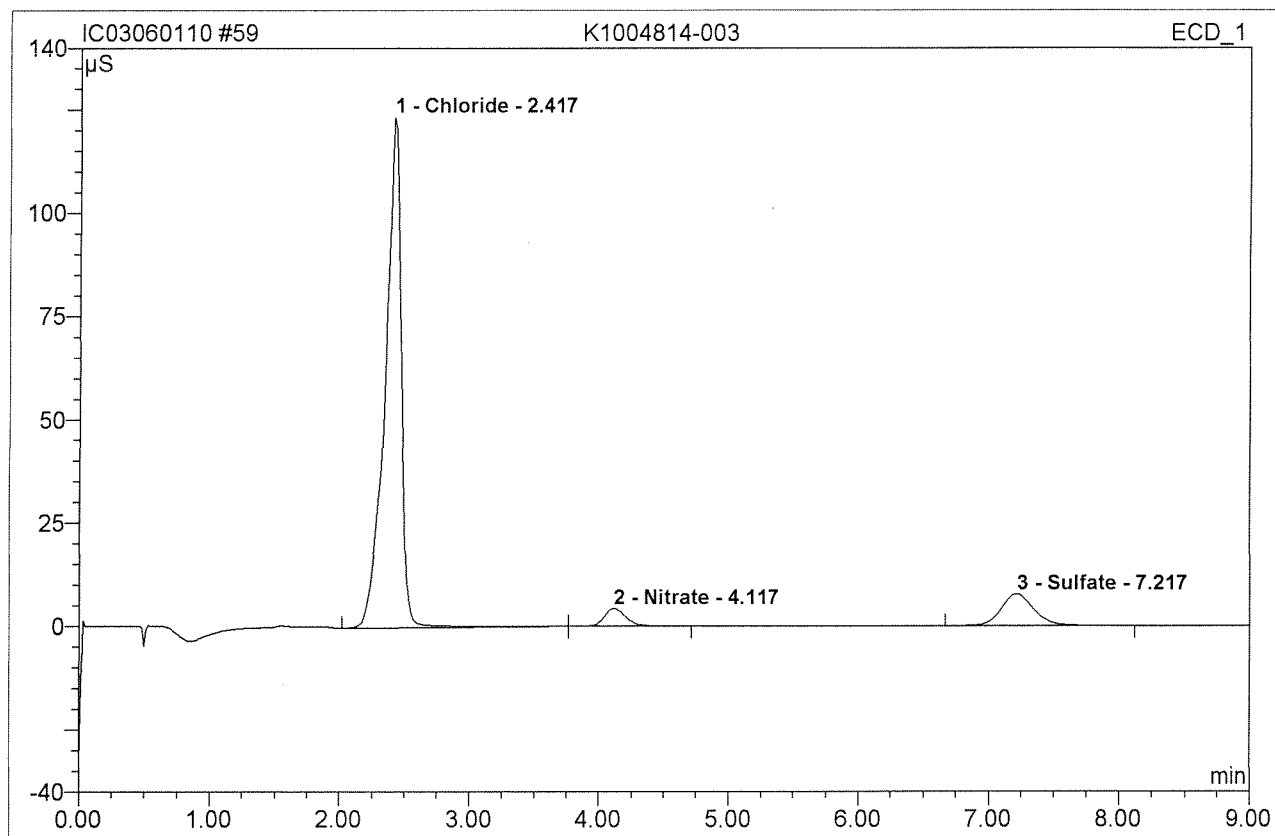
MB

MB 6/2/10

JUN 01 2010

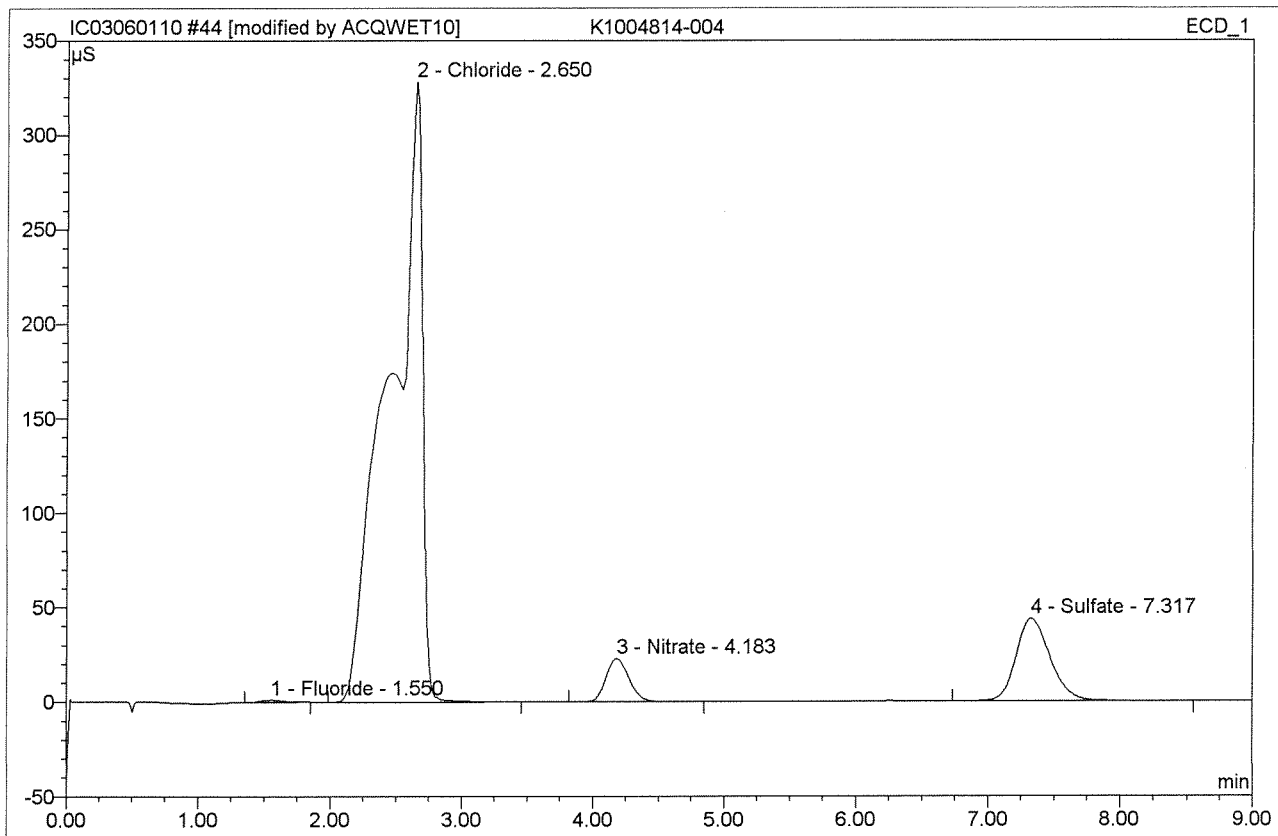
59 K1004814-003

<i>Sample Name:</i>	K1004814-003	<i>Injection Volume:</i>	200.0
<i>Vial Number:</i>	57	<i>Channel:</i>	ECD_1
<i>Sample Type:</i>	unknown	<i>Wavelength:</i>	n.a.
<i>Control Program:</i>	epa300	<i>Bandwidth:</i>	n.a.
<i>Quantif. Method:</i>	epa300	<i>Dilution Factor:</i>	10.0000
<i>Recording Time:</i>	6/1/2010 20:23	<i>Sample Weight:</i>	1.0000
<i>Run Time (min):</i>	9.00	<i>Sample Amount:</i>	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.42	Chloride	123.581	17.819	85.27	114.260	BMB
2	4.12	Nitrate	4.324	0.823	3.94	2.235	bMB
3	7.22	Sulfate	7.701	2.254	10.79	22.906	BMB
Total:			135.606	20.897	100.00	139.401	

44 K1004814-004			
Sample Name:	K1004814-004	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:	2.0000
Recording Time:	6/1/2010 17:18	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	1.55	Fluoride	1.195	0.244	0.22	0.255	BMB*
2	2.65	Chloride	328.117	92.383	83.73	118.474	BMB*
3	4.18	Nitrate	22.984	4.654	4.22	2.527	BMB
4	7.32	Sulfate	43.774	13.060	11.84	26.543	BMB
Total:			396.070	110.340	100.00	147.798	

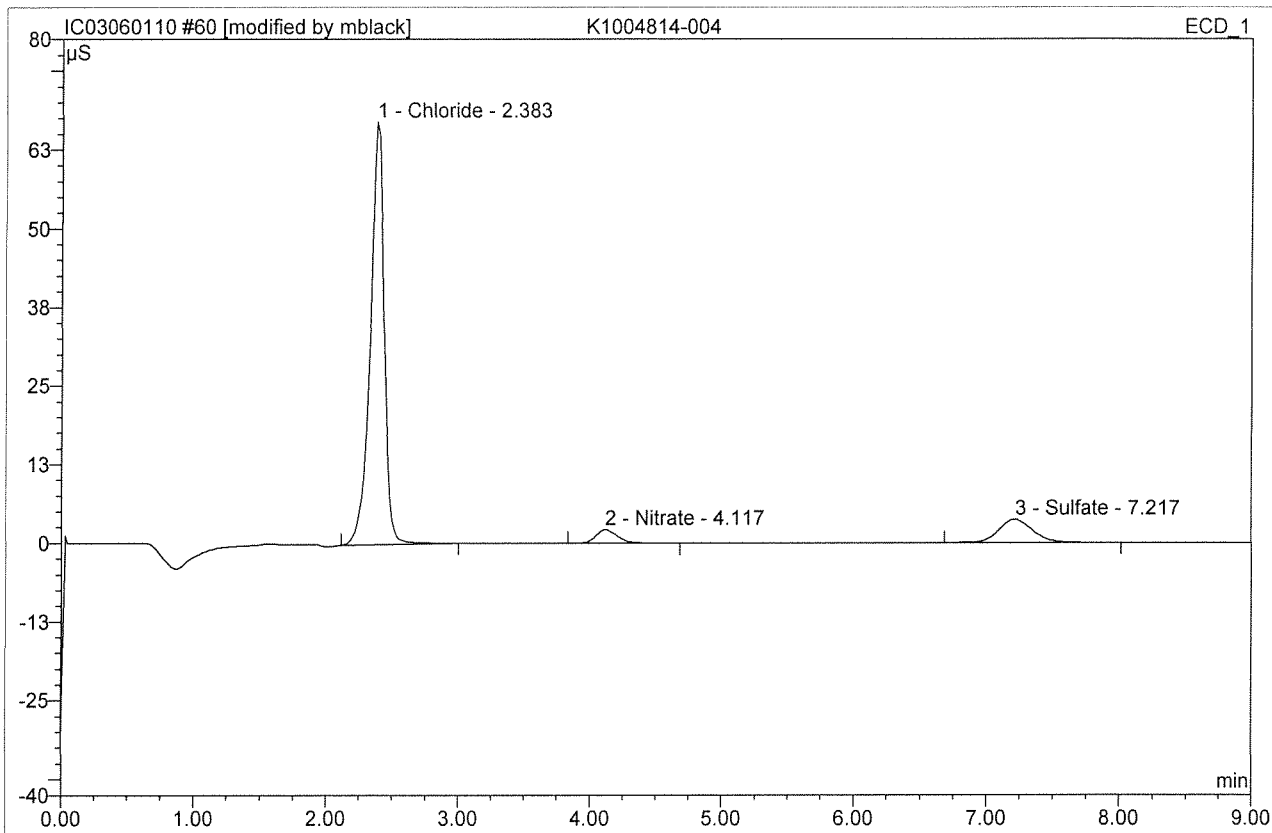
After Initials

AB

JUN 01 2010

6/2/10

60 K1004814-004			
Sample Name:	K1004814-004	Injection Volume:	200.0
Vial Number:	58	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	6/1/2010 20:34	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



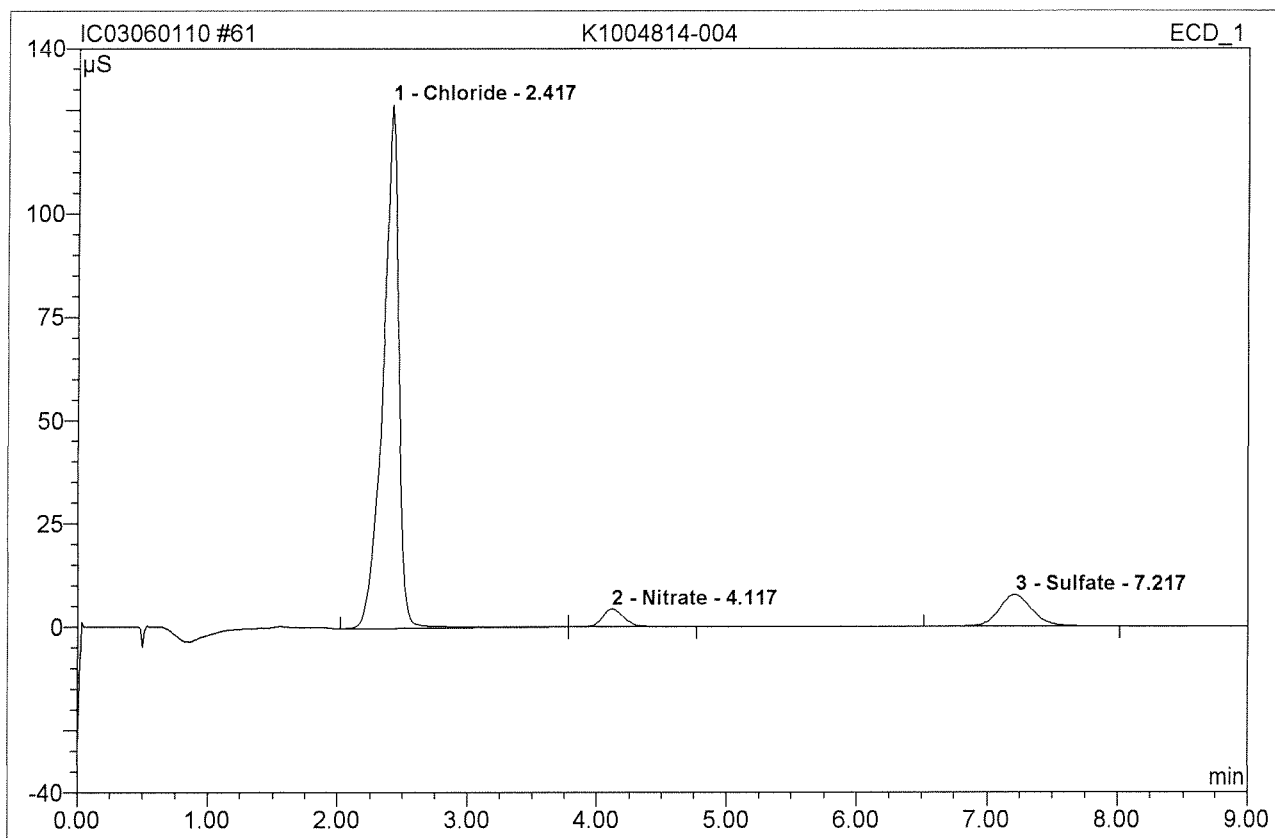
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.38	Chloride	67.113	8.176	84.67	104.853	BMB*
2	4.12	Nitrate	2.130	0.396	4.11	2.152	BMB*
3	7.22	Sulfate	3.672	1.084	11.23	22.038	BMB
Total:			72.914	9.657	100.00	129.044	

After Initials MB

JUN 02 2010

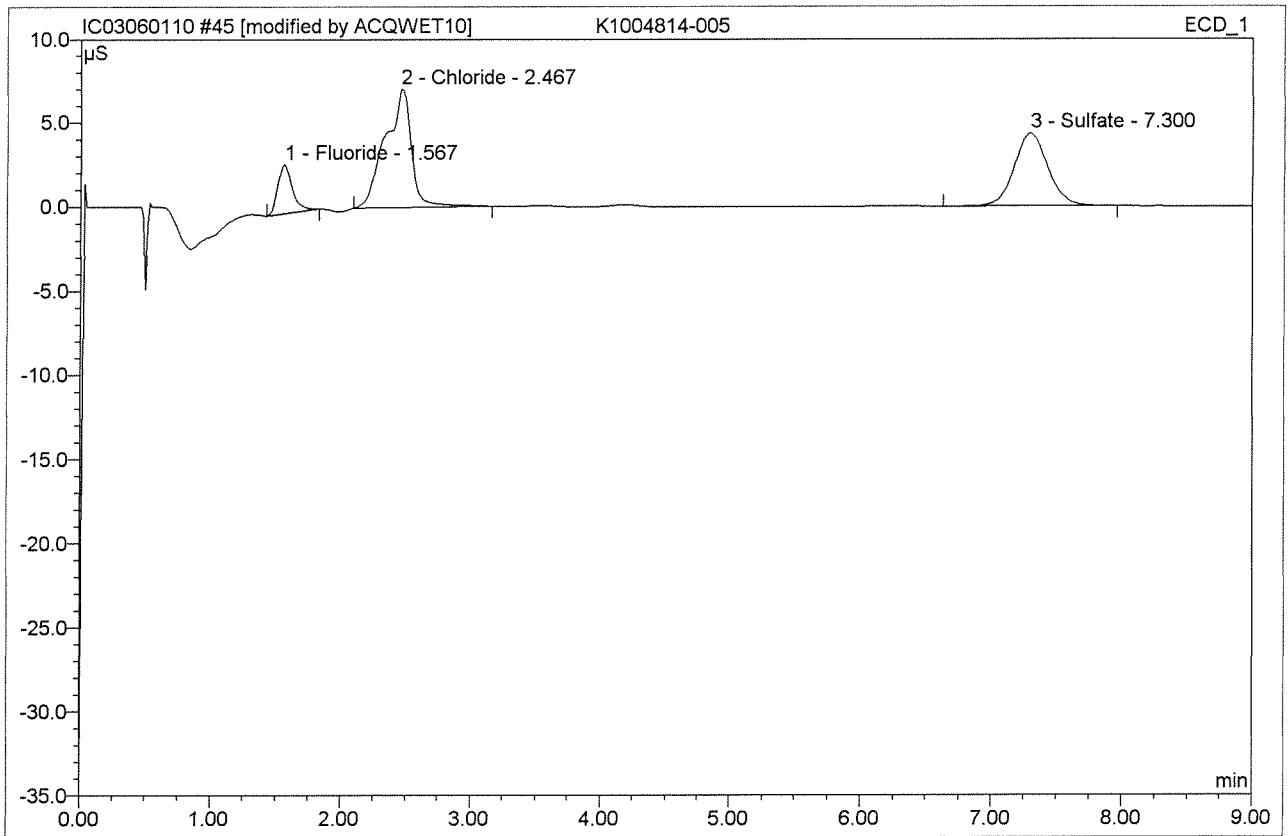
JZ 6/2/10

61 K1004814-004			
Sample Name:	K1004814-004	Injection Volume:	200.0
Vial Number:	59	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/1/2010 20:46	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	2.42	Chloride	126.689	17.839	85.33	114.389	BMB
2	4.12	Nitrate	4.300	0.819	3.92	2.223	bMB
3	7.22	Sulfate	7.655	2.248	10.75	22.846	BMB
Total:			138.645	20.907	100.00	139.458	

45 K1004814-005			
Sample Name:	K1004814-005	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:	6/1/2010 17:29	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



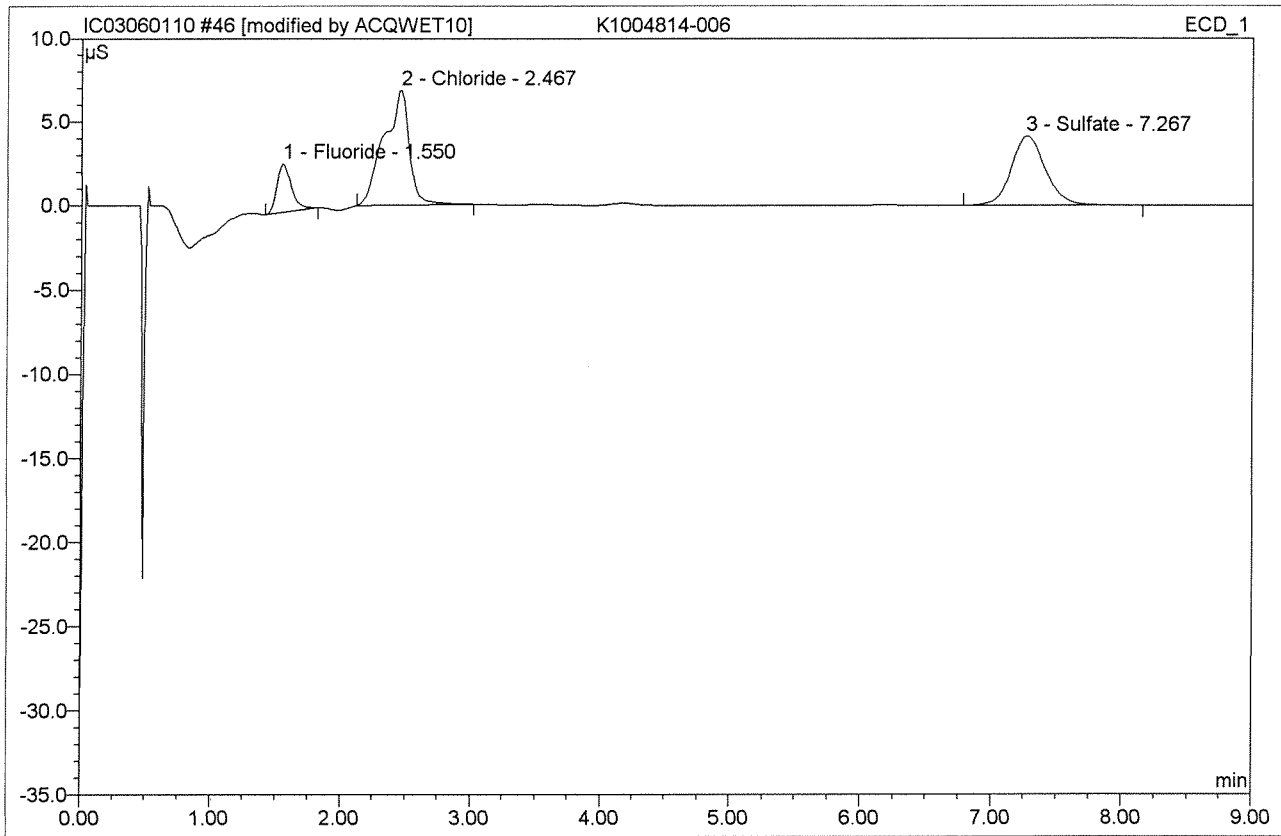
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.57	Fluoride	2.879	0.379	11.43	0.396	BMB*
2	2.47	Chloride	7.033	1.645	49.63	2.109	BMB*
3	7.30	Sulfate	4.321	1.290	38.94	2.622	BMB
Total:			14.233	3.314	100.00	5.127	

After Initials LB

06/2/10

JUN 01 2010

46 K1004814-006			
Sample Name:	K1004814-006	Injection Volume:	200.0
Vial Number:	44	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 17:41	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	1.55	Fluoride	2.896	0.376	11.88	0.393	BMB*
2	2.47	Chloride	6.828	1.551	49.08	1.989	BMB*
3	7.27	Sulfate	4.120	1.234	39.04	2.508	BMB
Total:			13.844	3.161	100.00	4.889	

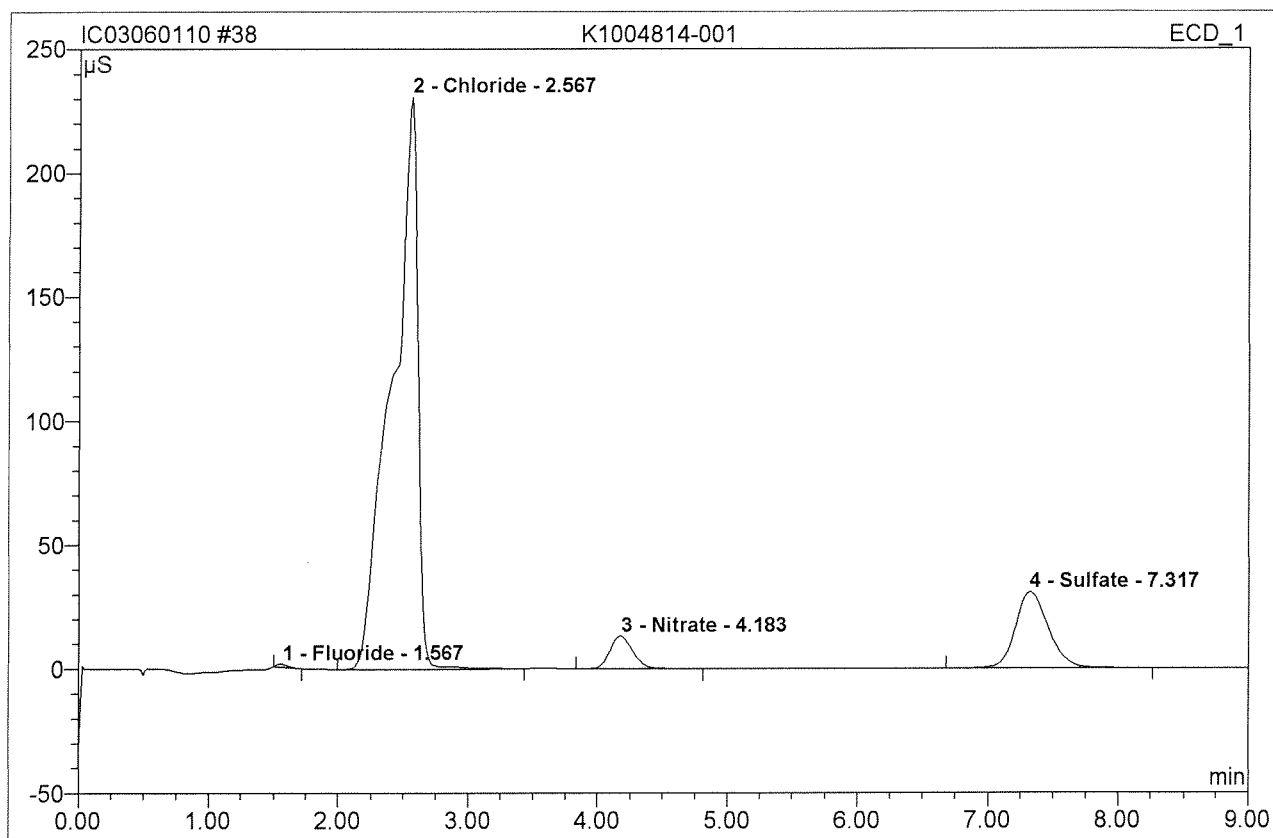
After Initial MB

JUN 01 2010

Handwritten signature
6/2/10

38 K1004814-001

Sample Name:	K1004814-001	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:	6/1/2010 16:09	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

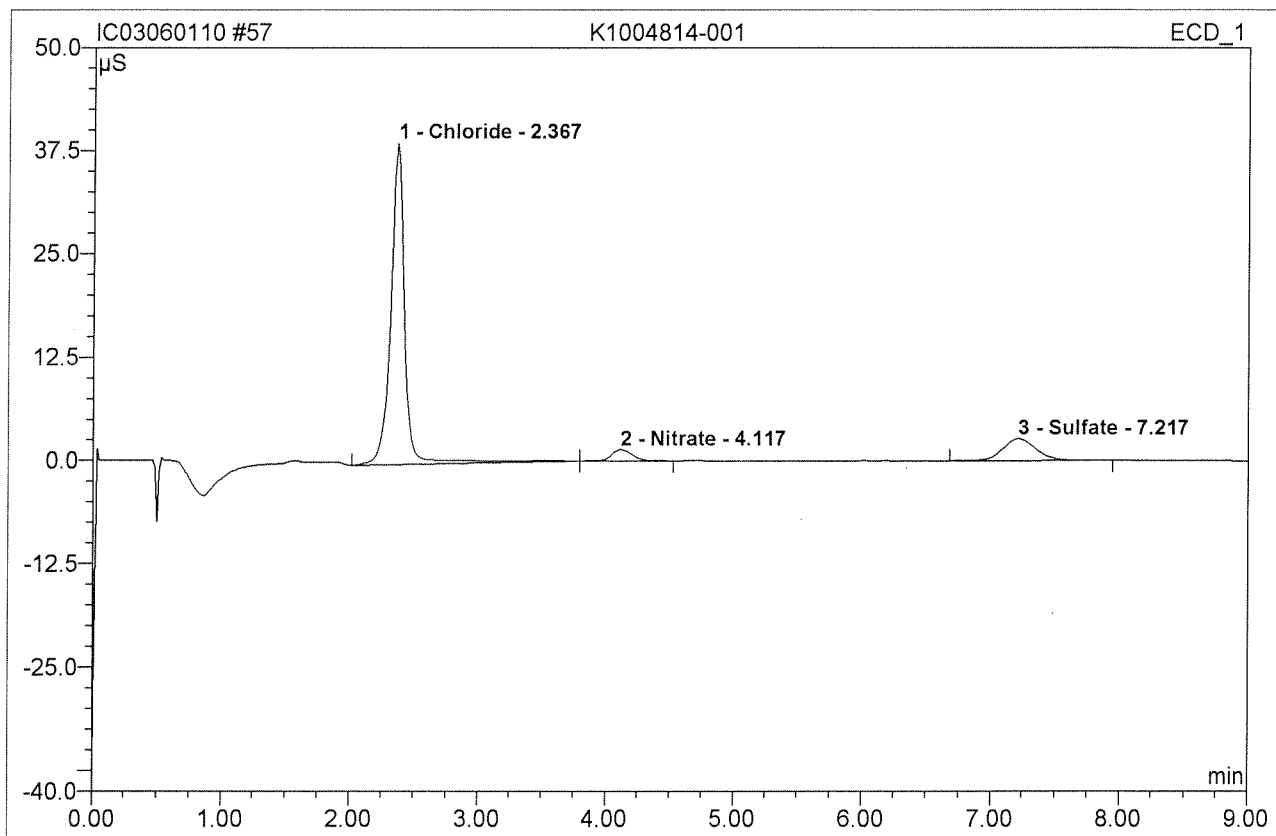


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.57	Fluoride	1.261	0.128	0.20	0.133	BMB
2	2.57	Chloride	230.770	52.639	81.68	67.506	BMB
3	4.18	Nitrate	13.178	2.684	4.16	1.457	BMB
4	7.32	Sulfate	30.759	8.997	13.96	18.285	BMB
Total:			275.968	64.447	100.00	87.381	

Before

JUN 01 2010

57 K1004814-001			
Sample Name:	K1004814-001	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:	20.0000
Recording Time:	6/1/2010 20:00	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



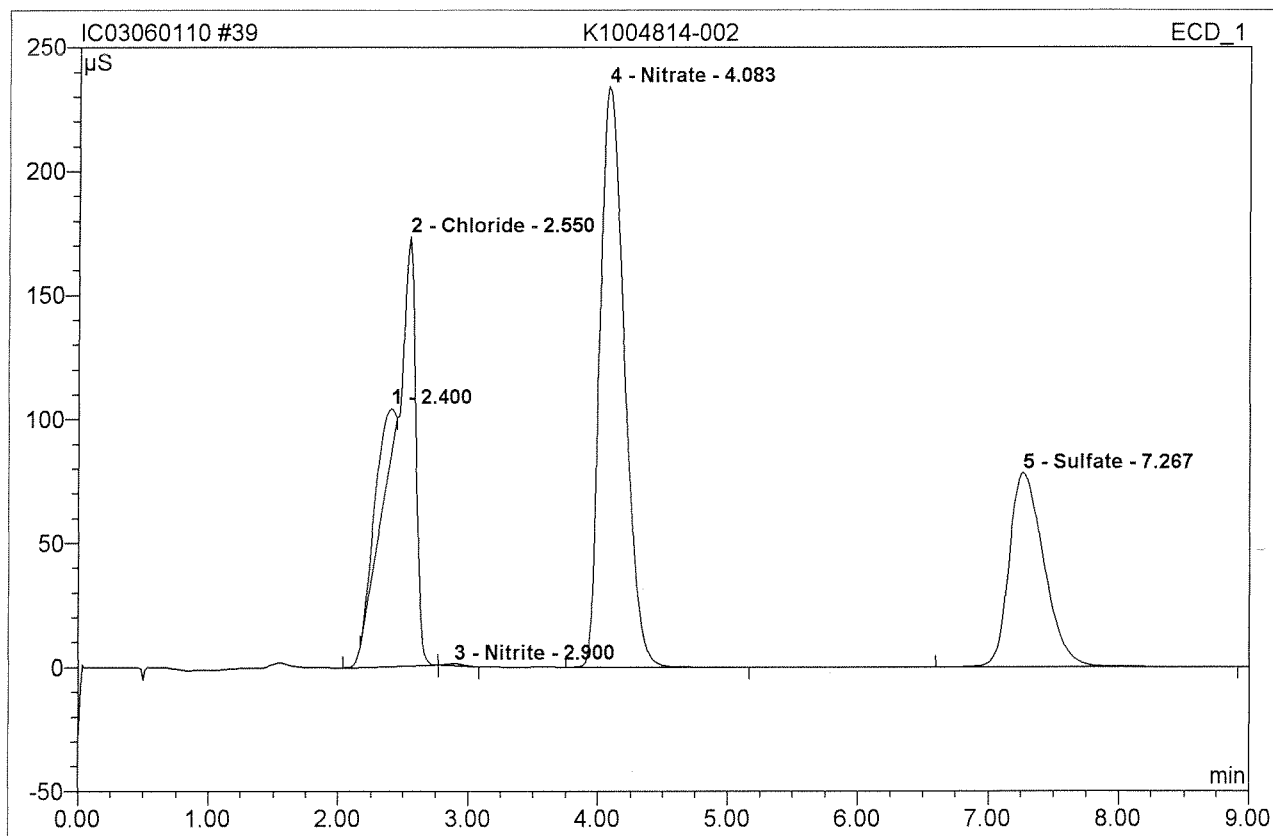
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.37	Chloride	38.864	4.912	82.50	62.990	BMB
2	4.12	Nitrate	1.338	0.247	4.15	1.342	bMB
3	7.22	Sulfate	2.685	0.794	13.34	16.146	BMB
Total:			42.887	5.953	100.00	80.478	

Before

JUN 02 2010

39 K1004814-002

Sample Name:	K1004814-002	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:	6/1/2010 16:20	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

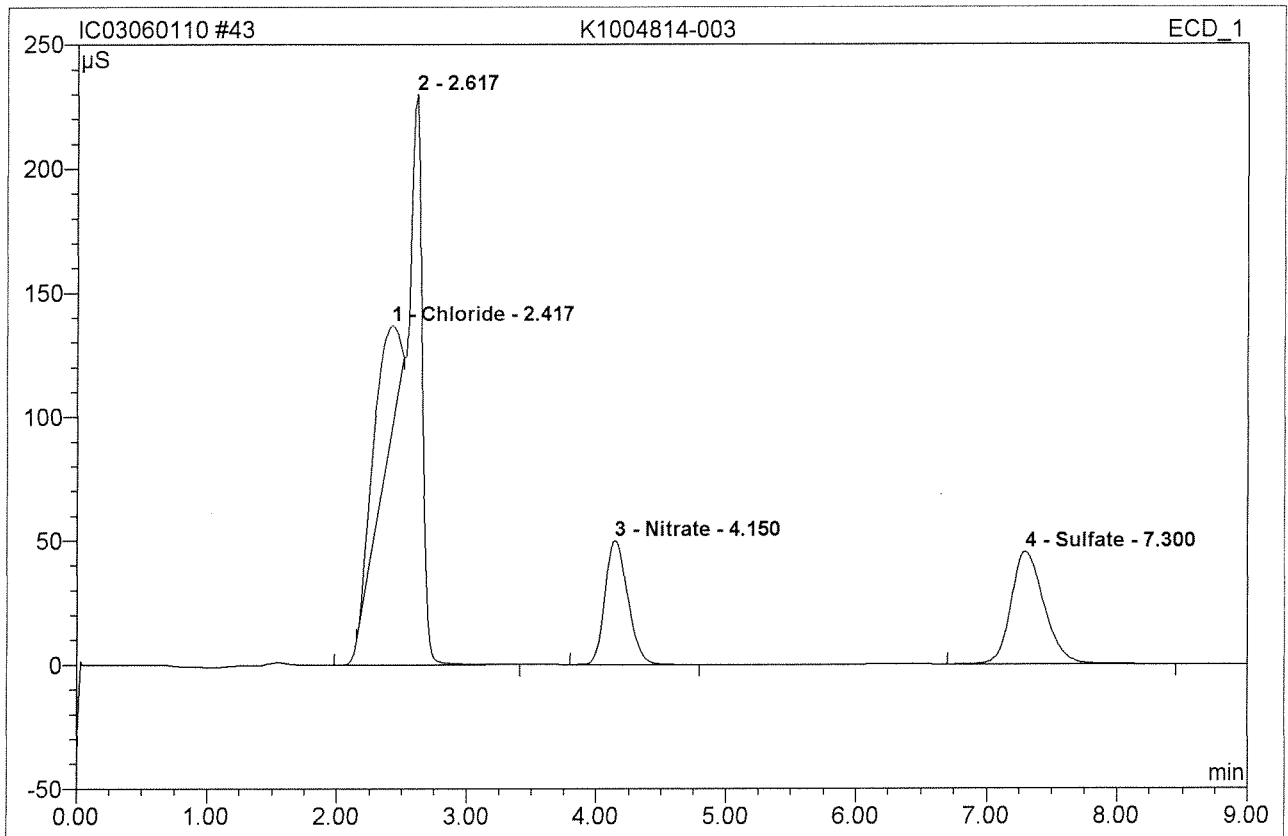


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.40	n.a.	20.085	4.747	4.03	n.a.	Ru
2	2.55	Chloride	173.091	37.667	31.95	48.305	BMB
3	2.90	Nitrite	0.883	0.137	0.12	0.095	bMB
4	4.08	Nitrate	234.077	51.083	43.34	27.733	BMB
5	7.27	Sulfate	78.386	24.243	20.57	49.270	BMB
Total:			506.522	117.877	100.00	125.403	

Before

JUN 01 2010

43 K1004814-003			
Sample Name:	K1004814-003	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:	2.0000
Recording Time:	6/1/2010 17:06	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

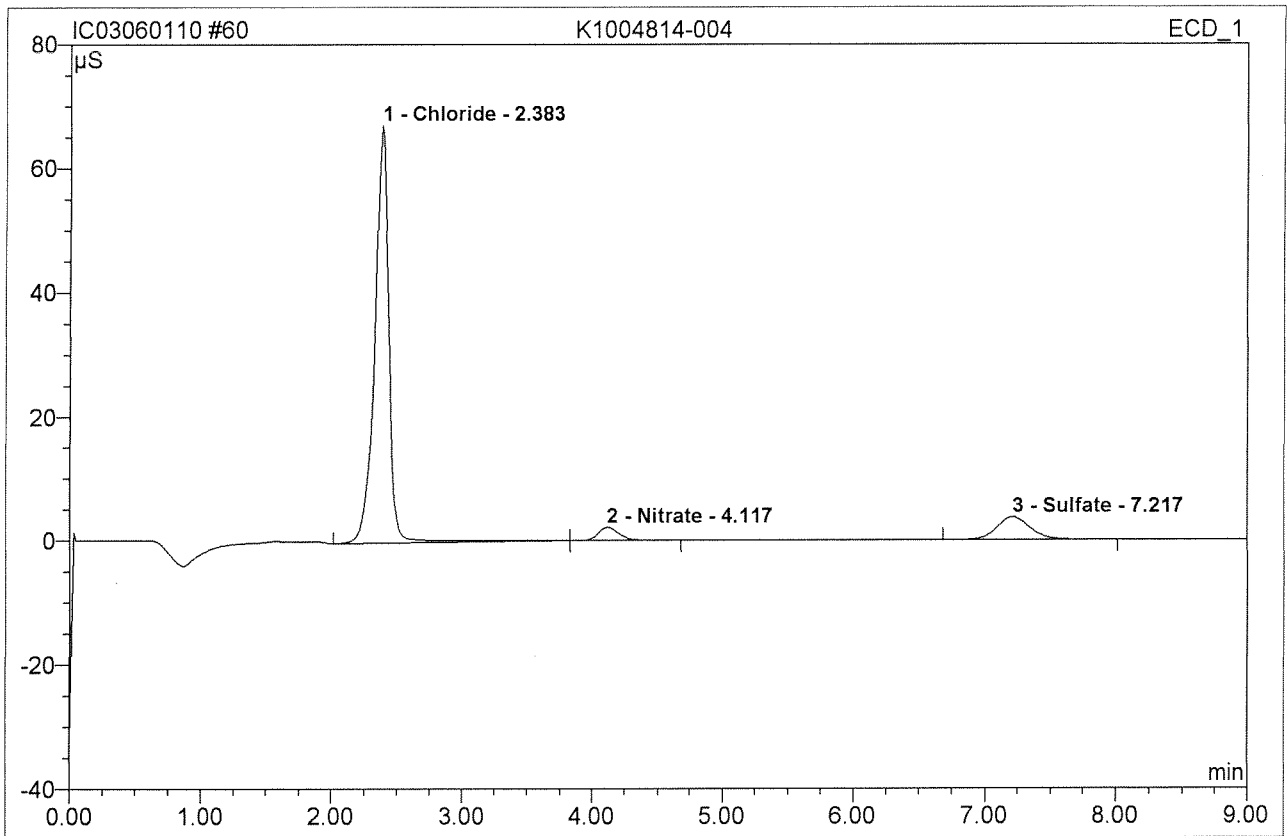


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.42	Chloride	44.015	11.416	13.07	14.641	Ru
2	2.62	n.a.	230.080	52.404	59.98	n.a.	BMB
3	4.15	Nitrate	50.089	10.235	11.71	5.556	BMB
4	7.30	Sulfate	45.329	13.319	15.24	27.070	BMB
Total:			369.513	87.375	100.00	47.267	

6/1/2010

JUN 01 2010

60 K1004814-004			
Sample Name:	K1004814-004	Injection Volume:	200.0
Vial Number:	58	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	6/1/2010 20:34	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

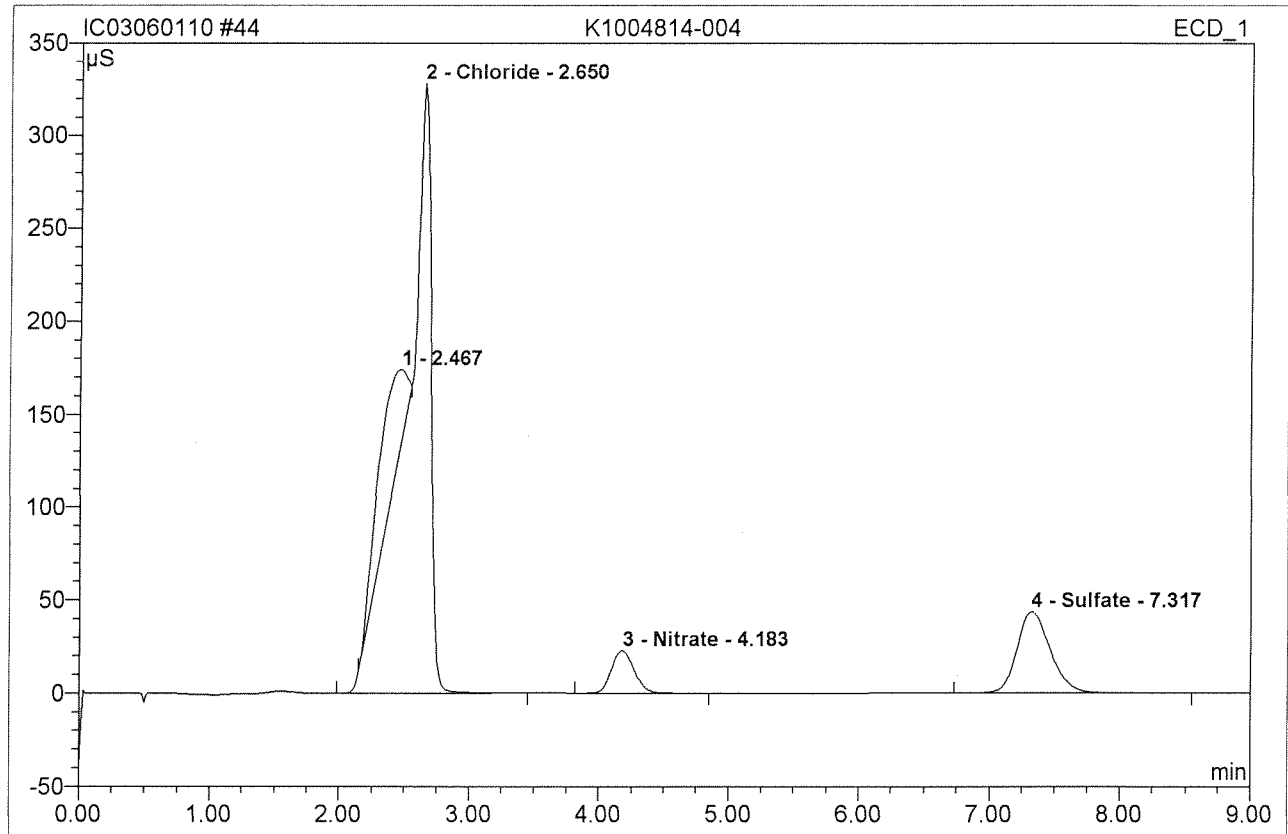


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.38	Chloride	67.351	8.506	85.17	109.079	BMB
2	4.12	Nitrate	2.130	0.396	3.97	2.152	bMB
3	7.22	Sulfate	3.672	1.084	10.86	22.038	BMB
Total:			73.153	9.986	100.00	133.269	

Before

JUN 02 2010

44 K1004814-004			
Sample Name:	K1004814-004	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:	2.0000
Recording Time:	6/1/2010 17:18	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

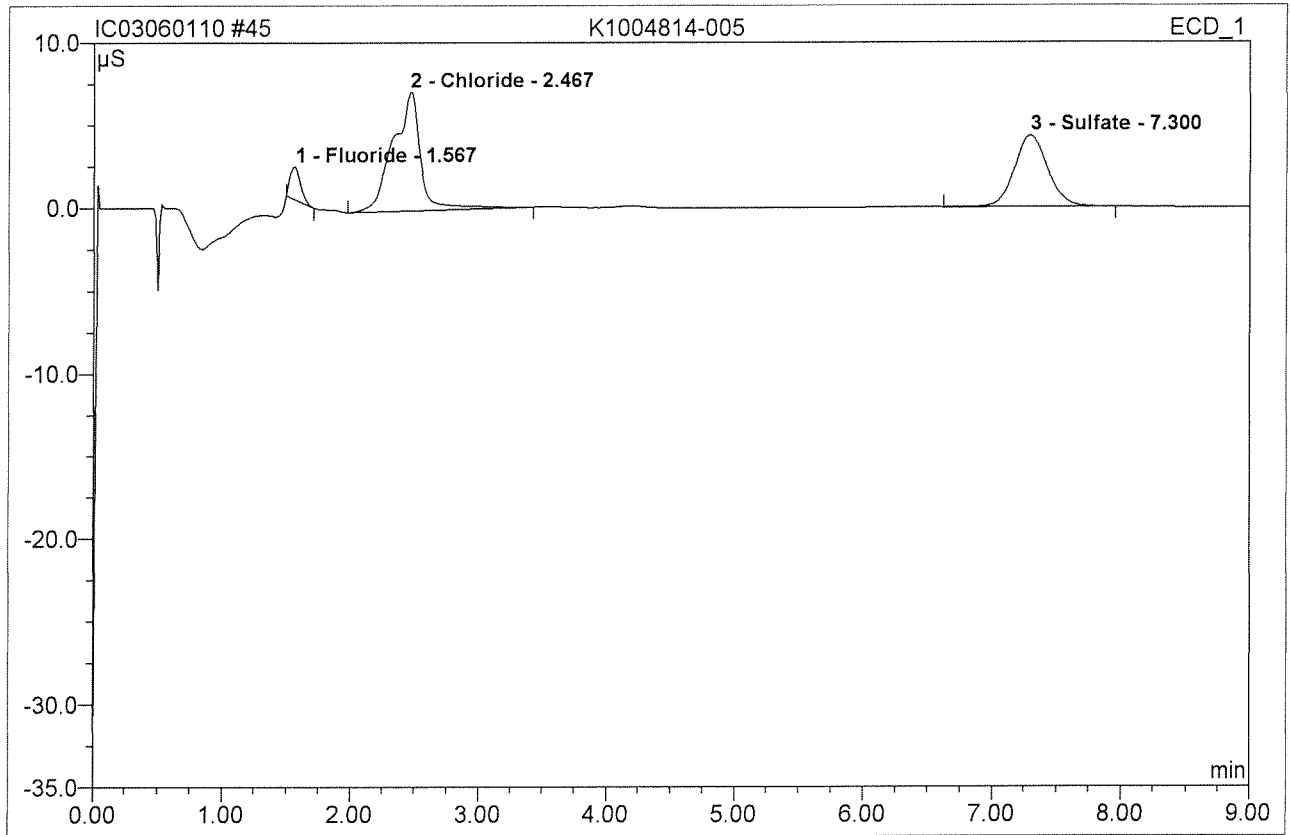


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.47	n.a.	40.567	14.644	13.30	n.a.	Ru
2	2.65	Chloride	328.117	77.739	70.61	99.694	BMB
3	4.18	Nitrate	22.984	4.654	4.23	2.527	BMB
4	7.32	Sulfate	43.774	13.060	11.86	26.543	BMB
Total:			435.442	110.097	100.00	128.764	

Before

JUN 01 2010

45 K1004814-005			
Sample Name:	K1004814-005	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:	6/1/2010 17:29	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

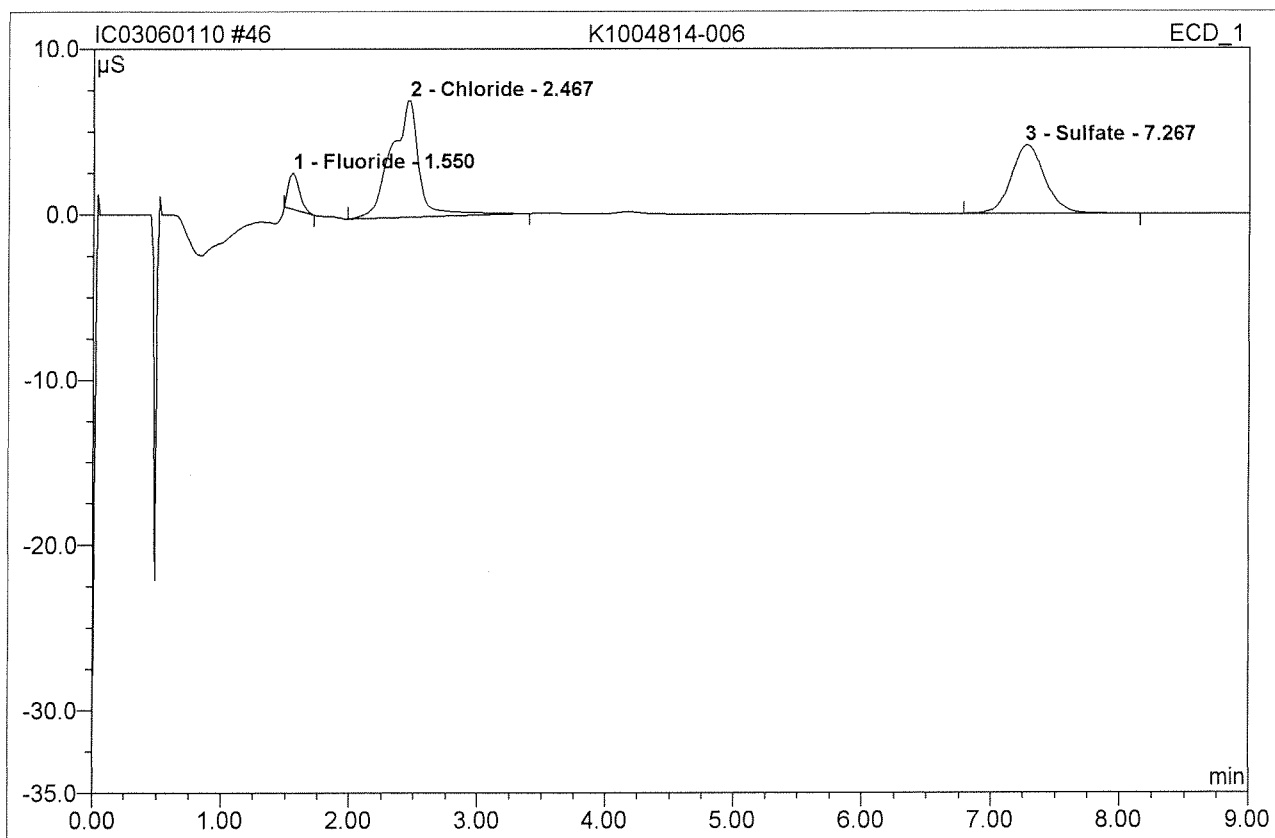


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.57	Fluoride	1.976	0.187	5.71	0.195	BMB
2	2.47	Chloride	7.177	1.793	54.83	2.300	BMB
3	7.30	Sulfate	4.321	1.290	39.46	2.622	BMB
Total:			13.473	3.270	100.00	5.117	

Before

JUN 01 2010

46 K1004814-006			
Sample Name:	K1004814-006	Injection Volume:	200.0
Vial Number:	44	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 17:41	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



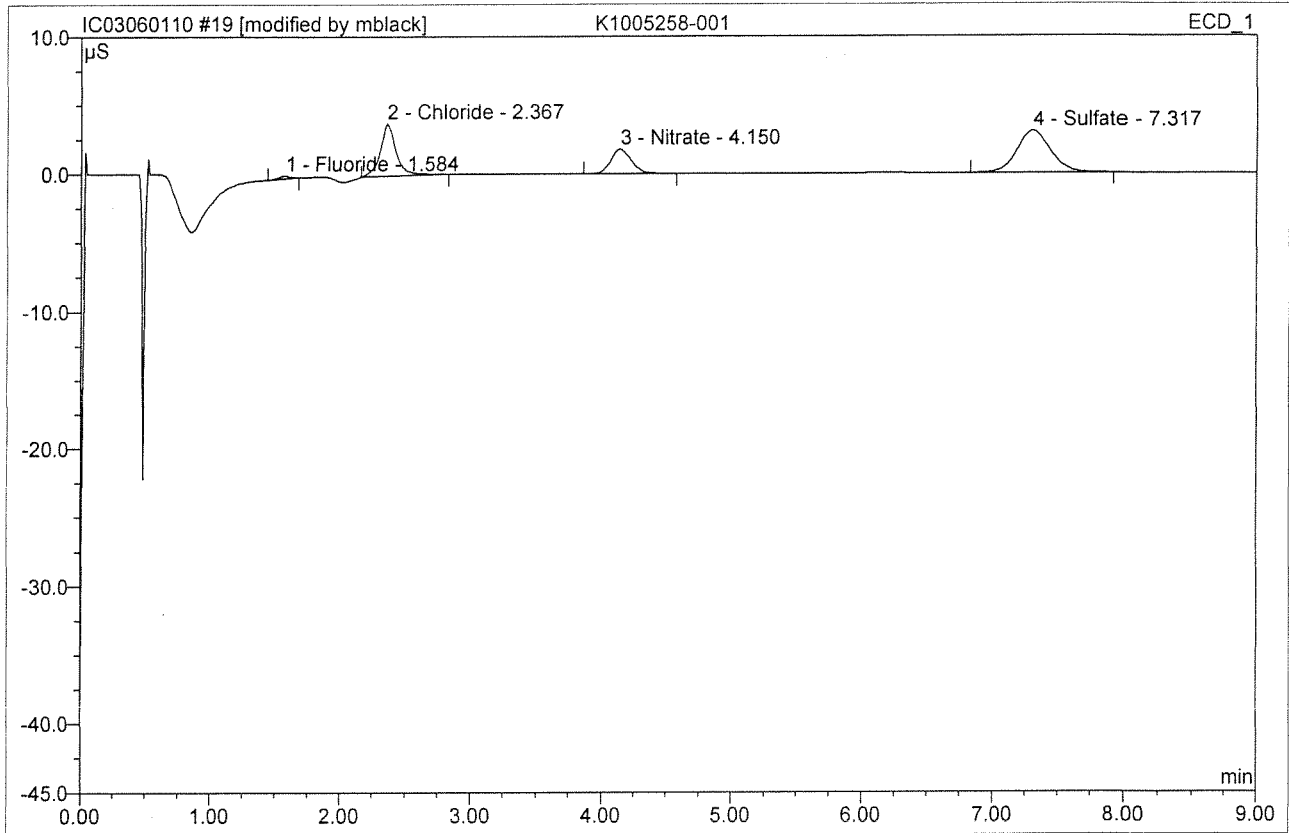
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.55	Fluoride	2.164	0.217	6.76	0.227	BMB
2	2.47	Chloride	7.036	1.761	54.83	2.258	BMB
3	7.27	Sulfate	4.120	1.234	38.42	2.508	BMB
Total:			13.320	3.212	100.00	4.993	

Before

JUN 01 2010

19 K1005258-001

Sample Name:	K1005258-001	Injection Volume:	200.0
Vial Number:	17	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 12:31	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	1.58	Fluoride $\bar{x}=0.62$ $RPD < 1.92$	0.197	0.022	1.21	0.0235	BMB*
2	2.37	Chloride $\bar{x}=0.67$ $RPD = 6.8$	3.811	0.539	30.02	0.691	BMB*
3	4.15	Nitrate	1.773	0.325	18.14	0.177	BMB*
4	7.32	Sulfate $\bar{x}=1.85$ $RPD = 4.19$	3.042	0.908	50.63	1.846	BMB
Total:			8.822	1.794	100.00	2.736	

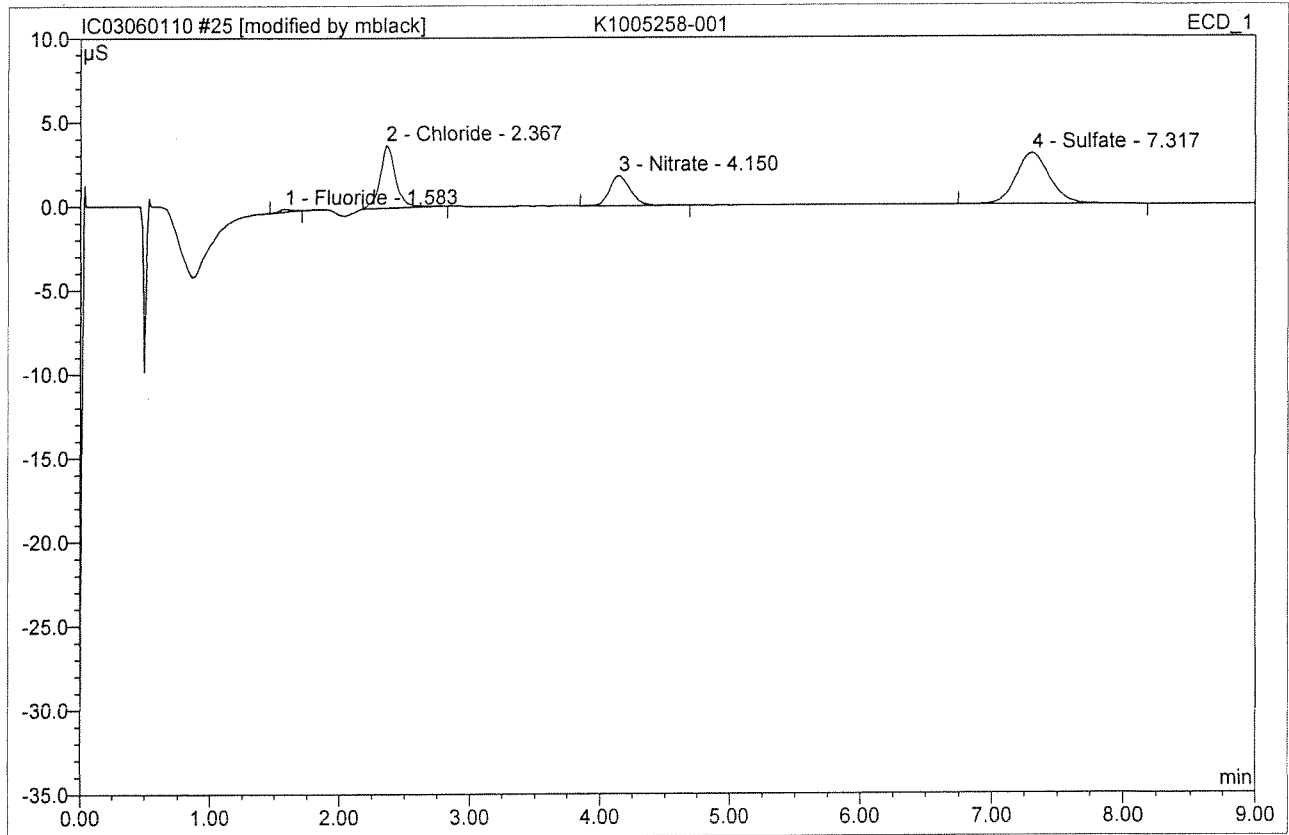
After Initials

MB

JUN 01 2010

Handwritten signature

25 K1005258-001			
5258-1D			
Sample Name:	K1005258-001	Injection Volume:	200.0
Vial Number:	23	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 13:40	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	1.58	Fluoride	0.185	0.021	1.17	0.022 J	BMB*
2	2.37	Chloride	3.722	0.509	28.83	0.653	BMB*
3	4.15	Nitrate	1.776	0.327	18.49	0.177	BMB*
4	7.32	Sulfate	3.030	0.910	51.52	1.849	BMB
Total:			8.713	1.766	100.00	2.701	

After Initials

(Signature)

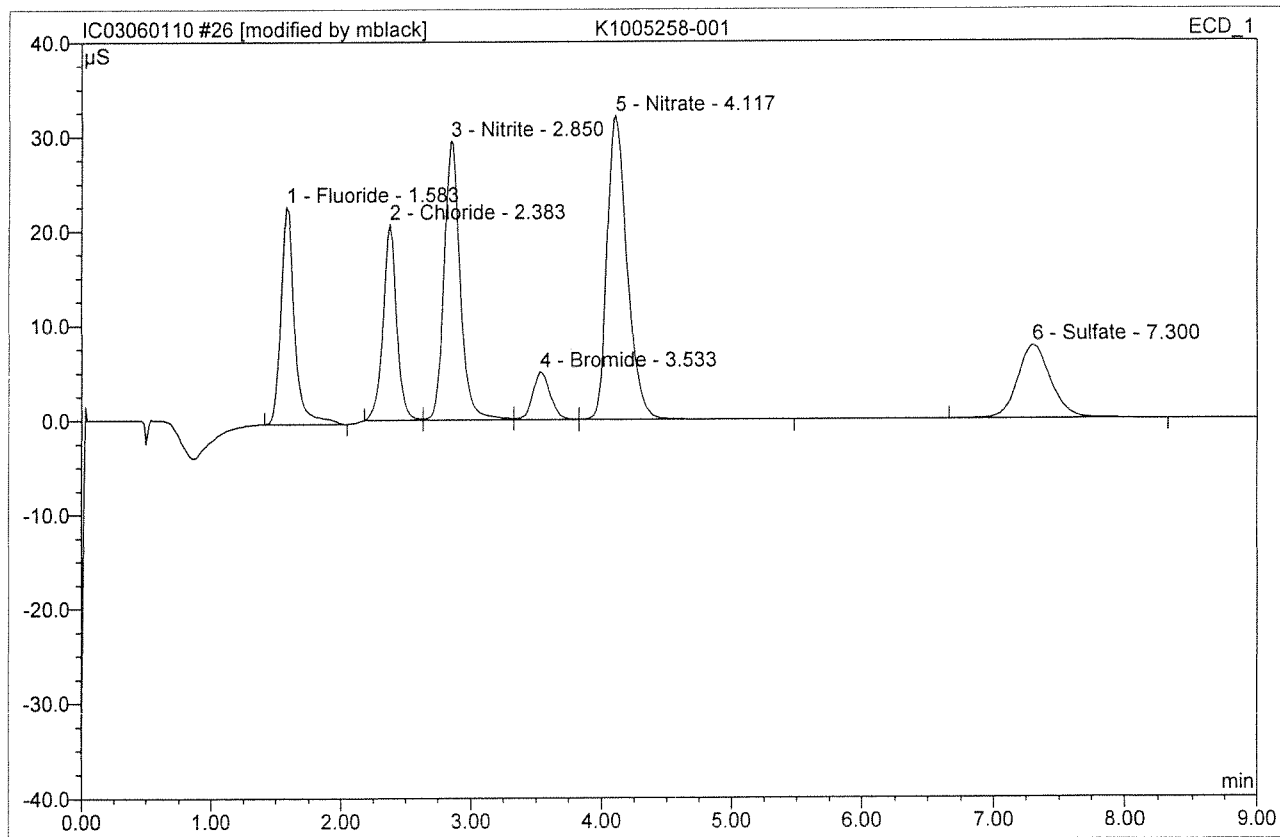
JUN 01 2010

(Handwritten signature)
6/2/10

26 K1005258-001

5258-1MS

Sample Name:	K1005258-001	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:	6/1/2010 13:51	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	1.58	Fluoride	22.967	2.813	15.28	2.94077?	BMB*
2	2.38	Chloride	20.708	2.508	13.63	3.21784?	BM *
3	2.85	Nitrite	29.466	4.269	23.20	2.95799?	M *
4	3.53	Bromide	5.046	0.800	4.35	2.986100?	M *
5	4.12	Nitrate	32.152	5.745	31.21	3.11978?	MB*
6	7.30	Sulfate	7.696	2.271	12.34	4.61592?	BMB
Total:			118.034	18.406	100.00	19.834	

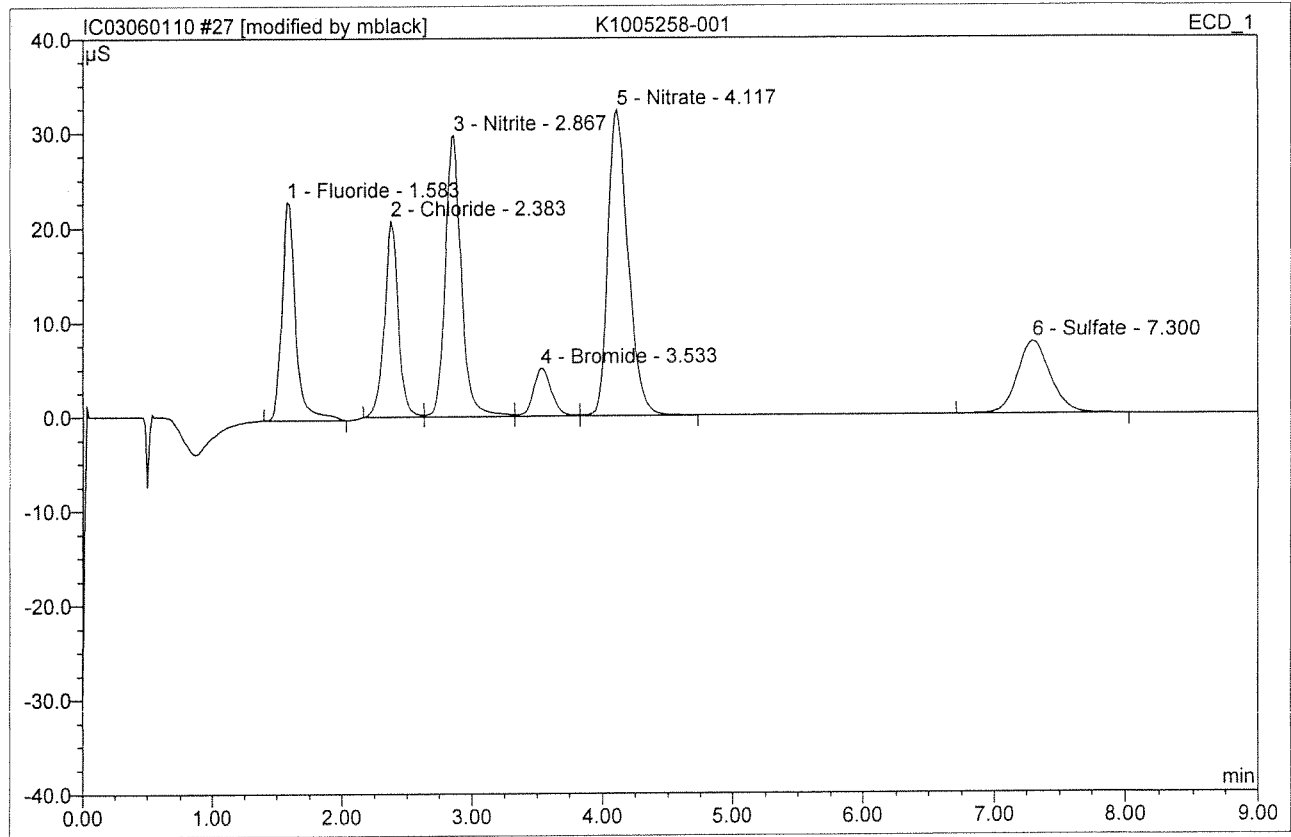
Handwritten note: N=3.00

After Initial **MB**

JUN 01 2010

Handwritten signature and date: MB 6/2/10

27 K1005258-001			
5258-1MSD			
Sample Name:	K1005258-001	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:	6/1/2010 14:03	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	1.58	Fluoride	23.134	2.851	15.33	2.980 ^{99%}	BMB*
2	2.38	Chloride	20.835	2.552	13.72	3.27286 [?]	BM *
3	2.87	Nitrite	29.773	4.344	23.36	3.009 ^{100%}	M *
4	3.53	Bromide	5.118	0.821	4.42	3.066 ^{102%}	M *
5	4.12	Nitrate	32.348	5.770	31.03	3.132 ^{82%}	MB*
6	7.30	Sulfate	7.712	2.259	12.15	4.591 ^{91%}	BMB
Total:			118.920	18.596	100.00	20.050	

N=3.00

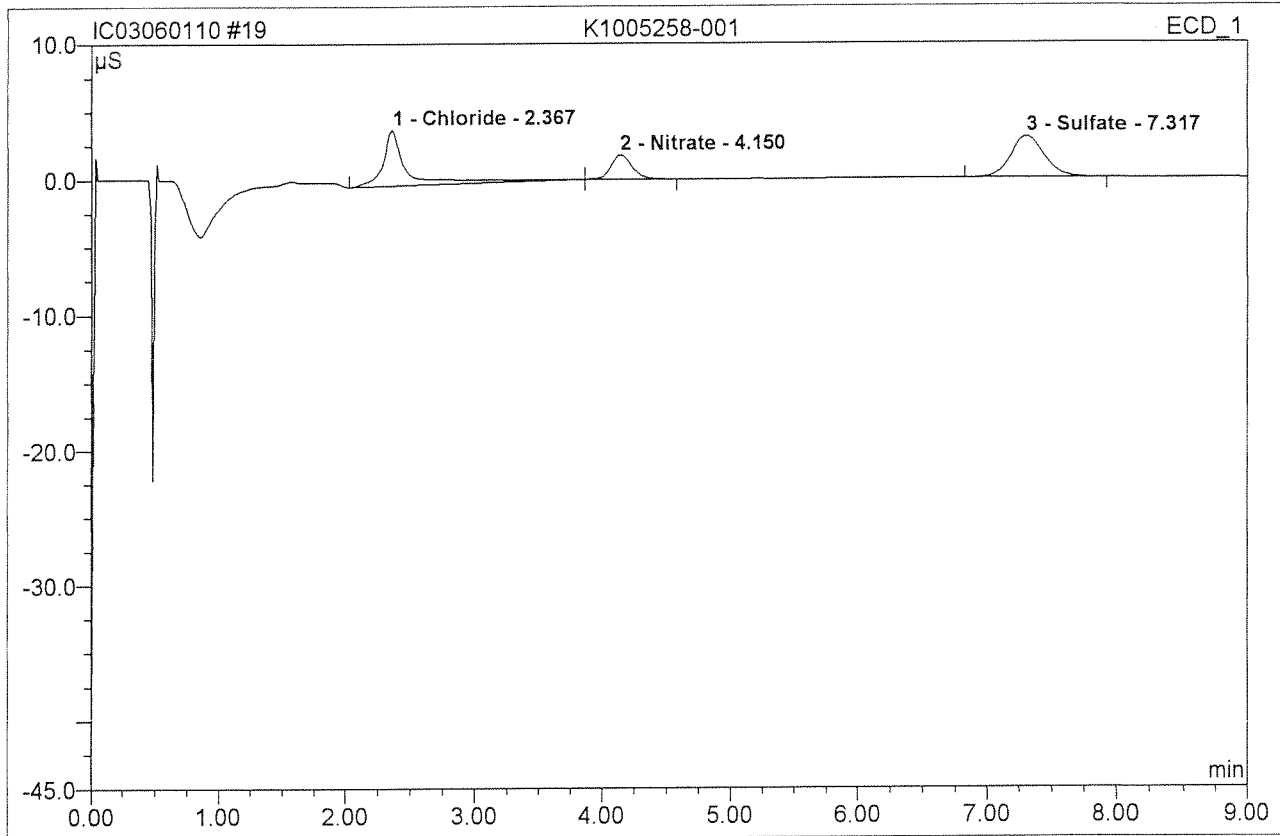
After Initials MB

JUN 01 2010

Handwritten signature
6/2/10

19 K1005258-001

Sample Name:	K1005258-001	Injection Volume:	200.0
Vial Number:	17	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 12:31	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



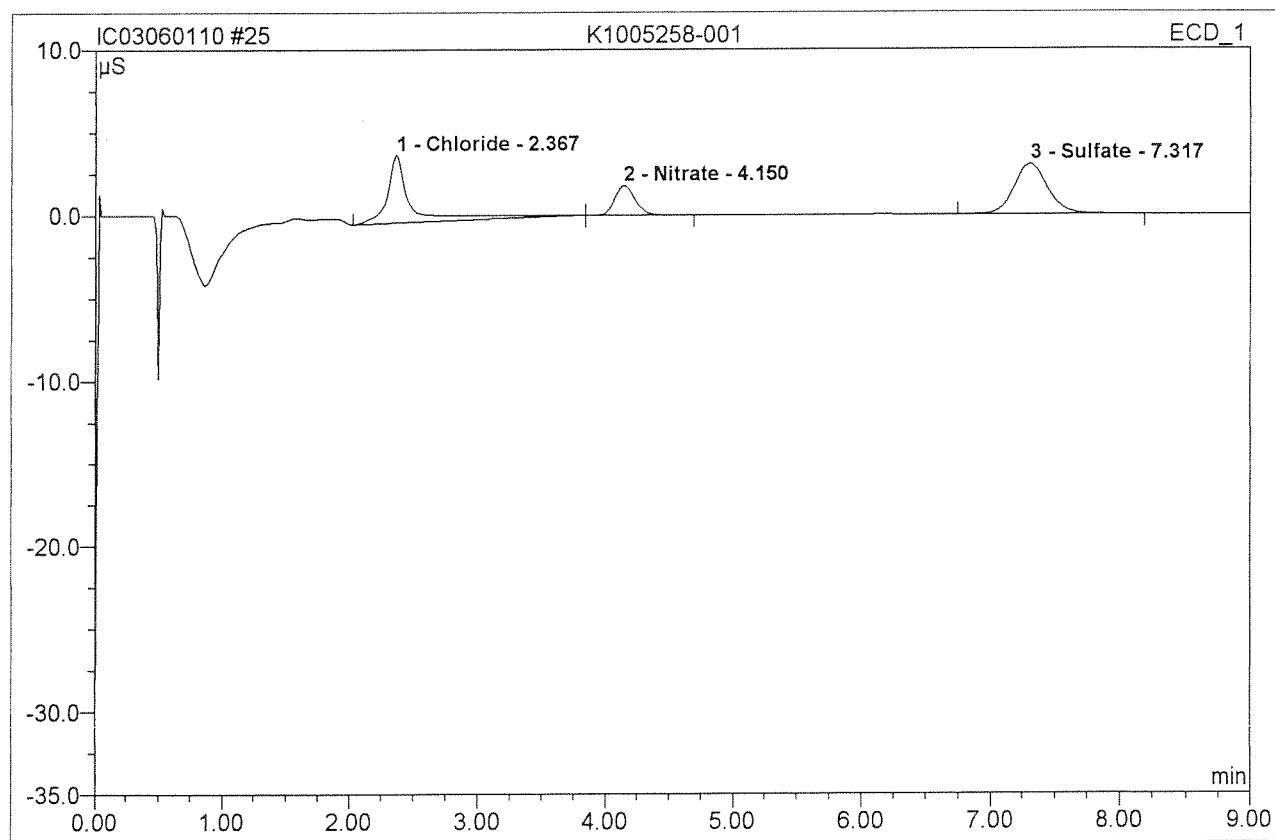
No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %	Amount	Type
1	2.37	Chloride	4.136	0.935	43.12	1.199	BMB
2	4.15	Nitrate	1.773	0.325	15.00	0.177	bMB
3	7.32	Sulfate	3.042	0.908	41.88	1.846	BMB
Total:			8.951	2.169	100.00	3.221	

Before

JUN 01 2010

25 K1005258-001**5258-1D**

Sample Name:	K1005258-001	Injection Volume:	200.0
Vial Number:	23	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 13:40	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



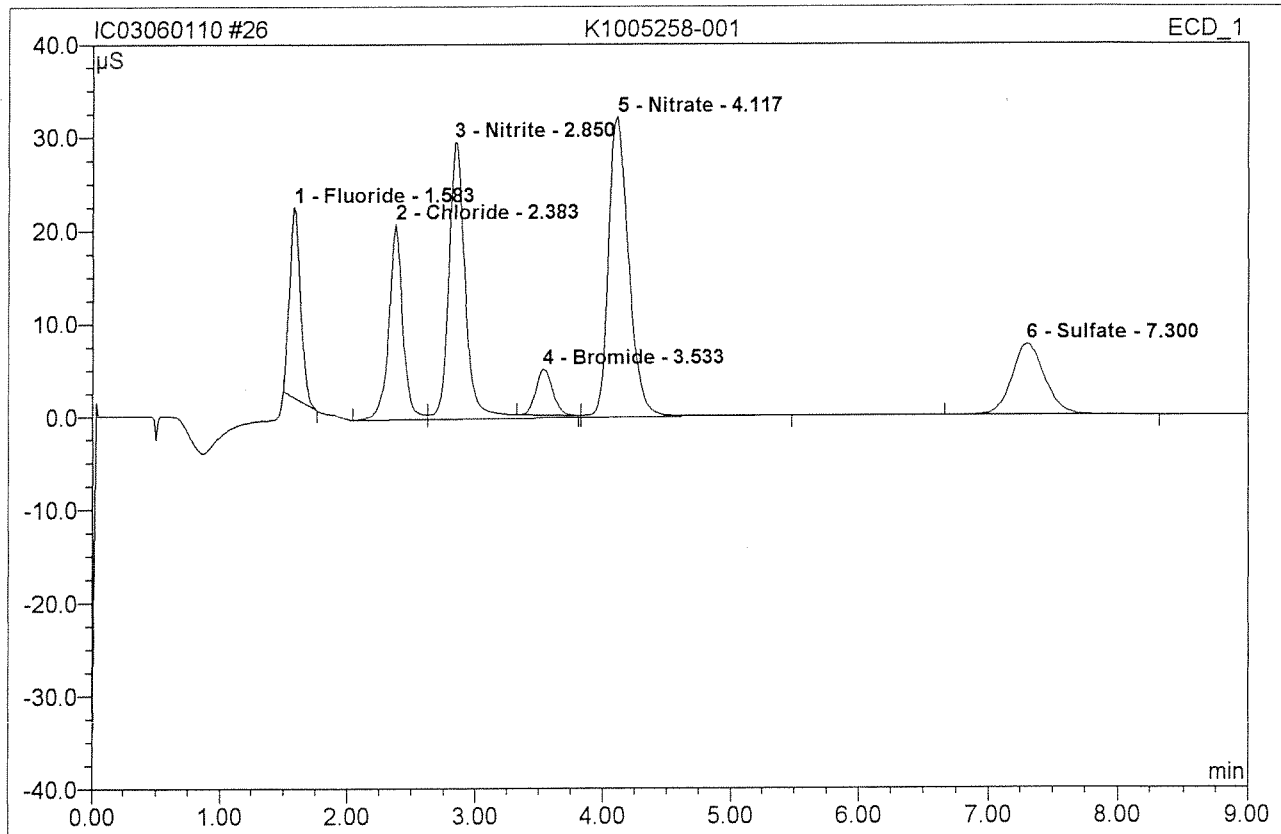
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	2.37	Chloride	4.085	0.918	42.61	1.177	BMB
2	4.15	Nitrate	1.776	0.327	15.16	0.177	bMB
3	7.32	Sulfate	3.030	0.910	42.24	1.849	BMB
Total:			8.890	2.155	100.00	3.204	

Before

JUN 01 2010

26 K1005258-001**5258-1MS**

Sample Name:	K1005258-001	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:	6/1/2010 13:51	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



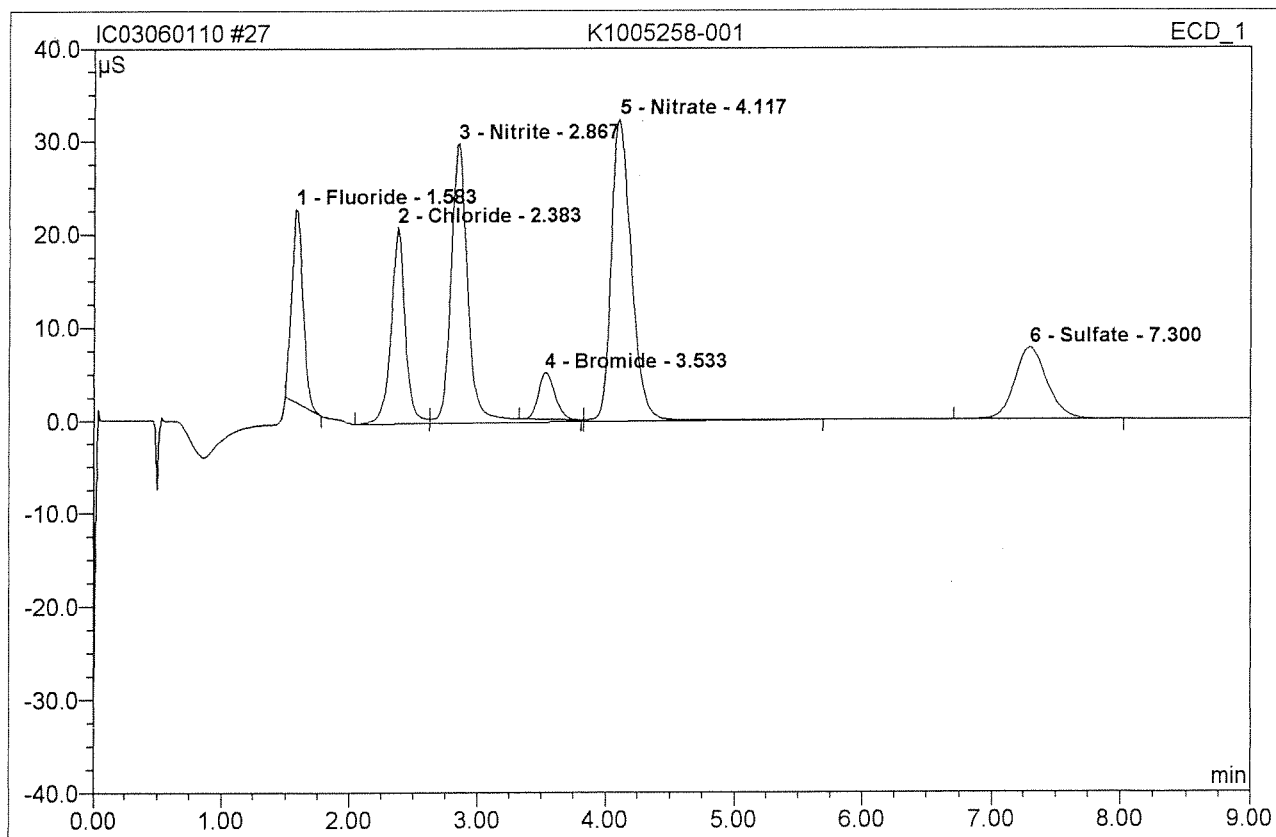
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	20.457	2.051	11.23	2.144	BMB
2	2.38	Chloride	21.056	2.682	14.68	3.439	BM
3	2.85	Nitrite	29.761	4.624	25.31	3.203	M
4	3.53	Bromide	4.932	0.748	4.09	2.793	Rd
5	4.12	Nitrate	32.305	5.898	32.27	3.202	MB
6	7.30	Sulfate	7.696	2.271	12.43	4.615	BMB
Total:			116.208	18.273	100.00	19.395	

Before

JUN 01 2010

27 K1005258-001**5258-1MSD**

Sample Name:	K1005258-001	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:	6/1/2010 14:03	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

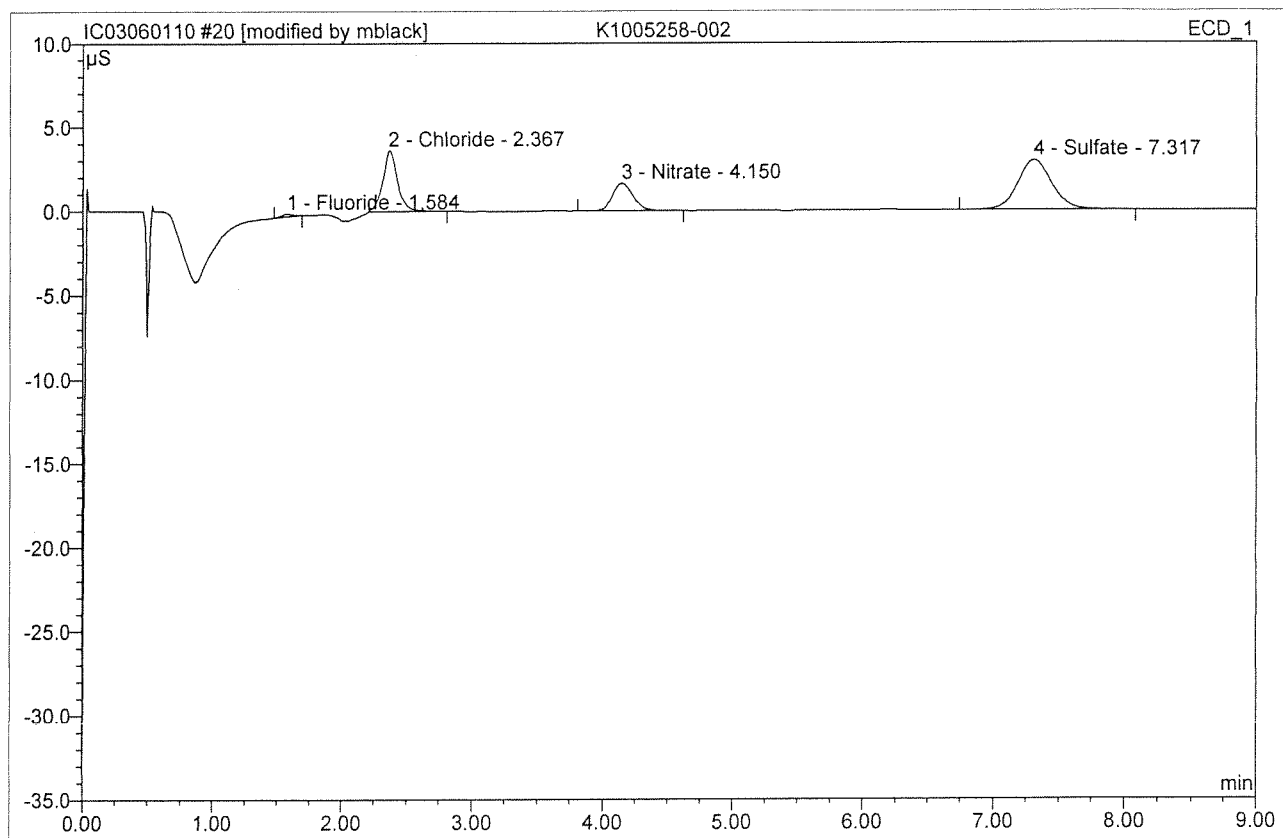


No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount	Type
1	1.58	Fluoride	20.711	2.107	11.43	2.203	BMB
2	2.38	Chloride	21.098	2.686	14.57	3.444	BM
3	2.87	Nitrite	30.007	4.665	25.31	3.231	M
4	3.53	Bromide	4.975	0.756	4.10	2.822	Rd
5	4.12	Nitrate	32.508	5.960	32.33	3.235	MB
6	7.30	Sulfate	7.712	2.259	12.25	4.591	BMB
Total:			117.012	18.432	100.00	19.526	

Before

JUN 01 2010

20 K1005258-002			
Sample Name:	K1005258-002	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 12:43	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	1.58	Fluoride $\bar{x}=0.02$ $RPD=21\%$	0.180	0.019	1.12	0.020	BMB*
2	2.37	Chloride $\bar{x}=0.62$ $RPD=29\%$	3.591	0.475	28.07	0.609	BMB*
3	4.15	Nitrate	1.644	0.303	17.90	0.164	BMB*
4	7.32	Sulfate $\bar{x}=1.82$ $RPD=21\%$	2.969	0.895	52.91	1.819	BMB
Total:			8.383	1.692	100.00	2.612	

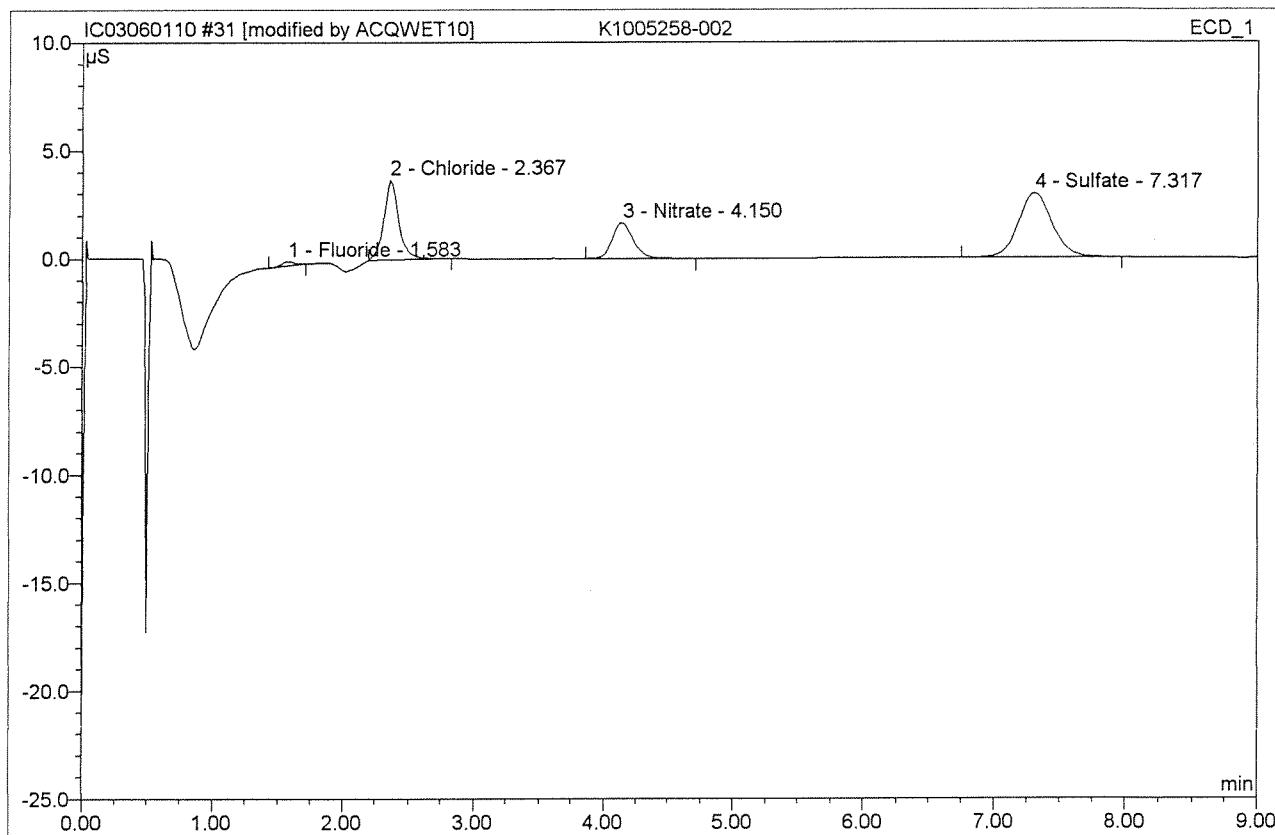
After
Initials

MB

6/2/10

JUN 01 2010

31 K1005258-002	
5258-2D	
Sample Name:	K1005258-002
Vial Number:	29
Sample Type:	unknown
Control Program:	epa300
Quantif. Method:	epa300
Recording Time:	6/1/2010 14:49
Run Time (min):	9.00
Injection Volume:	200.0
Channel:	ECD_1
Wavelength:	n.a.
Bandwidth:	n.a.
Dilution Factor:	2.0000
Sample Weight:	1.0000
Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	0.191	0.022	1.27	0.023	BMB*
2	2.37	Chloride	3.675	0.484	28.34	0.620	BMB*
3	4.15	Nitrate	1.637	0.304	17.82	0.165	BMB*
4	7.32	Sulfate	2.982	0.897	52.58	1.824	BMB
Total:			8.486	1.707	100.00	2.632	

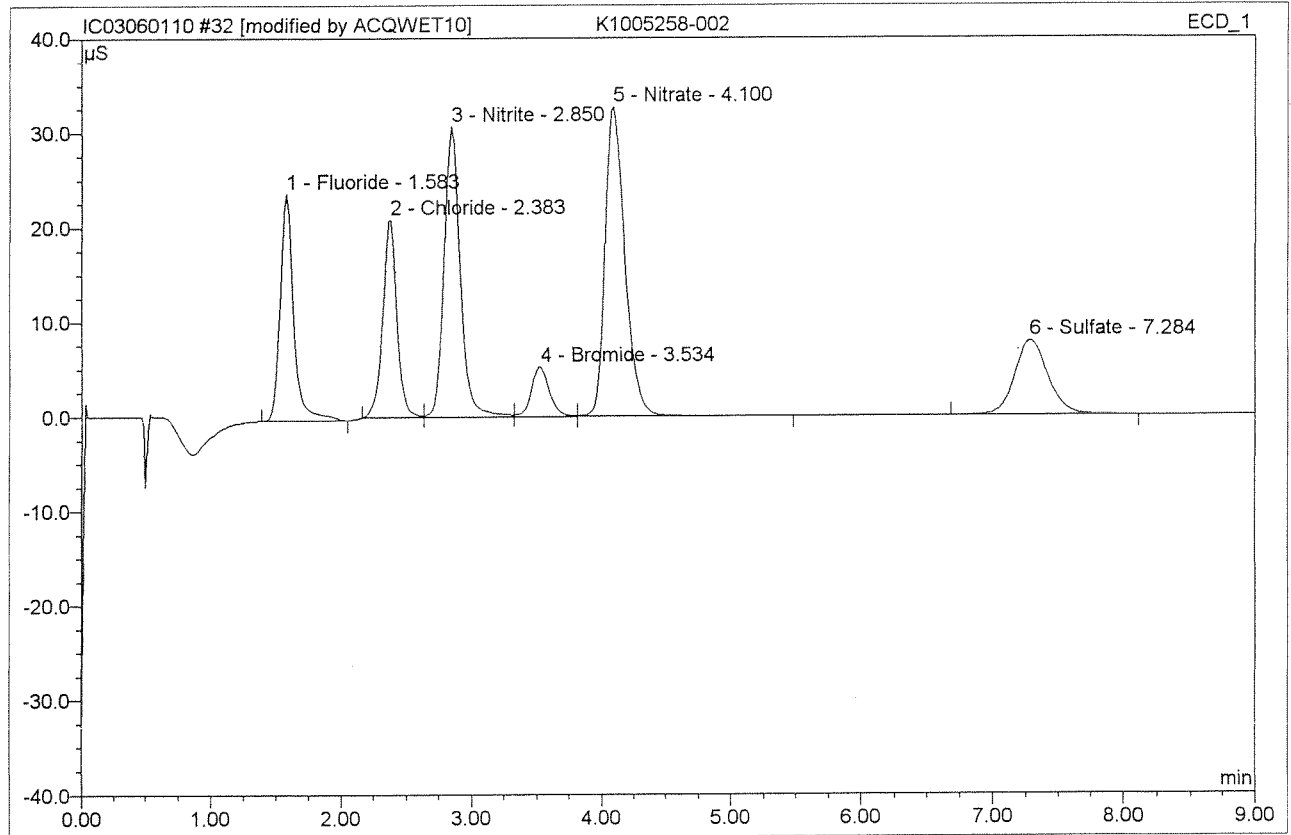
After Initials

MB

JUN 01 2010

MB 6/2/10

32 K1005258-002			
5258-2MS			
Sample Name:	K1005258-002	Injection Volume:	200.0
Vial Number:	30	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 15:00	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	1.58	Fluoride	23.980	2.911	15.40	3.043 101%	BMB*
2	2.38	Chloride	20.871	2.594	13.72	3.326 91%	BM *
3	2.85	Nitrite	30.608	4.415	23.35	3.058 102%	M *
4	3.53	Bromide	5.252	0.839	4.44	3.133 104%	M *
5	4.10	Nitrate	32.658	5.836	30.86	3.168 100%	MB*
6	7.28	Sulfate	7.856	2.313	12.23	4.702 96%	BMB
Total:			121.226	18.909	100.00	20.430	

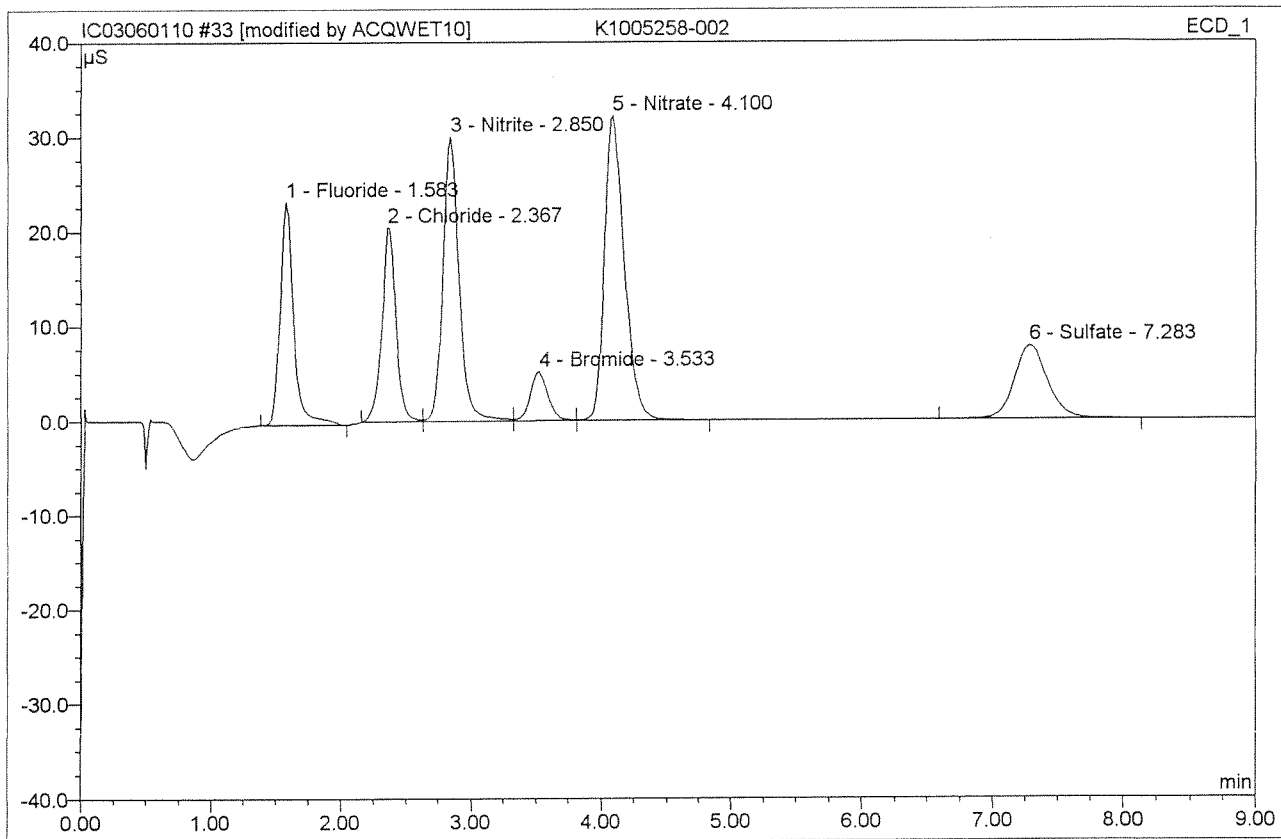
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MB

6/1/2010

6/2/10

33 K1005258-002			
5258-2MSD			
Sample Name:	K1005258-002	Injection Volume:	200.0
Vial Number:	31	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 15:12	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	23.546	2.846	15.35	2.97599%	BMB*
2	2.37	Chloride	20.445	2.545	13.73	3.26458%	BM*
3	2.85	Nitrite	30.053	4.333	23.37	3.00162%	M*
4	3.53	Bromide	5.128	0.816	4.40	3.047162%	M*
5	4.10	Nitrate	32.193	5.726	30.89	3.10995%	MB*
6	7.28	Sulfate	7.702	2.272	12.26	4.61873%	BMB
Total:			119.066	18.538	100.00	20.013	

N=3.00

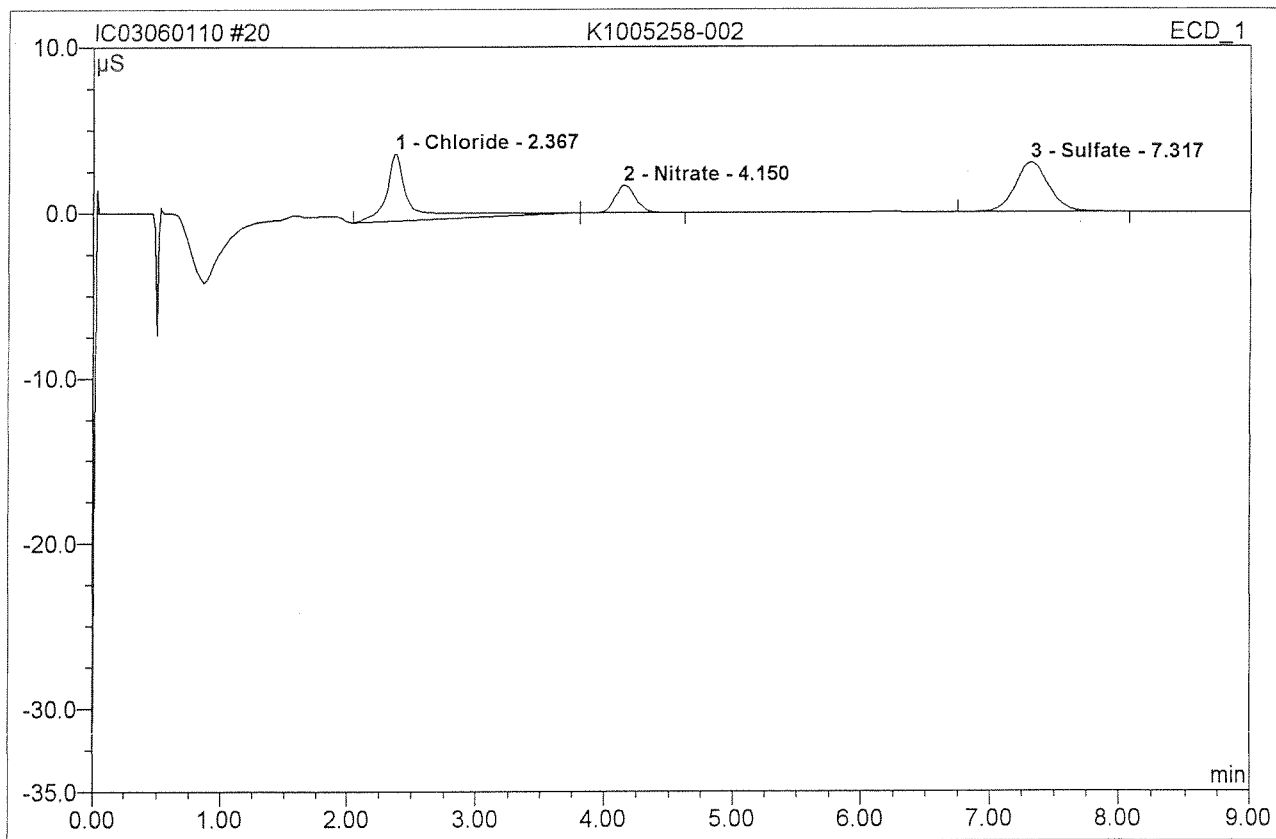
After: MB

JUN 01 2010

6/2/10

20 K1005258-002

Sample Name:	K1005258-002	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 12:43	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

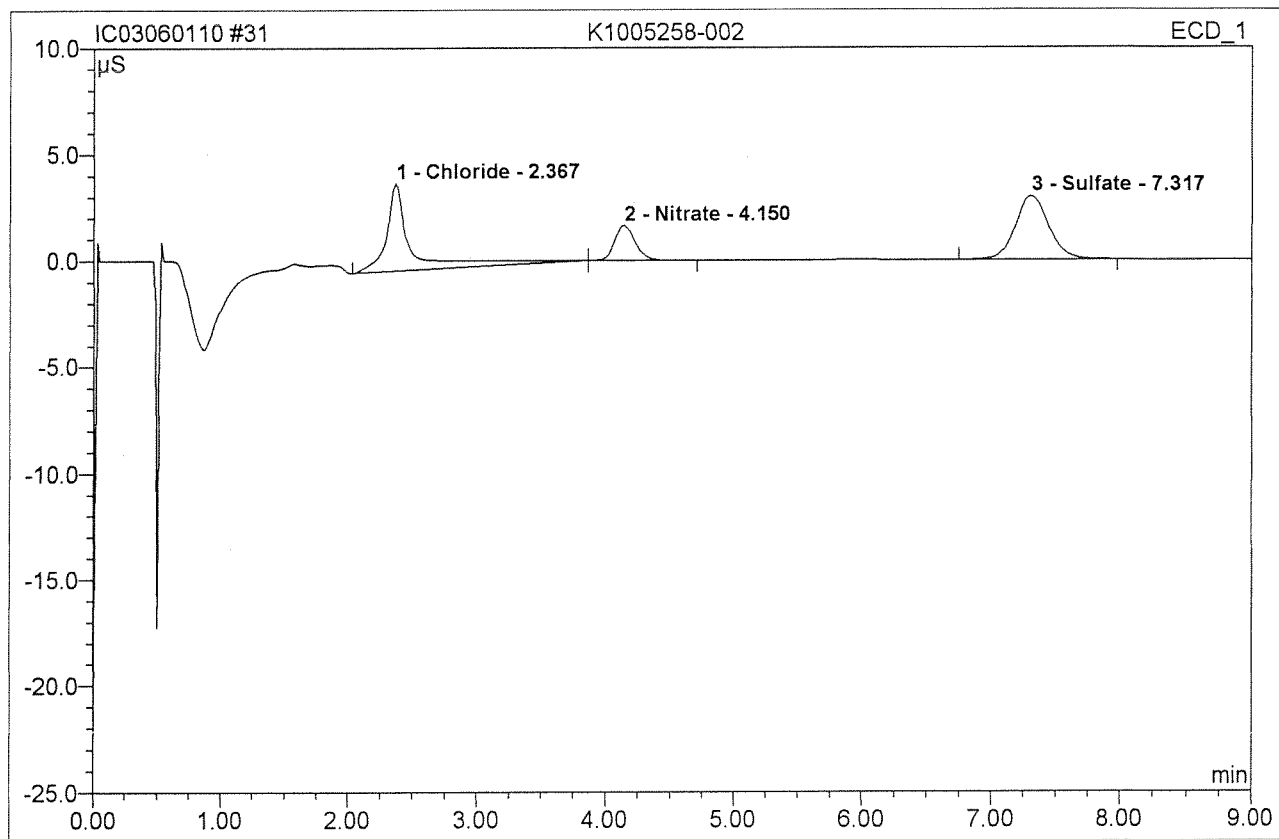


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.37	Chloride	4.051	0.919	43.42	1.179	BMB
2	4.15	Nitrate	1.644	0.303	14.30	0.164	bMB
3	7.32	Sulfate	2.969	0.895	42.28	1.819	BMB
Total:			8.664	2.117	100.00	3.163	

Before

JUN 01 2010

31 K1005258-002			
5258-2D			
Sample Name:	K1005258-002	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:	6/1/2010 14:49	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	2.37	Chloride	4.112	0.942	43.96	1.209	BMB
2	4.15	Nitrate	1.637	0.304	14.19	0.165	bMB
3	7.32	Sulfate	2.982	0.897	41.86	1.824	BMB
Total:			8.732	2.144	100.00	3.197	

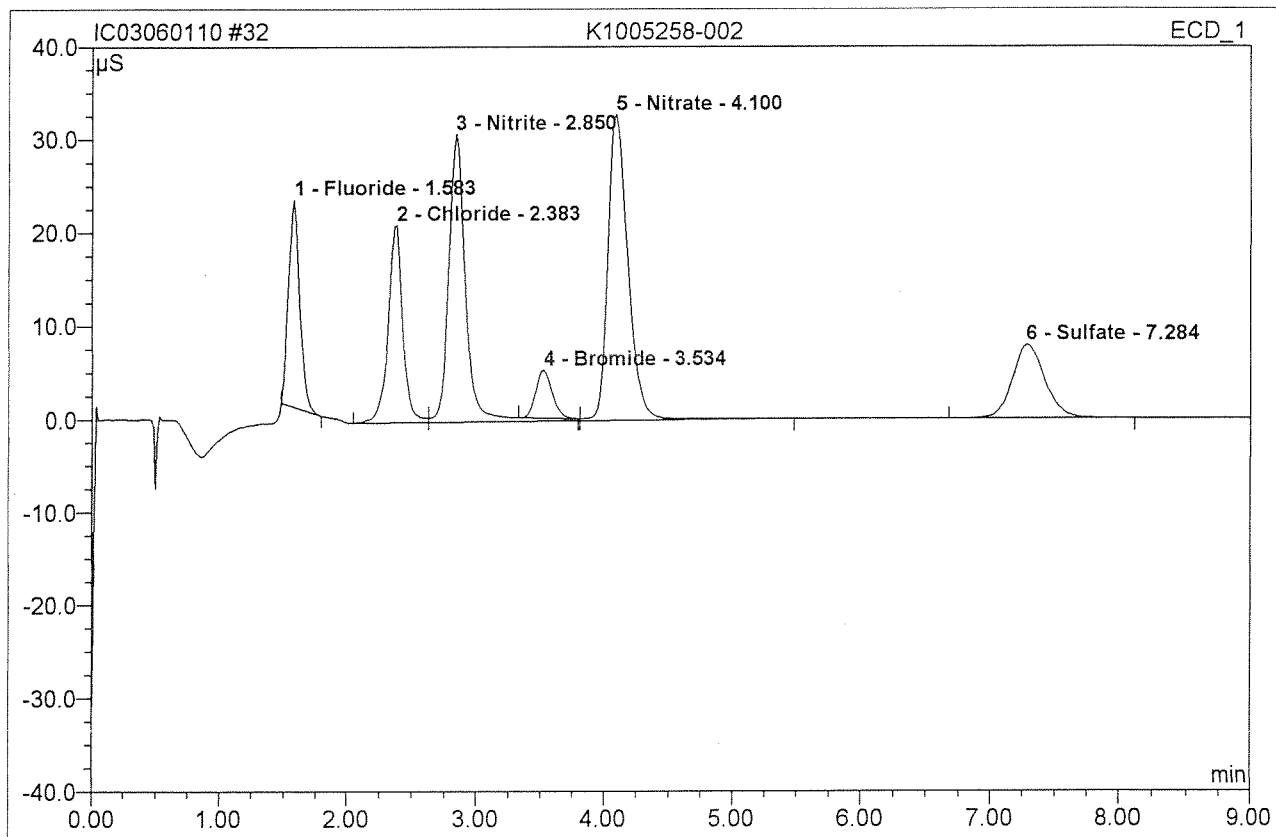
Before

JUN 01 2010

32 K1005258-002

5258-2MS

Sample Name:	K1005258-002	Injection Volume:	200.0
Vial Number:	30	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 15:00	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

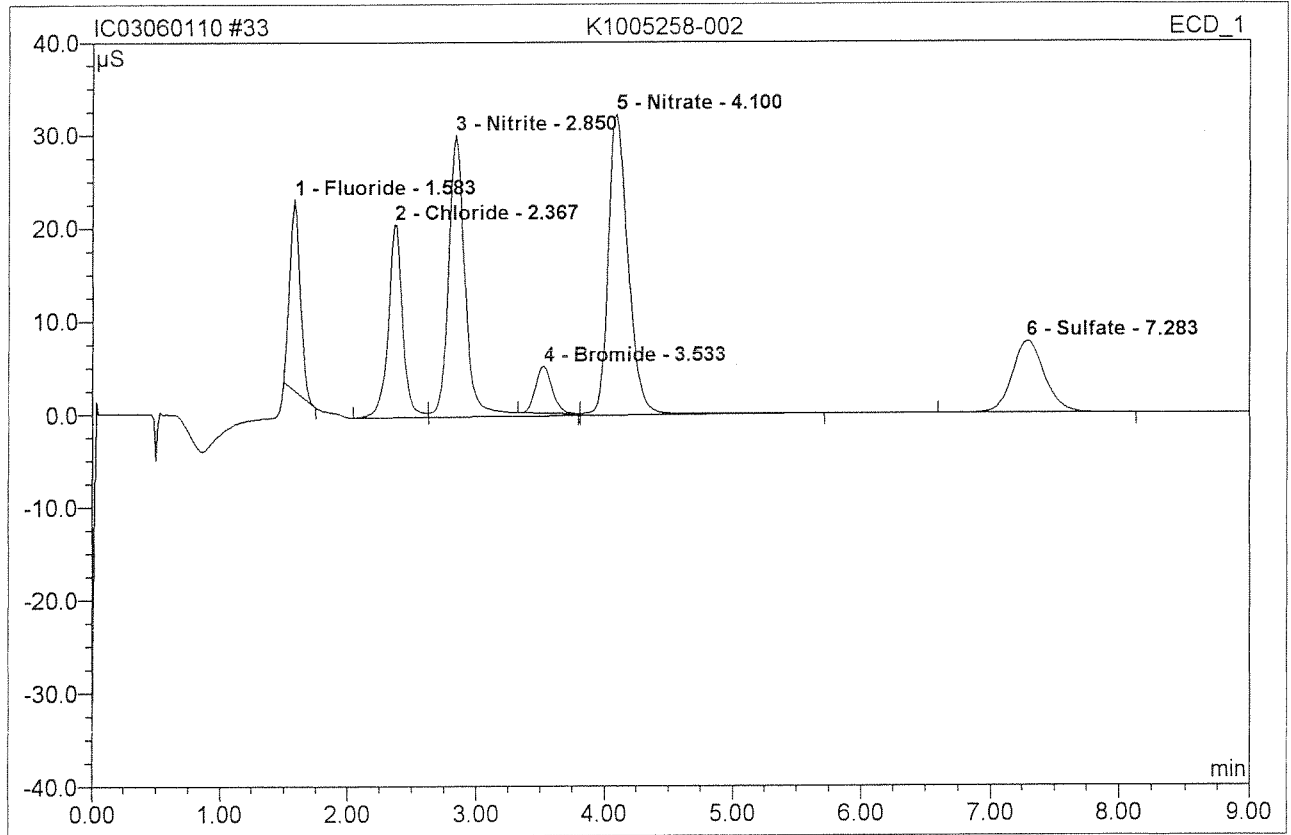


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	22.227	2.295	12.17	2.399	BMB
2	2.38	Chloride	21.179	2.752	14.60	3.529	BM
3	2.85	Nitrite	30.869	4.750	25.19	3.290	M
4	3.53	Bromide	5.099	0.770	4.08	2.873	Rd
5	4.10	Nitrate	32.795	5.974	31.68	3.243	MB
6	7.28	Sulfate	7.856	2.313	12.27	4.702	BMB
Total:			120.024	18.854	100.00	20.036	

Before

JUN 01 2010

33 K1005258-002			
5258-2MSD			
Sample Name:	K1005258-002	Injection Volume:	200.0
Vial Number:	31	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	6/1/2010 15:12	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	20.538	1.978	10.81	2.067	BMB
2	2.37	Chloride	20.748	2.700	14.76	3.462	BM
3	2.85	Nitrite	30.316	4.671	25.54	3.236	M
4	3.53	Bromide	4.988	0.753	4.12	2.811	Rd
5	4.10	Nitrate	32.354	5.914	32.34	3.211	MB
6	7.28	Sulfate	7.702	2.272	12.42	4.618	BMB
Total:			116.647	18.288	100.00	19.405	

Before

JUN 01 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>7/17/10</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0107-10-02</u>	Expires: <u>5/1/10</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>NR</u>	Expires: <u>NR</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-L</u>	Expires: <u>NR</u>
Nitrate	True Value = 21.0 ppm	CAS ID # = <u>AN1-33-E</u>	Expires: <u>NR</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-P</u>	Expires: <u>8/1/10</u>	
Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>10/25/10</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-F</u>	Expires: <u>5/5/10</u>
Nitrite	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-N</u>	Expires: <u>NR</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-20-DD</u>	Expires: <u>NR</u>
Nitrate	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-I</u>	Expires: <u>NR</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# = AN1-10-u Expires 6/1/10

Fluoride	10K CAS ID # = <u>AN1-33-M</u>	Expires: _____	} rec 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: (MB) Date: 6/1/10

First Review: (MB) Date: 6/1/10

Final Review: [Signature] Date: 6/2/10

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K5258-1 Shaw MDL	III	X		6/2	(F)	2.5/5		2.5/5 ✓	✓
					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4			✓	
-2					(F)	2.5/5		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			✓	
-6					(F)	2.5/5			✓
					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4			✓	
K4744-1 Exponent MDL	III			6/3	(F)	2.5/5	1/5 c		✓
					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4			✓	
-2					(F)			1/5 c 100x	✓
					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4			✓	
-3					(F)			5/5	✓
					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4			✓	
-4					(F)			5/5	✓
					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4			✓	
-4					(F)			0.25/5.	✓
					(CL)				✓
					NO2				✓
					Br				✓
					NO3				✓
					SO4			✓	

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K4814-1	III			6/4	F	2.5/5			✓
Exponent					CL	2.5/5	0.25/5		✓
					NO2				
					Br				
					NO3				
					SO4				
-2					F			✓	
					CL		0.5/5		✓
					NO2				
					Br				
					NO3				
					SO4				
-3					F			✓	
					CL		0.5/5		✓
					NO2				
					Br				
					NO3				
					SO4				
-4					F			✓	
					CL		0.25		✓
					NO2				
					Br				
					NO3				
					SO4				
-5					F			✓	
					CL				✓
					NO2				
					Br				
					NO3				
					SO4				
-6					F			✓	
					CL				✓
					NO2				
					Br				
					NO3				
					SO4				
K5015-1	III			6/4	F				✓
City of Port.					CL	2.5/5			✓
					NO2				
					Br				
					NO3				
					SO4				
K5035-1	III			6/4	F				✓
Clark Co.					CL	2.5/5			✓
					NO2				
					Br				
					NO3				
					SO4				
-2					F				✓
					CL	2.5/5			✓
					NO2				
					Br				
					NO3				
					SO4				
					F				
					CL				
					NO2				
					Br				
					NO3				
					SO4				

MDC

Sequence: IC03060110
Operator: mblack

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 67

Created: 6/1/2010 8:42:26 AM by ACQWET10
Last Update: 6/2/2010 2:42:12 PM by mblack











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/M2	Standard	1	200.0	epa300	epa300	Finished	4/26/2010 8:54:58 AM
2	std3/M3	Standard	2	200.0	epa300	epa300	Finished	4/26/2010 9:12:26 AM
3	std4/M4	Standard	3	200.0	epa300	epa300	Finished	4/26/2010 9:25:24 AM
4	std5/M5	Standard	4	200.0	epa300	epa300	Finished	4/26/2010 9:38:21 AM
5	std6/M6	Standard	5	200.0	epa300	epa300	Finished	4/26/2010 9:51:19 AM
6	std7/M7	Standard	6	200.0	epa300	epa300	Finished	4/26/2010 10:04:17 AM
7	std1/M1	Standard	7	200.0	epa300	epa300	Finished	4/26/2010 10:17:14 AM
8	KQ1005157-09	Unknown	8	200.0	epa300	epa300	Finished	6/1/2010 8:44:48 AM
9	KQ1005157-15	Unknown	9	200.0	epa300	epa300	Finished	6/1/2010 8:56:16 AM
10	NO2 AN11-28-C	Unknown	10	200.0	epa300	epa300	Finished	6/1/2010 9:07:44 AM
11	KQ1005157-01	Unknown	11	200.0	epa300	epa300	Finished	6/1/2010 9:19:11 AM
12	NO3 AN1-33-E	Unknown	11	200.0	epa300	epa300	Finished	6/1/2010 9:30:41 AM
13	KQ1005157-02	Unknown	12	200.0	epa300	epa300	Finished	6/1/2010 9:42:08 AM
14	KQ1005157-02	Unknown	13	200.0	epa300	epa300	Finished	6/1/2010 9:53:36 AM
15	Br AN1-33-L	Unknown	14	200.0	epa300	epa300	Finished	6/1/2010 10:05:03 AM
16	SPK AN11-10-U	Unknown	16	200.0	epa300	epa300	Finished	6/1/2010 10:16:30 AM
17	KQ1005157-10	Unknown	15	200.0	epa300	epa300	Finished	6/1/2010 10:27:59 AM
18	KQ1005157-16	Unknown	16	200.0	epa300	epa300	Finished	6/1/2010 10:39:27 AM
19	K1005258-001	Unknown	17	200.0	epa300	epa300	Finished	6/1/2010 12:31:34 PM
20	K1005258-002	Unknown	18	200.0	epa300	epa300	Finished	6/1/2010 12:43:02 PM
21	K1005258-003	Unknown	19	200.0	epa300	epa300	Finished	6/1/2010 12:54:30 PM
22	K1005258-004	Unknown	20	200.0	epa300	epa300	Finished	6/1/2010 1:05:57 PM
23	K1005258-005	Unknown	21	200.0	epa300	epa300	Finished	6/1/2010 1:17:26 PM
24	K1005258-006	Unknown	22	200.0	epa300	epa300	Finished	6/1/2010 1:28:53 PM
25	KQ1005157-03	Unknown	23	200.0	epa300	epa300	Finished	6/1/2010 1:40:22 PM
26	KQ1005157-04	Unknown	24	200.0	epa300	epa300	Finished	6/1/2010 1:51:50 PM
27	KQ1005157-05	Unknown	25	200.0	epa300	epa300	Finished	6/1/2010 2:03:17 PM
28	RB	Unknown	26	200.0	epa300	epa300	Finished	6/1/2010 2:14:45 PM
29	KQ1005157-11	Unknown	27	200.0	epa300	epa300	Finished	6/1/2010 2:26:12 PM
30	KQ1005157-17	Unknown	28	200.0	epa300	epa300	Finished	6/1/2010 2:37:40 PM
31	KQ1005157-06	Unknown	29	200.0	epa300	epa300	Finished	6/1/2010 2:49:07 PM
32	KQ1005157-07	Unknown	30	200.0	epa300	epa300	Finished	6/1/2010 3:00:35 PM
33	KQ1005157-08	Unknown	31	200.0	epa300	epa300	Finished	6/1/2010 3:12:03 PM
34	K1004744-001	Unknown	32	200.0	epa300	epa300	Finished	6/1/2010 3:23:31 PM
35	K1004744-002	Unknown	33	200.0	epa300	epa300	Finished	6/1/2010 3:34:58 PM
36	K1004744-003	Unknown	34	200.0	epa300	epa300	Finished	6/1/2010 3:46:26 PM
37	K1004744-004	Unknown	35	200.0	epa300	epa300	Finished	6/1/2010 3:57:53 PM
38	K1004814-001	Unknown	36	200.0	epa300	epa300	Finished	6/1/2010 4:09:21 PM
39	K1004814-002	Unknown	37	200.0	epa300	epa300	Finished	6/1/2010 4:20:48 PM
40	RB	Unknown	38	200.0	epa300	epa300	Finished	6/1/2010 4:32:16 PM
41	KQ1005157-12	Unknown	39	200.0	epa300	epa300	Finished	6/1/2010 4:43:44 PM
42	KQ1005157-18	Unknown	40	200.0	epa300	epa300	Finished	6/1/2010 4:55:12 PM

Sequence: IC03060110
Operator: mblack

Page 2 of 4
Printed: 6/2/2010 2:44:18 PM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 67

Created: 6/1/2010 8:42:26 AM by ACQWET10
Last Update: 6/2/2010 2:42:12 PM by mblack

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	 KQ1005157-09	1.0000	CCV1
9	 KQ1005157-15	1.0000	CCB1
10	 NO2 AN11-28-C	25.0000	NO2
11	 KQ1005157-01	1.0000	MB
12	 NO3 AN1-33-E	20.0000	NO3
13	 KQ1005157-02	1.0000	CLSO4
14	 KQ1005157-02	2.0000	F
15	 Br AN1-33-L	1.0000	Br
16	 SPK AN11-10-U	1.0000	SPK
17	 KQ1005157-10	1.0000	CCV2
18	 KQ1005157-16	1.0000	CCB2
19	 K1005258-001	2.0000	
20	 K1005258-002	2.0000	
21	 K1005258-003	2.0000	
22	 K1005258-004	2.0000	
23	 K1005258-005	2.0000	
24	 K1005258-006	2.0000	
25	 KQ1005157-03	2.0000	5258-1D
26	 KQ1005157-04	2.0000	5258-1MS
27	 KQ1005157-05	2.0000	5258-1MSD
28	 RB	1.0000	
29	 KQ1005157-11	1.0000	CCV3
30	 KQ1005157-17	1.0000	CCB3
31	 KQ1005157-06	2.0000	5258-2D
32	 KQ1005157-07	2.0000	5258-2MS
33	 KQ1005157-08	2.0000	5258-2MSD
34	 K1004744-001	2.0000	
35	 K1004744-002	2.0000	
36	 K1004744-003	2.0000	
37	 K1004744-004	2.0000	
38	 K1004814-001	2.0000	
39	 K1004814-002	2.0000	
40	 RB	1.0000	
41	 KQ1005157-12	1.0000	CCV4
42	 KQ1005157-18	1.0000	CCB4

Sequence: IC03060110
Operator: mblack

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Printed: 6/2/2010 2:44:18 PM

Title:

Datasource: ACQWET10_local


























Location: DX120A

Timebase: DX120

#Samples: 67

Created: 6/1/2010 8:42:26 AM by ACQWET10

Last Update: 6/2/2010 2:42:12 PM by mblack


























No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	 K1004814-003	Unknown	41	200.0	epa300	epa300	Finished	6/1/2010 5:06:39 PM
44	 K1004814-004	Unknown	42	200.0	epa300	epa300	Finished	6/1/2010 5:18:07 PM
45	 K1004814-005	Unknown	43	200.0	epa300	epa300	Finished	6/1/2010 5:29:34 PM
46	 K1004814-006	Unknown	44	200.0	epa300	epa300	Finished	6/1/2010 5:41:02 PM
47	 K1005015-001	Unknown	45	200.0	epa300	epa300	Finished	6/1/2010 5:52:31 PM
48	 K1005035-001	Unknown	46	200.0	epa300	epa300	Finished	6/1/2010 6:03:58 PM
49	 K1005035-002	Unknown	47	200.0	epa300	epa300	Finished	6/1/2010 6:15:26 PM
50	 K1004744-001	Unknown	48	200.0	epa300	epa300	Finished	6/1/2010 6:26:53 PM
51	 K1004744-002	Unknown	49	200.0	epa300	epa300	Finished	6/1/2010 6:38:20 PM
52	 RB	Unknown	50	200.0	epa300	epa300	Finished	6/1/2010 6:49:48 PM
53	 KQ1005157-13	Unknown	51	200.0	epa300	epa300	Finished	6/1/2010 7:01:16 PM
54	 KQ1005157-19	Unknown	52	200.0	epa300	epa300	Finished	6/1/2010 7:12:43 PM
55	 K1004744-004	Unknown	54	200.0	epa300	epa300	Finished	6/1/2010 7:36:20 PM
56	 K1004744-003	Unknown	55	200.0	epa300	epa300	Finished	6/1/2010 7:49:01 PM
57	 K1004814-001	Unknown	55	200.0	epa300	epa300	Finished	6/1/2010 8:00:29 PM
58	 K1004814-002	Unknown	56	200.0	epa300	epa300	Finished	6/1/2010 8:11:57 PM
59	 K1004814-003	Unknown	57	200.0	epa300	epa300	Finished	6/1/2010 8:23:25 PM
60	 K1004814-004	Unknown	58	200.0	epa300	epa300	Finished	6/1/2010 8:34:53 PM
61	 K1004814-004	Unknown	59	200.0	epa300	epa300	Finished	6/1/2010 8:46:20 PM
62	 K1004744-002	Unknown	60	200.0	epa300	epa300	Finished	6/1/2010 8:57:48 PM
63	 K1004744-002	Unknown	61	200.0	epa300	epa300	Finished	6/1/2010 9:09:15 PM
64	 RB	Unknown	62	200.0	epa300	epa300	Finished	6/1/2010 9:20:43 PM
65	 KQ1005157-14	Unknown	63	200.0	epa300	epa300	Finished	6/1/2010 9:32:11 PM
66	 KQ1005157-20	Unknown	64	200.0	epa300	epa300	Finished	6/1/2010 9:43:38 PM
67	 SHUTDOWN	Unknown	65	200.0	shutdown 120	epa300	Finished	6/1/2010 9:55:06 PM

Sequence: IC03060110
Operator: mblack

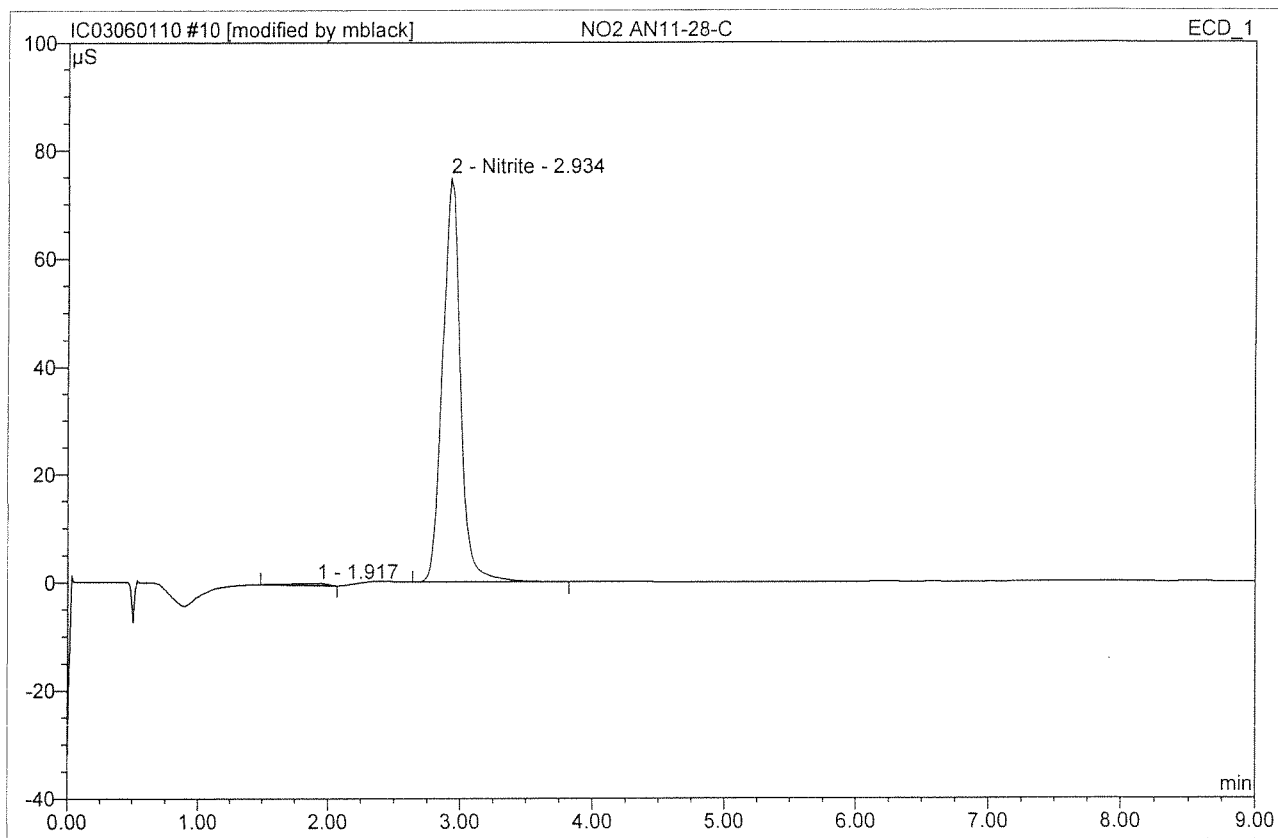
Page 4 of 4
Printed: 6/2/2010 2:44:18 PM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 67


Created: 6/1/2010 8:42:26 AM by ACQWET10
Last Update: 6/2/2010 2:42:12 PM by mblack

No.	Name	Dil. Factor	Comment
43	 K1004814-003	2.0000	
44	 K1004814-004	2.0000	
45	 K1004814-005	2.0000	
46	 K1004814-006	2.0000	
47	 K1005015-001	2.0000	
48	 K1005035-001	2.0000	
49	 K1005035-002	2.0000	
50	 K1004744-001	5.0000	
51	 K1004744-002	5.0000	
52	 RB	1.0000	
53	 KQ1005157-13	1.0000	CCV5
54	 KQ1005157-19	1.0000	CCB5
55	 K1004744-004	20.0000	
56	 K1004744-003	1.0000	
57	 K1004814-001	20.0000	
58	 K1004814-002	10.0000	
59	 K1004814-003	10.0000	
60	 K1004814-004	20.0000	
61	 K1004814-004	10.0000	
62	 K1004744-002	100.0000	
63	 K1004744-002	2.0000	
64	 RB	1.0000	
65	 KQ1005157-14	1.0000	CCV6
66	 KQ1005157-20	1.0000	CCB6
67	 SHUTDOWN	1.0000	

10 NO2 AN11-28-C			
NO2			
Sample Name:	NO2 AN11-28-C	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:	6/1/2010 9:07	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	1.92	n.a.	0.351	0.121	1.01	n.a.	BMB
2	2.93	Nitrite	74.873	11.805	98.99	102.210/102%	BMB*
Total:			75.224	11.925	100.00	102.210	

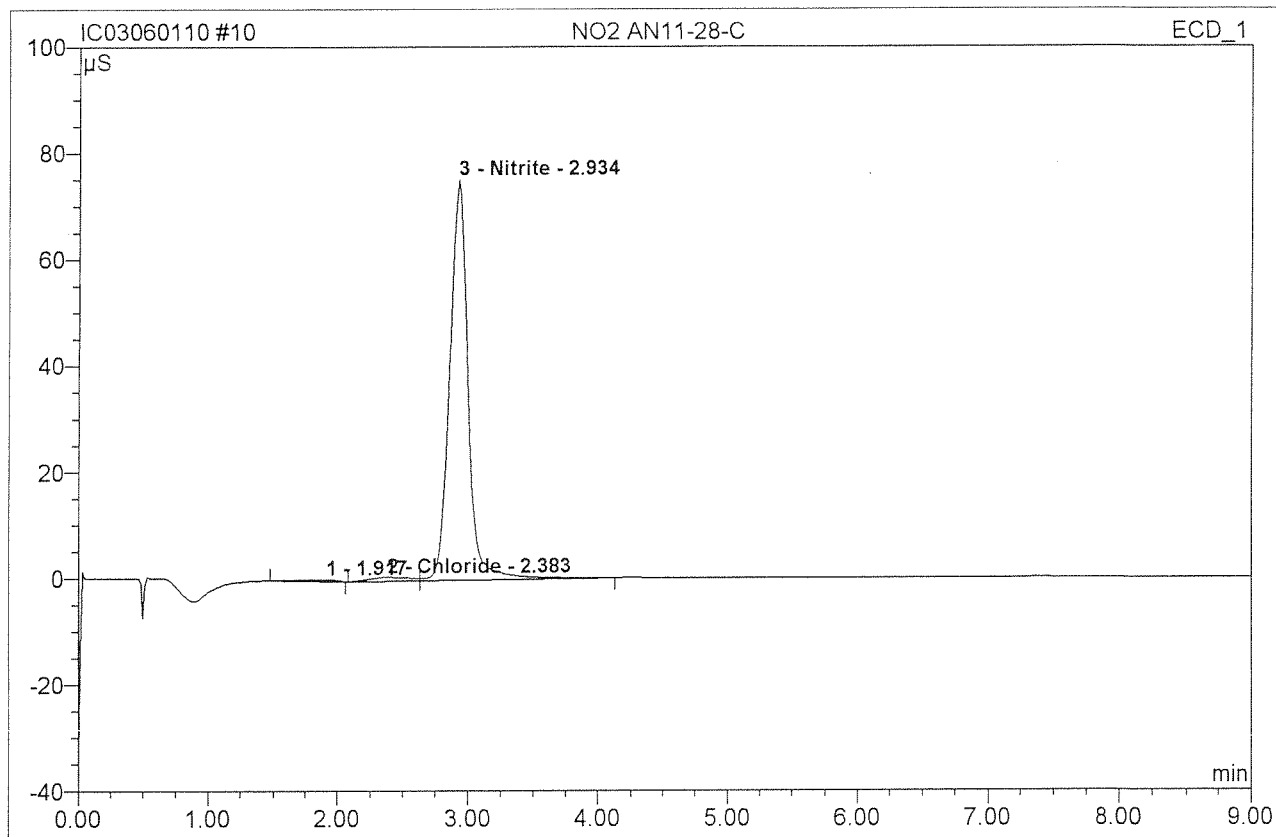


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10 NO2 AN11-28-C

NO2

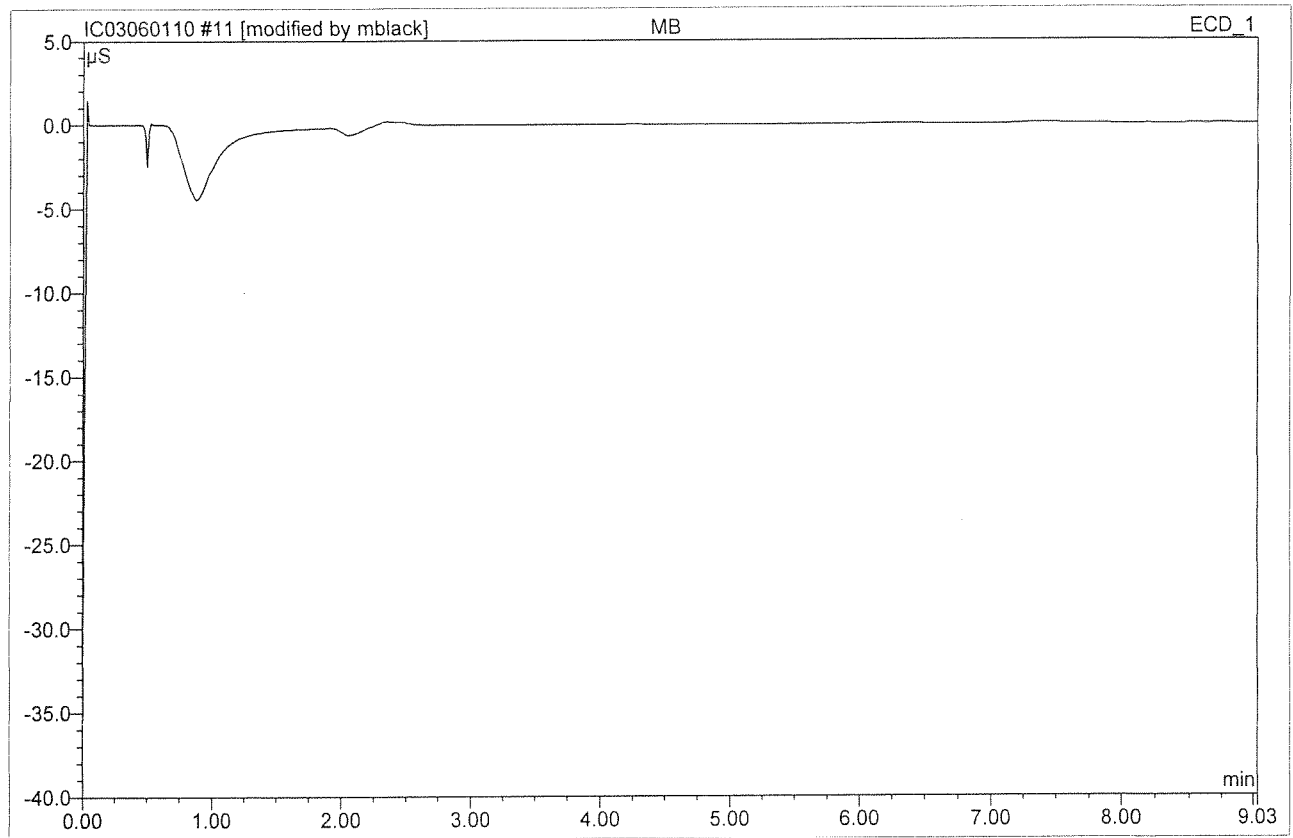
Sample Name:	NO2 AN11-28-C	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	6/1/2010 9:07	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.92	n.a.	0.351	0.121	0.96	n.a.	BMB
2	2.38	Chloride	0.724	0.259	2.07	4.159	BM
3	2.93	Nitrite	75.230	12.145	96.96	105.160	MB
Total:			76.305	12.526	100.00	109.319	

0.0000
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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:	6/1/2010 9:19	Sample Weight:	1.0000
Run Time (min):	9.03	Sample Amount:	1.0000

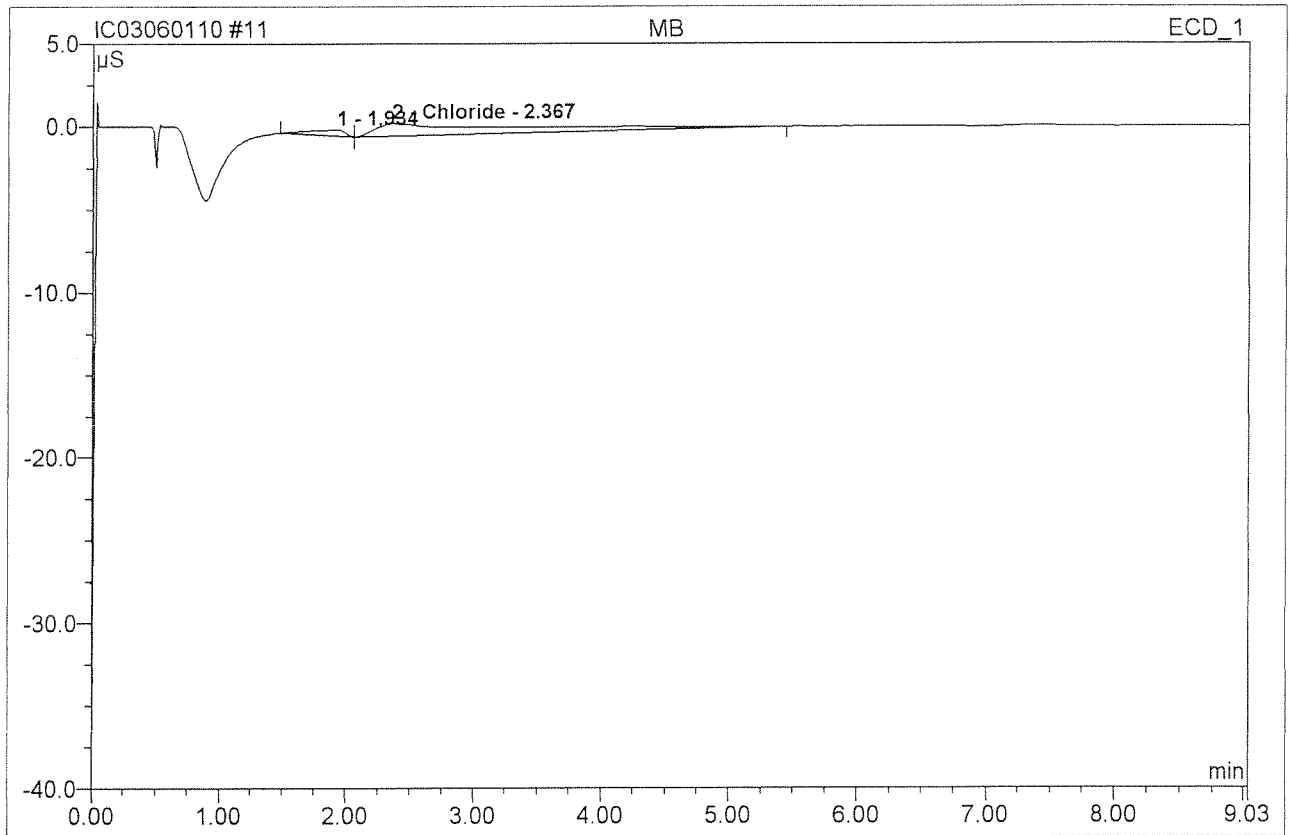


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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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:	6/1/2010 9:19	Sample Weight:	1.0000
Run Time (min):	9.03	Sample Amount:	1.0000



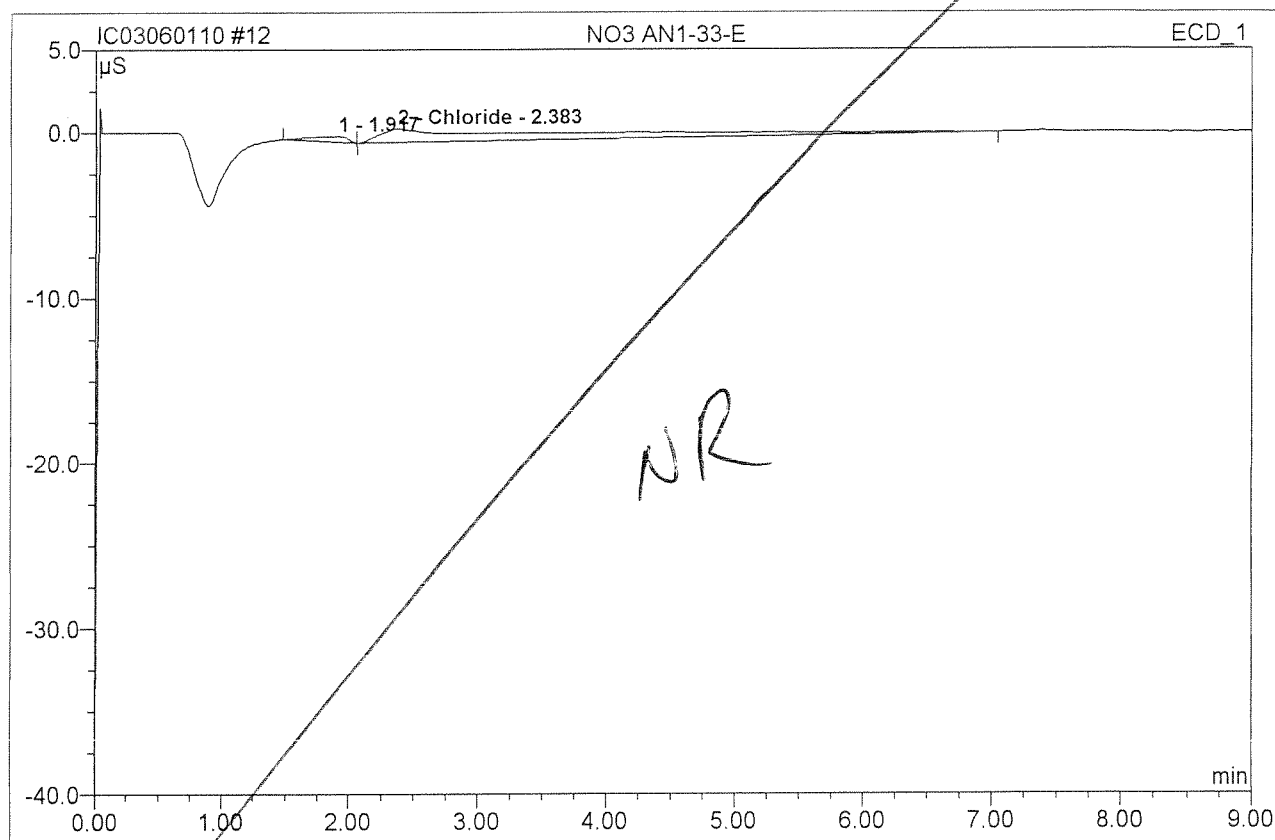
No.	Ret. Time min	Peak Name	Height μ S	Area μ S*min	Rel. Area %	Amount	Type
1	1.93	n.a.	0.365	0.119	10.79	n.a.	BMB
2	2.37	Chloride	0.749	0.982	89.21	0.630	bMB
Total:			1.114	1.101	100.00	0.630	

Before

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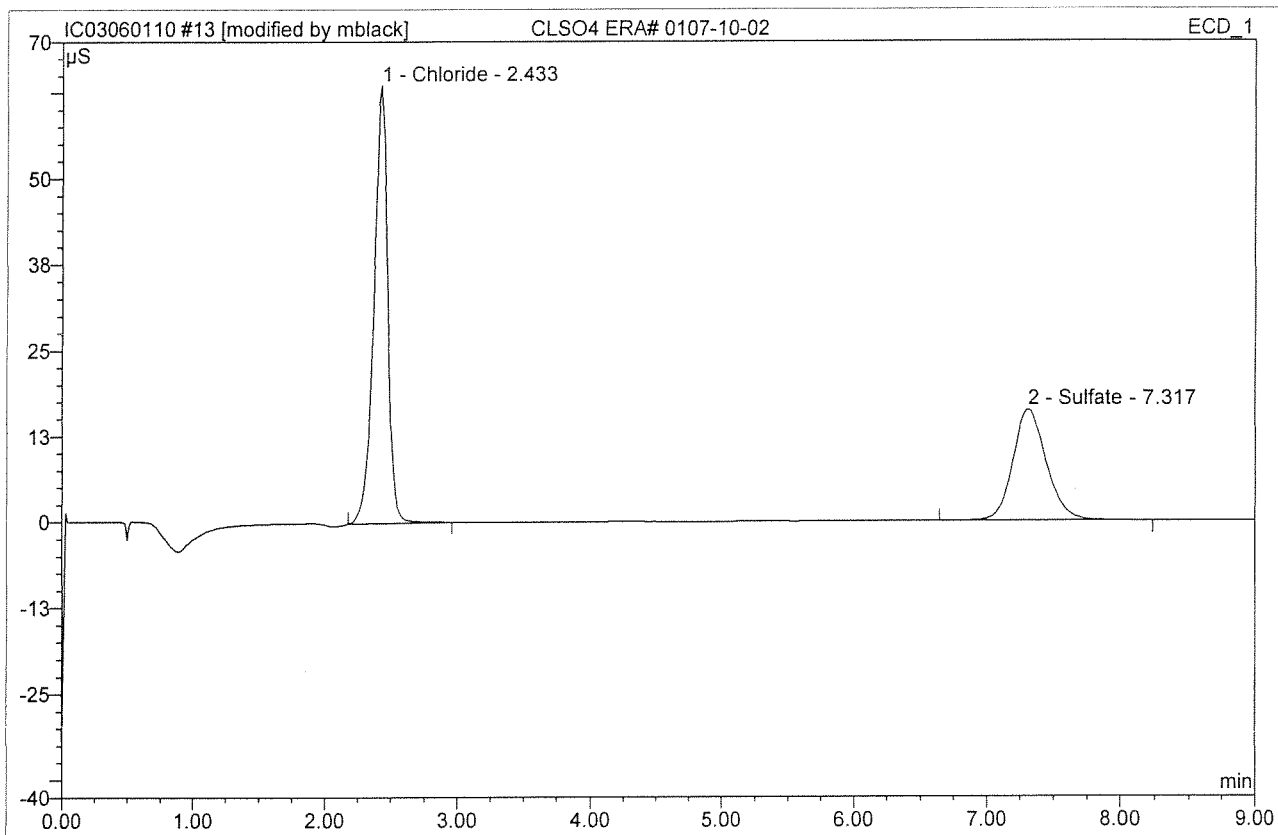
12 NO3 AN1-33-E**NO3**

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:	6/1/2010 9:30	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	1.92	n.a.	0.354	0.120	7.47	n.a.	BMb
2	2.38	Chloride	0.821	1.487	92.53	19.067	bMB
Total:			1.175	1.607	100.00	19.067	

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:	6/1/2010 9:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



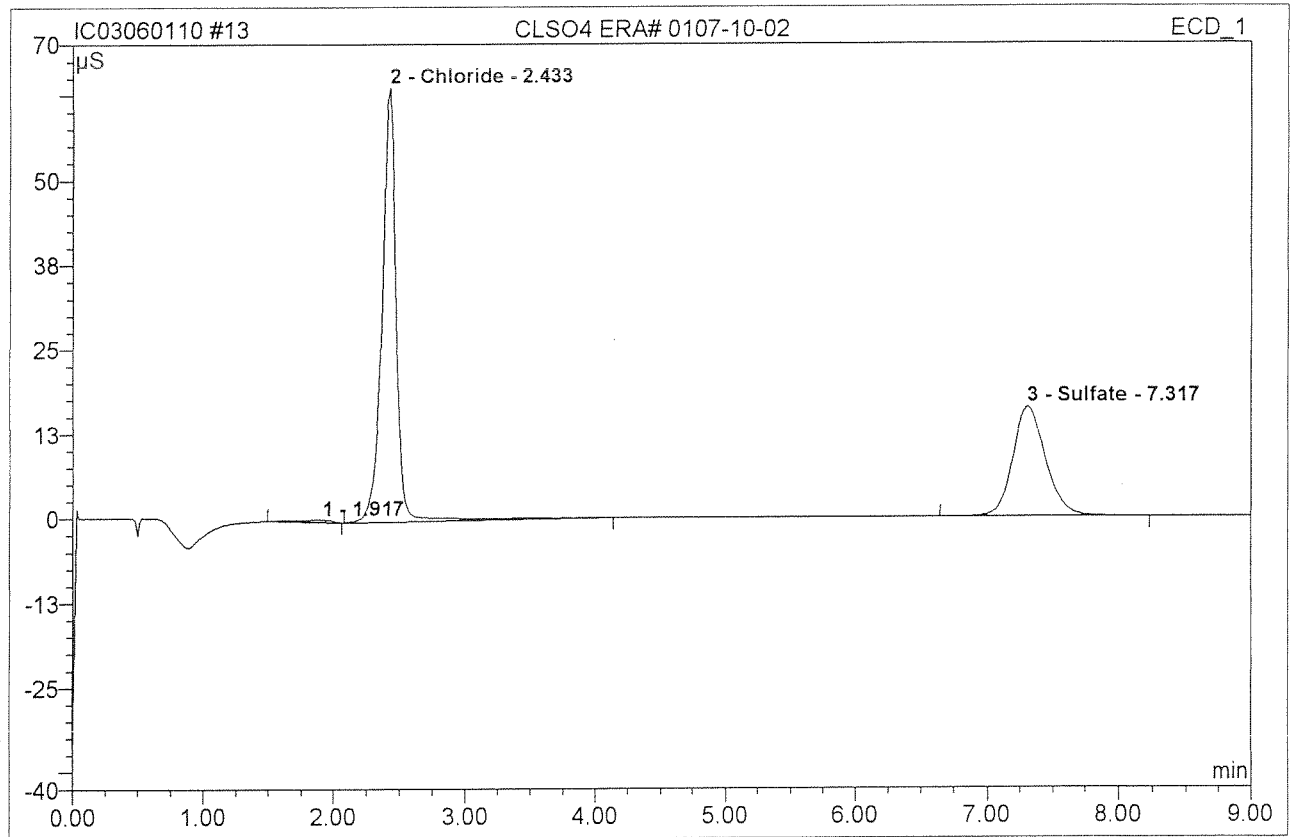
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.43	Chloride	63.728	7.605	61.74	4.876 ¹⁵	BMB*
2	7.32	Sulfate	16.252	4.713	38.26	4.789 ¹⁶	BMB
Total:			79.980	12.318	100.00	9.666	

After: 

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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:	6/1/2010 9:42	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

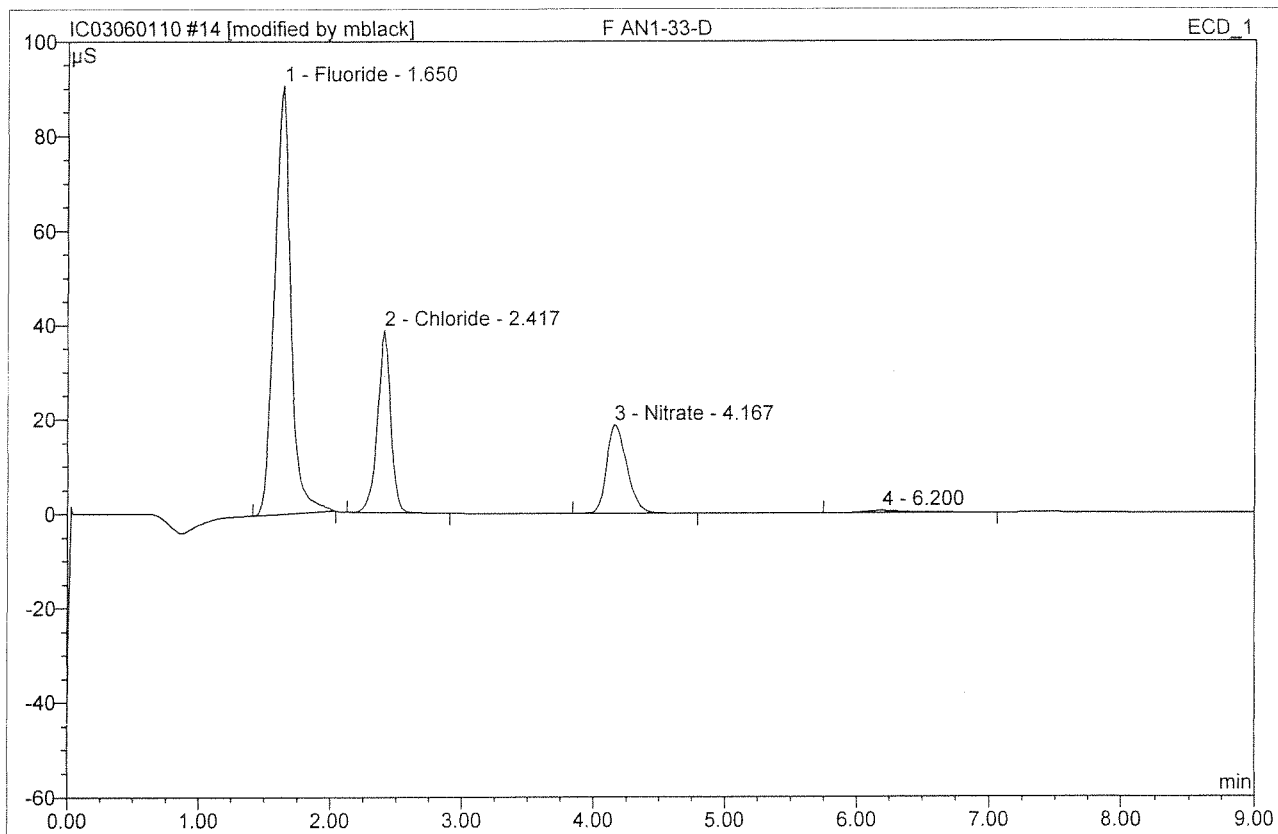


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.92	n.a.	0.355	0.114	0.88	n.a.	BMB
2	2.43	Chloride	64.055	8.066	62.56	5.172	BMB
3	7.32	Sulfate	16.252	4.713	36.55	4.789	BMB
Total:			80.662	12.893	100.00	9.961	

Before

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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:	6/1/2010 9:53	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

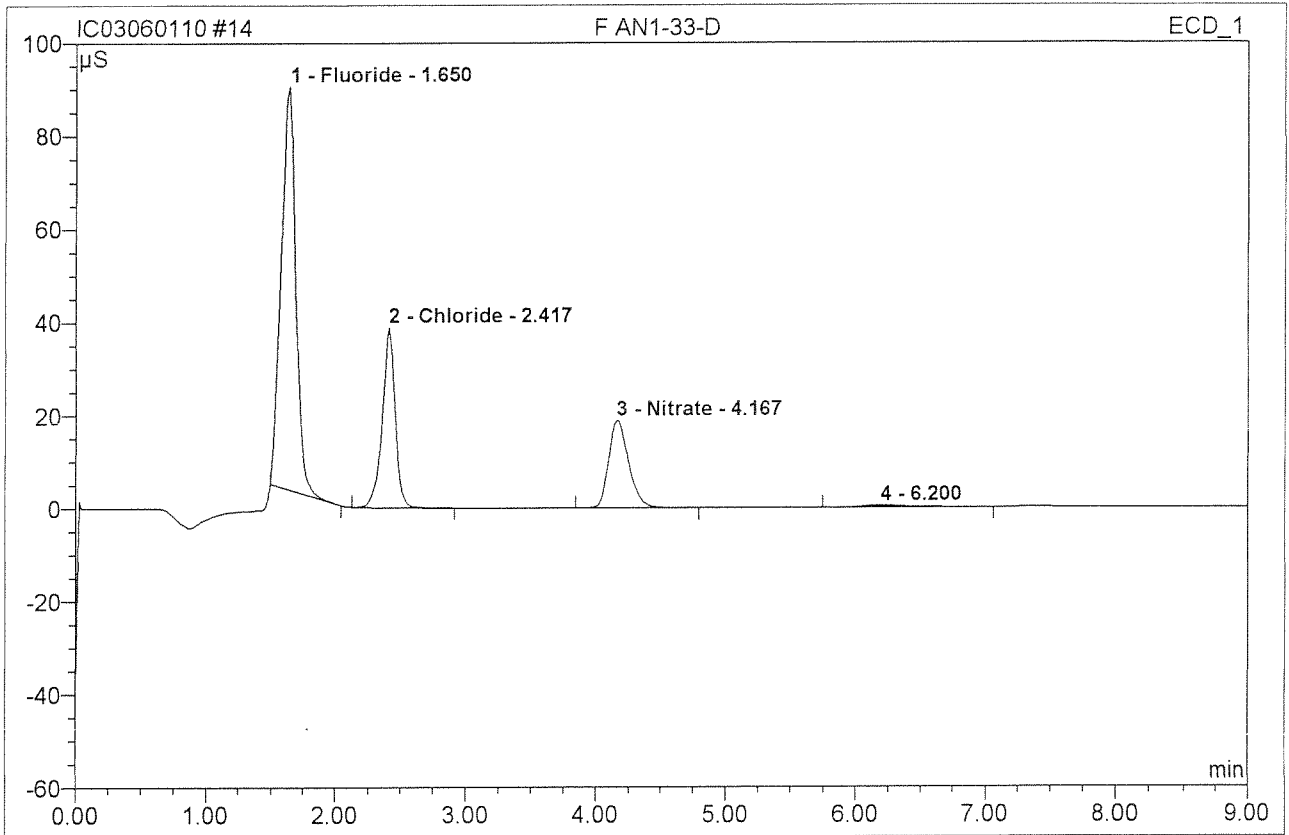


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.65	Fluoride	90.639	13.100	62.15	13.693162%	BMB*
2	2.42	Chloride	38.636	4.458	21.15	5.717	BMB
3	4.17	Nitrate	18.790	3.334	15.82	1.810	BMB
4	6.20	n.a.	0.489	0.187	0.89	n.a.	BMB
Total:			148.554	21.078	100.00	21.219	

LAB (signature)

6/2/10 (signature)

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:	6/1/2010 9:53	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



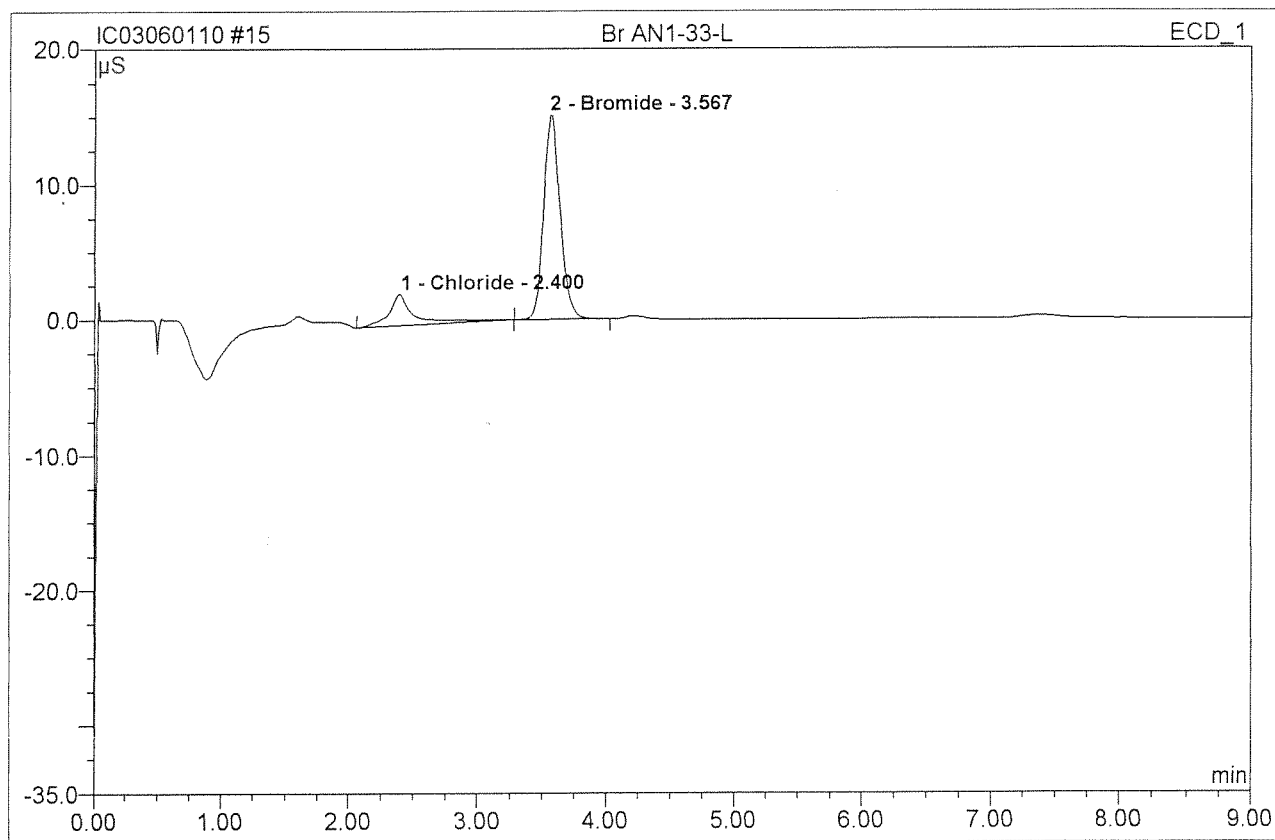
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.65	Fluoride	86.615	11.478	58.99	11.998	BMB
2	2.42	Chloride	38.636	4.458	22.91	5.717	BMB
3	4.17	Nitrate	18.790	3.334	17.13	1.810	BMB
4	6.20	n.a.	0.489	0.187	0.96	n.a.	BMB
Total:			144.530	19.457	100.00	19.525	

Before

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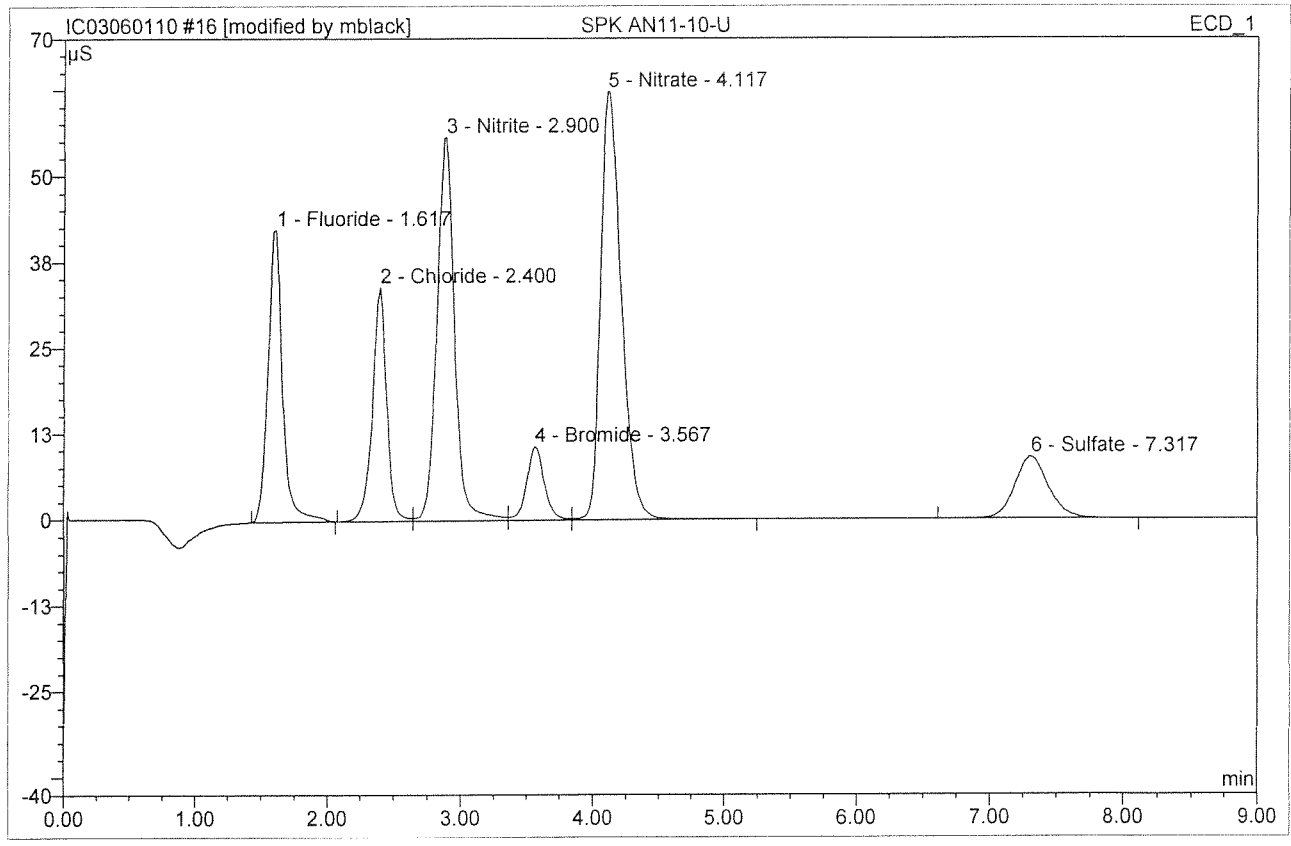
15 Br AN1-33-L**Br**

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:	6/1/2010 10:05	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	2.311	0.543	19.22	0.348	BMB
2	3.57	Bromide	15.113	2.284	80.78	4.2621672	bMB
Total:			17.424	2.827	100.00	4.610	

16 SPK AN11-10-U			
SPK			
Sample Name:	SPK AN11-10-U	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:	6/1/2010 10:16	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



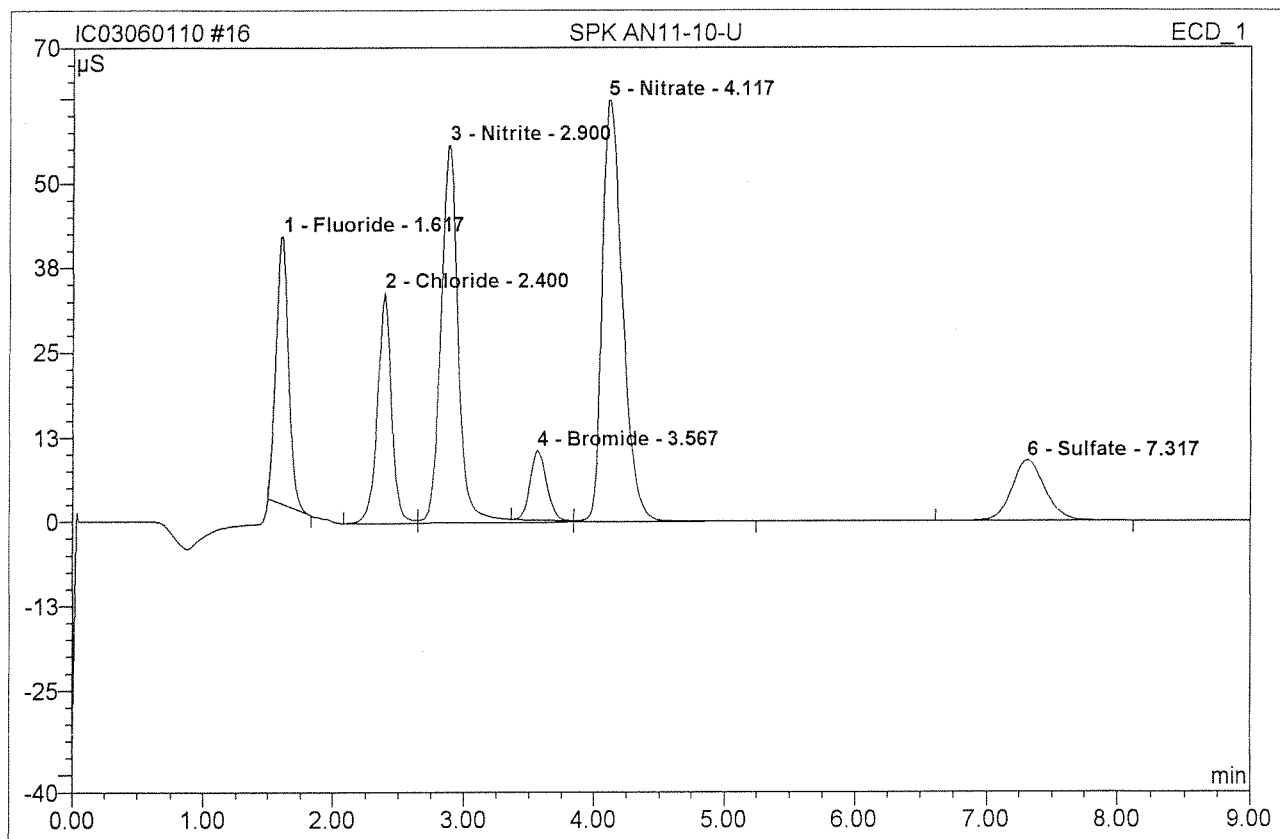
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	42.465	5.434	16.05	2.840	BMB*
2	2.40	Chloride	34.050	4.218	12.46	2.705	BM
3	2.90	Nitrite	55.811	8.552	25.27	2.962	M *
4	3.57	Bromide	10.686	1.680	4.96	3.135	M *
5	4.12	Nitrate	62.290	11.320	33.44	3.073	MB
6	7.32	Sulfate	8.986	2.643	7.81	2.686	BMB
Total:			214.288	33.848	100.00	17.401	

TV 23.00

MB

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16 SPK AN11-10-U			
SPK			
Sample Name:	SPK AN11-10-U	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:	6/1/2010 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	39.568	4.392	13.39	2.295	BMB
2	2.40	Chloride	34.050	4.218	12.86	2.705	BM
3	2.90	Nitrite	55.811	8.716	26.57	3.019	M
4	3.57	Bromide	10.324	1.516	4.62	2.828	Rd
5	4.12	Nitrate	62.290	11.320	34.51	3.073	MB
6	7.32	Sulfate	8.986	2.643	8.06	2.686	BMB
Total:			211.029	32.805	100.00	16.606	

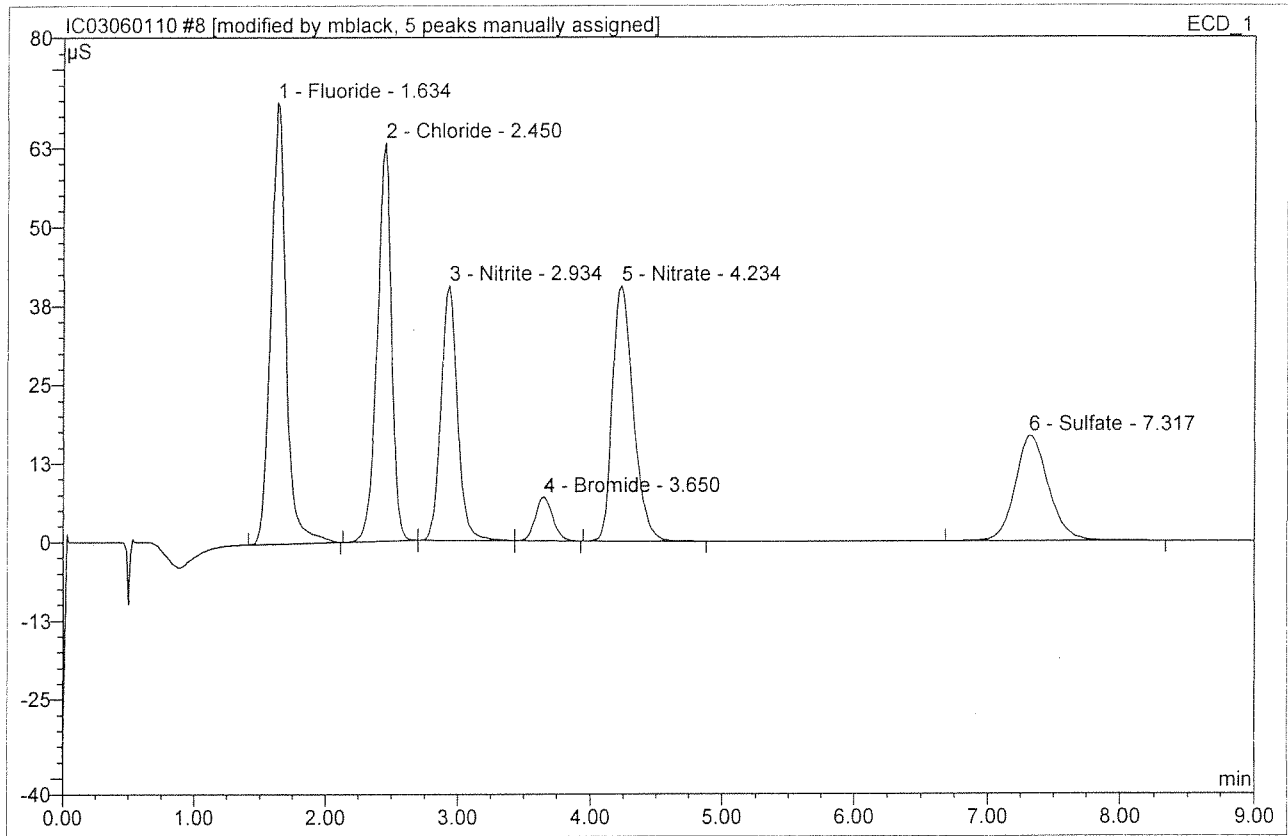
Before

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8 CCV AN11-20-P

CCV1

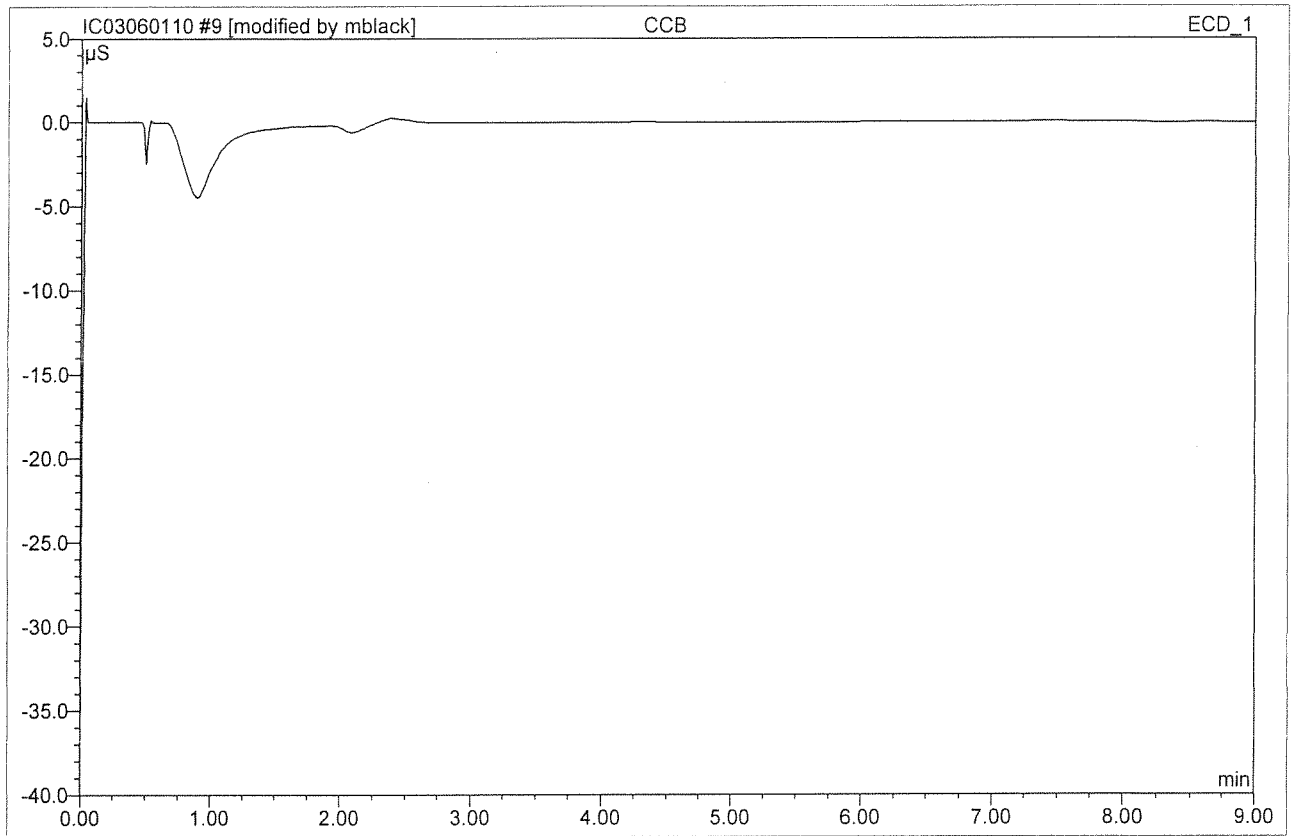
Sample Name:	CCV AN11-20-P	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	6/1/2010 8:44	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.63	Fluoride	70.014	9.591	26.25	5.013/02?	BMB*
2	2.45	Chloride	63.293	7.781	21.30	4.989/02?	BMB^
3	2.93	Nitrite	40.481	5.815	15.92	2.014/01?	bMb^
4	3.65	Bromide	7.004	1.067	2.92	1.991/05?	bMb^
5	4.23	Nitrate	40.596	7.368	20.17	2.000/02?	BMB^
6	7.32	Sulfate	16.764	4.913	13.45	4.992/00?	BMB^
Total:			238.153	36.535	100.00	20.999	

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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:	6/1/2010 8:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

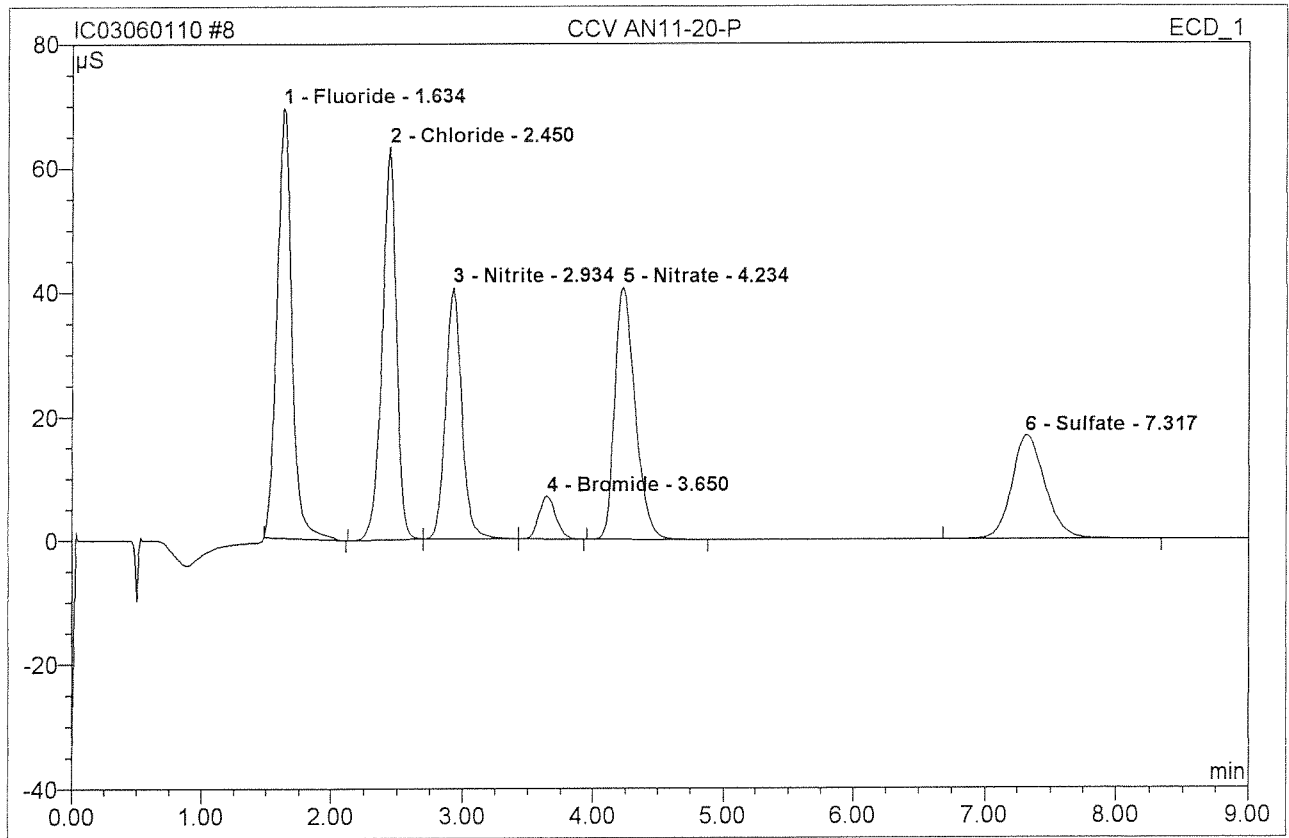


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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Dionex

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8 CCV AN11-20-P			
CCV1			
Sample Name:	CCV AN11-20-P	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:	6/1/2010 8:44	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



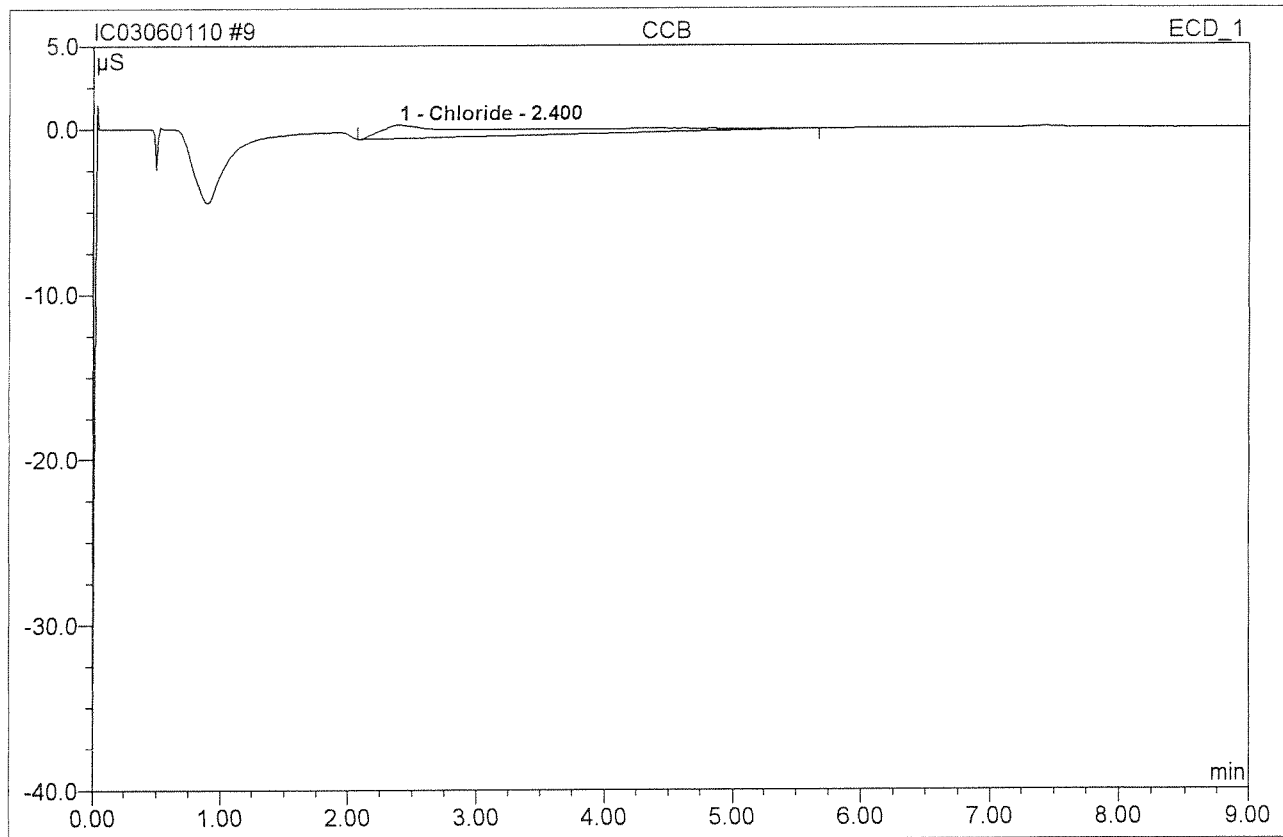
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.63	Fluoride	69.297	9.280	25.62	4.850	BMB
2	2.45	Chloride	63.293	7.781	21.48	4.989	BMB
3	2.93	Nitrite	40.481	5.815	16.05	2.014	bMB
4	3.65	Bromide	7.004	1.067	2.94	1.991	bMB
5	4.23	Nitrate	40.596	7.368	20.34	2.000	BMB
6	7.32	Sulfate	16.764	4.913	13.56	4.992	BMB
Total:			237.436	36.223	100.00	20.836	

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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:	6/1/2010 8:56	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

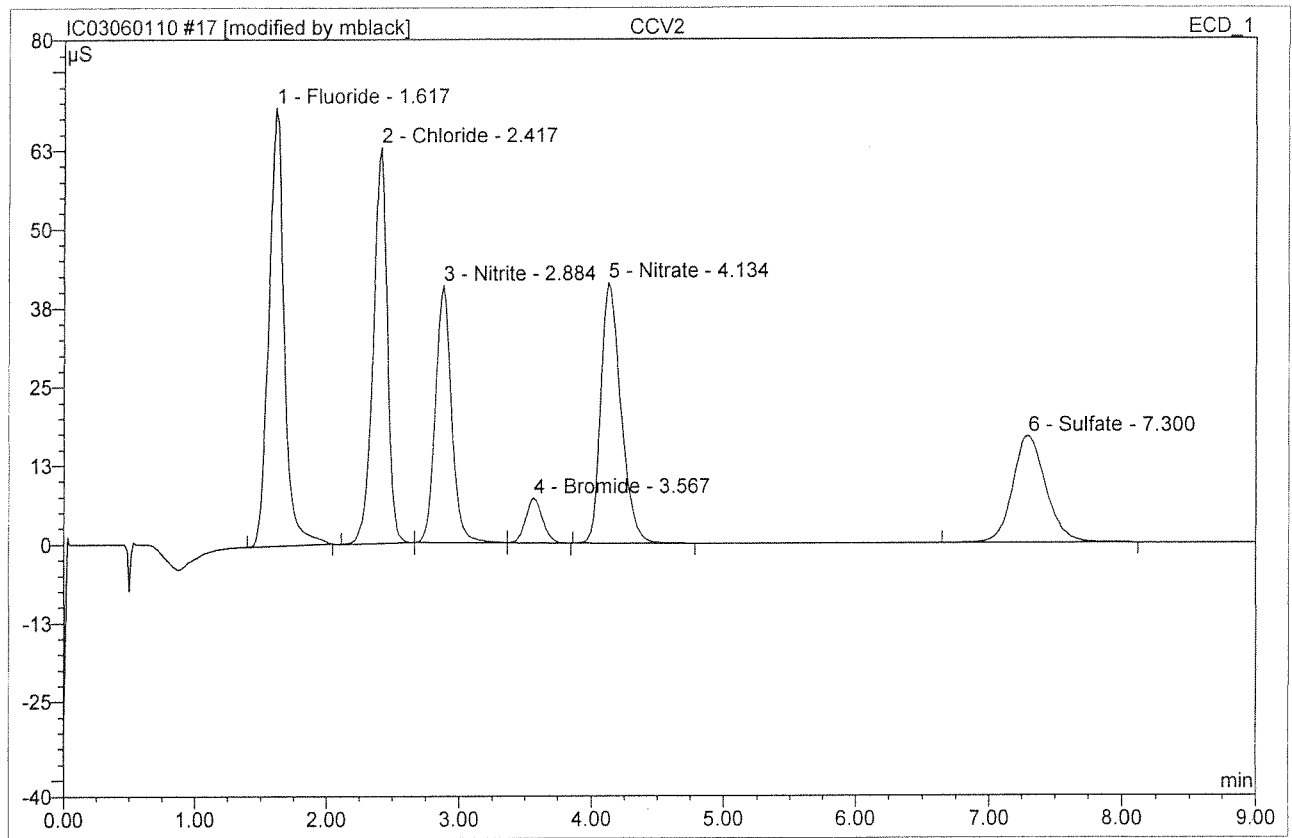


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.40	Chloride	0.790	1.048	100.00	0.672	BMB
Total:			0.790	1.048	100.00	0.672	

Before

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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:	6/1/2010 10:27	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



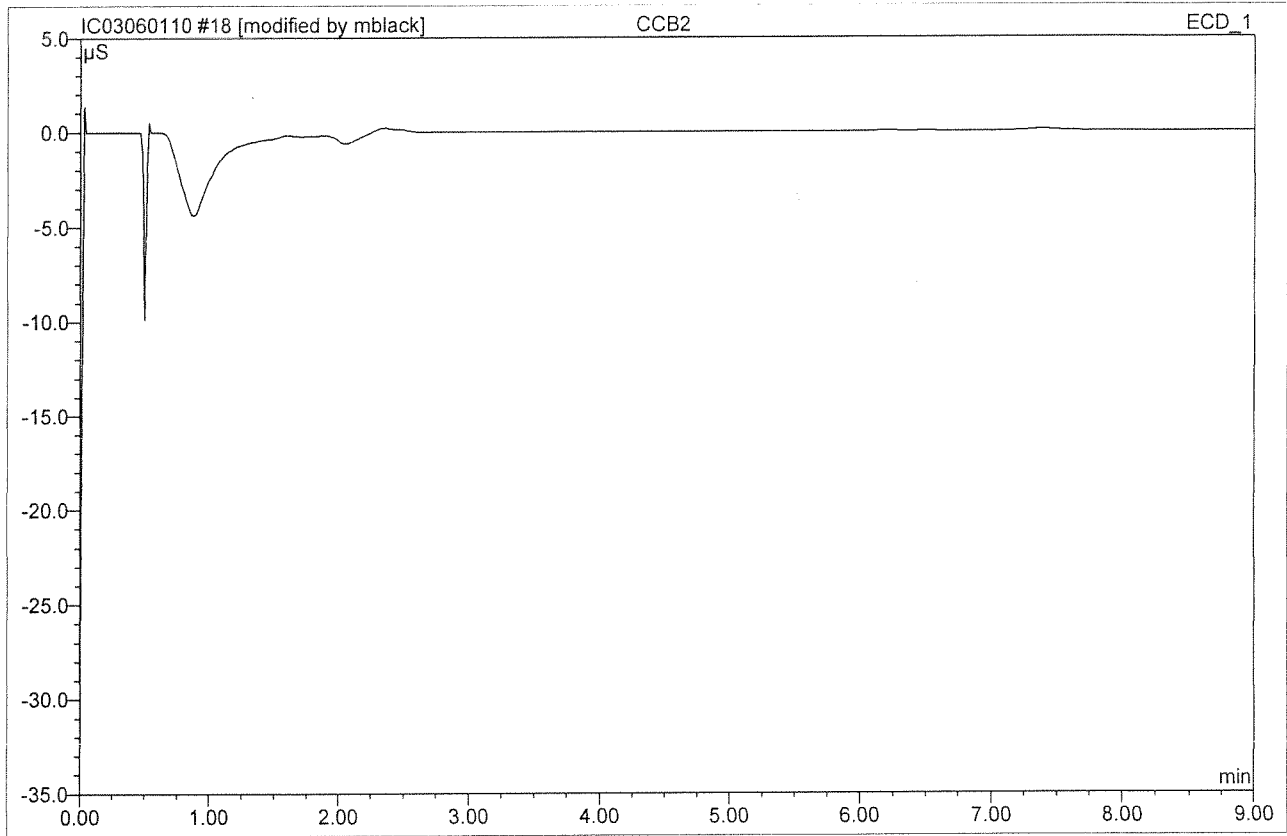
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	69.489	9.397	26.10	4.911 ^{98%}	BMB*
2	2.42	Chloride	62.788	7.636	21.20	4.896 ^{98%}	BMB
3	2.88	Nitrite	40.727	5.729	15.91	1.984 ^{99%}	bMB
4	3.57	Bromide	7.085	1.050	2.92	1.960 ^{98%}	bMB
5	4.13	Nitrate	41.392	7.303	20.28	1.982 ^{99%}	BMB
6	7.30	Sulfate	16.924	4.896	13.60	4.975 ^{100%}	BMB
Total:			238.407	36.011	100.00	20.709	

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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:	6/1/2010 10:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



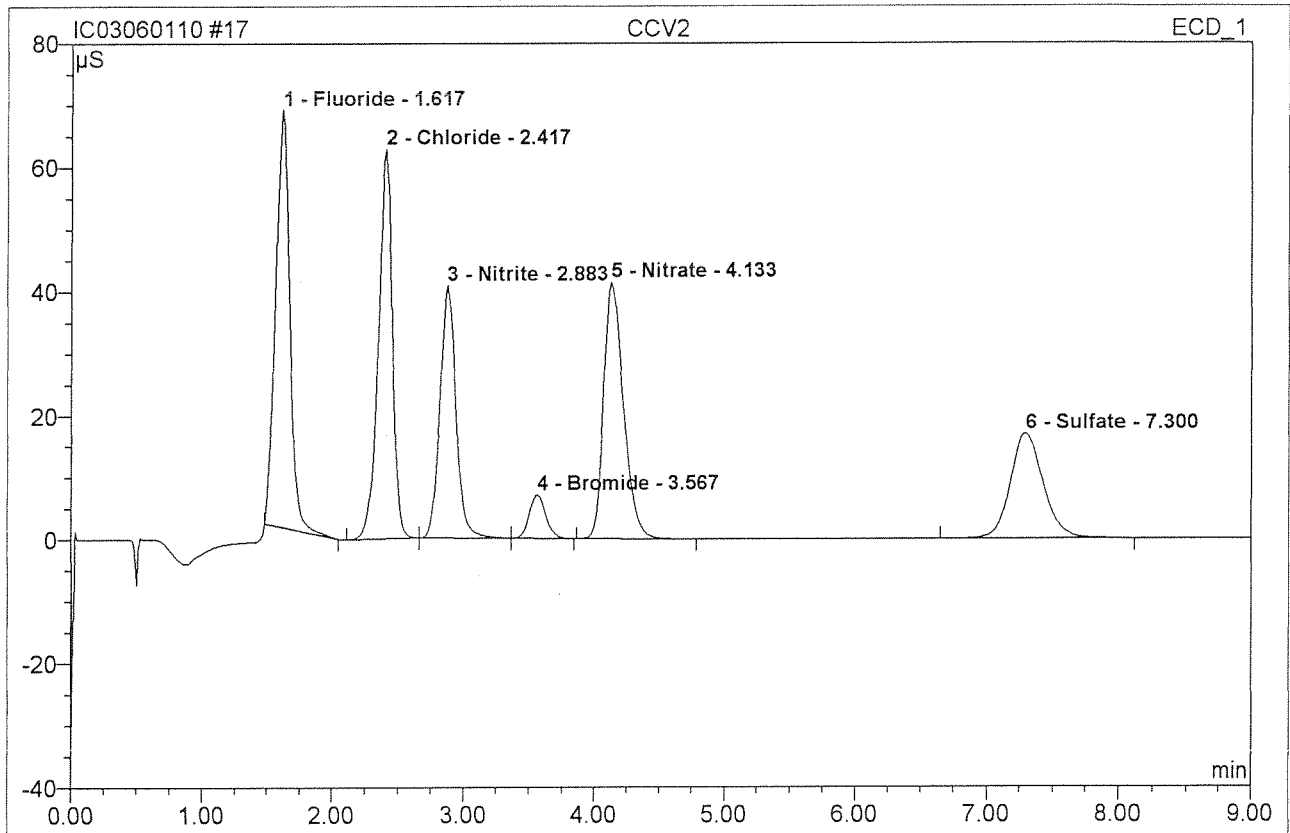
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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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:	6/1/2010 10:27	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

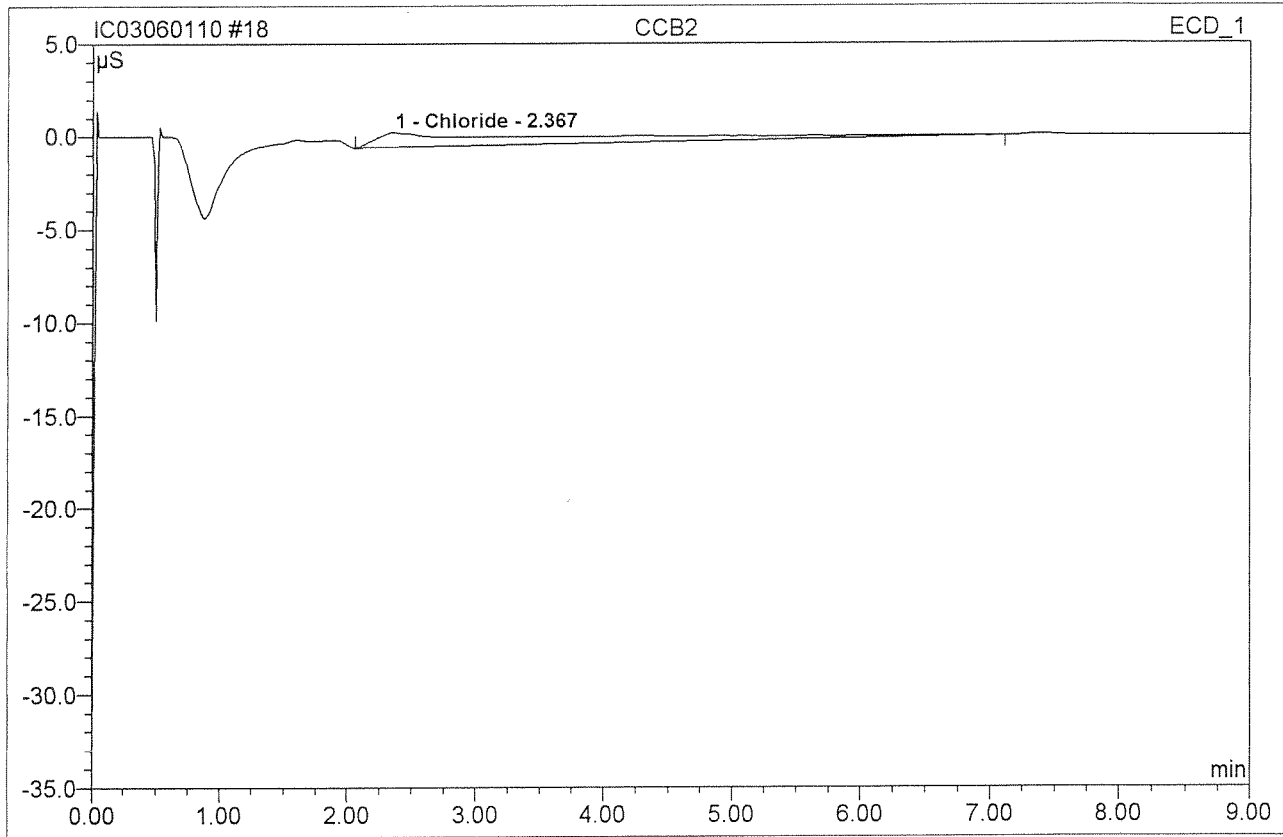


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.62	Fluoride	67.245	8.516	24.24	4.451	BMB
2	2.42	Chloride	62.788	7.636	21.74	4.896	BMb
3	2.88	Nitrite	40.727	5.729	16.31	1.984	bMb
4	3.57	Bromide	7.085	1.050	2.99	1.960	bMB
5	4.13	Nitrate	41.392	7.303	20.79	1.982	BMB
6	7.30	Sulfate	16.924	4.896	13.94	4.975	BMB
Total:			236.162	35.130	100.00	20.248	

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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:	6/1/2010 10:39	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

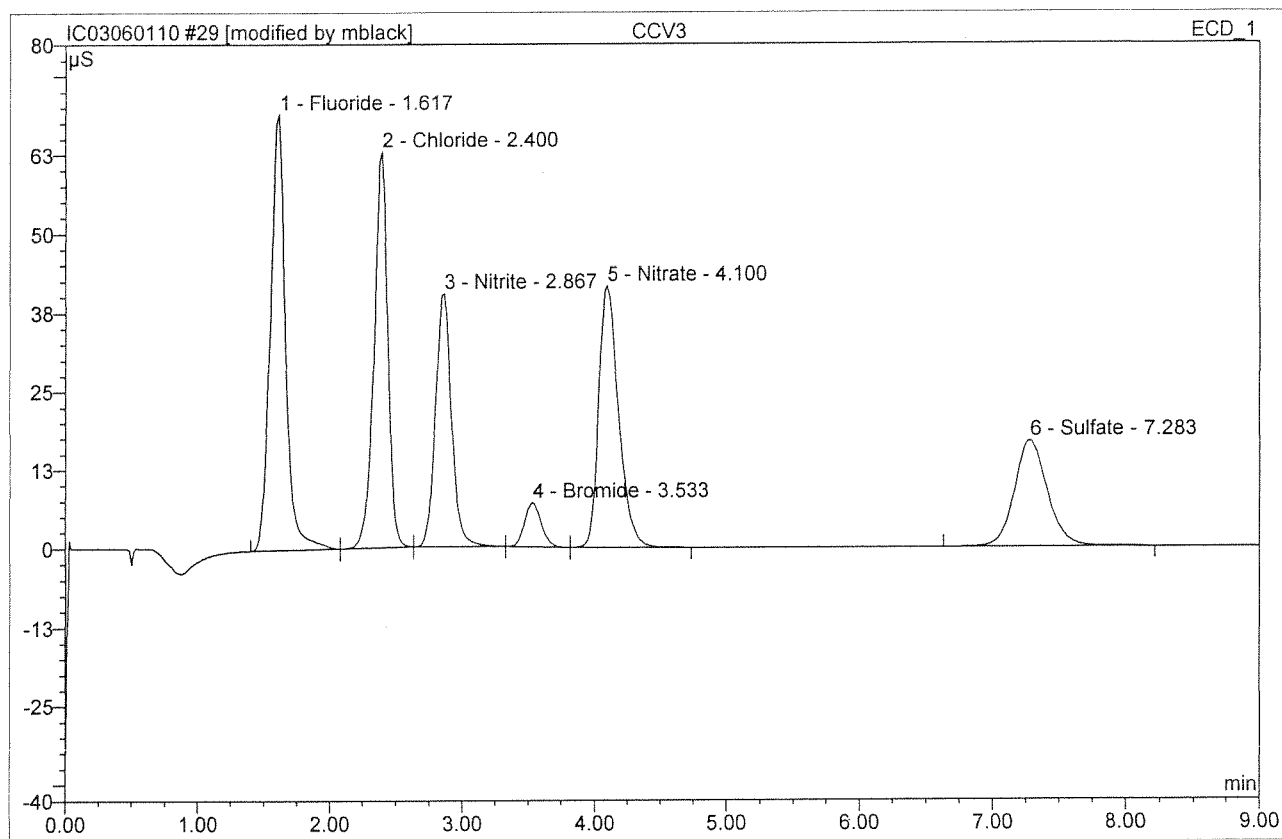


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.37	Chloride	0.784	1.482	100.00	0.950	BMB
Total:			0.784	1.482	100.00	0.950	

Before

JUN 01 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:	6/1/2010 14:26	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



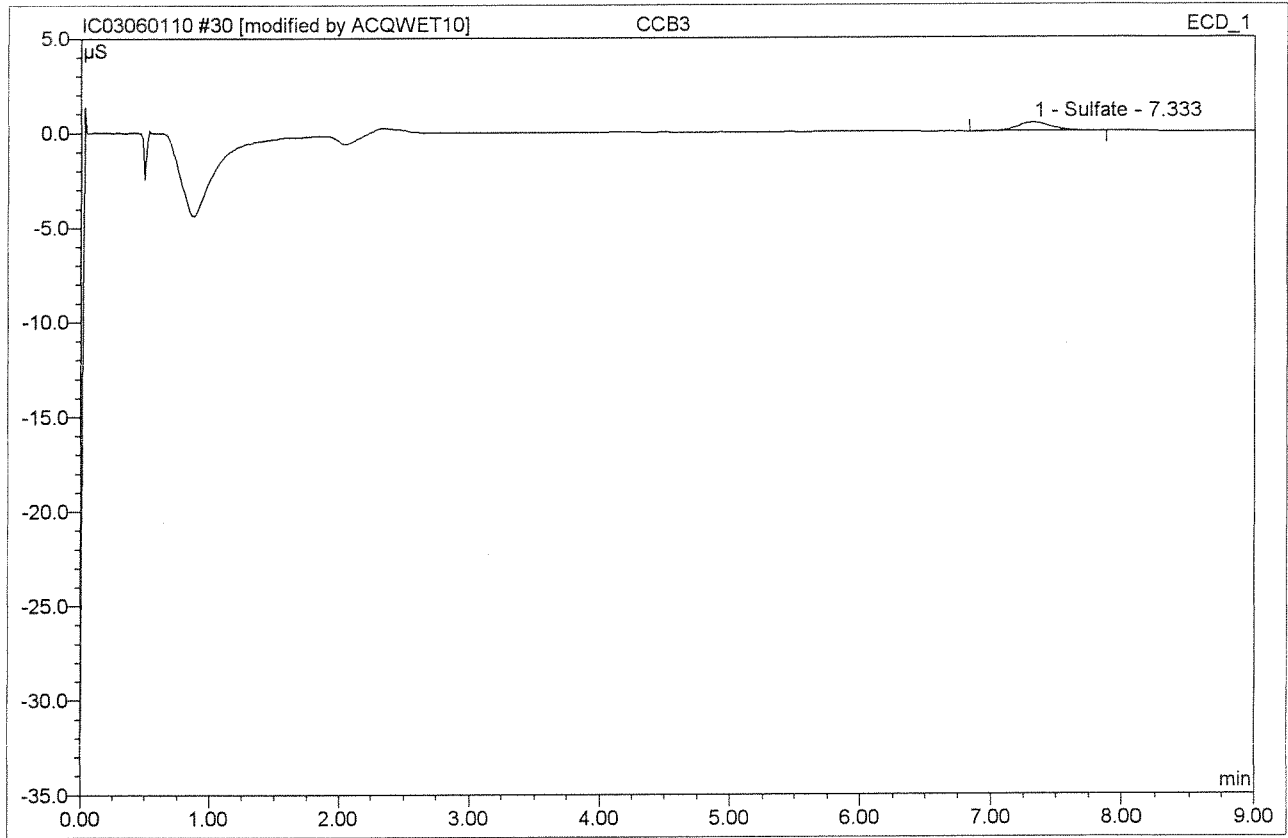
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	69.247	9.362	26.15	4.89398%	BMb*
2	2.40	Chloride	62.885	7.564	21.13	4.85097%	bMb*
3	2.87	Nitrite	40.227	5.691	15.90	1.97199%	bMb
4	3.53	Bromide	7.097	1.043	2.91	1.94798%	bMb
5	4.10	Nitrate	41.600	7.281	20.34	1.97699%	bMB
6	7.28	Sulfate	16.882	4.861	13.58	4.94099%	BMB
Total:			237.937	35.802	100.00	20.577	

After Initial **MB**

Handwritten signature 6/2/10

JUN 01 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:	6/1/2010 14:37	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



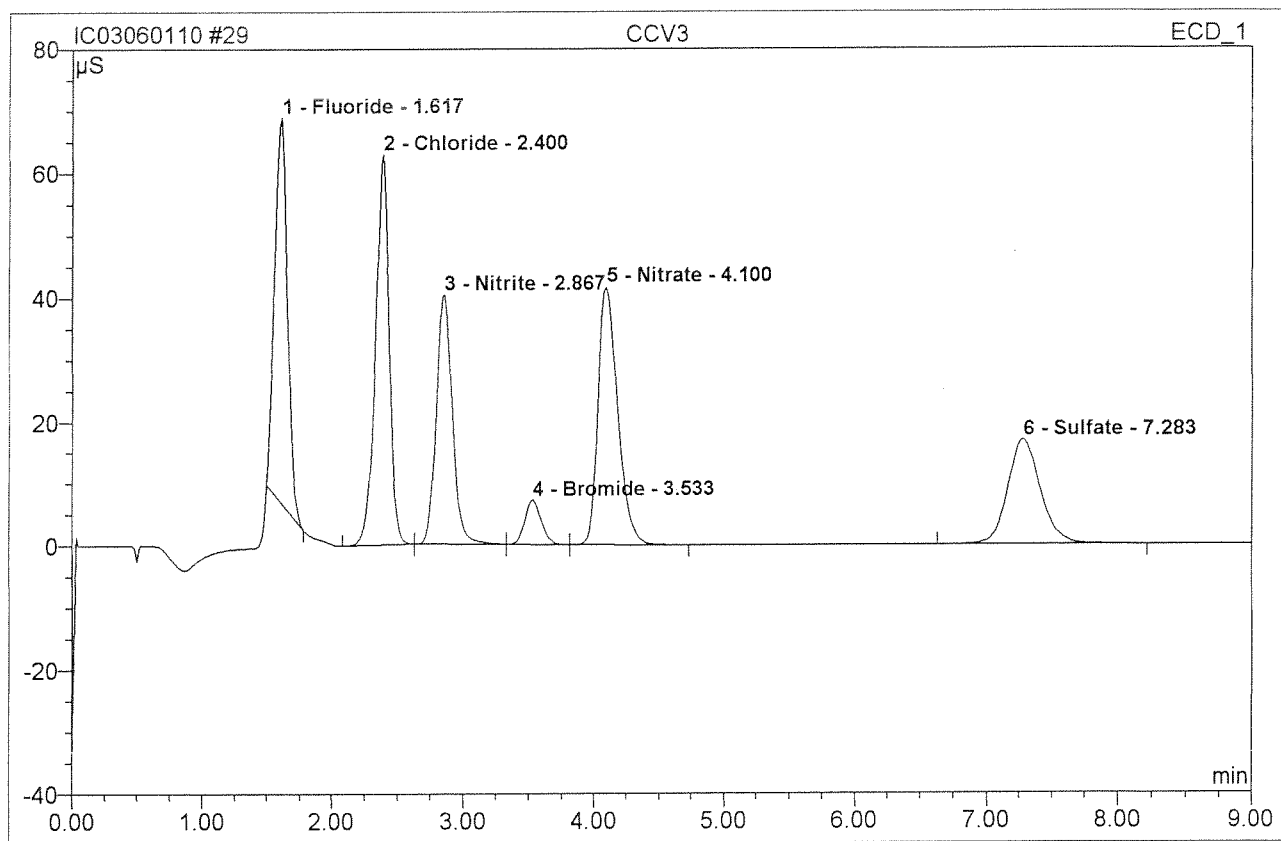
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	7.33	Sulfate <i>20.20</i>	0.451	0.138	100.00	0.140	BMB
Total:			0.451	0.138	100.00	0.140	

Anal. Initials MR

JUN 01 2010

MR 6/2/10

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:	6/1/2010 14:26	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

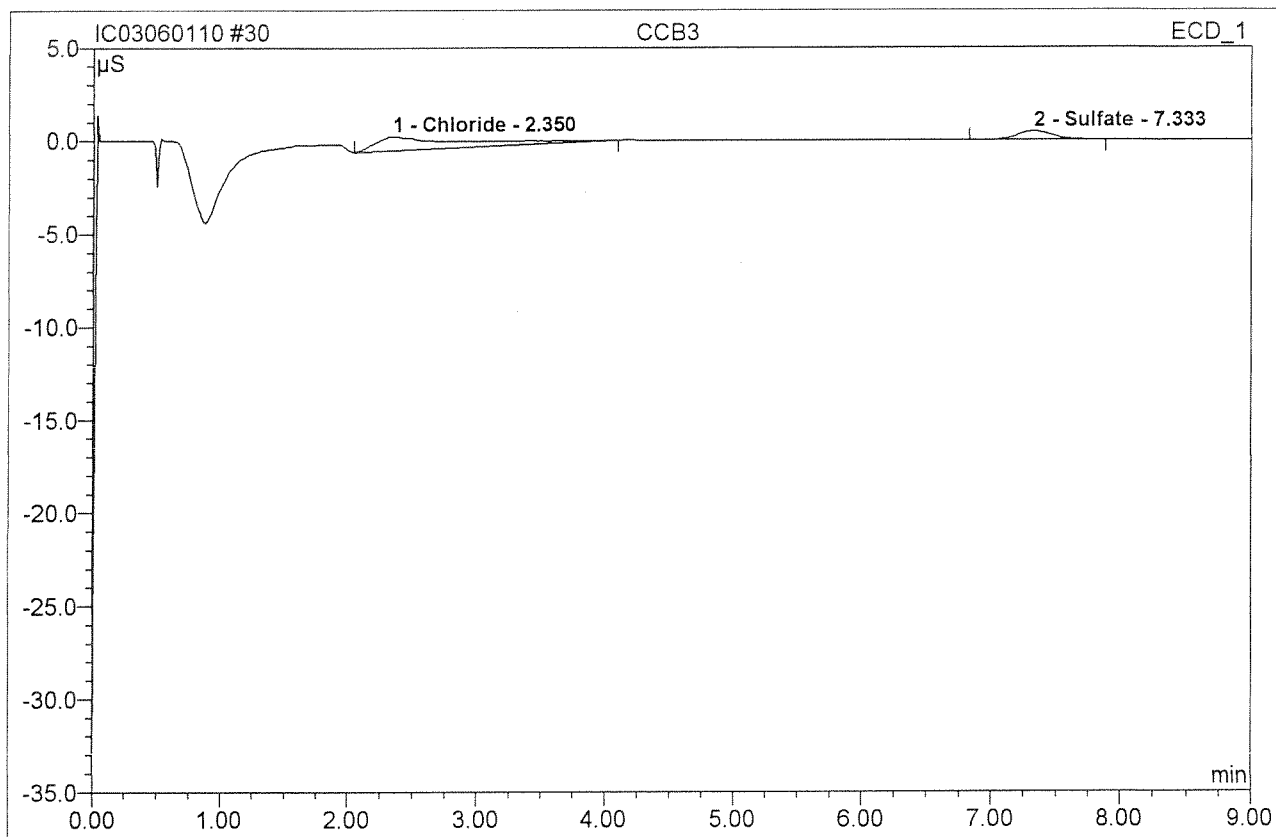


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	62.157	7.026	20.99	3.672	BMB
2	2.40	Chloride	62.885	7.564	22.60	4.850	BMb
3	2.87	Nitrite	40.227	5.691	17.00	1.971	bMb
4	3.53	Bromide	7.097	1.043	3.12	1.947	bMb
5	4.10	Nitrate	41.600	7.281	21.76	1.976	bMB
6	7.28	Sulfate	16.882	4.861	14.53	4.940	BMB
Total:			230.847	33.466	100.00	19.356	

Before

JUN 01 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:	6/1/2010 14:37	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

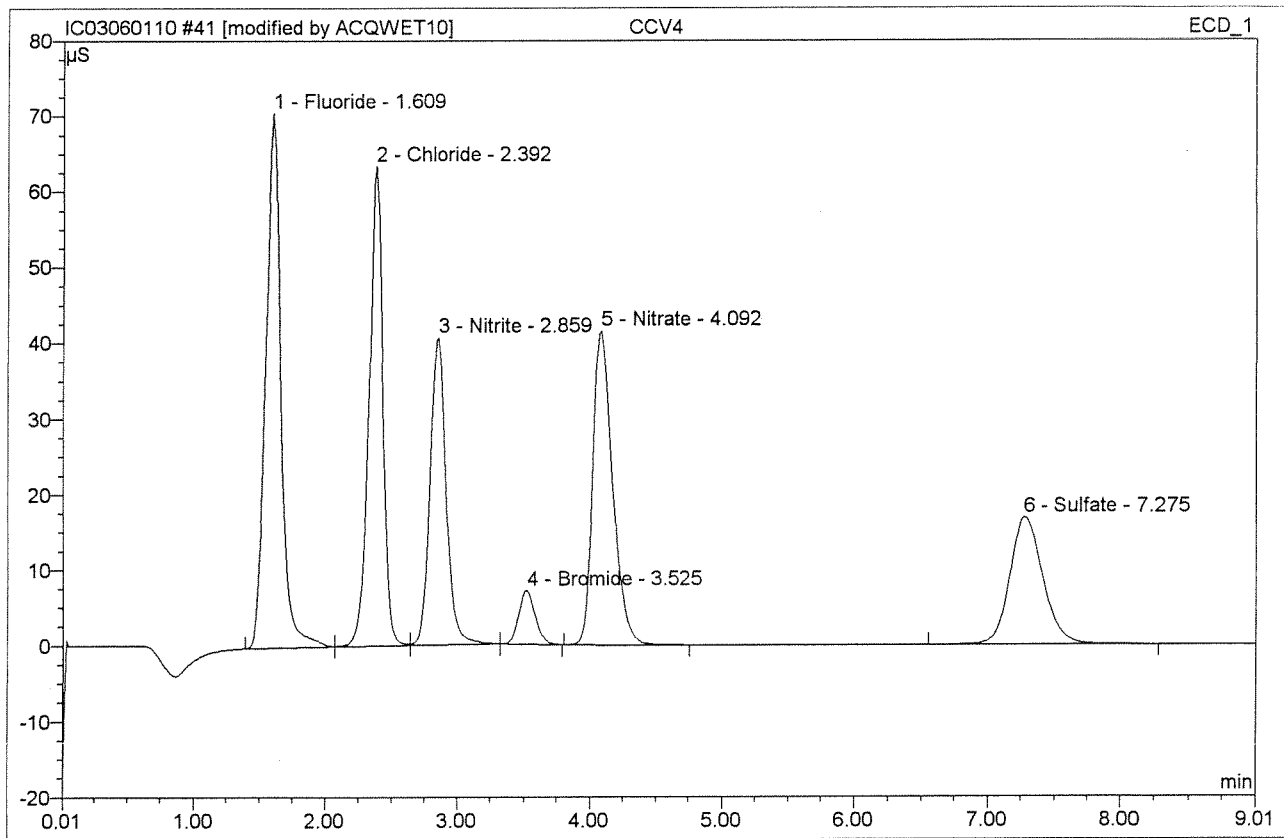


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.35	Chloride	0.748	0.578	80.75	0.371	BMB
2	7.33	Sulfate	0.451	0.138	19.25	0.140	BMB
Total:			1.199	0.716	100.00	0.511	

Before

JUN 01 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:	6/1/2010 16:43	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	1.61	Fluoride	70.628	9.393	26.15	4.909 ^{98%}	BMB*
2	2.39	Chloride	63.399	7.640	21.27	4.899 ^{98%}	bM *
3	2.86	Nitrite	40.601	5.763	16.04	1.996 ^{100%}	Mb
4	3.53	Bromide	7.090	1.041	2.90	1.943 ^{97%}	bMB
5	4.09	Nitrate	41.479	7.242	20.16	1.966 ^{97%}	BMB
6	7.28	Sulfate	16.833	4.840	13.48	4.919 ^{98%}	BMB
Total:			240.030	35.920	100.00	20.632	

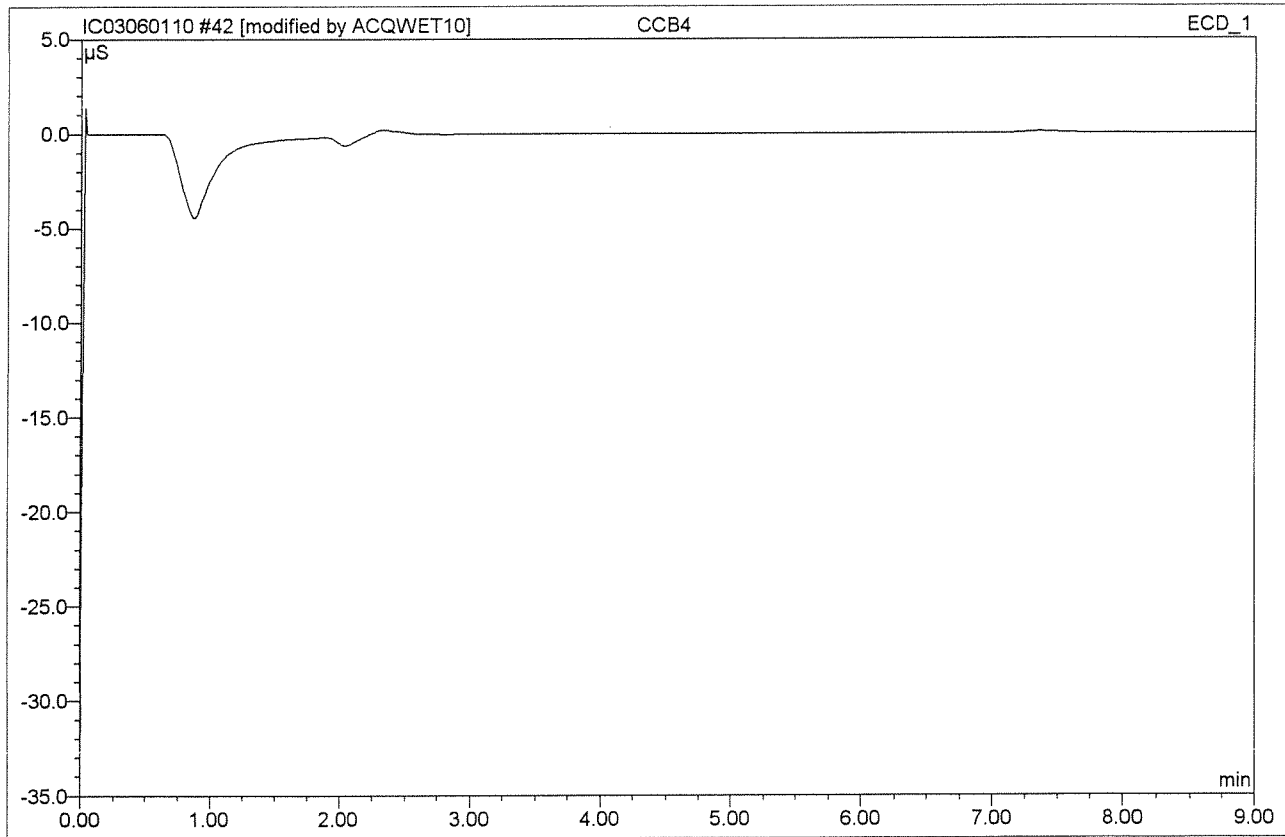
After Initials

MB

6/2/10

JUN 01 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:	6/1/2010 16:55	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	

After
Initials

LB

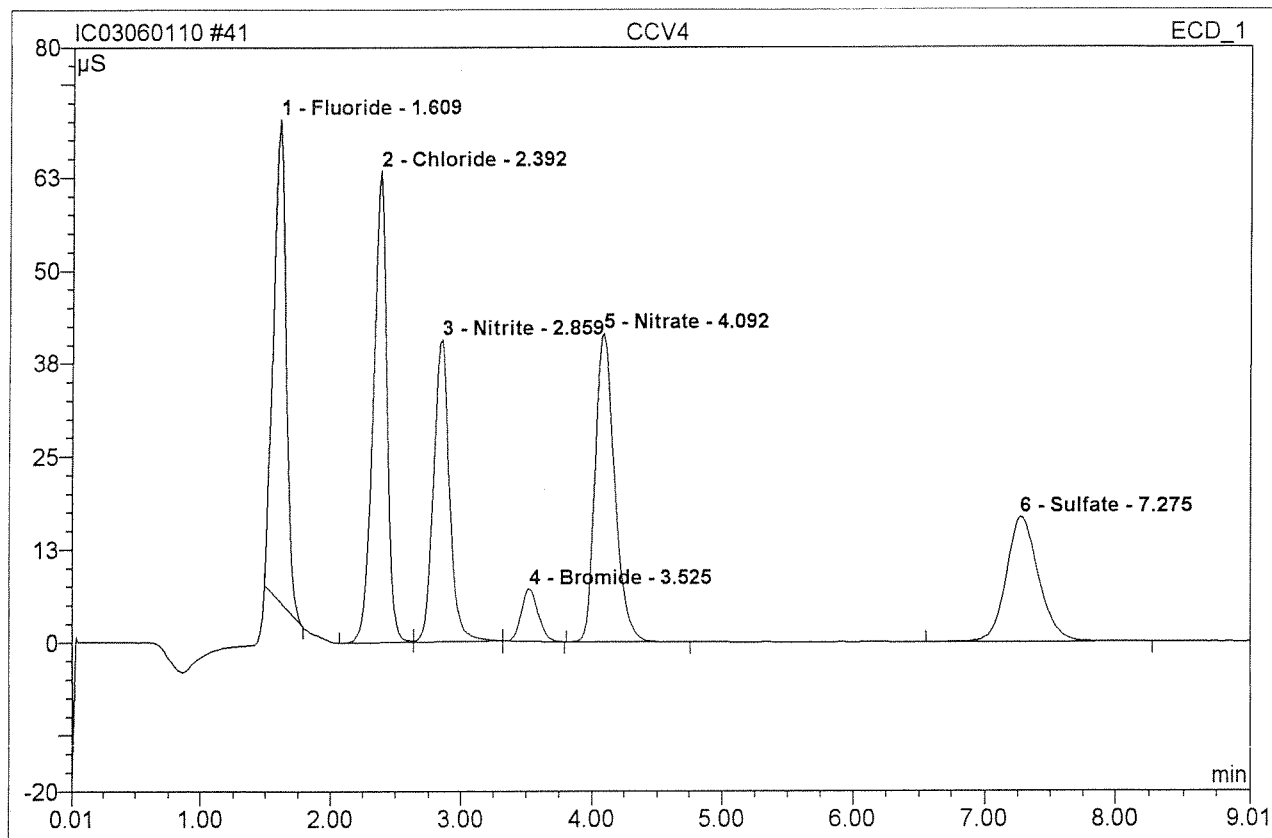
JUN 01 2010

6/2/10

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:	6/1/2010 16:43	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



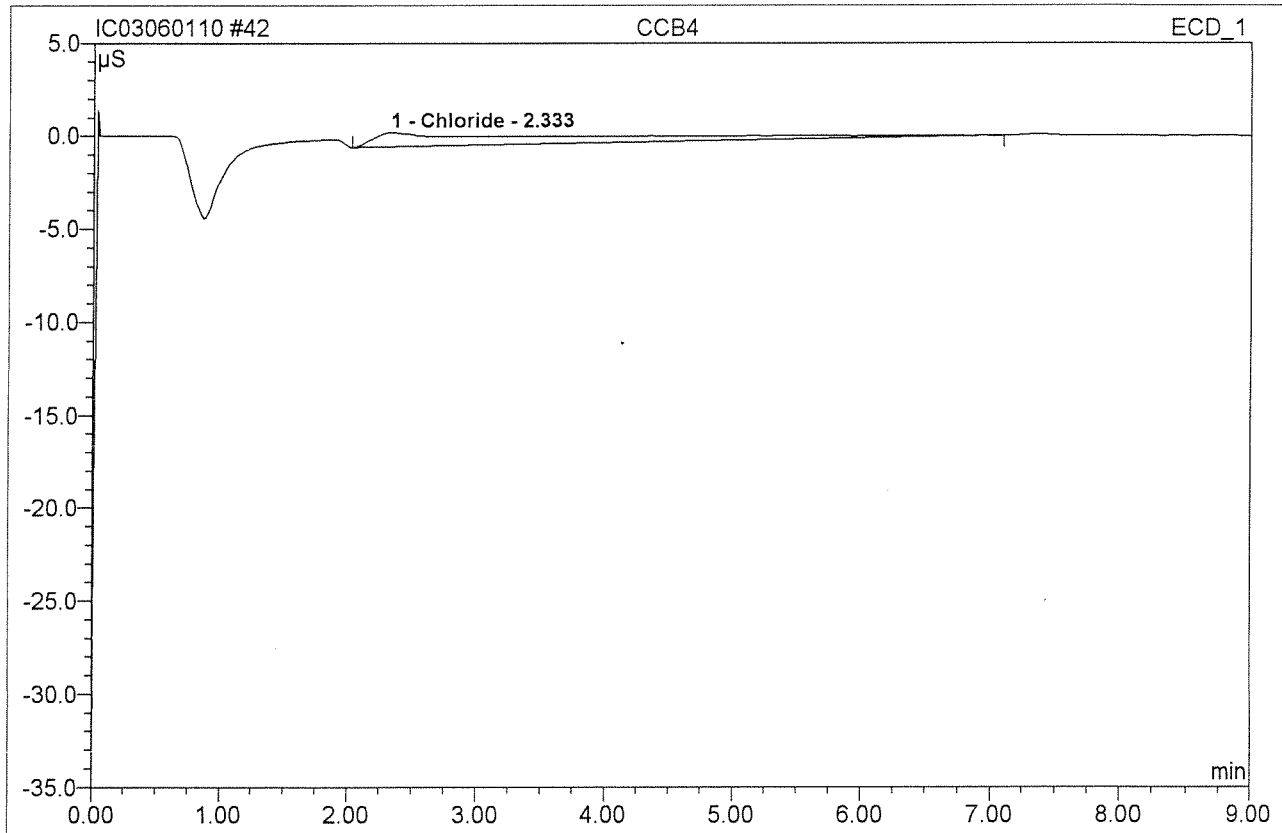
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.61	Fluoride	64.748	7.410	21.84	3.873	BMB
2	2.39	Chloride	63.399	7.640	22.51	4.899	BM
3	2.86	Nitrite	40.601	5.763	16.98	1.996	Mb
4	3.53	Bromide	7.090	1.041	3.07	1.943	bMB
5	4.09	Nitrate	41.479	7.242	21.34	1.966	BMB
6	7.28	Sulfate	16.833	4.840	14.26	4.919	BMB
Total:			234.150	33.937	100.00	19.596	

Before

JUN 01 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:	6/1/2010 16:55	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



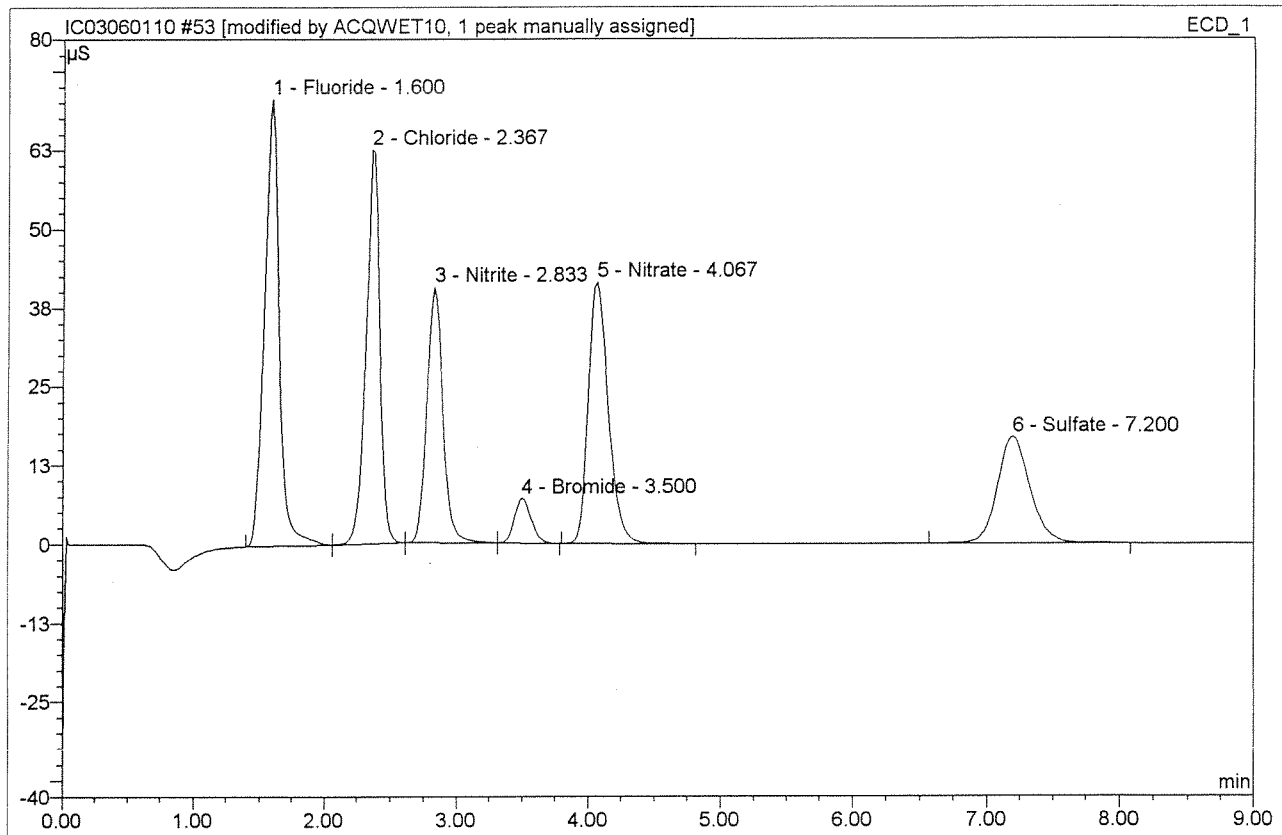
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.788	1.516	100.00	0.972	BMB
Total:			0.788	1.516	100.00	0.972	

Before

JUN 01 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:	6/1/2010 19:01	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



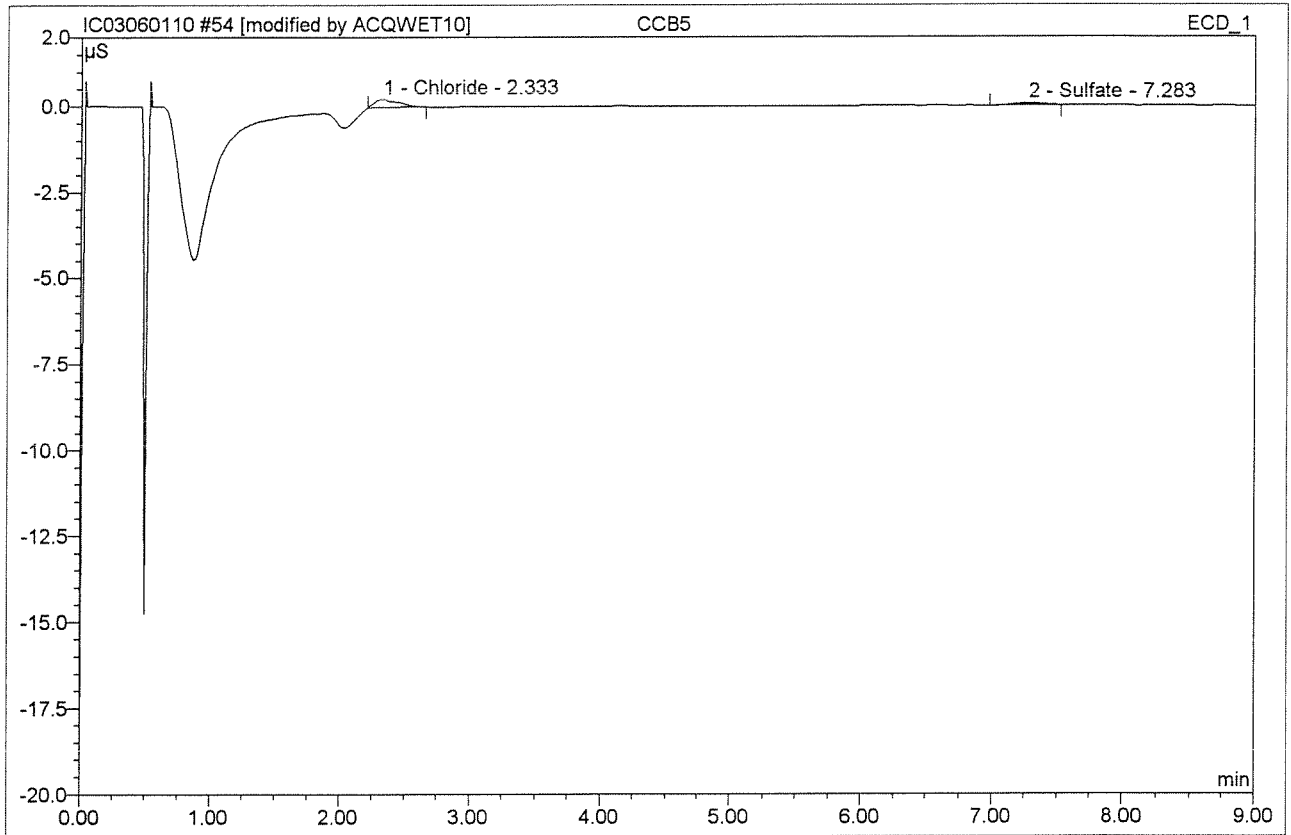
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	70.911	9.402	26.30	4.914 ^{98%}	BMB*
2	2.37	Chloride	62.463	7.555	21.13	4.845 ^{97%}	bMB*^
3	2.83	Nitrite	40.645	5.687	15.91	1.970 ^{97%}	bMB
4	3.50	Bromide	7.067	1.038	2.90	1.937 ^{97%}	bMB
5	4.07	Nitrate	41.515	7.260	20.31	1.971 ^{99%}	BMB
6	7.20	Sulfate	16.886	4.812	13.46	4.890 ^{98%}	BMB
Total:			239.487	35.755	100.00	20.526	

After
Initials

MB

6/2/10

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:	6/1/2010 19:12	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 <i>LO-20</i>	0.235	0.050	74.97	0.032	BMB*
2	7.28	Sulfate <i>LO-20</i>	0.066	0.017	25.03	0.017	BMB*
Total:			0.300	0.066	100.00	0.049	

Alter
Initiate

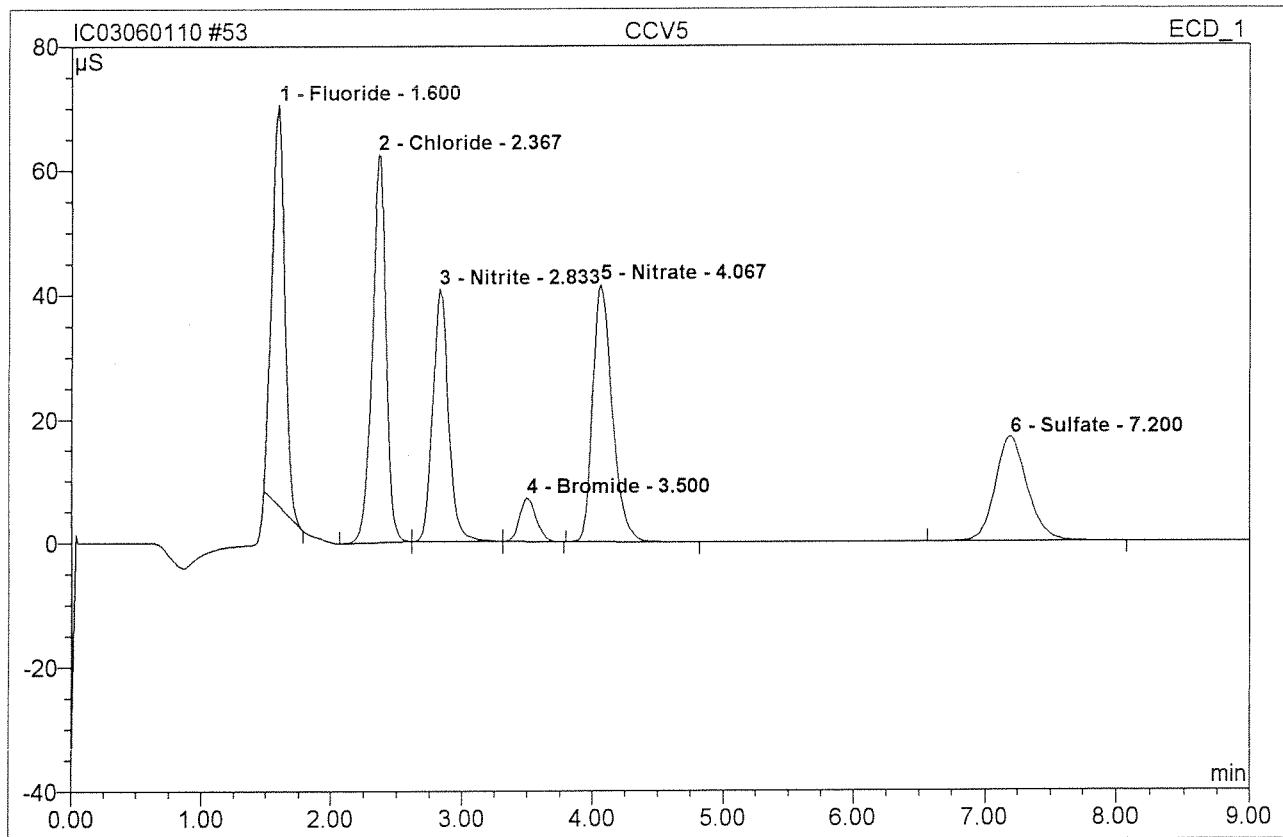
AS

JUN 01 2010

6/2/10

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:	6/1/2010 19:01	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

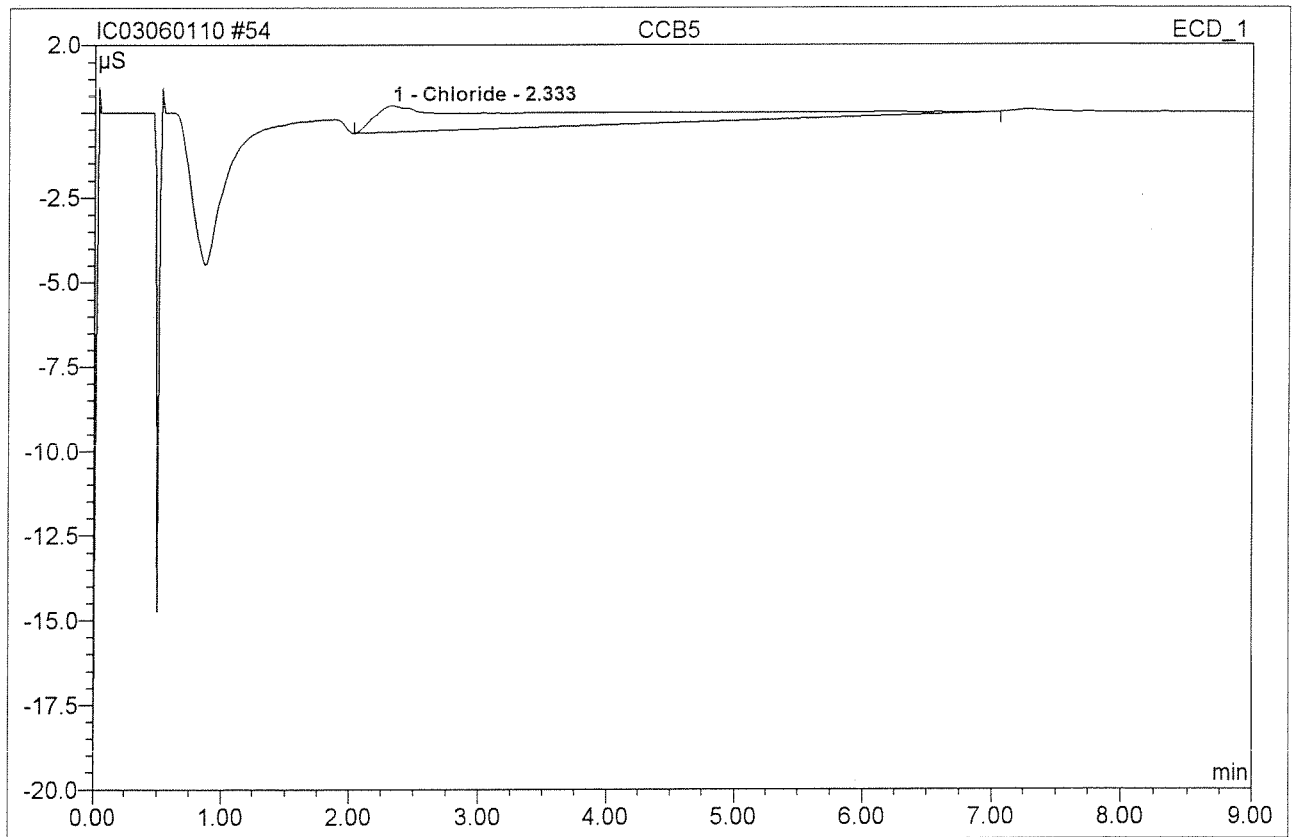


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	64.630	7.326	21.75	3.829	BMB
2	2.37	Chloride	62.463	7.555	22.43	4.845	BMb
3	2.83	Nitrite	40.645	5.687	16.89	1.970	bMb
4	3.50	Bromide	7.067	1.038	3.08	1.937	bMB
5	4.07	Nitrate	41.515	7.260	21.56	1.971	BMB
6	7.20	Sulfate	16.886	4.812	14.29	4.890	BMB
Total:			233.206	33.679	100.00	19.441	

Before

JUN 01 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:	6/1/2010 19:12	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

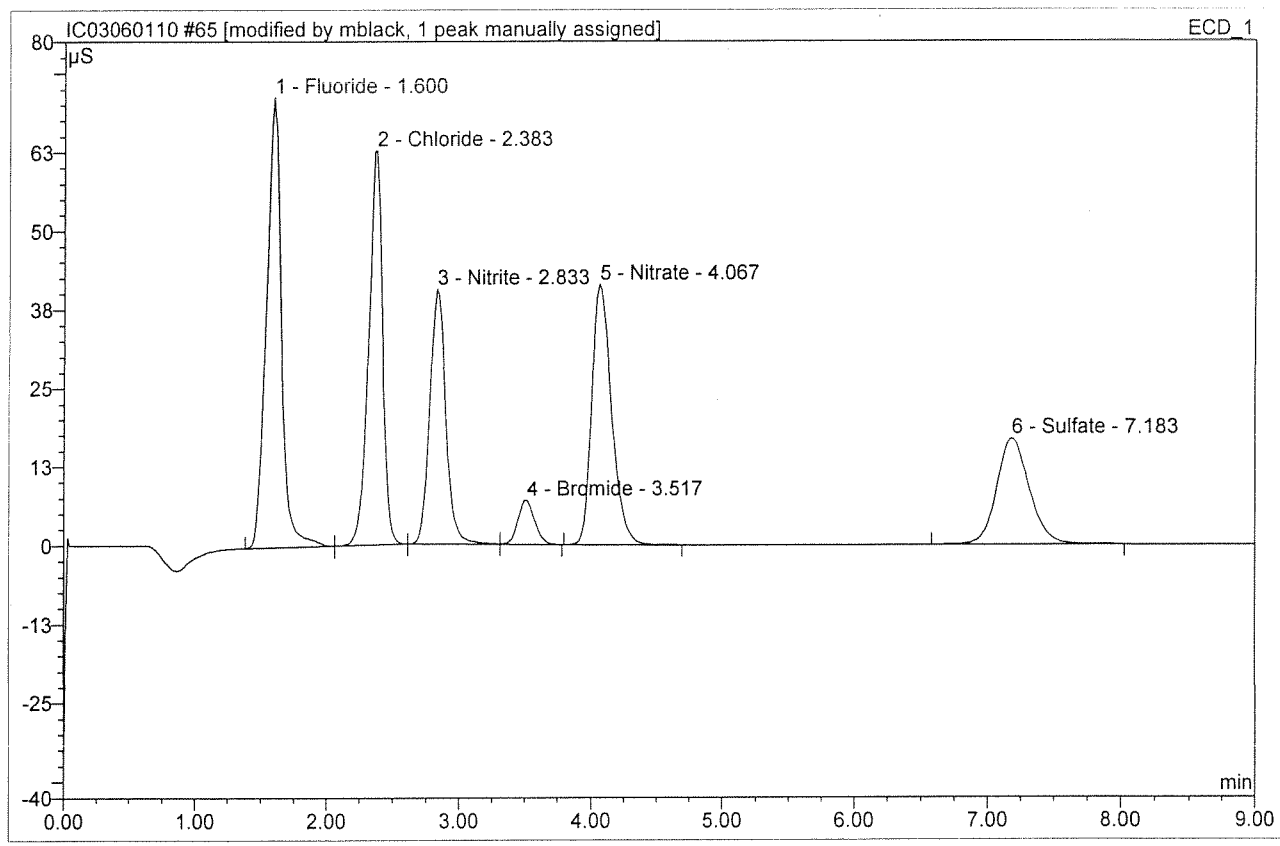


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.786	1.506	100.00	0.966	BMB
Total:			0.786	1.506	100.00	0.966	

Before

JUN 01 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:	6/1/2010 21:32	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	71.494	9.431	26.33	4.929 ^{99%}	BMb*
2	2.38	Chloride	62.676	7.605	21.23	4.876 ^{93%}	bMb*^
3	2.83	Nitrite	40.511	5.684	15.87	1.969 ^{99%}	bMb
4	3.52	Bromide	7.027	1.040	2.90	1.941 ^{97%}	bMB
5	4.07	Nitrate	41.375	7.252	20.25	1.968 ^{97%}	BMB
6	7.18	Sulfate	16.940	4.806	13.42	4.884 ^{95%}	BMB
Total:			240.023	35.818	100.00	20.568	

After initials LB

JUN 02 2010

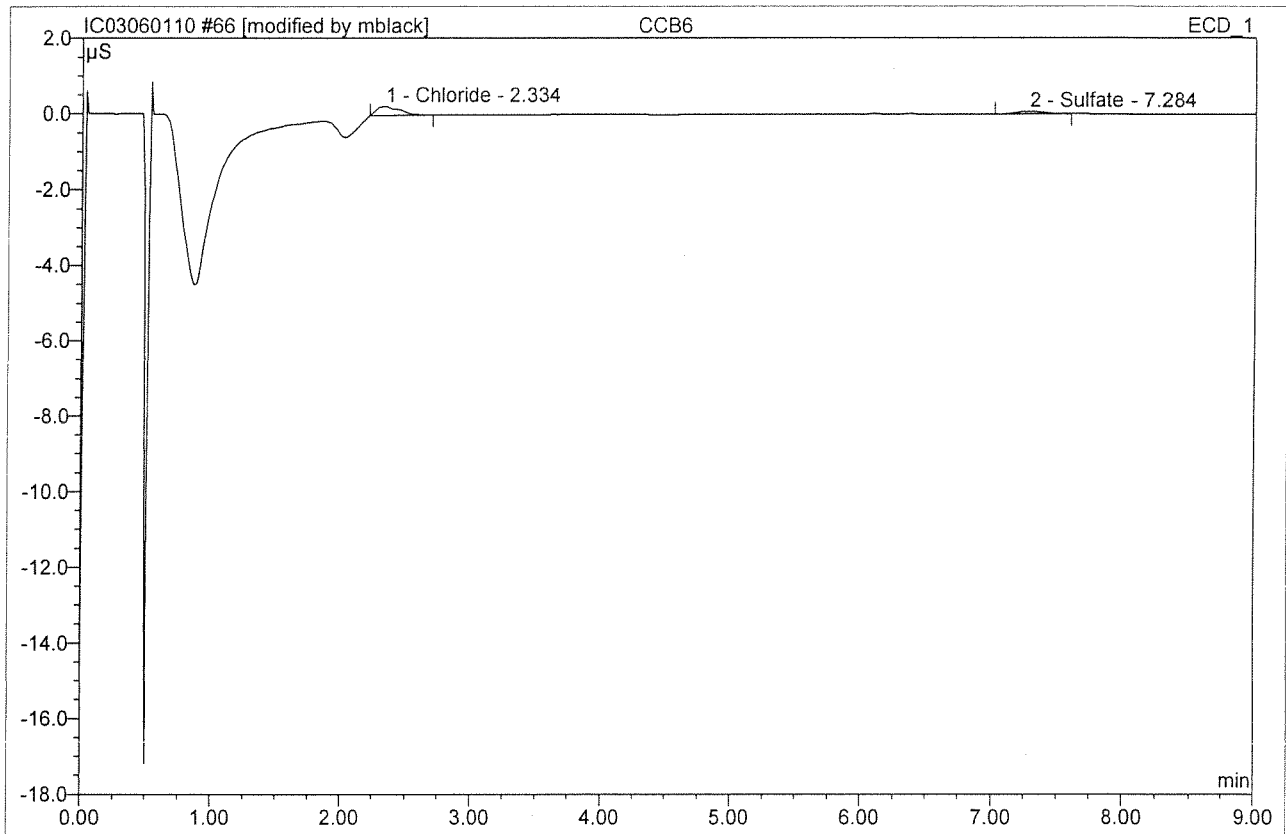
6/2/10

default/Integration

Wrong Peak/Peak not Found
Integration error incorrect
Order

Chromeleon (c) Dionex 1996-2001
Version 6.80 SP1 Build 2238

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:	6/1/2010 21:43	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	2.33	Chloride <i>20.20</i>	0.242	0.050	74.17	0.032	BMB*
2	7.28	Sulfate <i>20.20</i>	0.067	0.017	25.83	0.018	BMB*
Total:			0.309	0.067	100.00	0.050	

Alter Initials

MS

JUN 02 2010

6/2/10

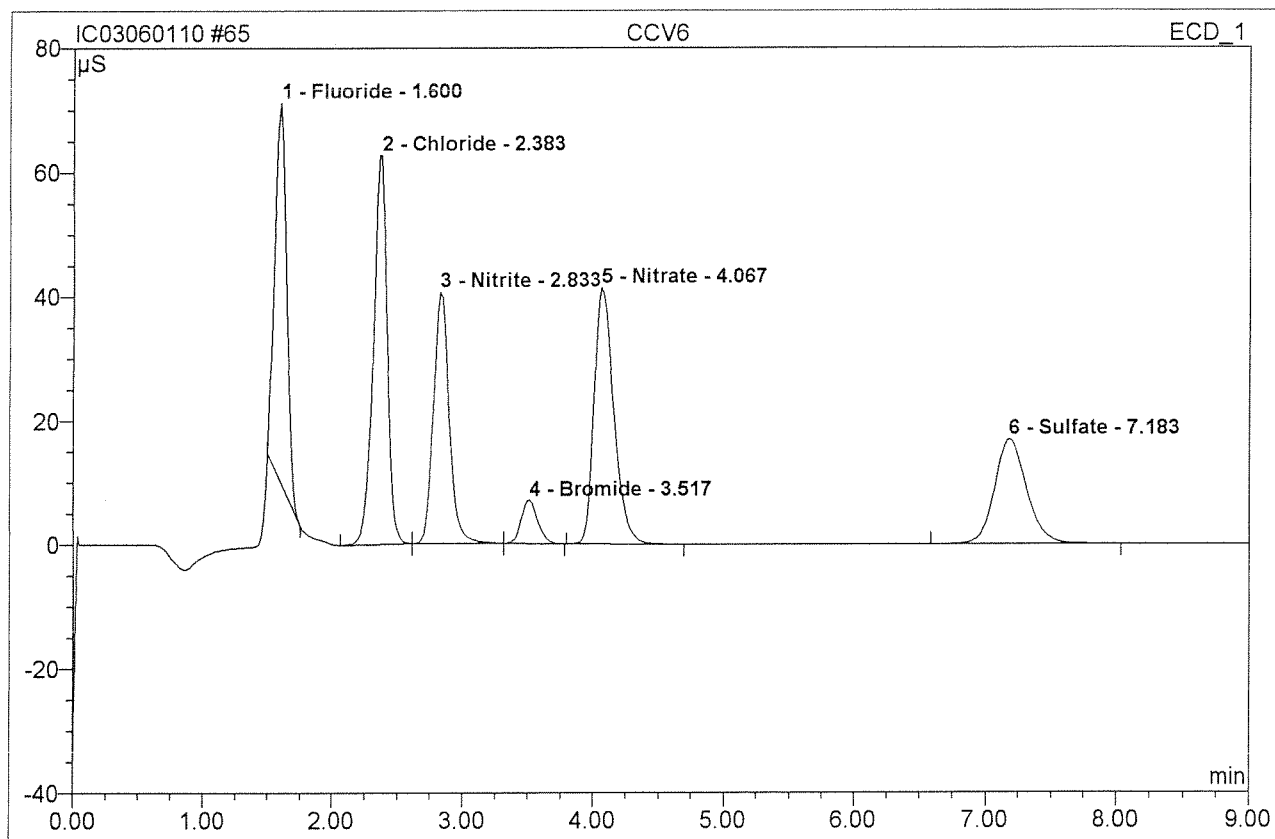
default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other

Chromeleon (c) Dionex 1996-2001
Version 6.80 SP1 Build 2238

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:	6/1/2010 21:32	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

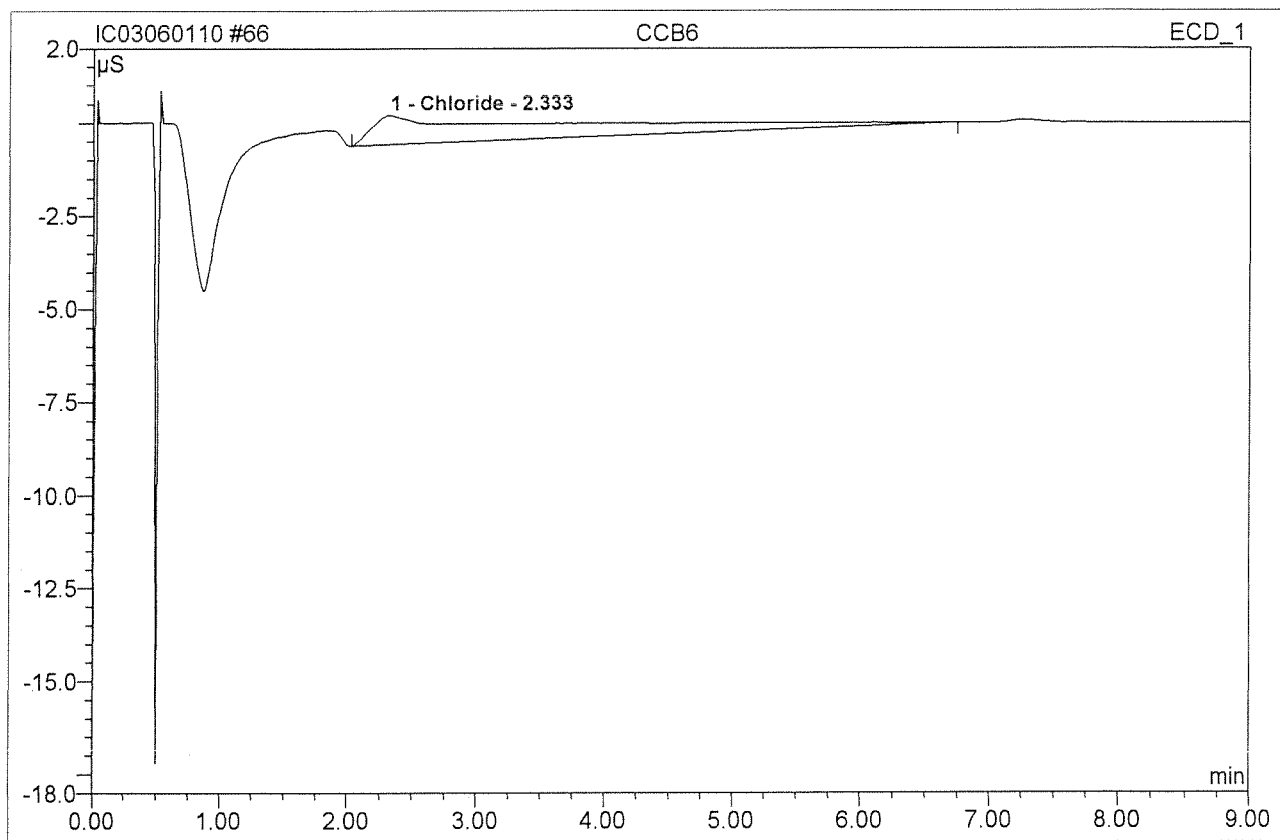


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	1.60	Fluoride	61.053	6.420	19.57	3.355	BMB
2	2.38	Chloride	62.676	7.605	23.18	4.876	BMb
3	2.83	Nitrite	40.511	5.684	17.33	1.969	bMb
4	3.52	Bromide	7.027	1.040	3.17	1.941	bMB
5	4.07	Nitrate	41.375	7.252	22.10	1.968	BMB
6	7.18	Sulfate	16.940	4.806	14.65	4.884	BMB
Total:			229.582	32.807	100.00	18.994	

Before

JUN 02 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:	6/1/2010 21:43	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	2.33	Chloride	0.781	1.396	100.00	0.895	BMB
Total:			0.781	1.396	100.00	0.895	

Before

JUN 02 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

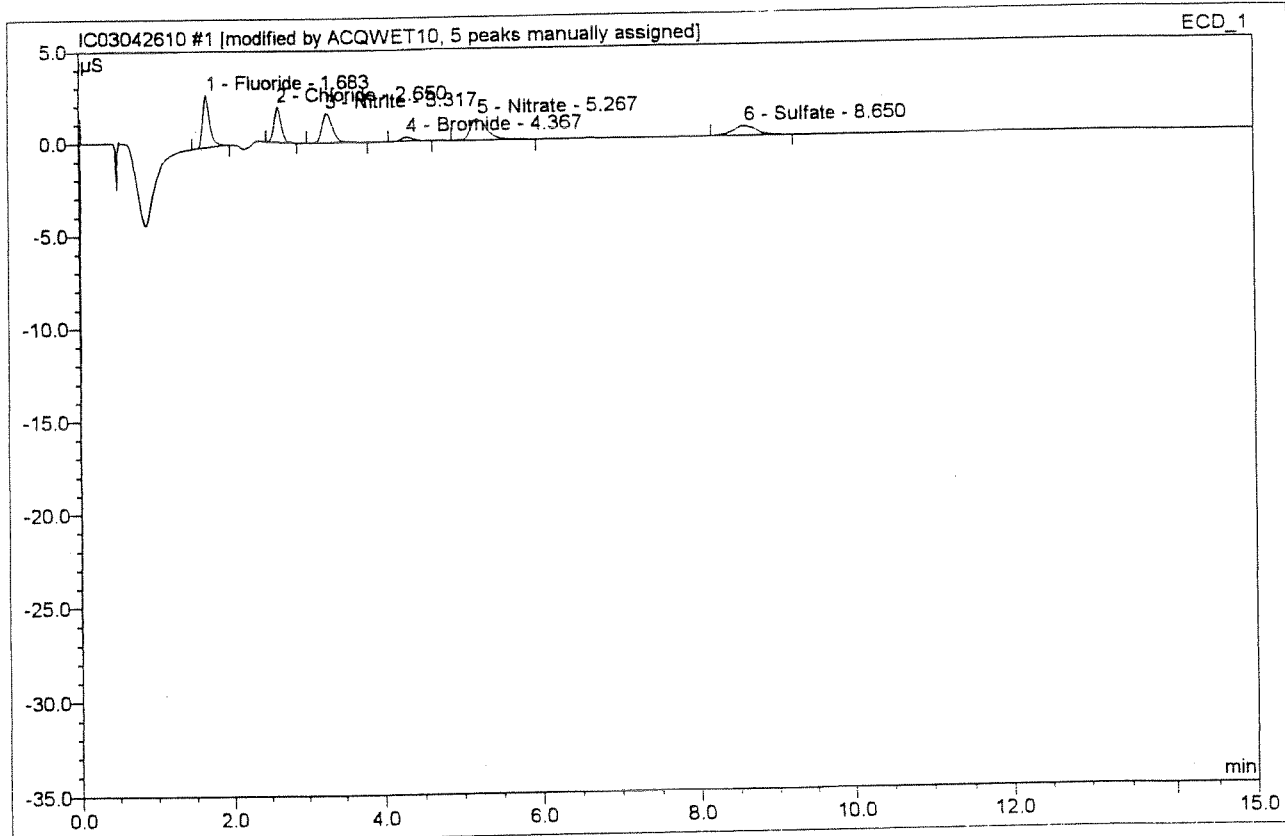
Anion	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Corr.Coeff.	Slope
F	0.0	0.2	0.5	1.0	5.0	7.5	10.0	99.9846	1.9134
Cl	0.0	0.2	0.5	1.0	5.0	7.5	10.0	99.9661	1.5595
NO2	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9925	2.8873
Br	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9591	0.5358
NO3	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9043	3.6839
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.

6/24/10

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	2.860	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	

142

5/4/10 10:35 AM

APR 26 2010

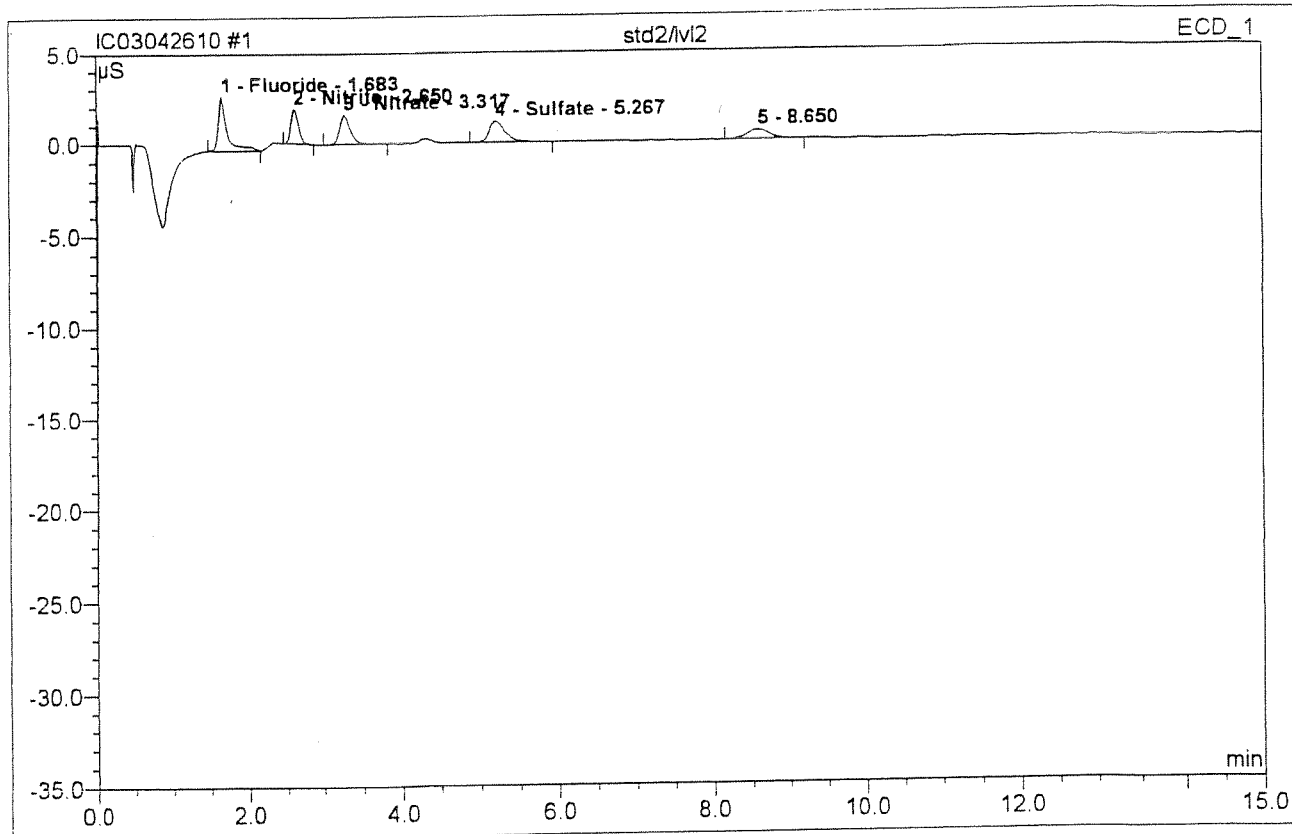
Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

default/Integration

1 std2/lvl2

Sample Name: **std2/lvl2**
 Vial Number: **1**
 Sample Type: **standard**
 Control Program: **epa300**
 Quantif. Method: **epa300**
 Recording Time: **4/26/2010 8:54**
 Run Time (min): **15.00**

Injection Volume: **200.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	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

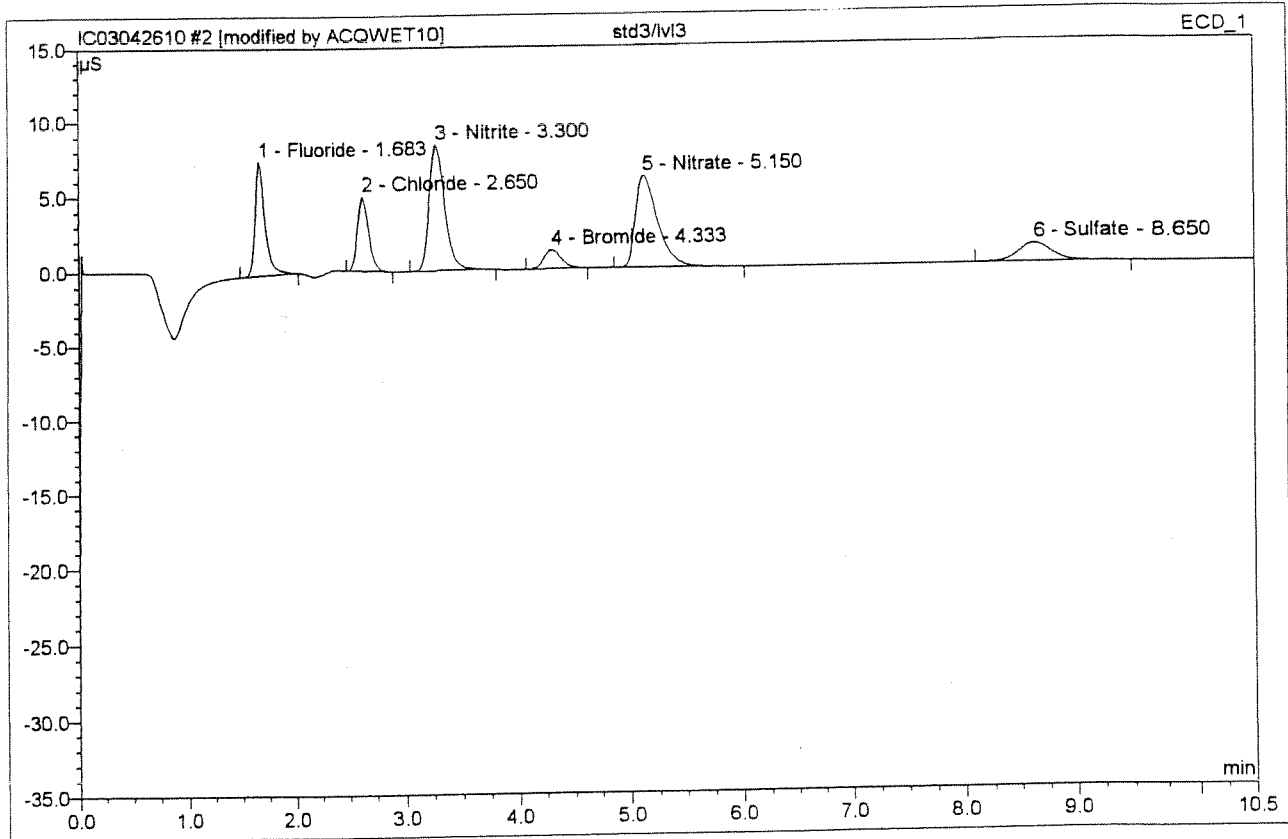
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default/Integration

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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

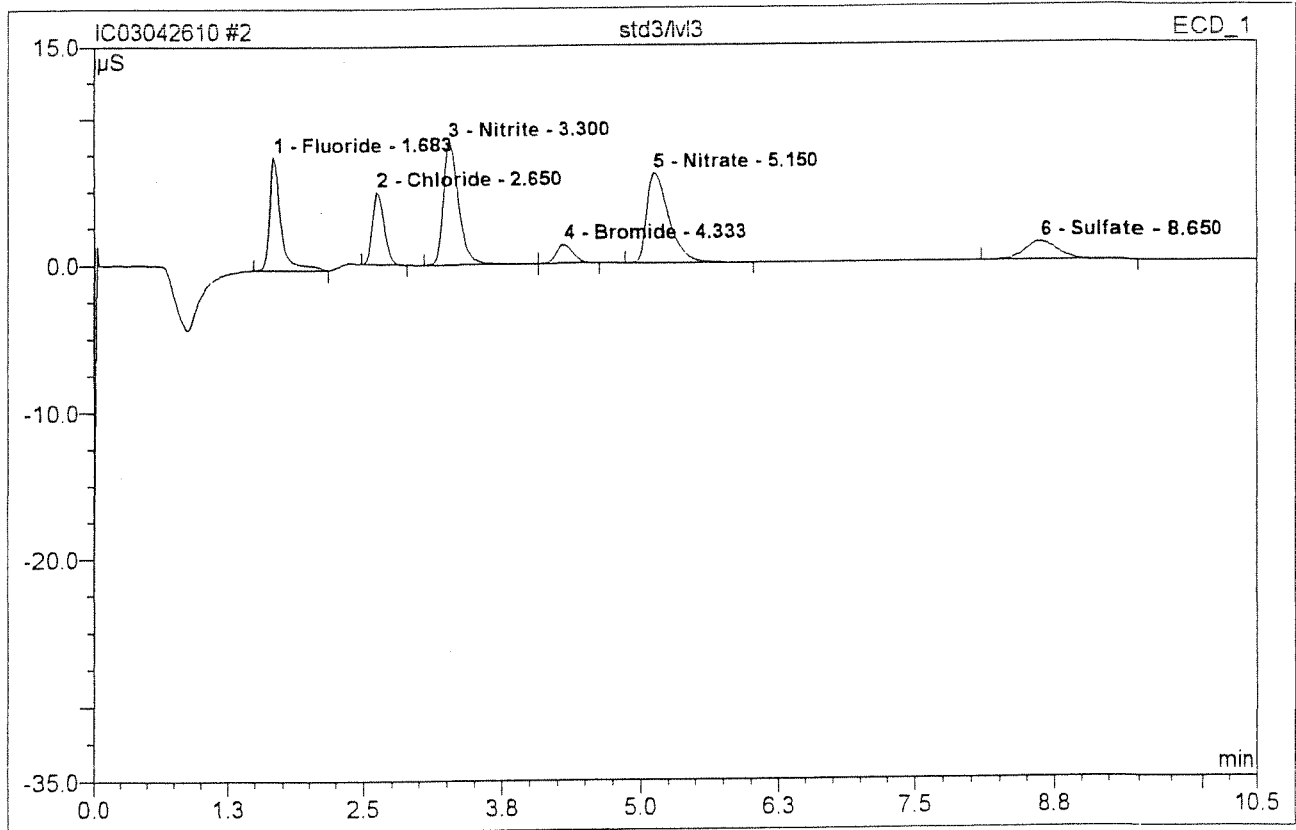


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	7.622	0.844	17.37	0.441	BMB*
2	2.65	Chloride	4.937	0.589	12.12	0.378	BMB
3	3.30	Nitrite	8.365	1.329	27.34	0.460	BMB*
4	4.33	Bromide	1.271	0.229	4.72	0.428	BMB*
5	5.15	Nitrate	6.087	1.425	29.30	0.387	BMB
6	8.65	Sulfate	1.253	0.445	9.16	0.452	BMB
Total:			29.536	4.862	100.00	2.547	

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2 std3/lv13			
Sample Name:	std3/lv13	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

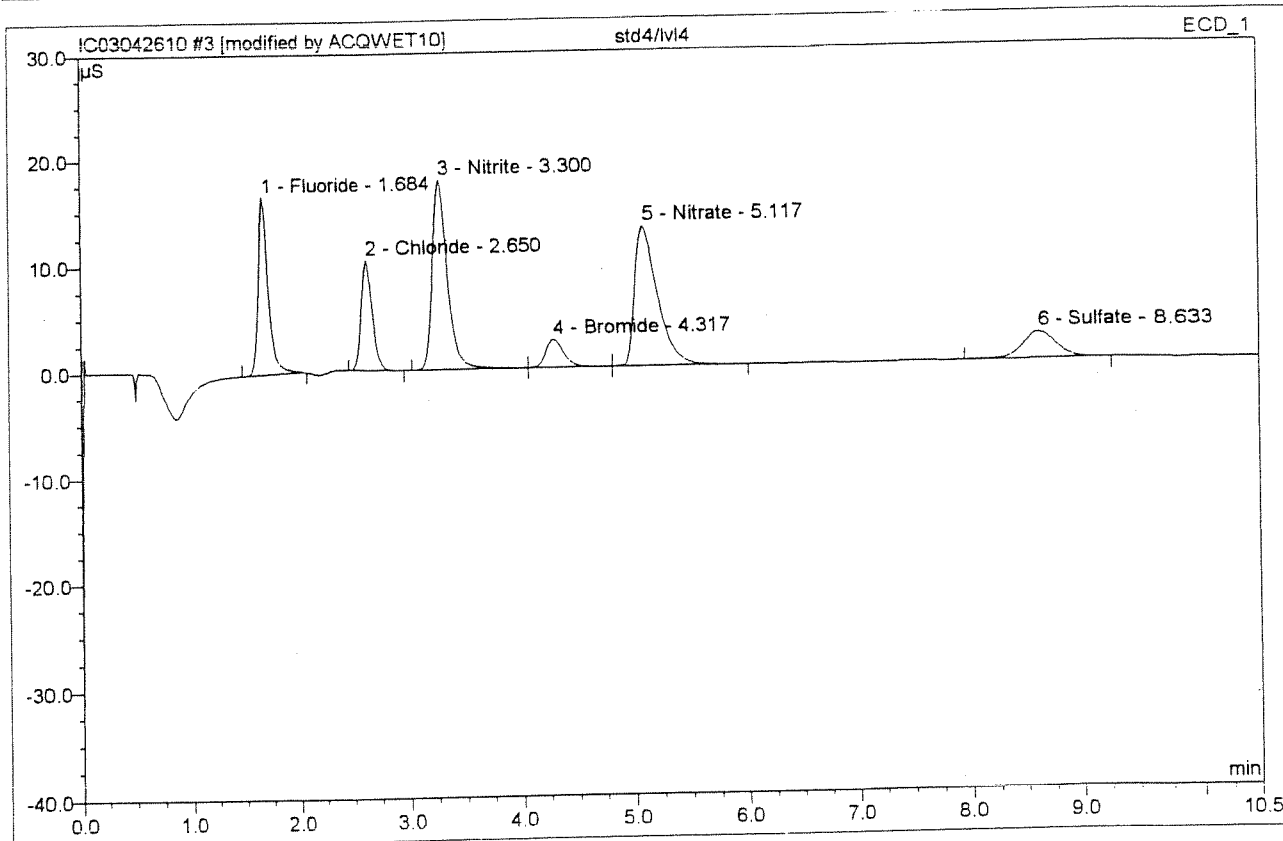
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default/Integration

3 std4/lvl4

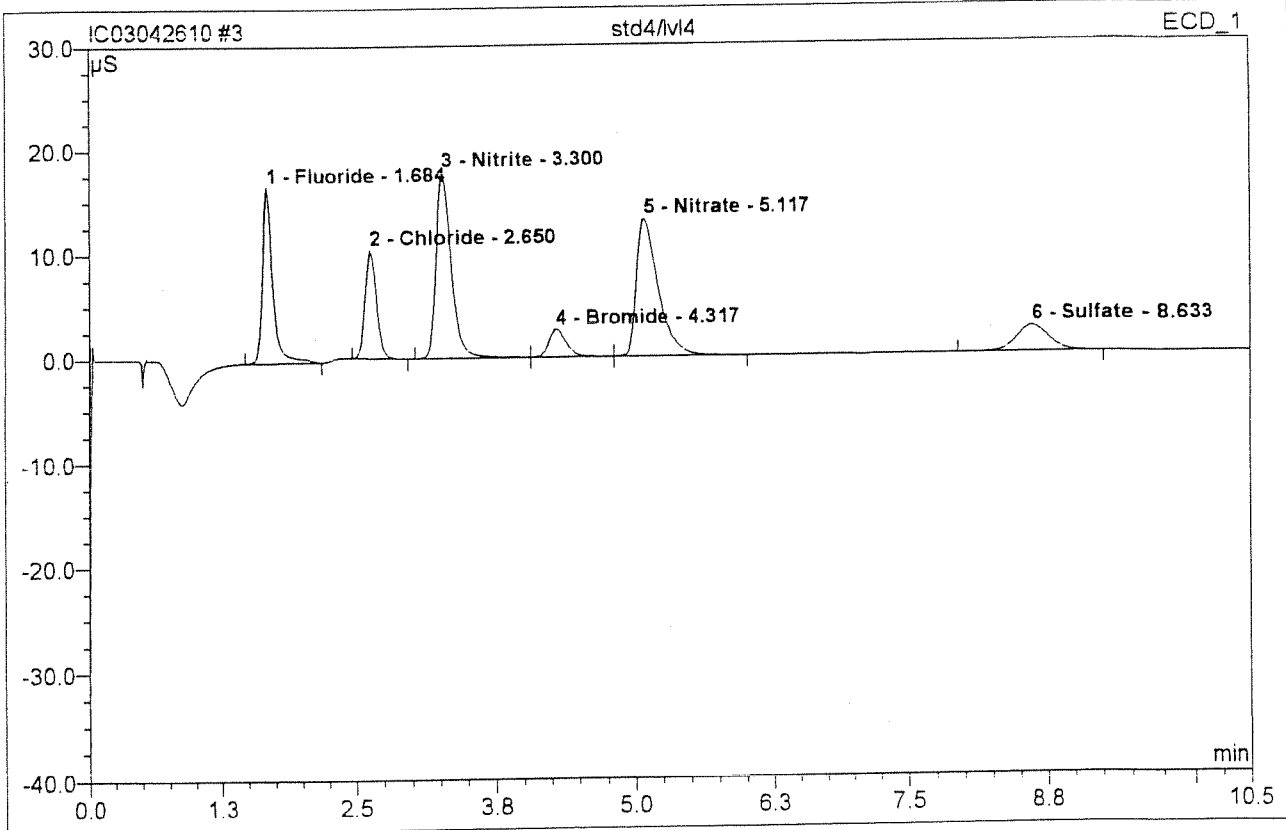
Sample Name:	std4/lvl4	Injection Volume:	200.0
Vial Number:	3	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:25	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.68	Fluoride	16.676	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	

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	

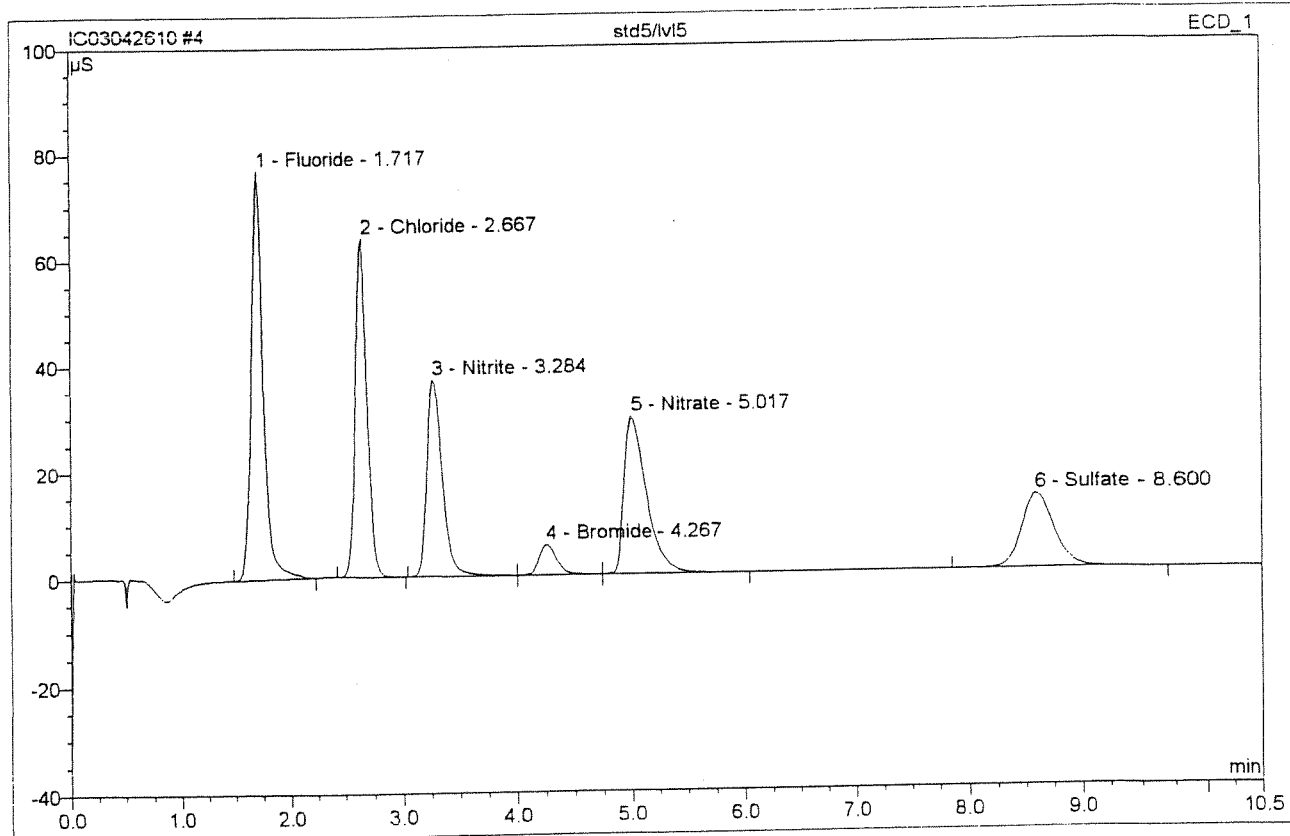
BEFORE

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default/Integration

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	

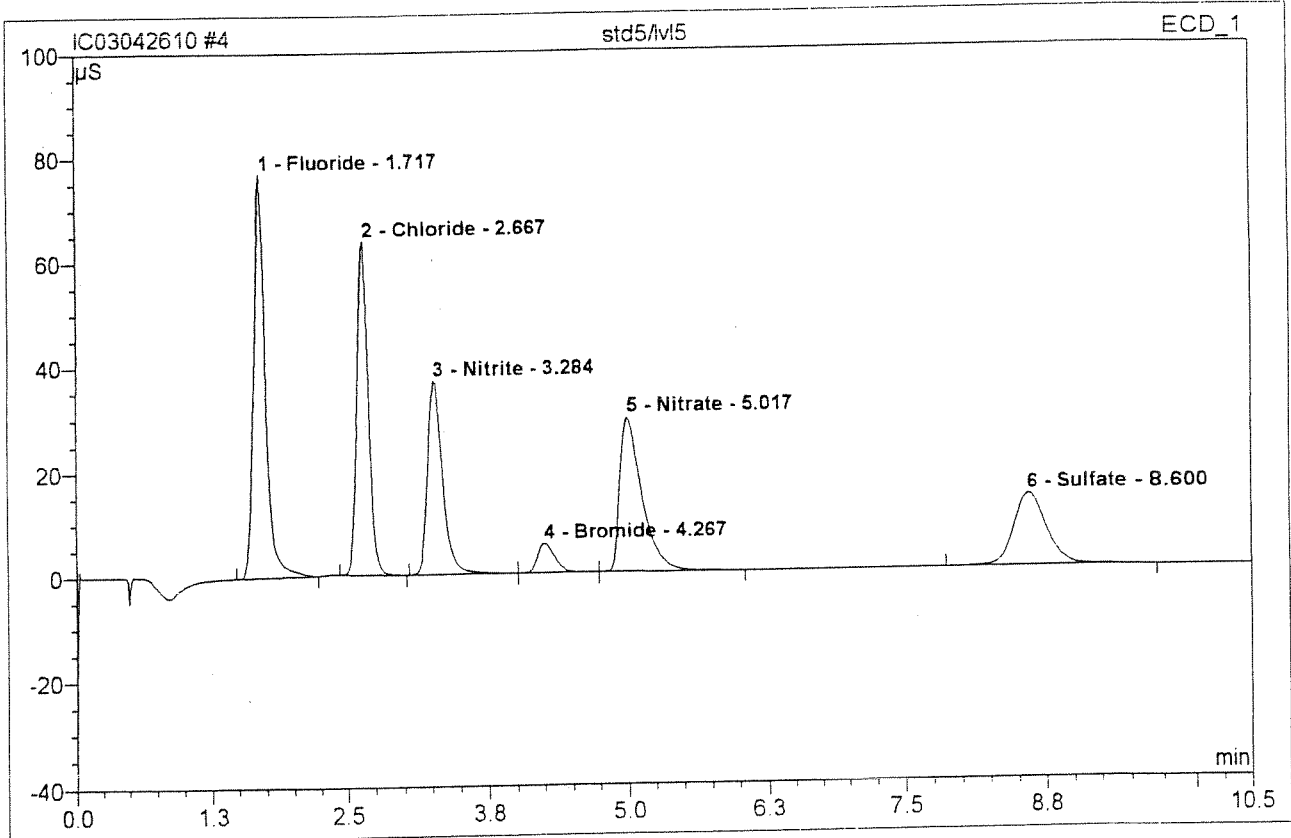
default/Integration

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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

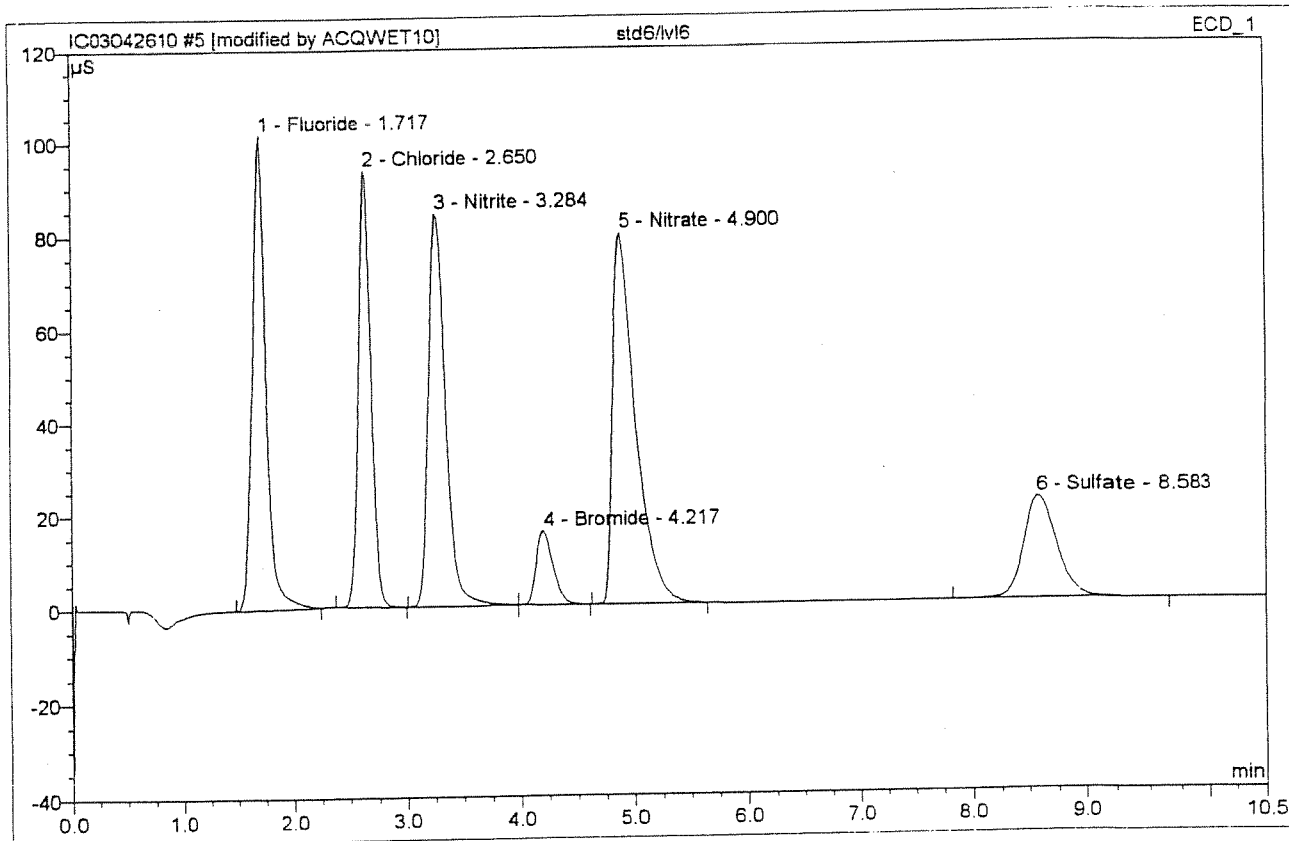
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Version 6.50 SP1 Build 956

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	

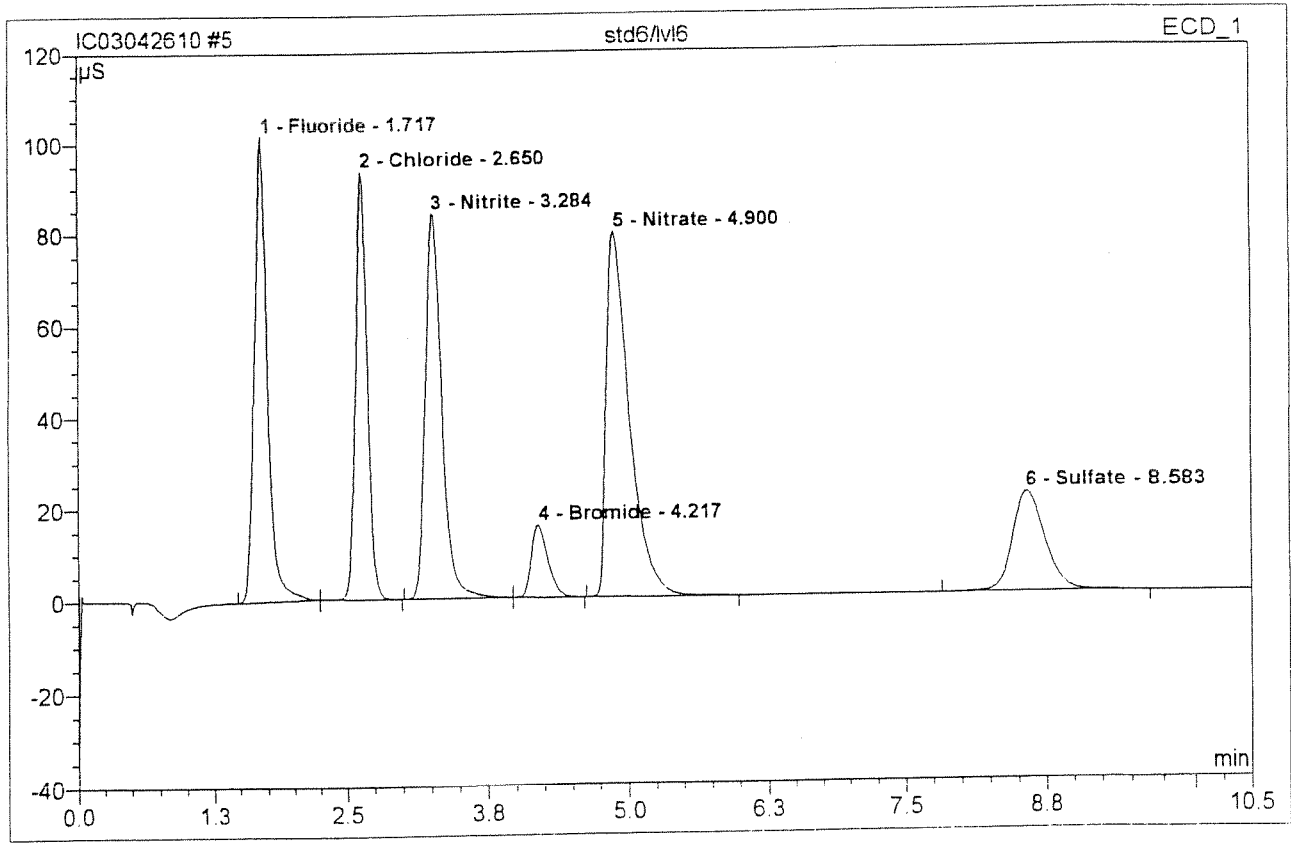
default/Integration

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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	

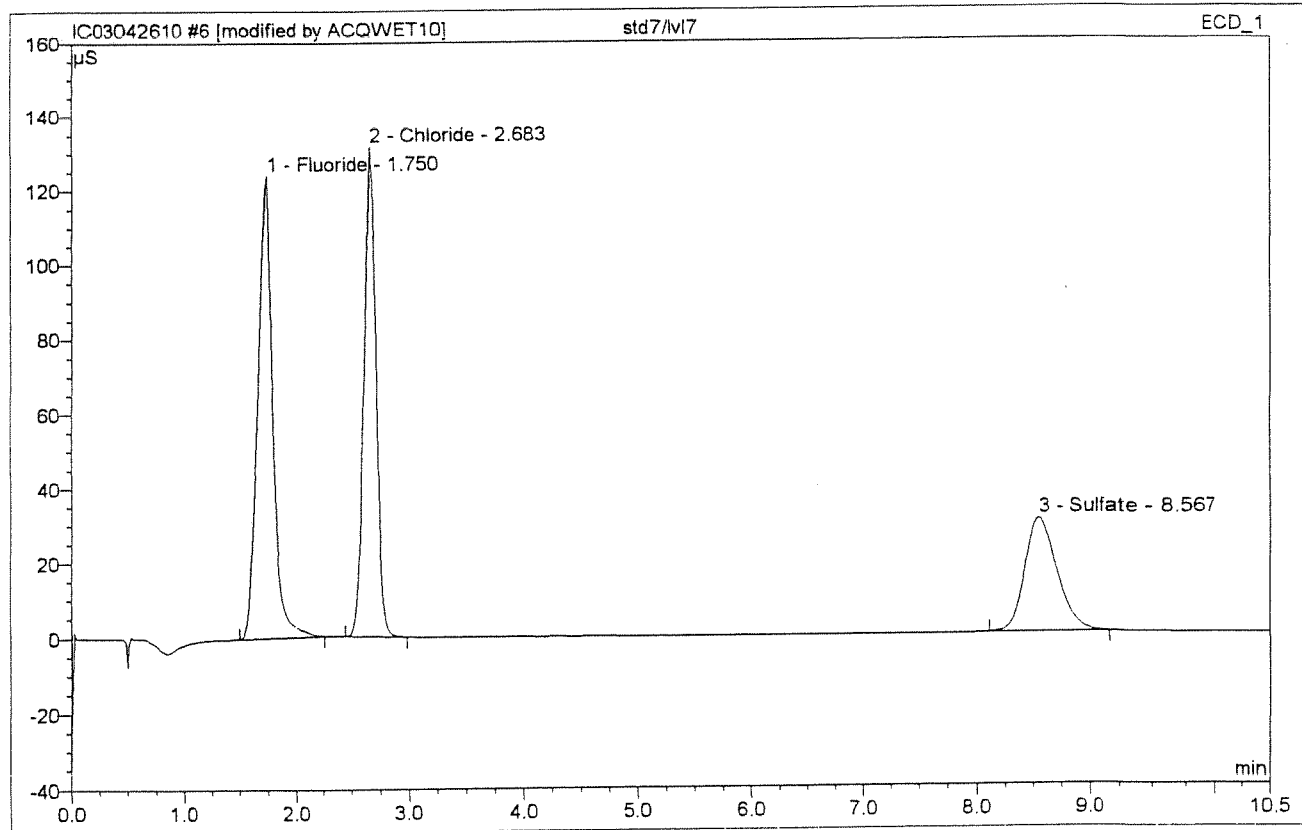
Before

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Version 6.50 SP1 Build 956

default/Integration

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	

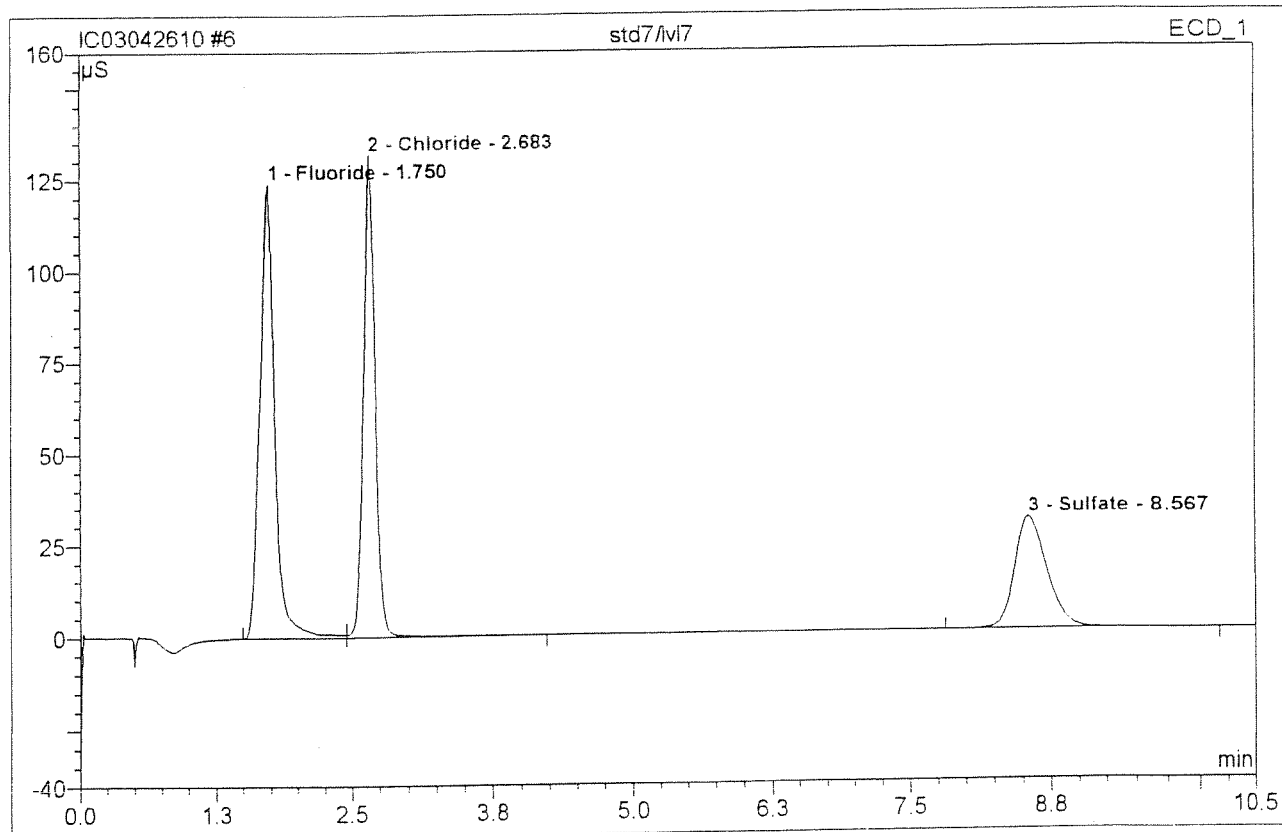
default/integration

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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 $\mu\text{S} \cdot \text{min}$	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	

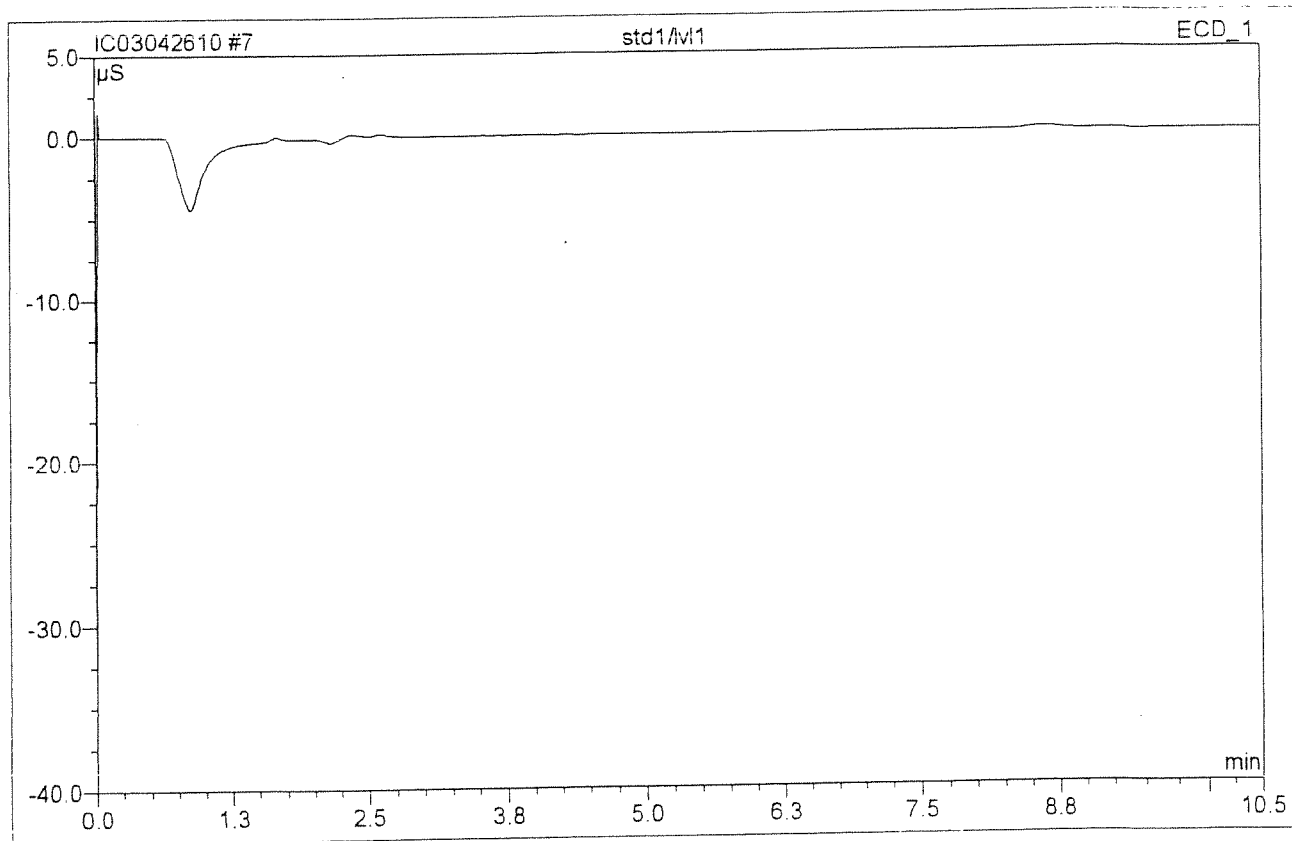
Before

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Version 6.50 SP1 Build 956

default/Integration

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

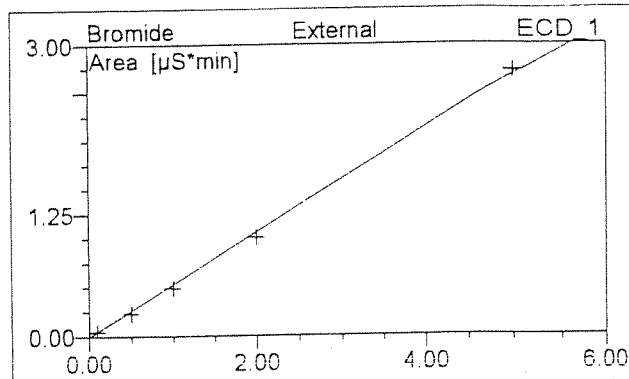
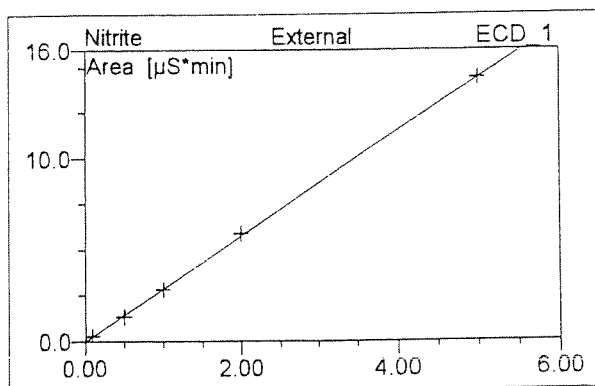
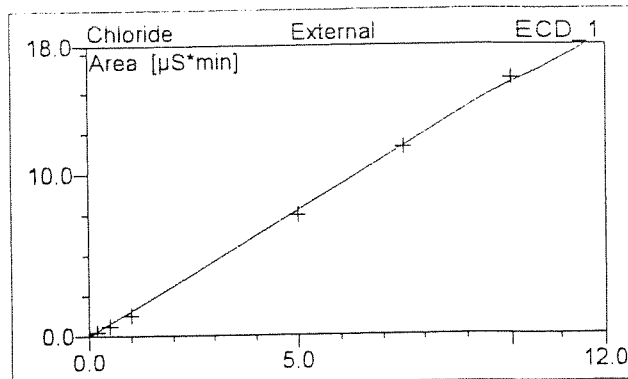
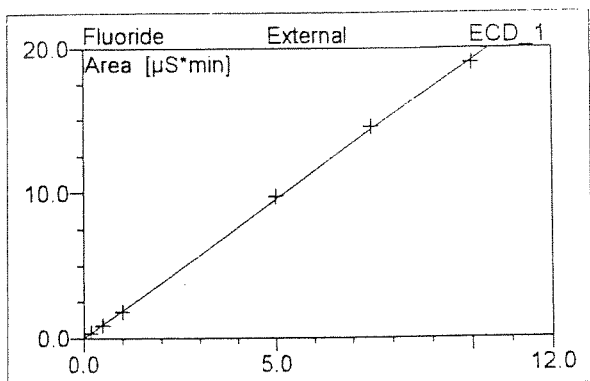


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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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



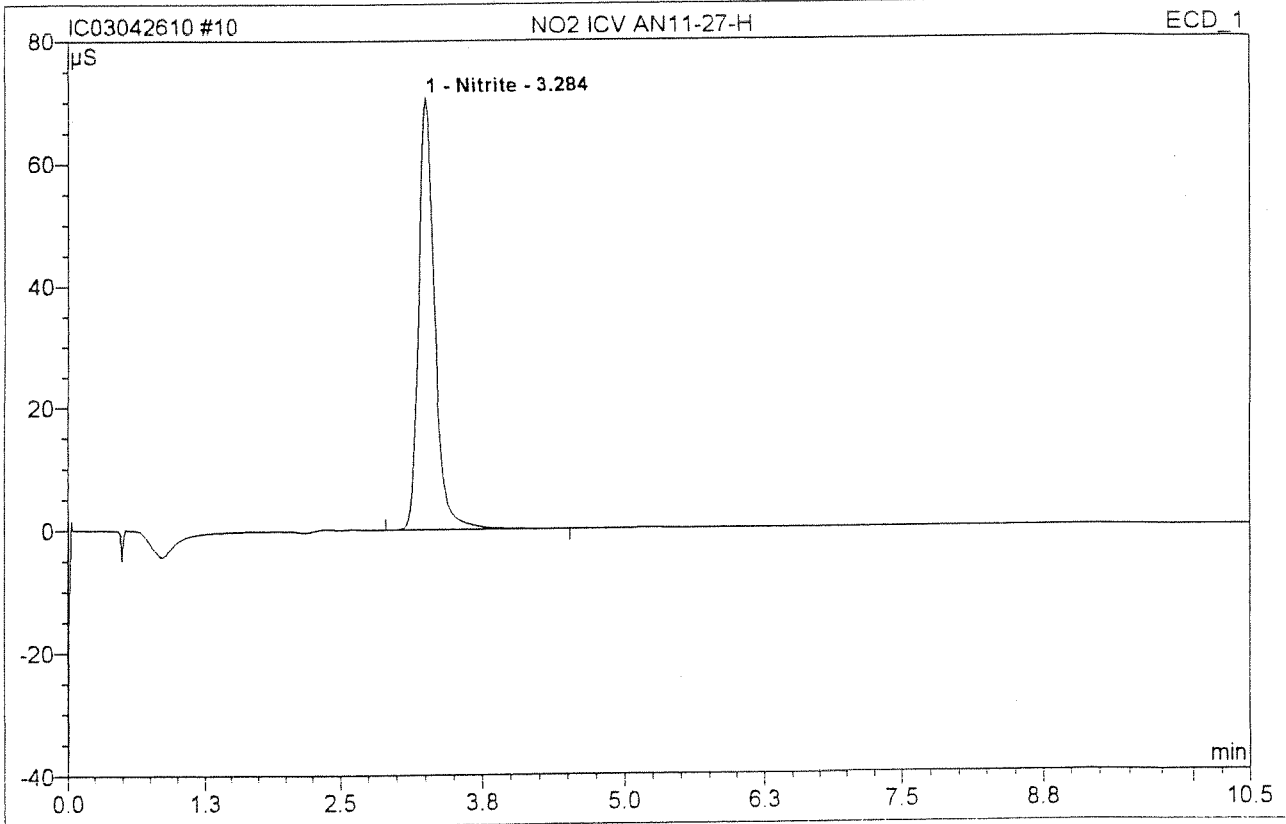
No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
Average:					n.a.	n.a.	n.a.	n.a.

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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

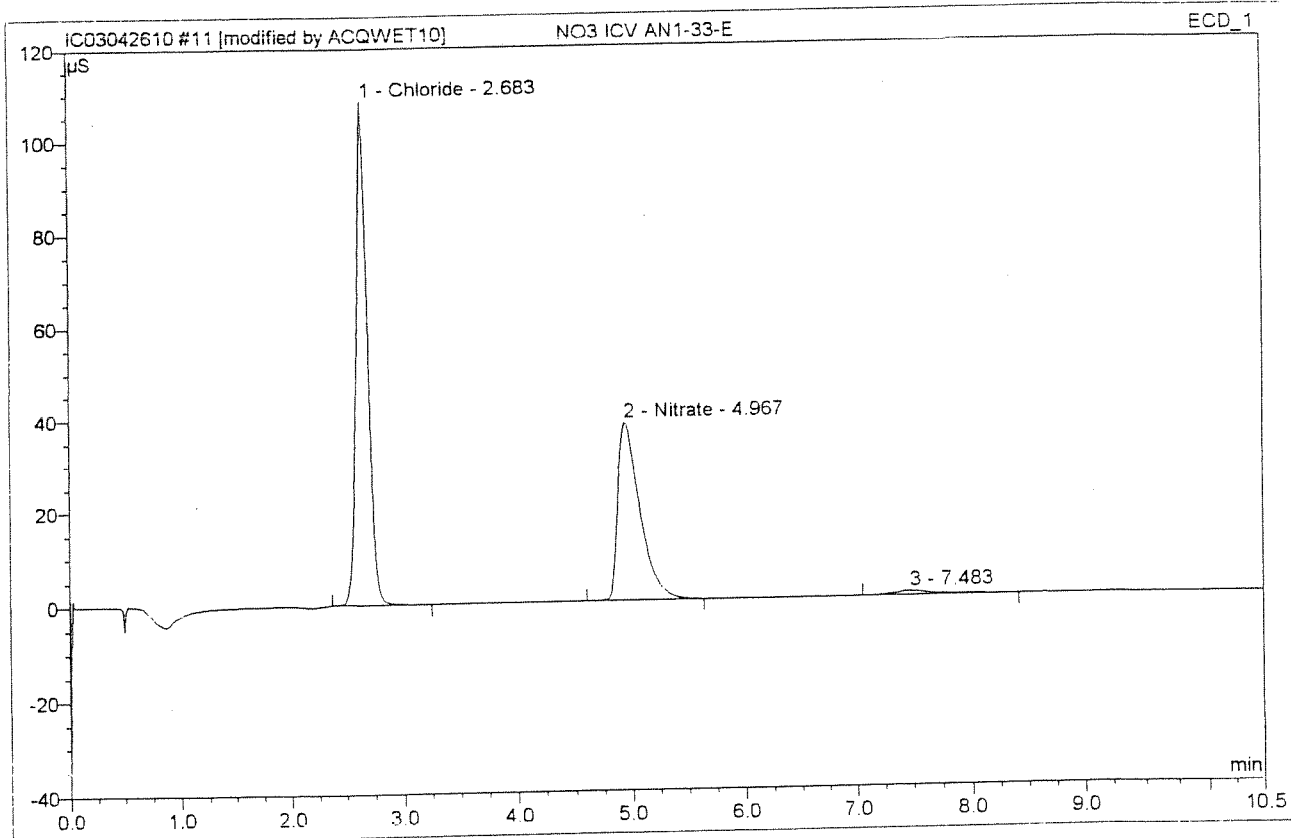


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	3.28	Nitrite	70.856	11.827	100.00	102.405	BMB
Total:			70.856	11.827	100.00	102.405	

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

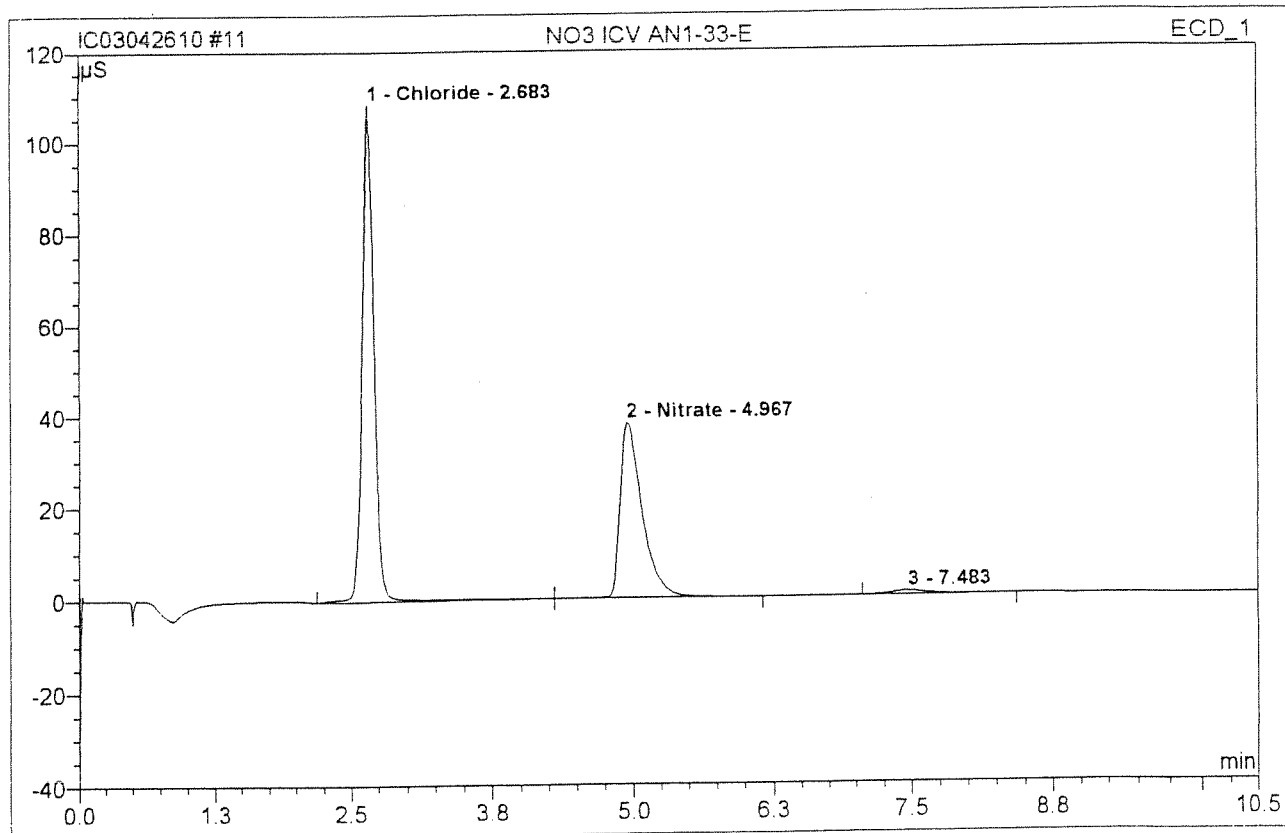


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.68	Chloride	108.172	12.864	59.17	82.484	BMB*
2	4.97	Nitrate	38.103	8.551	39.33	23.21111072	BMB*
3	7.48	n.a.	0.823	0.326	1.50	n.a.	BMB
Total:			147.098	21.741	100.00	105.695	

MS

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

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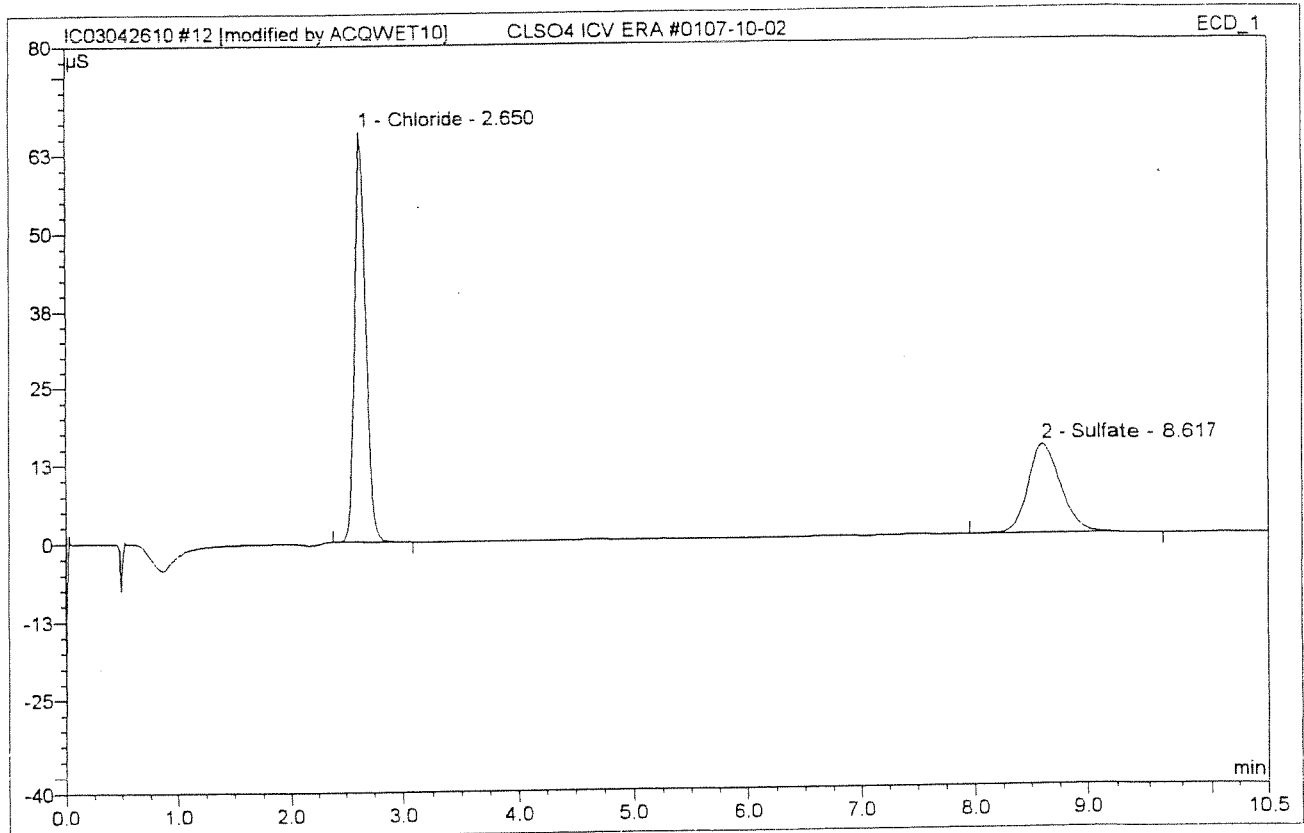
Chromeleon (c) Dionex 1996-2001
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default/Integration

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



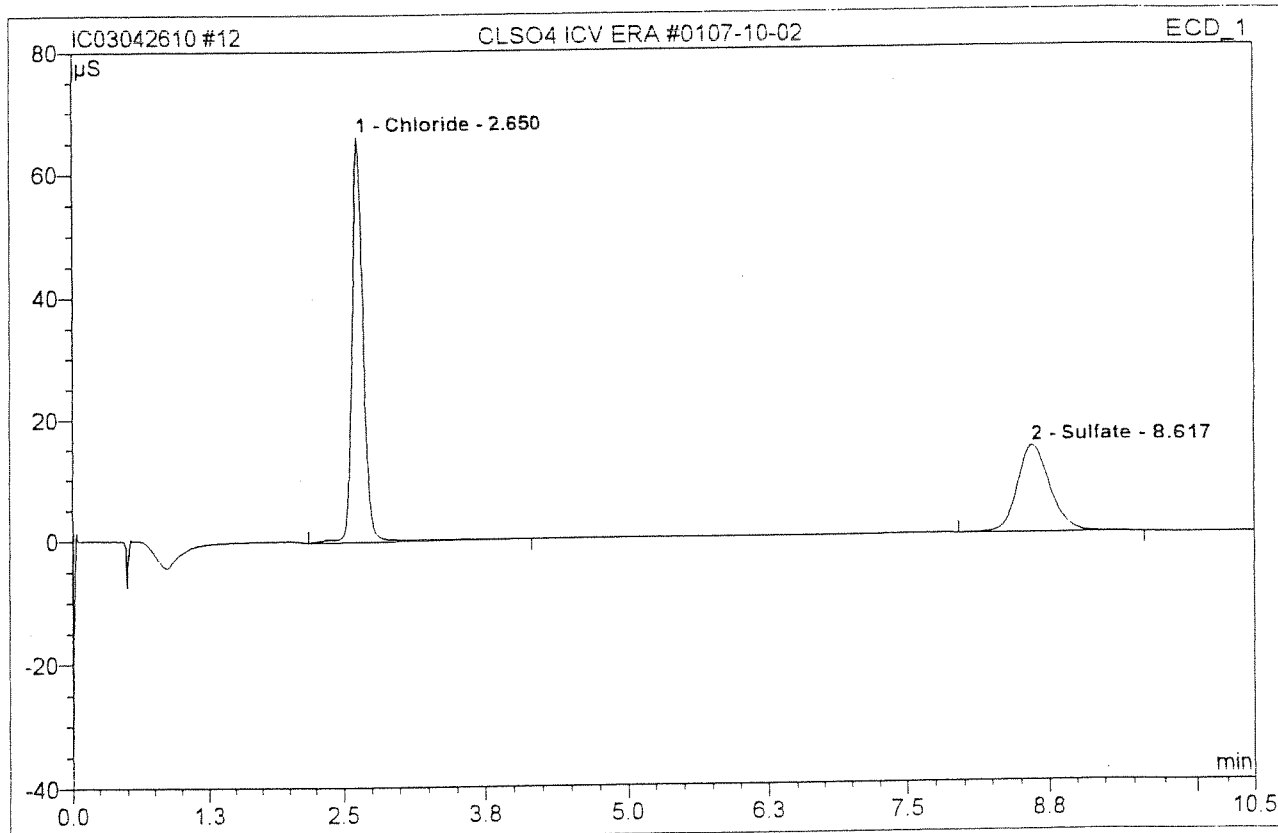
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.65	Chloride	65.962	7.498	61.00	4.808762	BMB*
2	8.62	Sulfate	14.257	4.794	39.00	4.871972	BMB
Total:			80.219	12.292	100.00	9.679	

default/Integration

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 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	

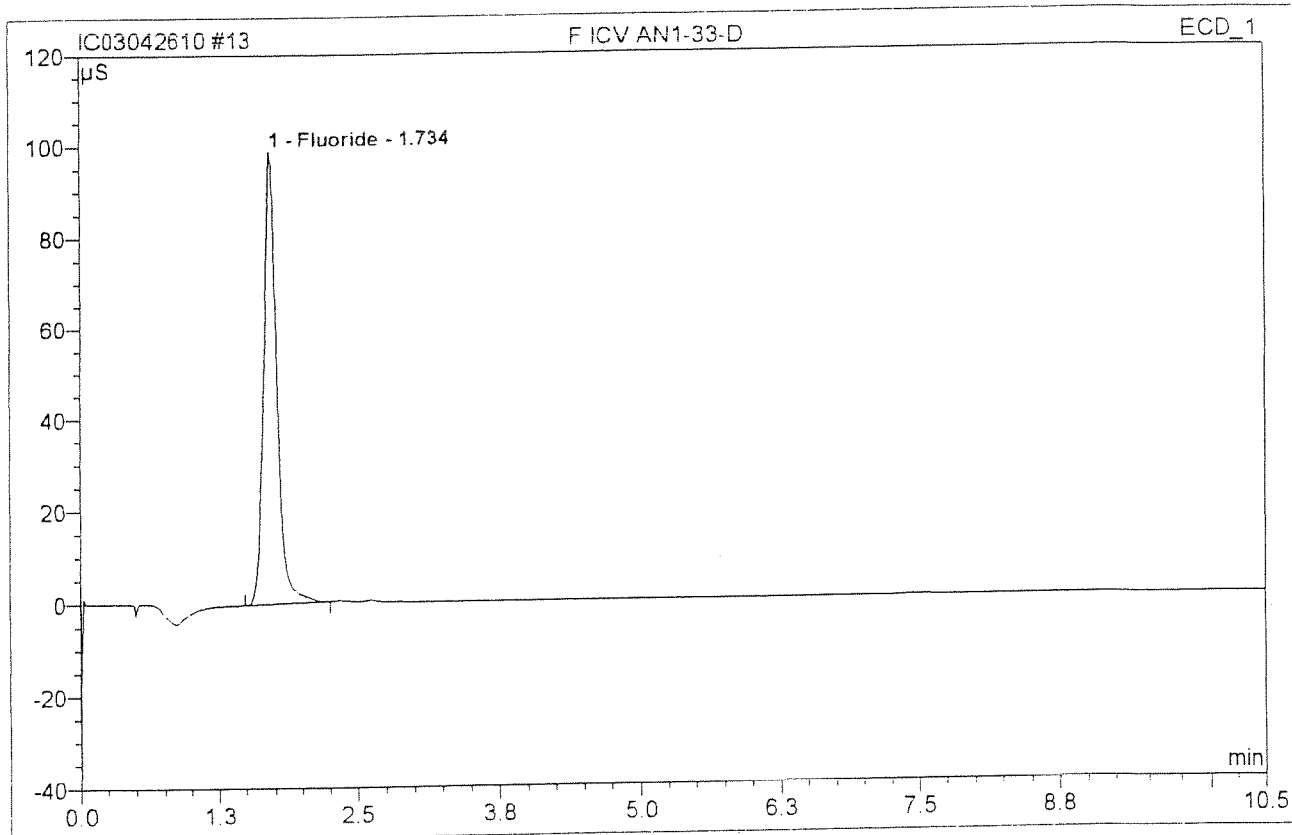
Before

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13 F ICV AN1-33-D

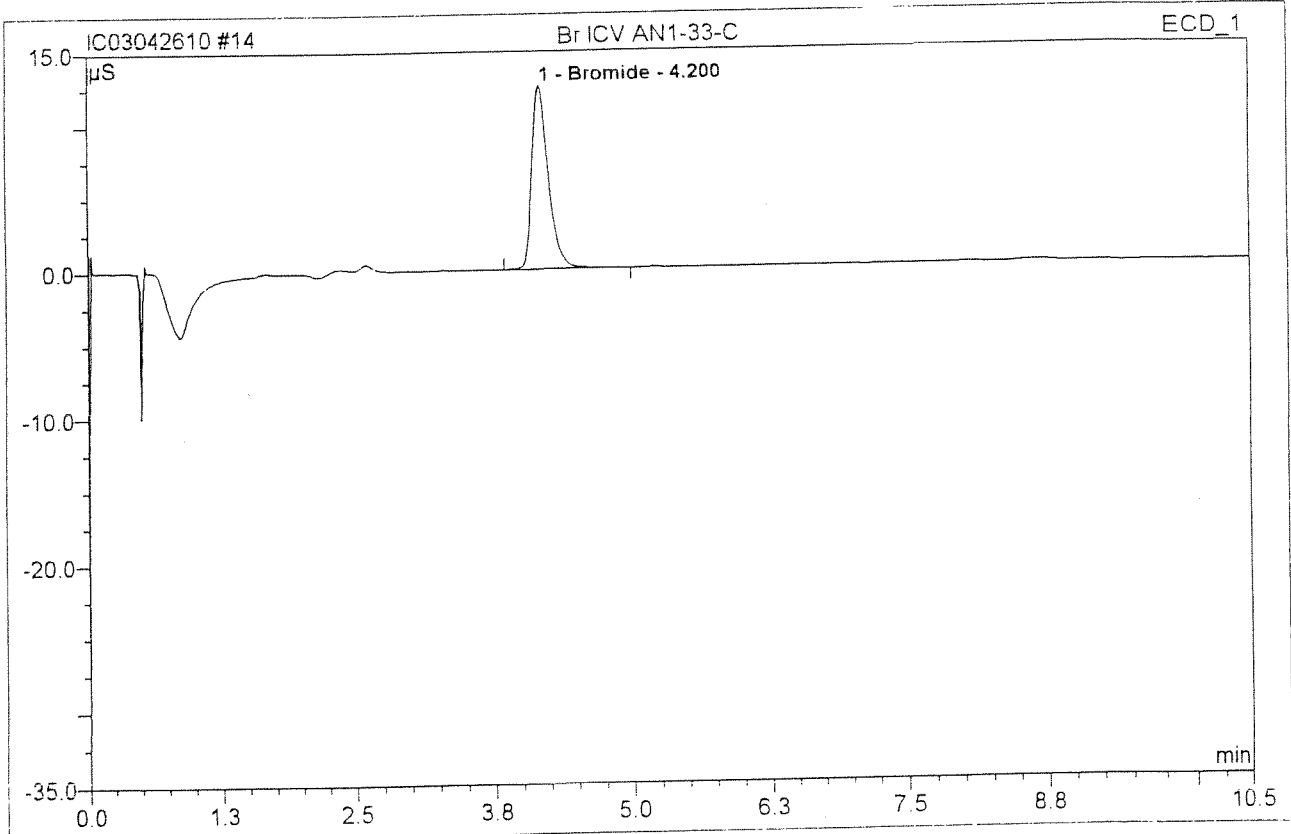
F ICV

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	13.917	BMB
Total:			98.959	13.315	100.00	13.917	

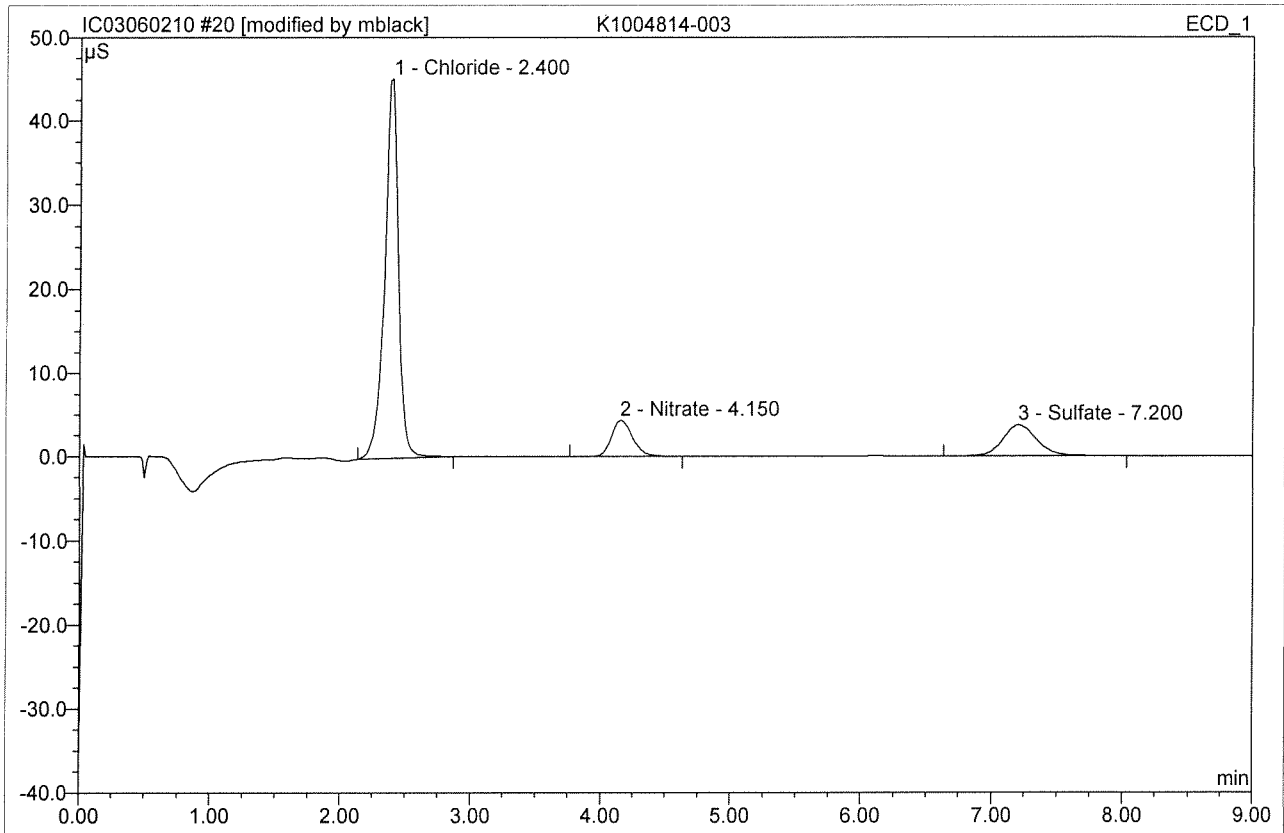
14 Br ICV AN1-33-C			
Br ICV			
Sample Name:	Br ICV AN1-33-C	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 11:56	Sample Weight:	1.0000
Run Time (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	4.12410352	BMB
Total:			12.583	2.210	100.00	4.124	

20 K1004814-003

Sample Name:	K1004814-003	Injection Volume:	200.0
Vial Number:	18	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 11:24	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	45.193	5.569	74.14	71.413	BMB*
2	4.15	Nitrate	4.318	0.821	10.93	4.455	BMB*
3	7.20	Sulfate	3.726	1.122	14.94	22.805	BMB
Total:			53.237	7.511	100.00	98.673	

After Initials MB

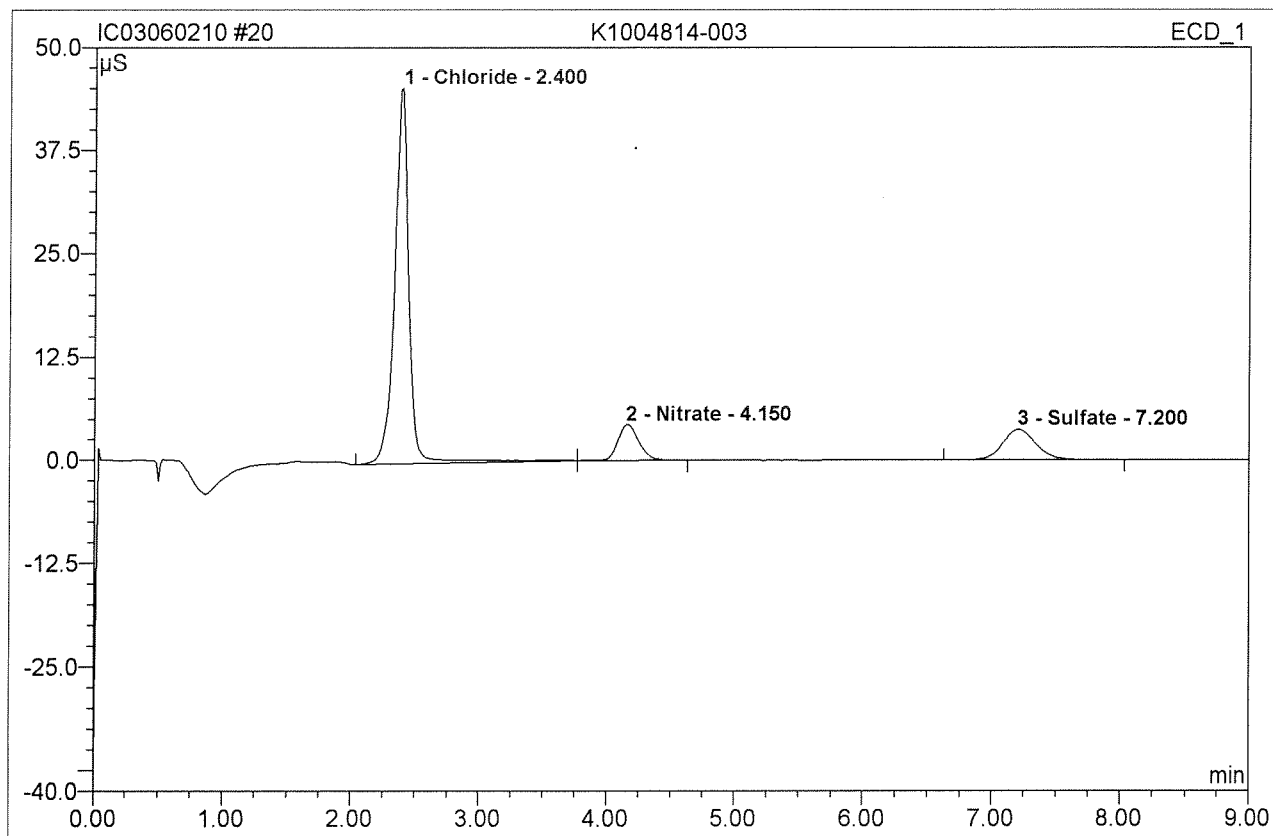
MB/4/10

JUN 02 2010

Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other _____

20 K1004814-003

Sample Name:	K1004814-003	Injection Volume:	200.0
Vial Number:	18	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 11:24	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

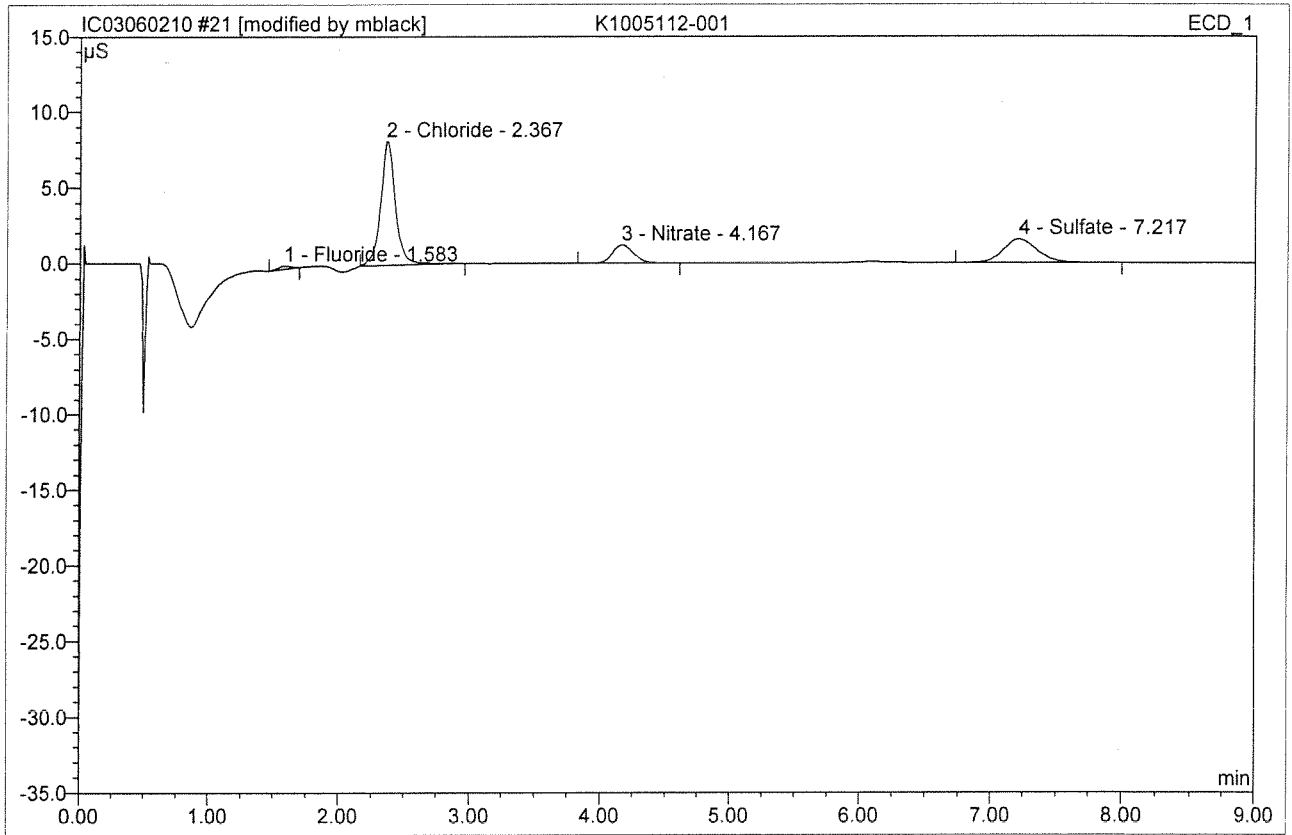


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.40	Chloride	45.452	5.906	75.25	75.741	BMB
2	4.15	Nitrate	4.318	0.821	10.46	4.455	bMB
3	7.20	Sulfate	3.726	1.122	14.30	22.805	BMB
Total:			53.496	7.849	100.00	103.002	

Before

JUN 02 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 $\bar{r} = 0.20$ $RP = 20\%$	0.211	0.022	1.21	0.023	BMB*
2	2.37	Chloride $\bar{r} = 1.38$ $RP = 3\%$	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 $\bar{r} = 0.96$ $RP = 2\%$	1.579	0.475	26.15	0.965	BMB
Total:			11.195	1.817	100.00	2.510	

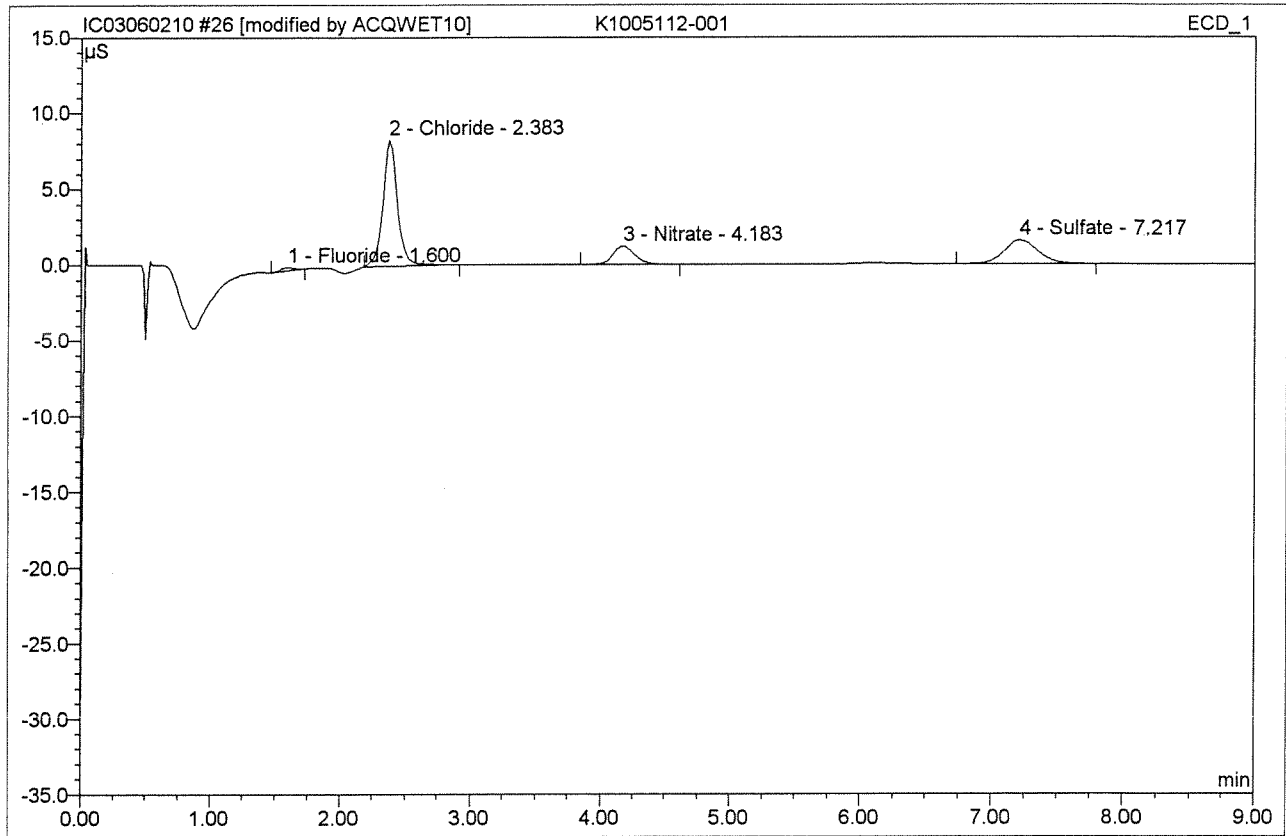
After Initials

MB

6/4/10

JUN 02 2010

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 20.20	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

6/4/10

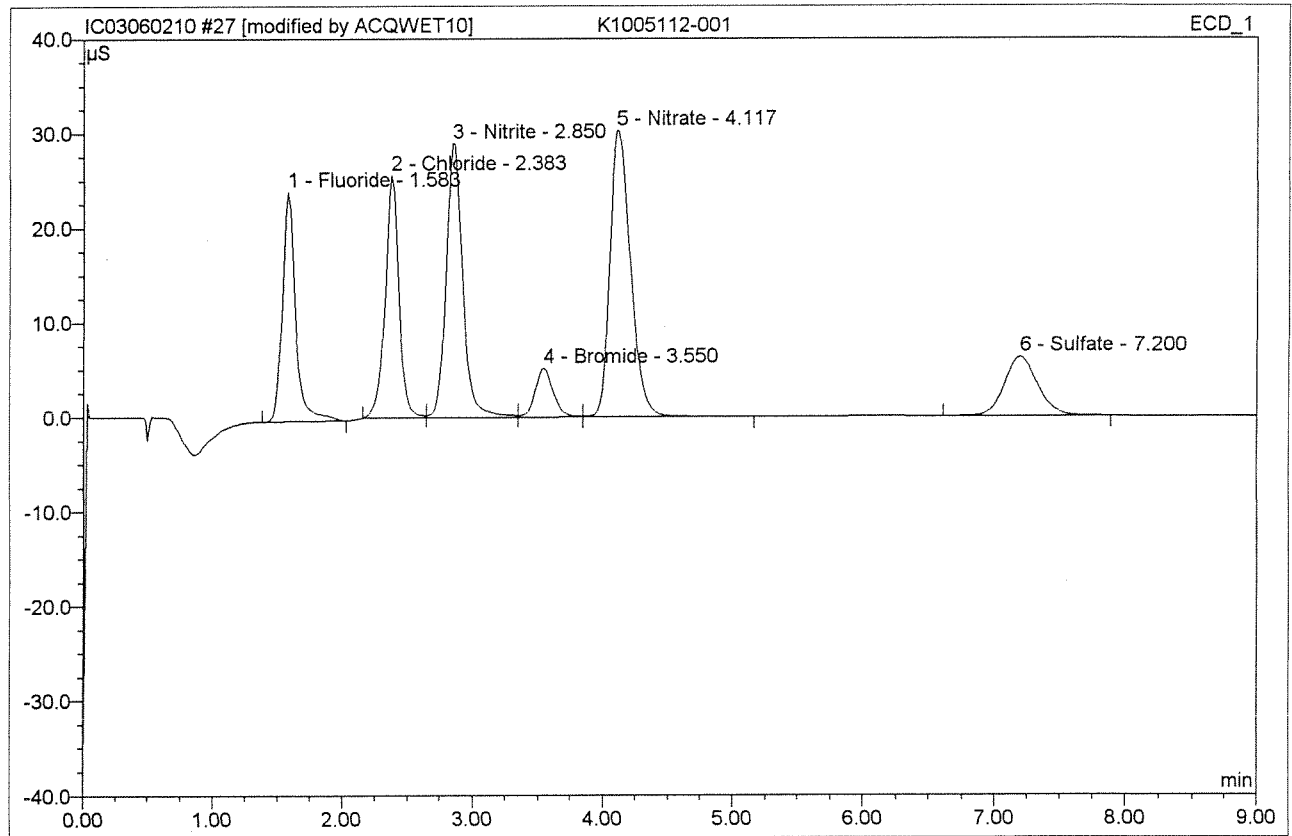
JUN 02 2010

default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other

Chromleon (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 ¹⁰¹²	BMB*
2	2.38	Chloride	25.577	3.129	16.88	4.013 ⁸⁷²	BM *
3	2.85	Nitrite	28.915	4.288	23.13	2.970 ⁹⁹²	M *
4	3.55	Bromide	5.149	0.834	4.50	3.114 ¹⁰⁴²	M *
5	4.12	Nitrate	30.271	5.556	29.97	3.016 ⁹⁶²	MB*
6	7.20	Sulfate	6.253	1.842	9.94	3.743 ⁹²²	BMB
Total:			120.384	18.538	100.00	19.876	

TV = 3.02

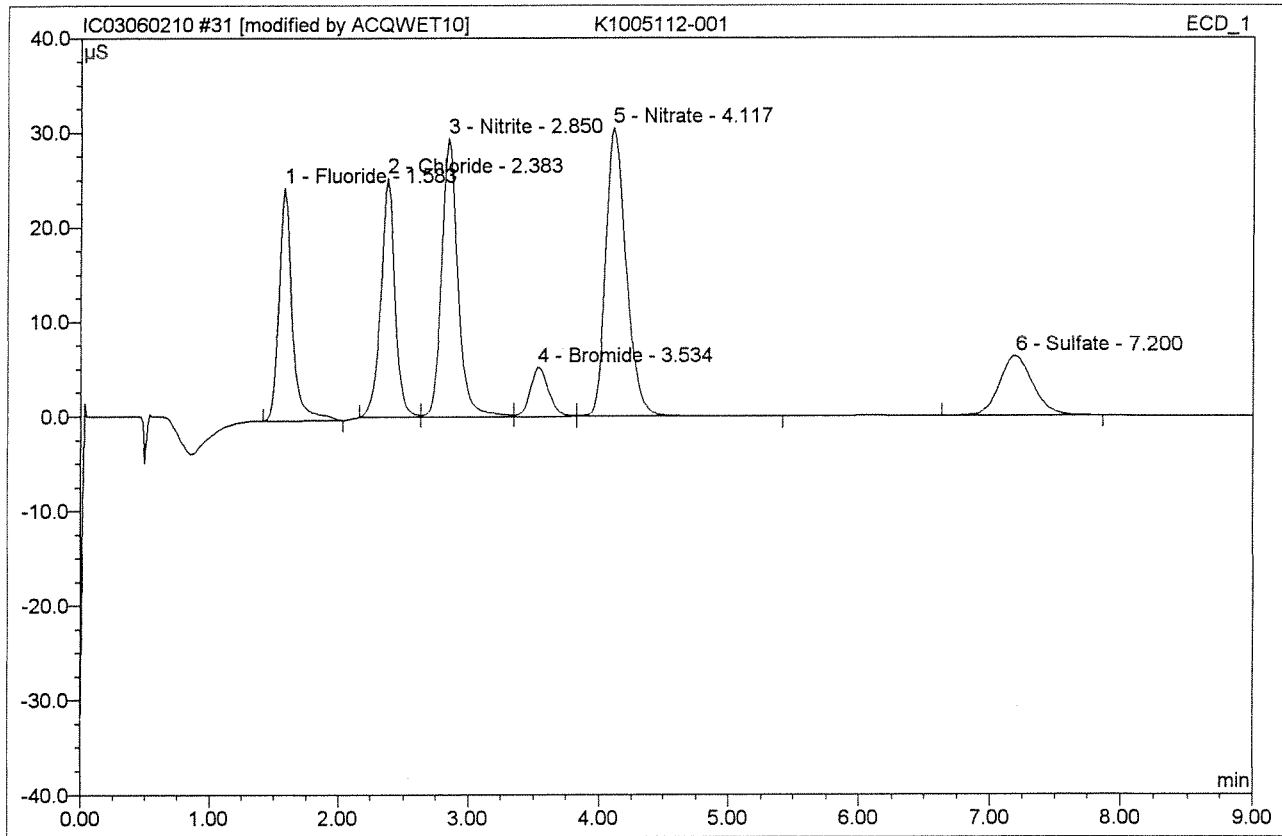
After Initials

MS

JUN 02 2010

ML 6/4/10

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 μ S	Area μ S*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	24.617	2.935	15.76	3.0671622	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=300

After Initials

MB

JUN 02 2010

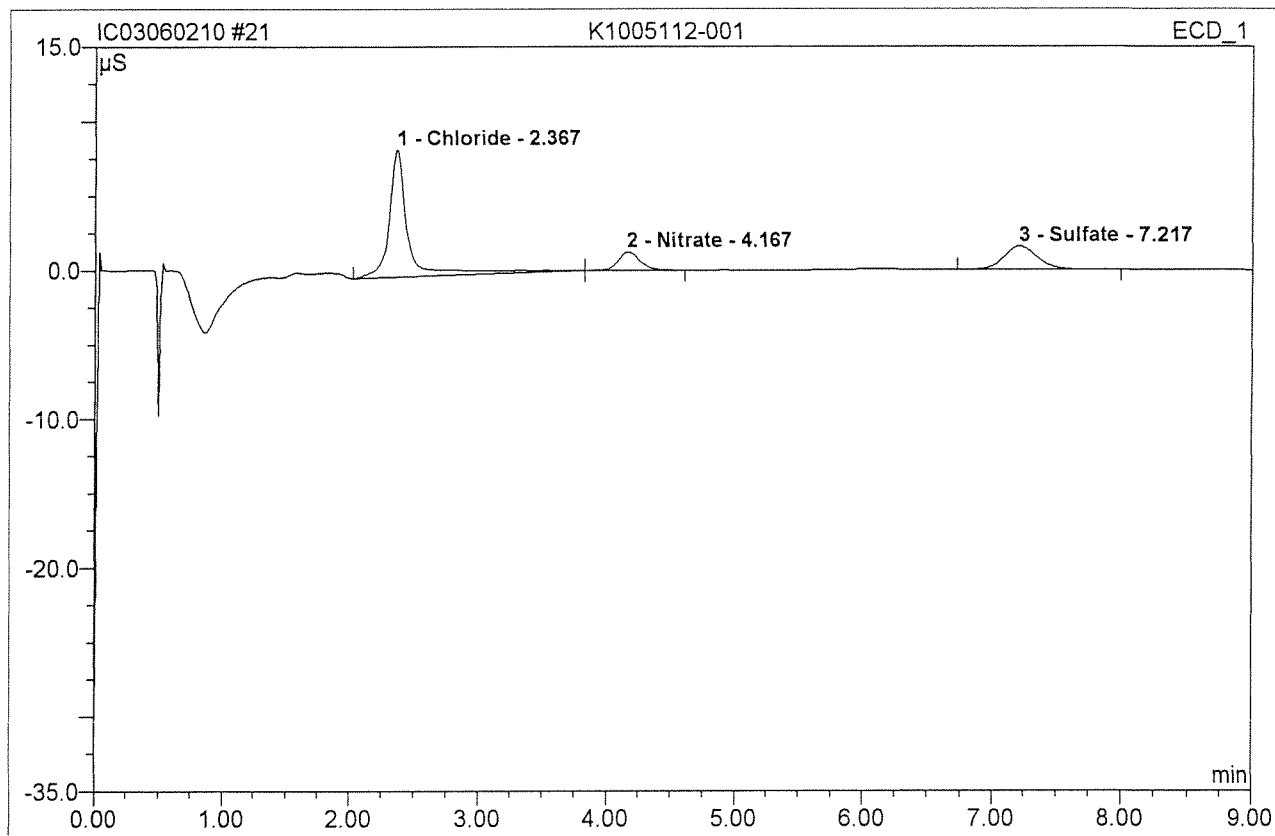
6/4/10

default/Integration

Wrong Peak/Peak not found
 Baseline/shoulder interference
 Other

173

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



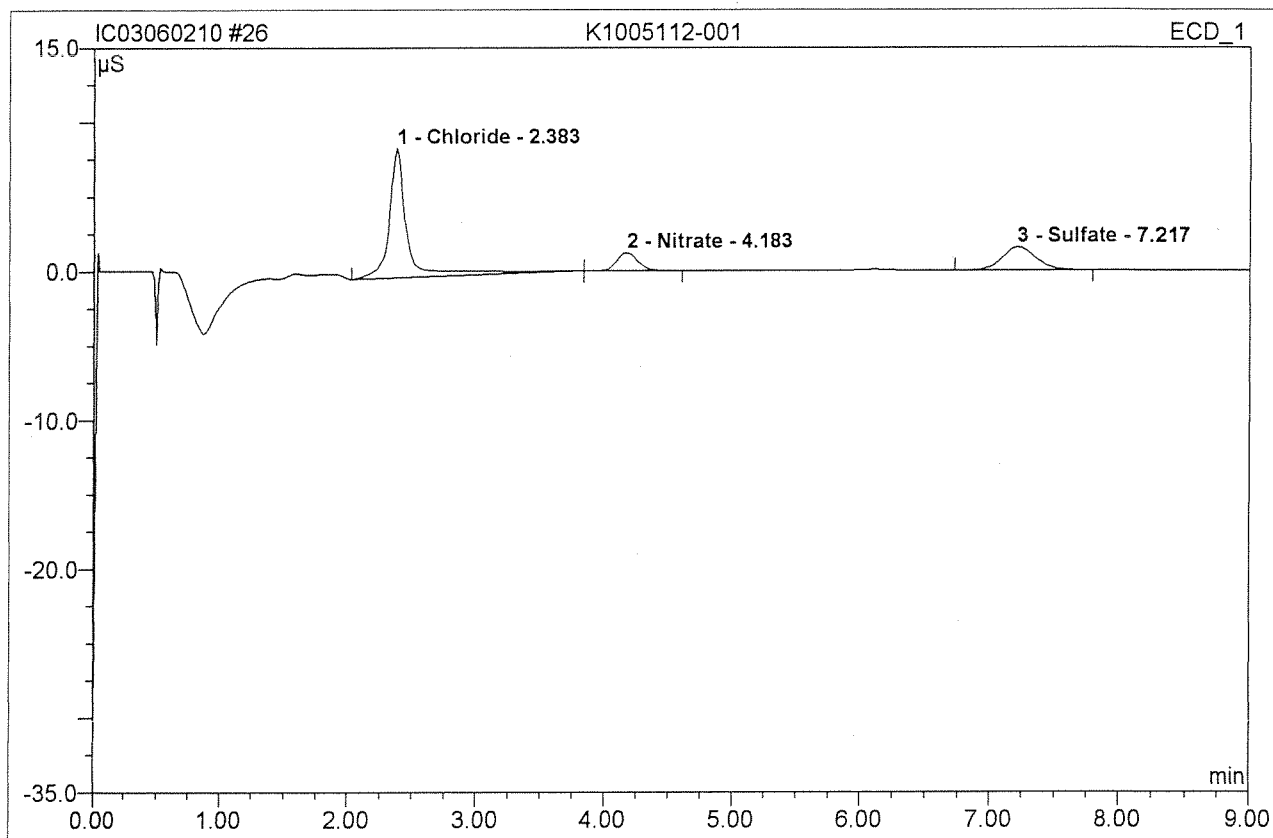
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.37	Chloride	8.510	1.462	67.47	1.875	BMB
2	4.17	Nitrate	1.217	0.230	10.61	0.125	bMB
3	7.22	Sulfate	1.579	0.475	21.92	0.965	BMB
Total:			11.306	2.167	100.00	2.965	

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 $\mu\text{S}\cdot\text{min}$	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	

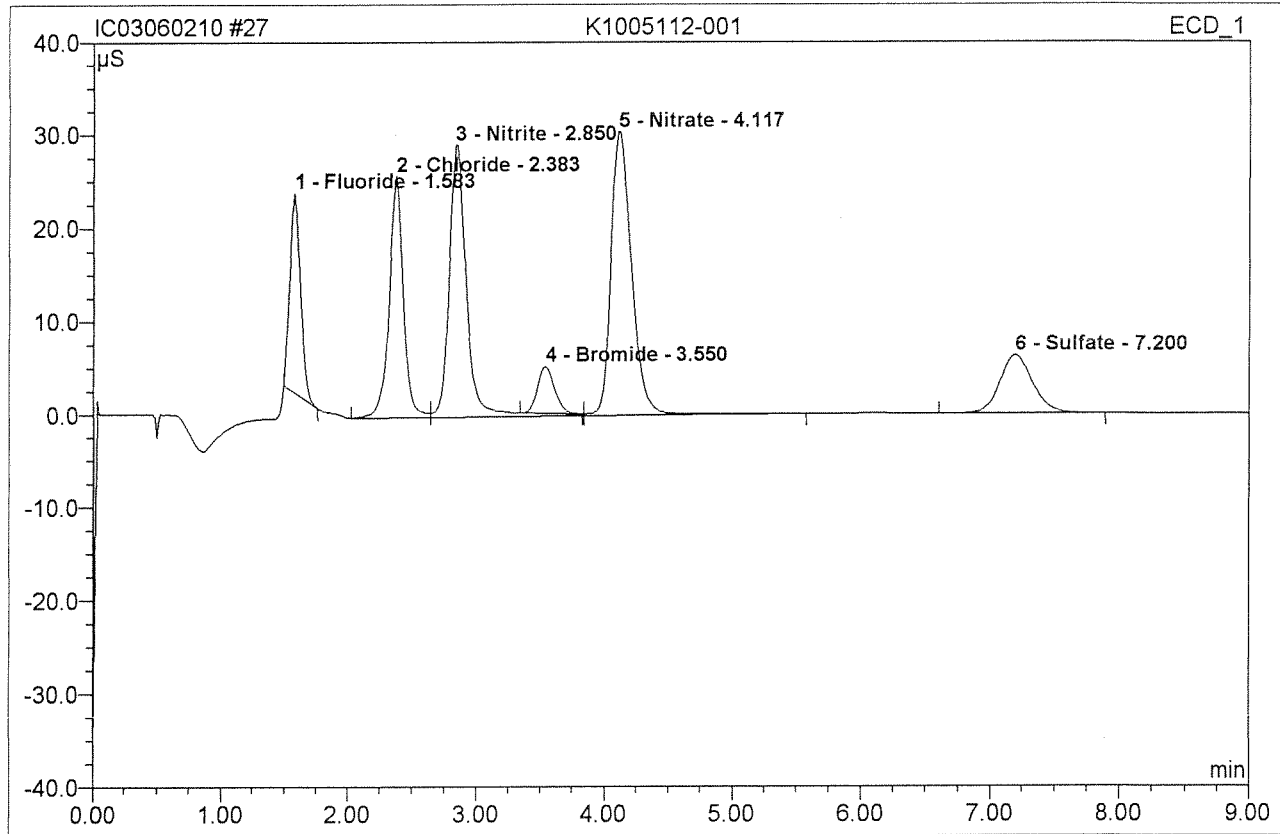
Before

JUN 02 2010

27 K1005112-001**5112-1MS**

Sample Name: K1005112-001
 Vial Number: 25
 Sample Type: unknown
 Control Program: epa300
 Quantif. Method: epa300
 Recording Time: 6/2/2010 12:44
 Run Time (min): 9.00

Injection Volume: 200.0
 Channel: ECD_1
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 2.0000
 Sample Weight: 1.0000
 Sample Amount: 1.0000



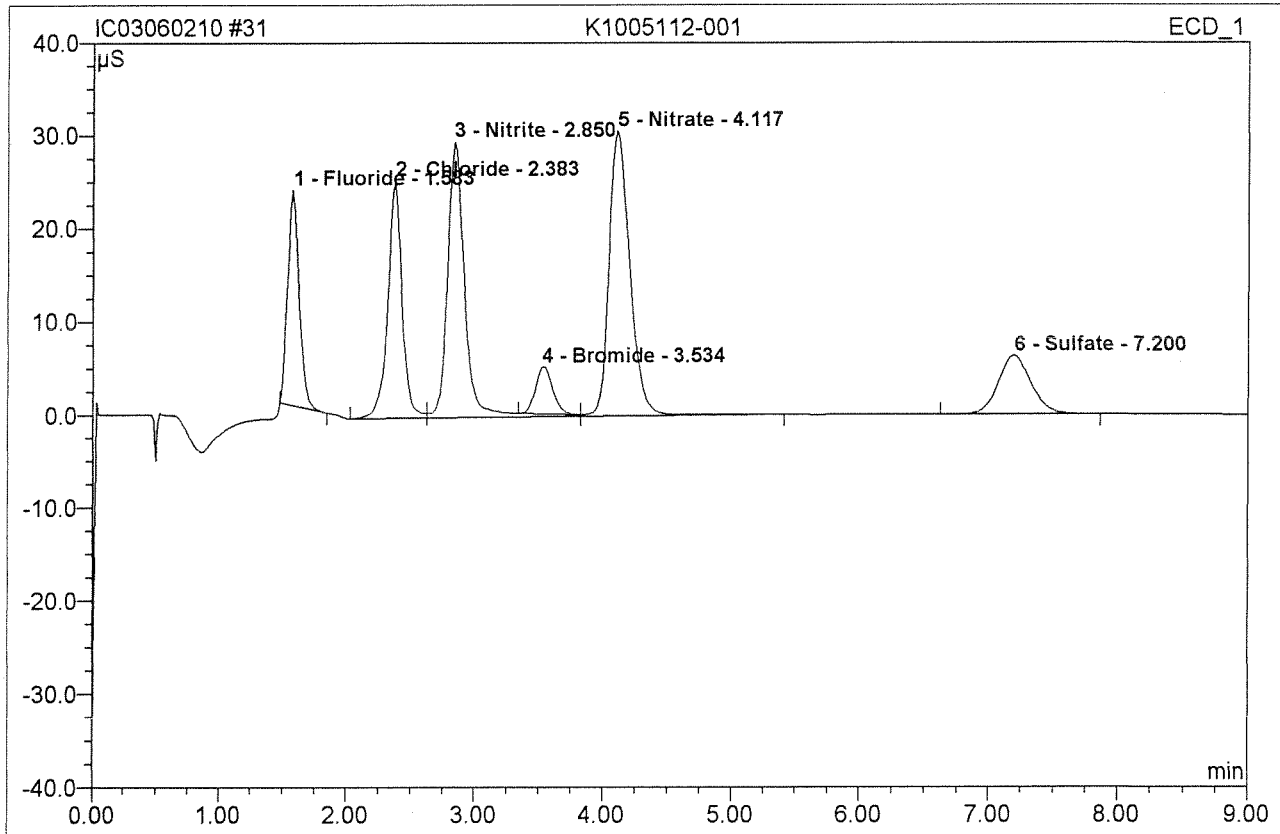
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.58	Fluoride	21.414	2.066	11.30	2.160	BMB
2	2.38	Chloride	25.876	3.288	17.98	4.216	BM
3	2.85	Nitrite	29.172	4.613	25.22	3.195	M
4	3.55	Bromide	5.016	0.773	4.23	2.887	Rd
5	4.12	Nitrate	30.413	5.706	31.20	3.098	MB
6	7.20	Sulfate	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

17

Sequence # IC03060210

Ion Chromatography Data Quality Report
Inorganics

Run # 203208

- 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>AN11-25-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: MB Date: 6/2/10

First Review: MB Date: 6/2/10

Final Review: ga Date: 6/4/10

t:\wet\ic\cdqs.xls

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K4814-3	III				F				
Exponent					CL		0.25/5		✓
					NO2				
					Br				
					NO3				
					SO4				
K5600-1	I		6/3	6/13	F				
Dale McGhee					CL				
					NO2				
					Br				
					NO3	2.5/5			✓
					SO4				
K5112-1	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				✓
K4870-1	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	179	1/5		✓

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K4870-4	III			6/5	F	2.5/5			✓
<div style="border: 1px solid black; padding: 5px; border-radius: 50%; display: inline-block;">NO2</div>					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4				
-5					F	2.5/5			✓
					CL	}	0.1/5.		✓
					NO2				
					Br				
					NO3				
					SO4			0.5/5.	
K4348-1					F	2.5/5			✓
<div style="border: 1px solid black; border-radius: 50%; display: inline-block; padding: 2px;">2.5/5</div>					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4				
K4348-1					F	2.5/5			✓
P.G.E					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4				
K4934-1	III			6/6	F	2.5/5			✓
Exponent					CL	}	0.5/5.		✓
					NO2				
					Br				
					NO3				
					SO4			0.5/5.	
-2					F	2.5/5			✓
					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4			0.5/5.	
-3					F	2.5/5			✓
					CL	}	0.1/5.		✓
					NO2				
					Br				
					NO3				
					SO4			0.5/5.	
-4					F	2.5/5			✓
					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4				
-5					F	2.5/5			✓
					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4				
-6					F	2.5/5			✓
					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4				

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K4934-7	III				(F) (CL)	2.5/5			✓
					NO2 Br NO3 SO4				
					(F) (CL)	5/5			✓
					NO2 Br NO3 SO4				✓
K5641-2	I		6/4	6/19	F (CL)	2.5/5			✓
SEH					NO2 Br NO3 SO4				✓
K5645-1	II		6/3	6/19	F CL				
City of Ridgefield					NO2 Br (NO3) SO4	2.5/5			✓
					(F) (CL)	2.5/5			✓
					NO2 Br NO3 SO4				✓
					(F) (CL)	2.5/5			✓
					NO2 Br NO3 SO4				✓
K5648-1	II		6/3	6/13	(F) (CL)	2.5/5			✓
Clark P.U.					NO2 Br NO3 SO4				✓
					(F) (CL)	2.5/5			✓
					NO2 Br NO3 SO4				✓
K5251-2	III			6/7	F (CL)		0.5/5		✓
PSC					NO2 Br NO3 SO4				
					F (CL)		0.5/5		✓
					NO2 Br NO3 SO4				











































Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K 5214-1	I			5/28	F CL NO2 Br NO3 SO4	0.5/5			
CAL Portland (Rush)									
K 5249-1	II			6/7	F CL NO2 Br NO3 SO4	2.5/5			✓
Alcoa									
					F CL NO2 Br NO3 SO4	2.5/5			✓
K 5533-1	II			6/8	F CL NO2 Br NO3 SO4	1/5			✓
Barr									
					F CL NO2 Br NO3 SO4	1/5			✓
					F CL NO2 Br NO3 SO4	1/200			✓
					F CL NO2 Br NO3 SO4	1/5			
					F CL NO2 Br NO3 SO4	2.5/5			✗
K 4856-1					F CL NO2 Br NO3 SO4				
Confirmation only									
					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: IC03060210
Operator: mblack

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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/vl2	Standard	1	200.0	epa300	epa300	Finished	4/26/2010 8:54:58 AM
2	 std3/vl3	Standard	2	200.0	epa300	epa300	Finished	4/26/2010 9:12:26 AM
3	 std4/vl4	Standard	3	200.0	epa300	epa300	Finished	4/26/2010 9:25:24 AM
4	 std5/vl5	Standard	4	200.0	epa300	epa300	Finished	4/26/2010 9:38:21 AM
5	 std6/vl6	Standard	5	200.0	epa300	epa300	Finished	4/26/2010 9:51:19 AM
6	 std7/vl7	Standard	6	200.0	epa300	epa300	Finished	4/26/2010 10:04:17 AM
7	 std1/vl1	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

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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/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-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

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

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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

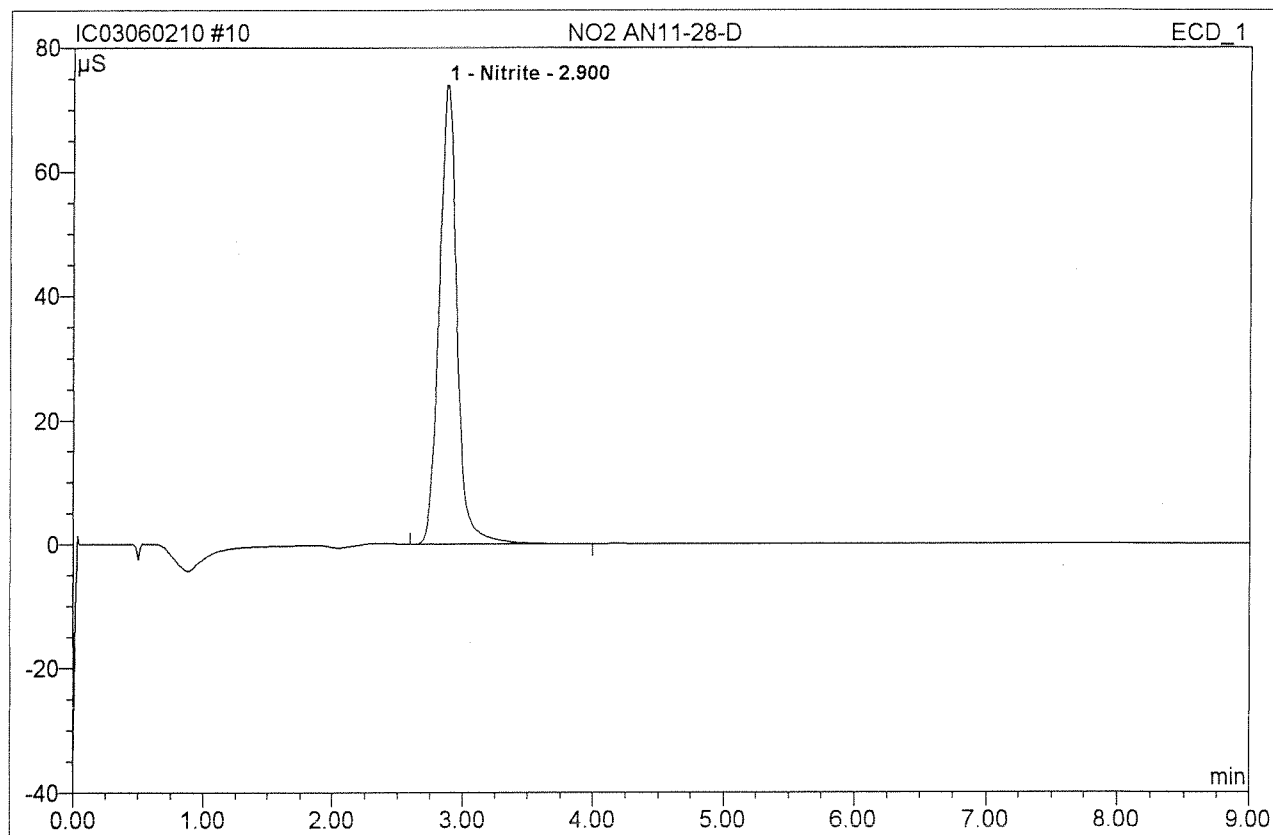
Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 90

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	

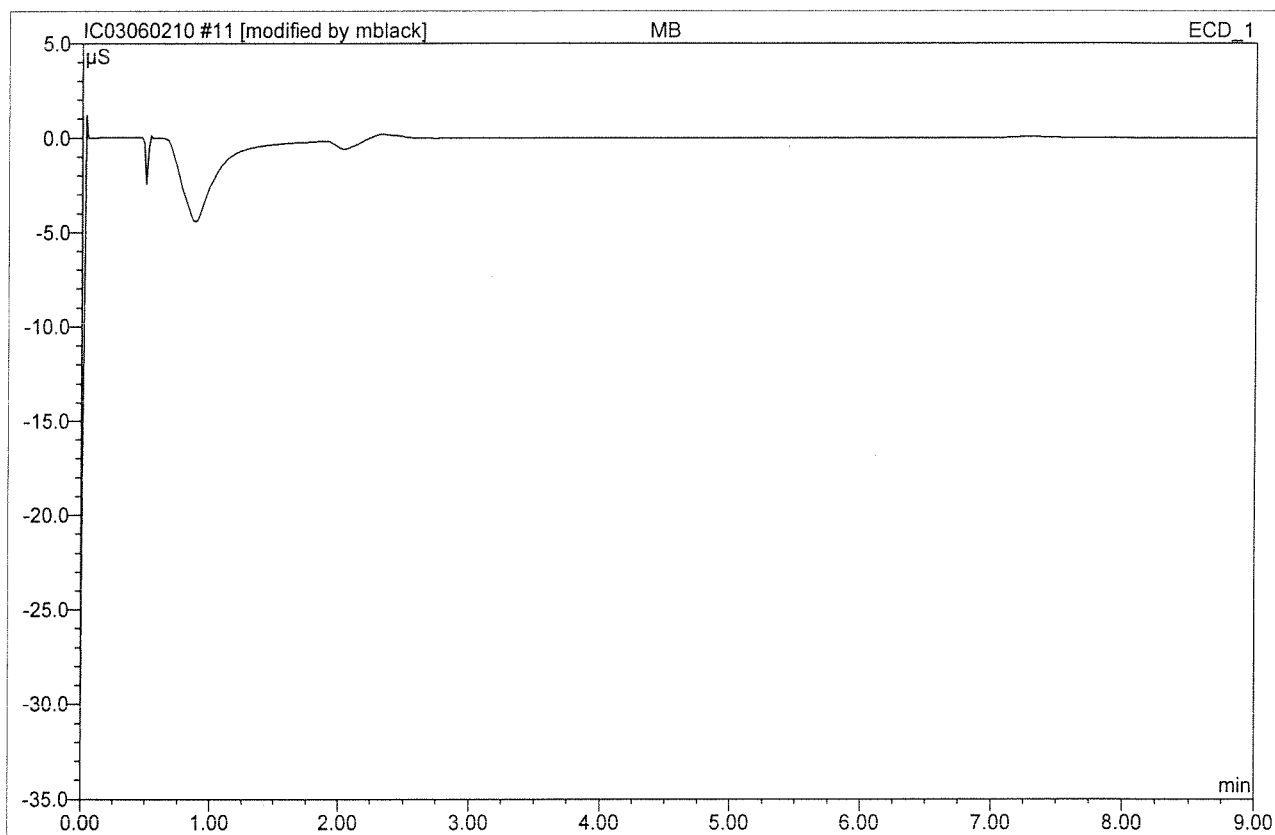
10 NO2 AN11-28-D**NO2**

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	101.834/102.90	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	

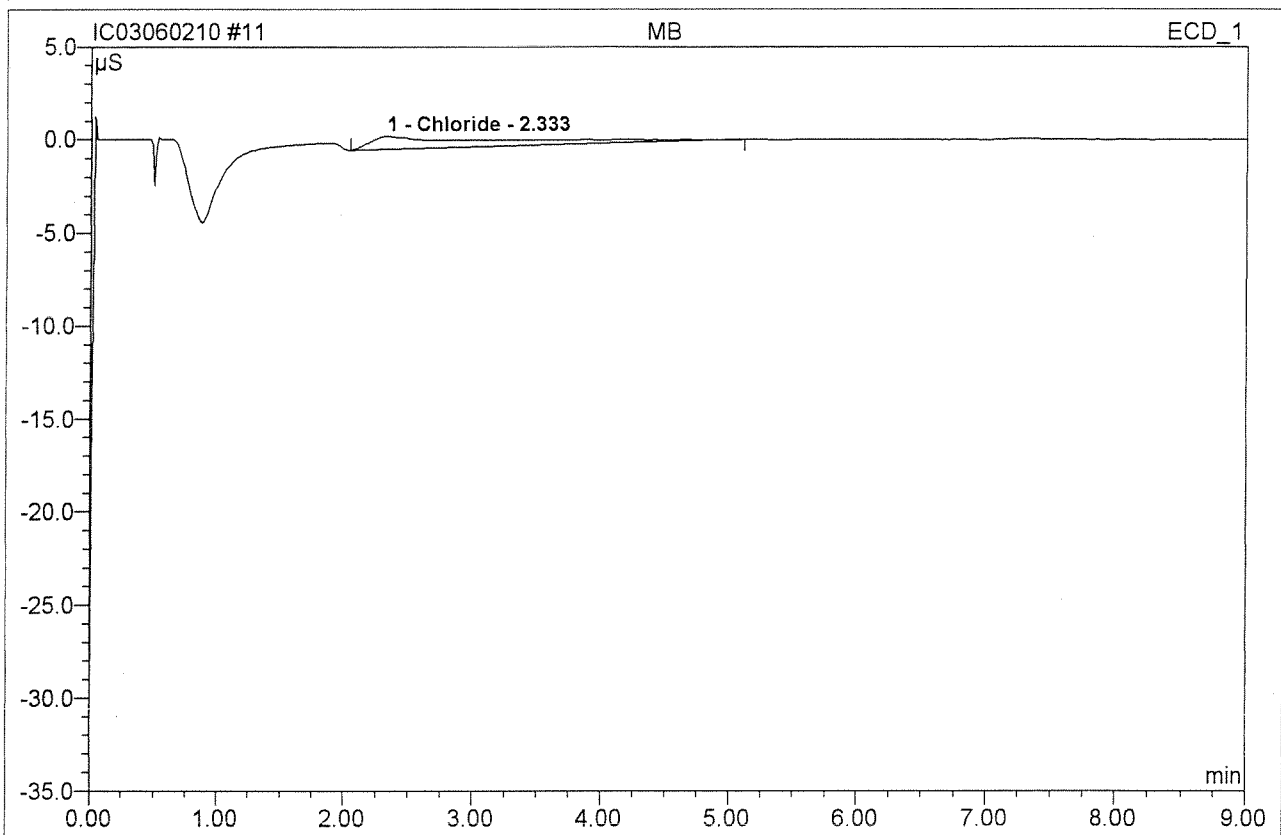
After Initials

MB

JUN 02 2010

26/4/10

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:	6/2/2010 9:14	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

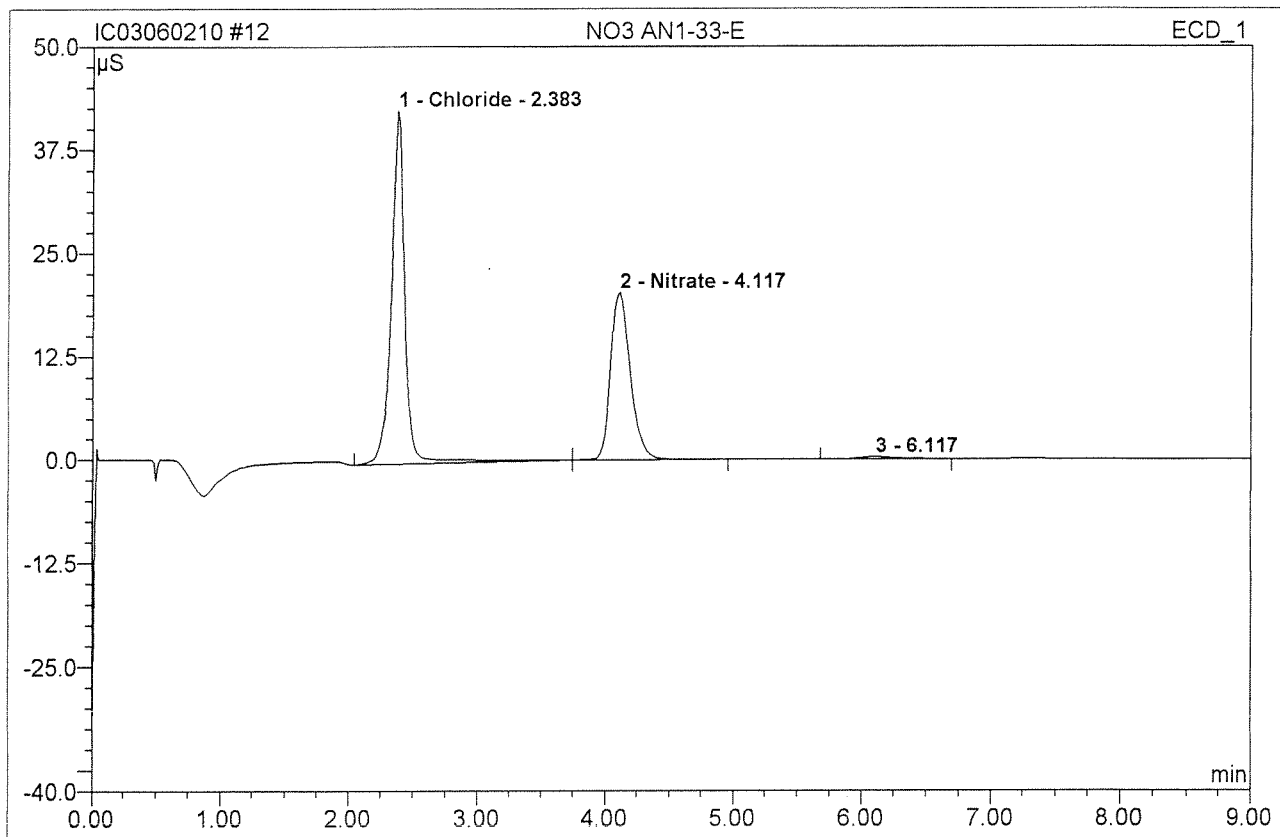


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.722	0.850	100.00	0.545	BMB
Total:			0.722	0.850	100.00	0.545	

Before

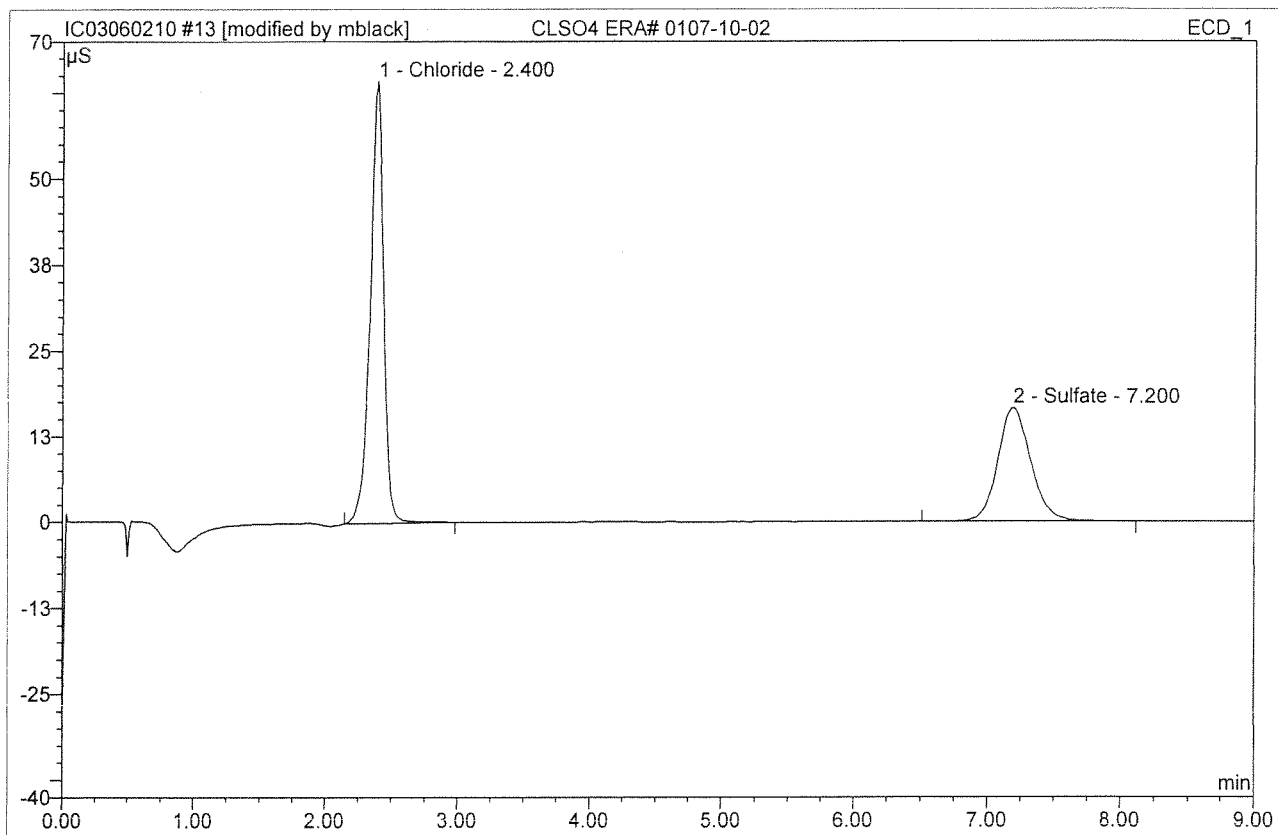
JUN 02 2010

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	4.86597%	BMB
Total:			80.952	12.349	100.00	9.714	

After Initials

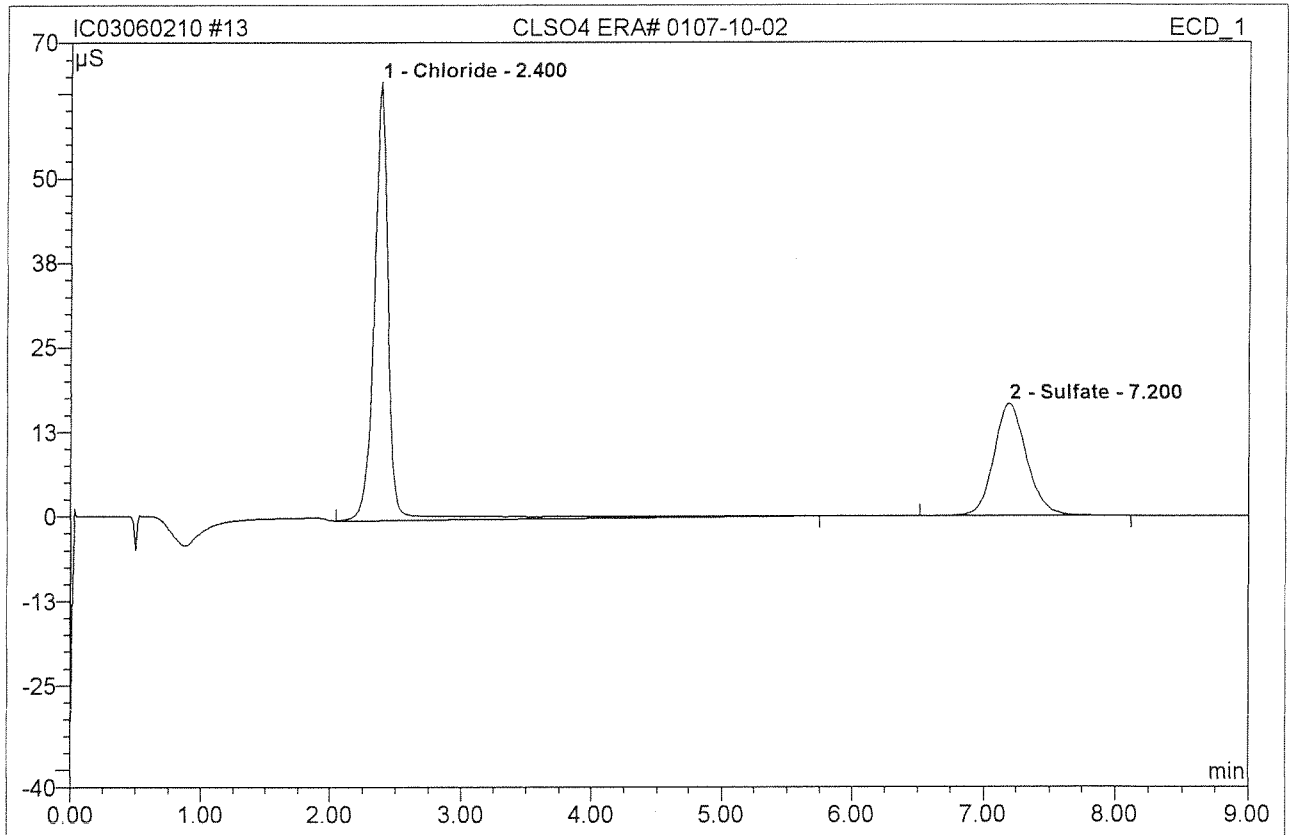
MB

6/4/10

JUN 02 2010

Wrong Peak/Peak not found
Integration not done
L/Integ

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

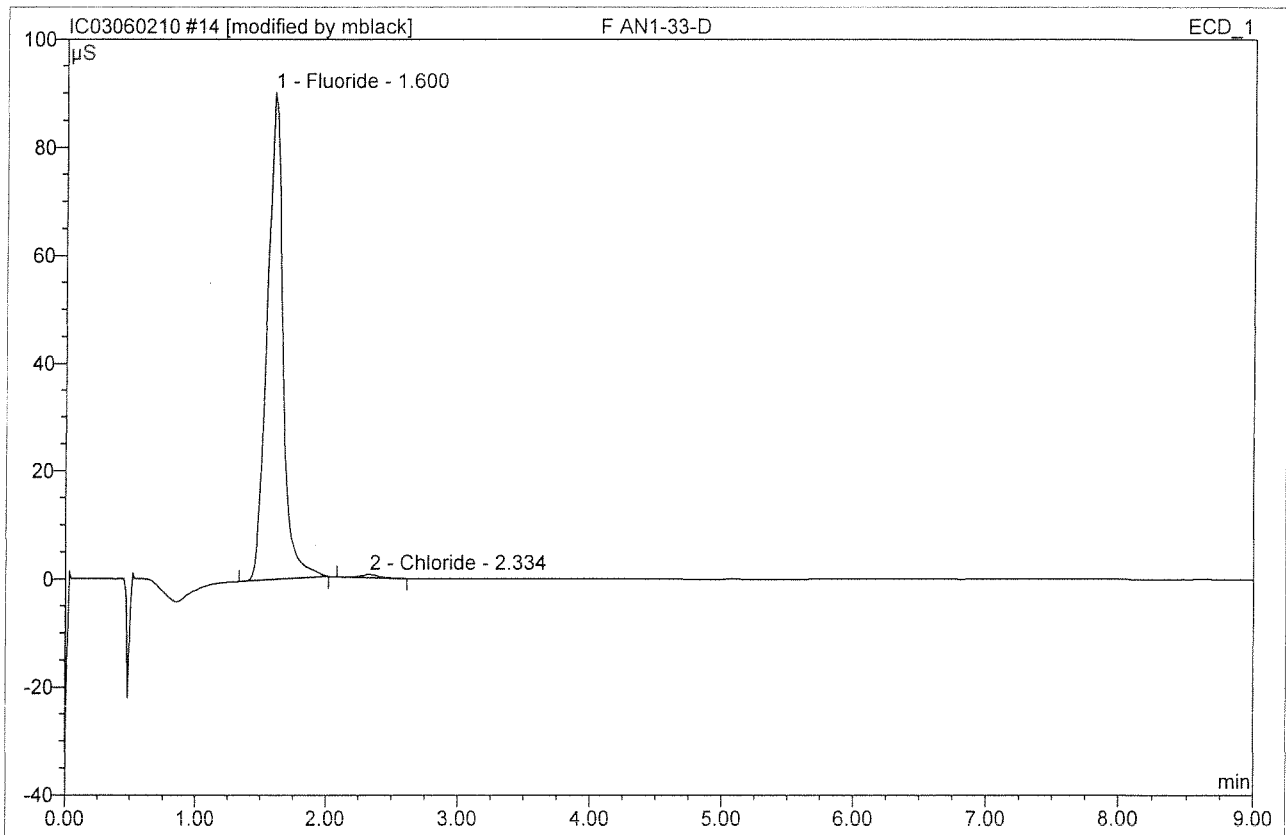


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.40	Chloride	64.746	8.467	63.88	5.429	BMB
2	7.20	Sulfate	16.556	4.788	36.12	4.865	BMB
Total:			81.303	13.255	100.00	10.295	

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

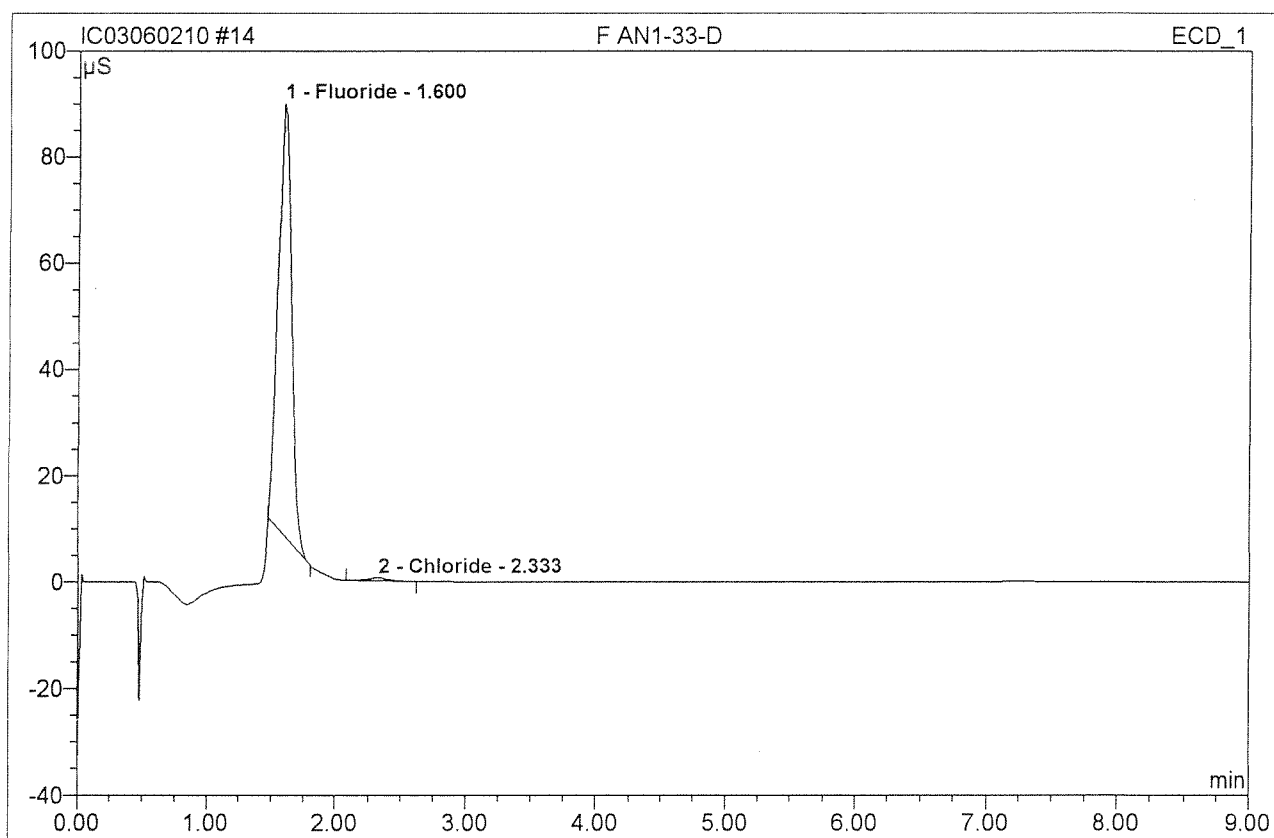
6/4/10

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

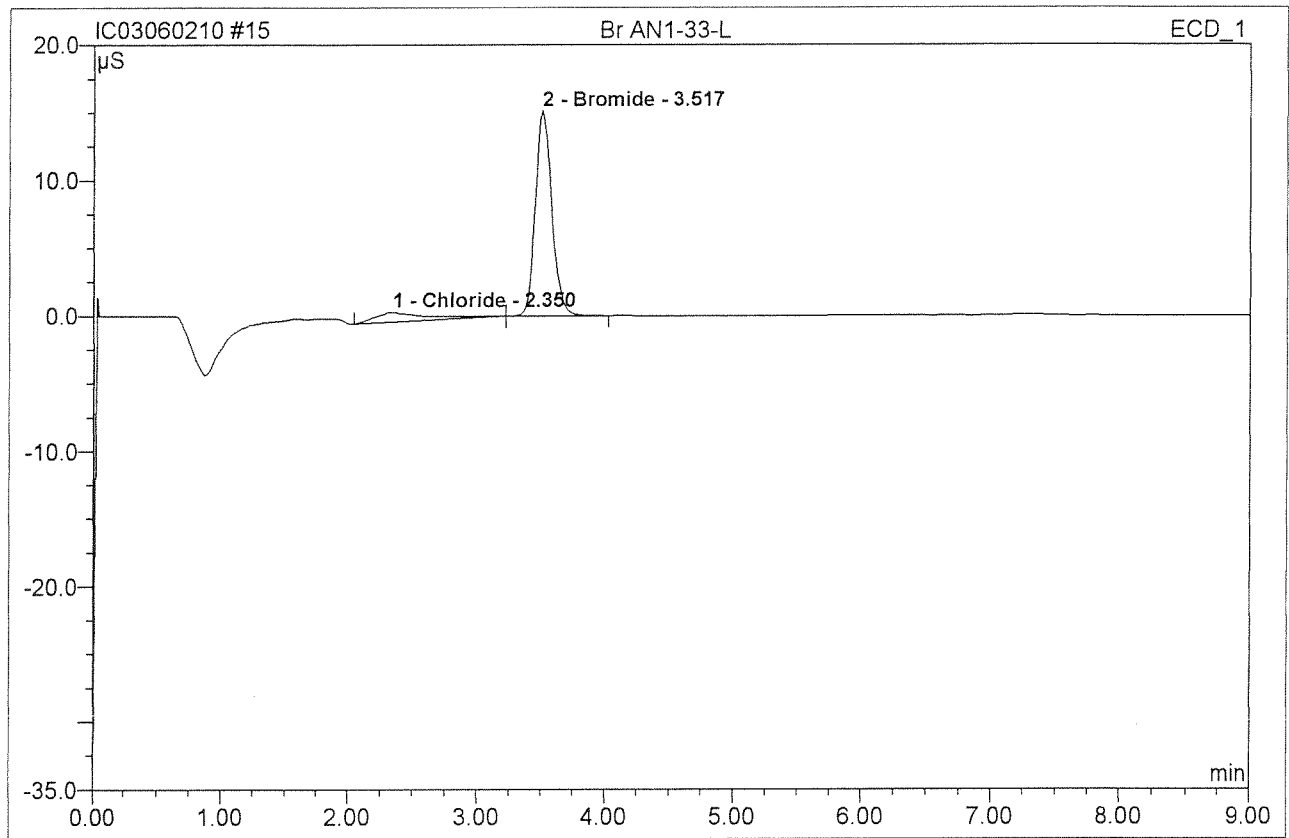


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.60	Fluoride	81.246	9.718	98.96	10.158	BMB
2	2.33	Chloride	0.627	0.102	1.04	0.131	BMB
Total:			81.873	9.820	100.00	10.288	

Before

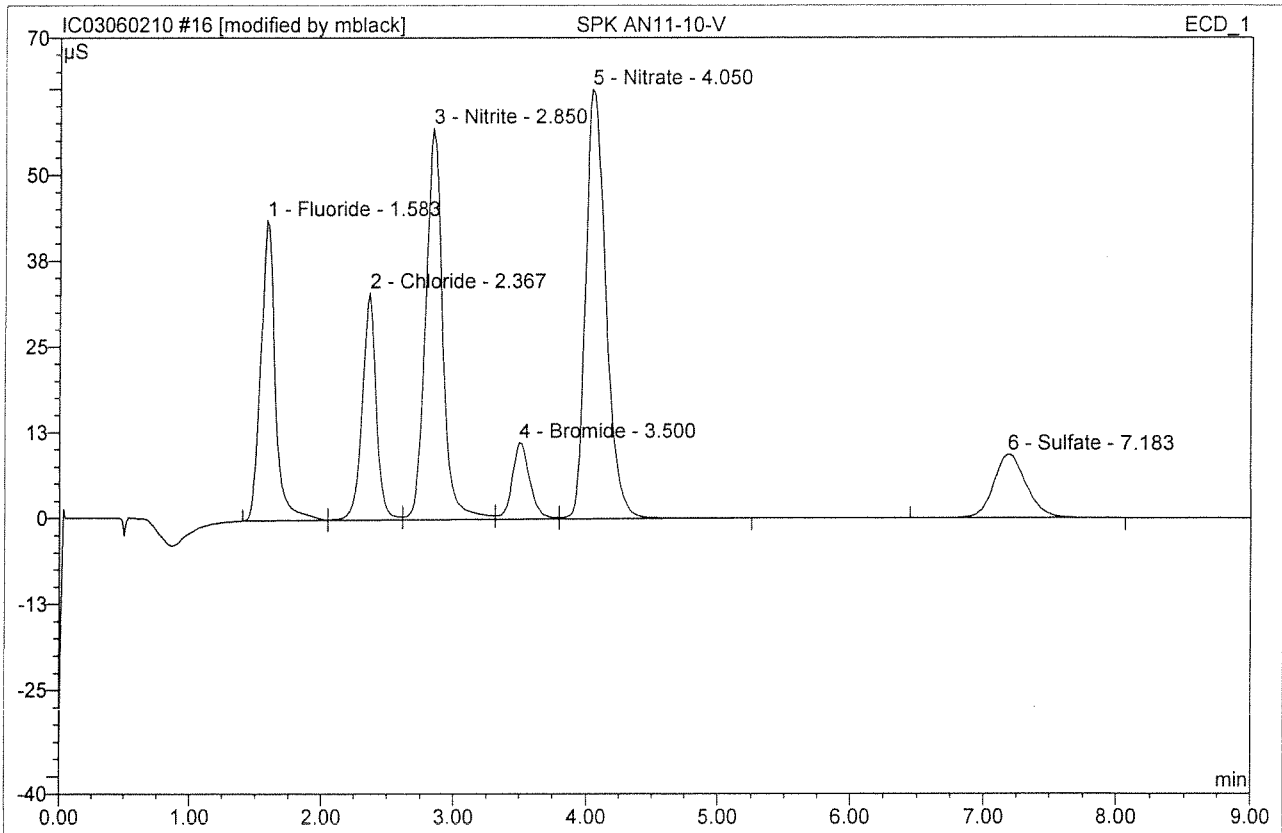
JUN 02 2010

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	4.211/052	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

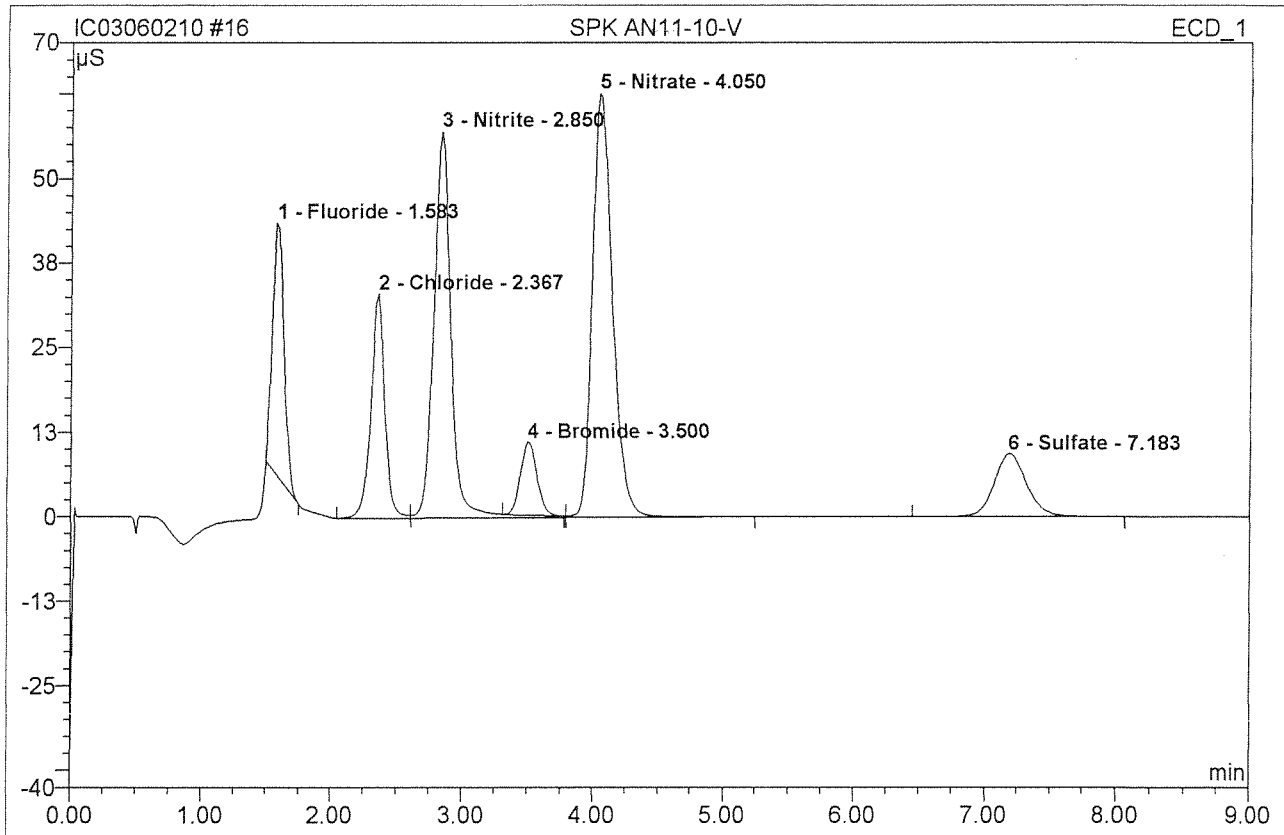
6/4/10

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

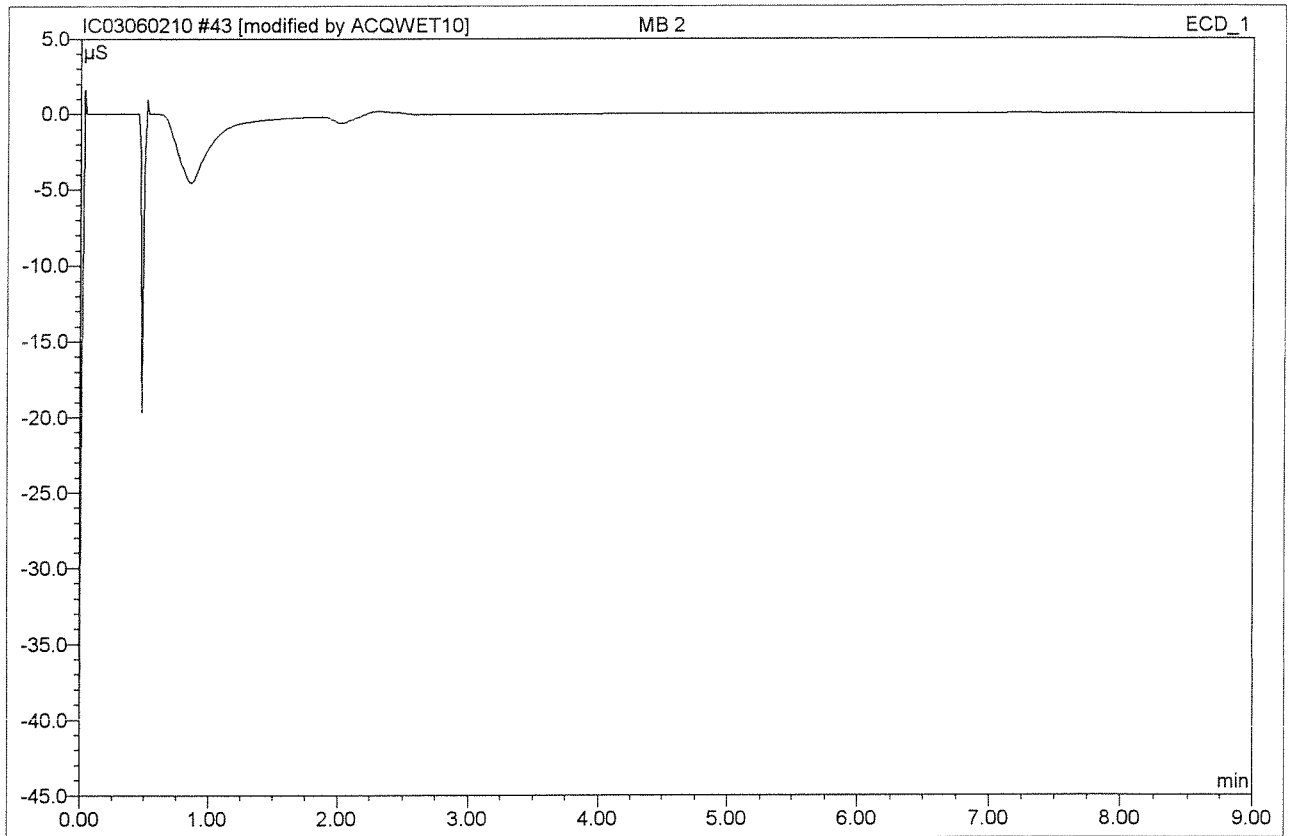


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.58	Fluoride	37.279	3.789	11.84	1.980	BMB
2	2.37	Chloride	33.117	4.036	12.61	2.588	BM
3	2.85	Nitrite	57.048	8.726	27.25	3.022	M
4	3.50	Bromide	10.744	1.570	4.90	2.930	Rd
5	4.05	Nitrate	62.608	11.216	35.03	3.044	MB
6	7.18	Sulfate	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	

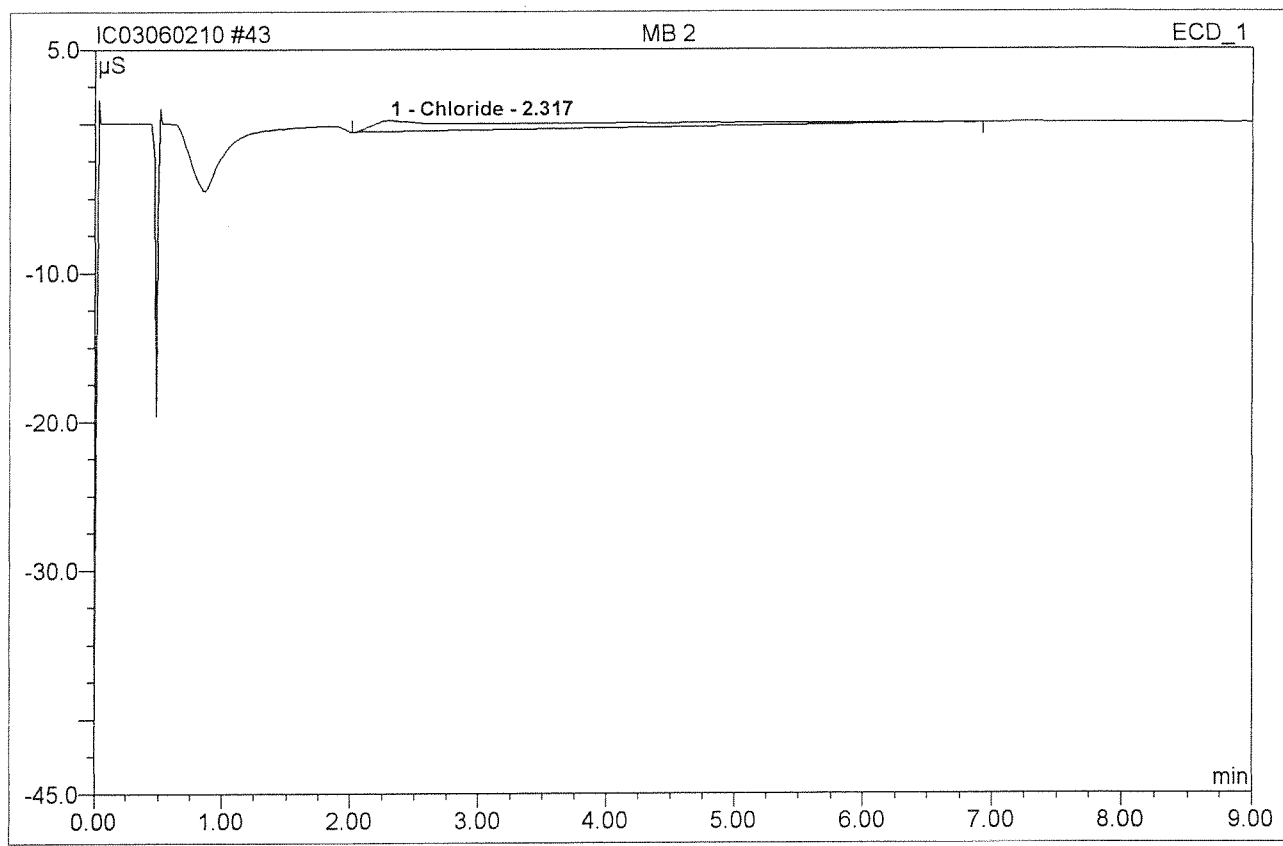
After Initials

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

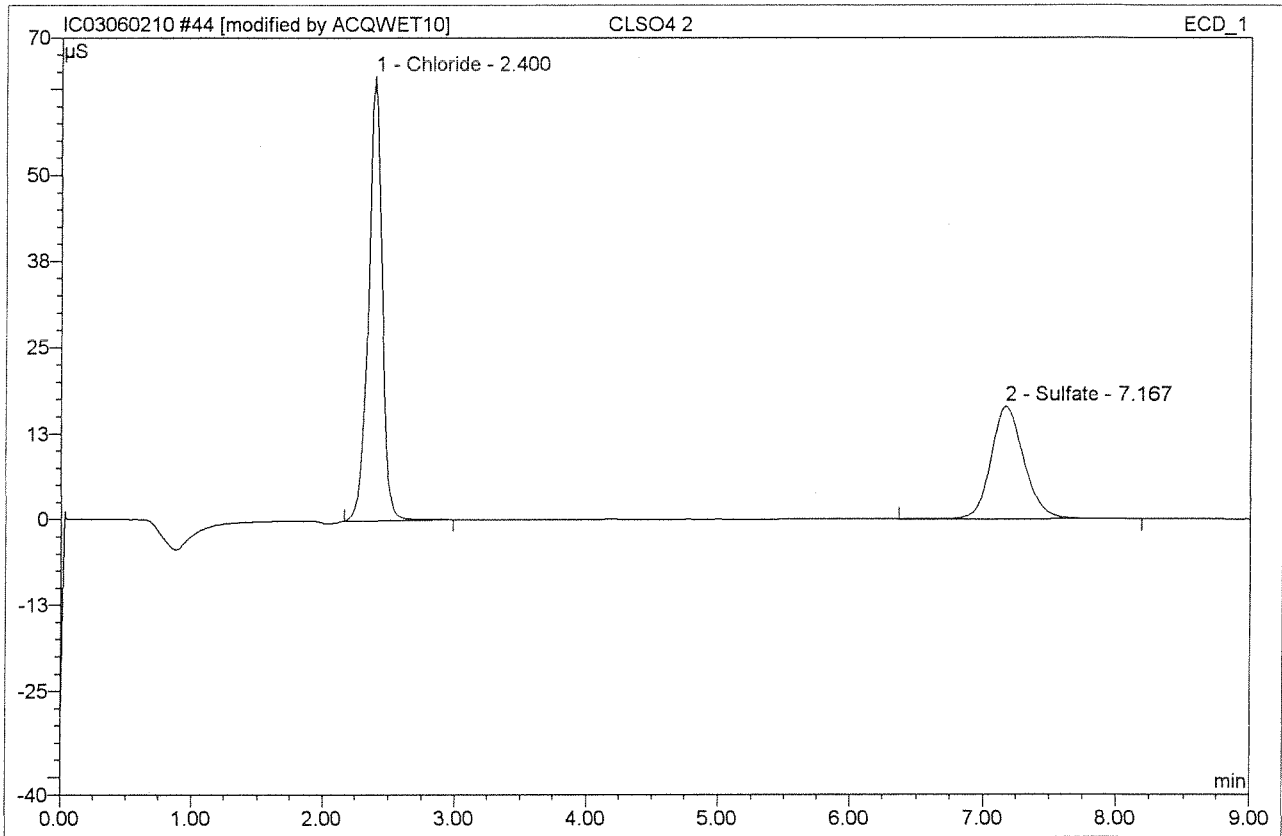


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.32	Chloride	0.742	1.401	100.00	0.898	BMB
Total:			0.742	1.401	100.00	0.898	

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

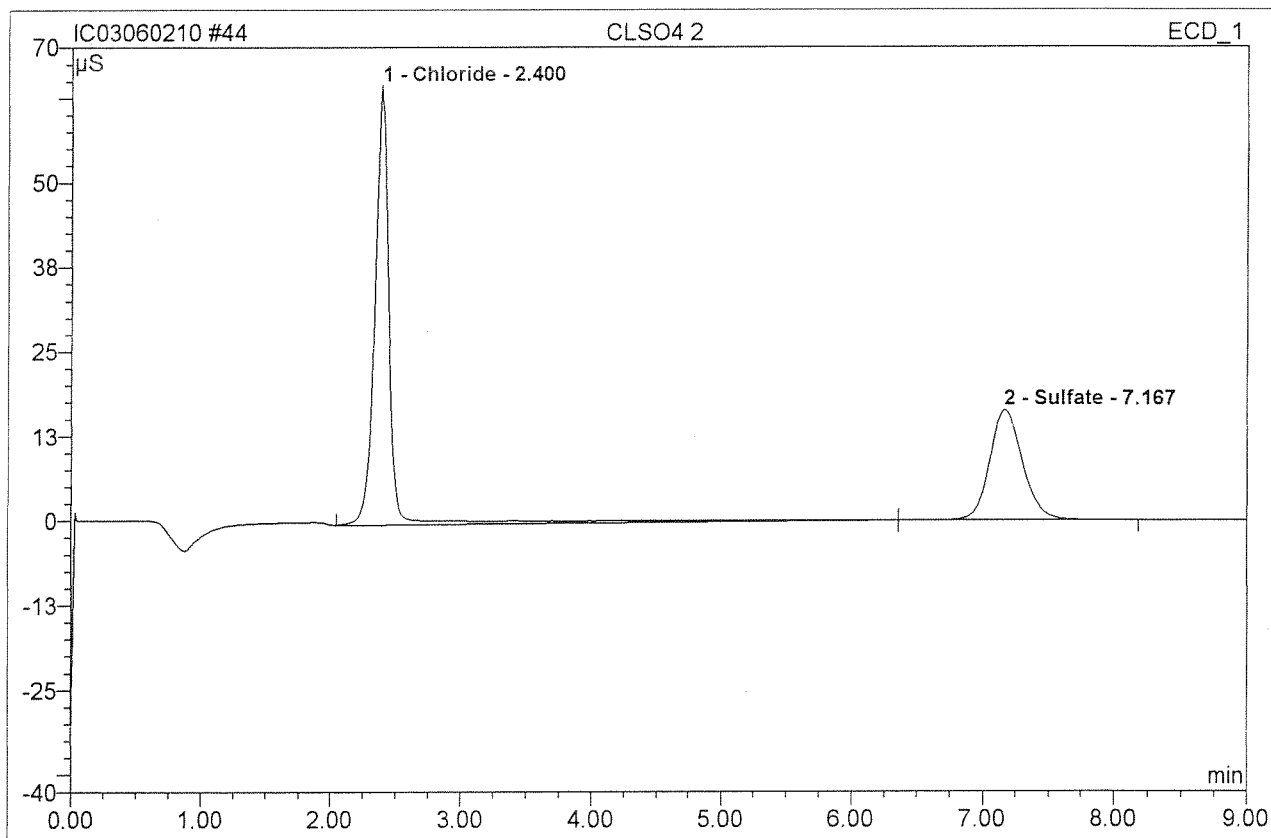
BA 6/4/10

JUN 02 2010

Wrong Peak/Peak not found
 Integration/Order 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

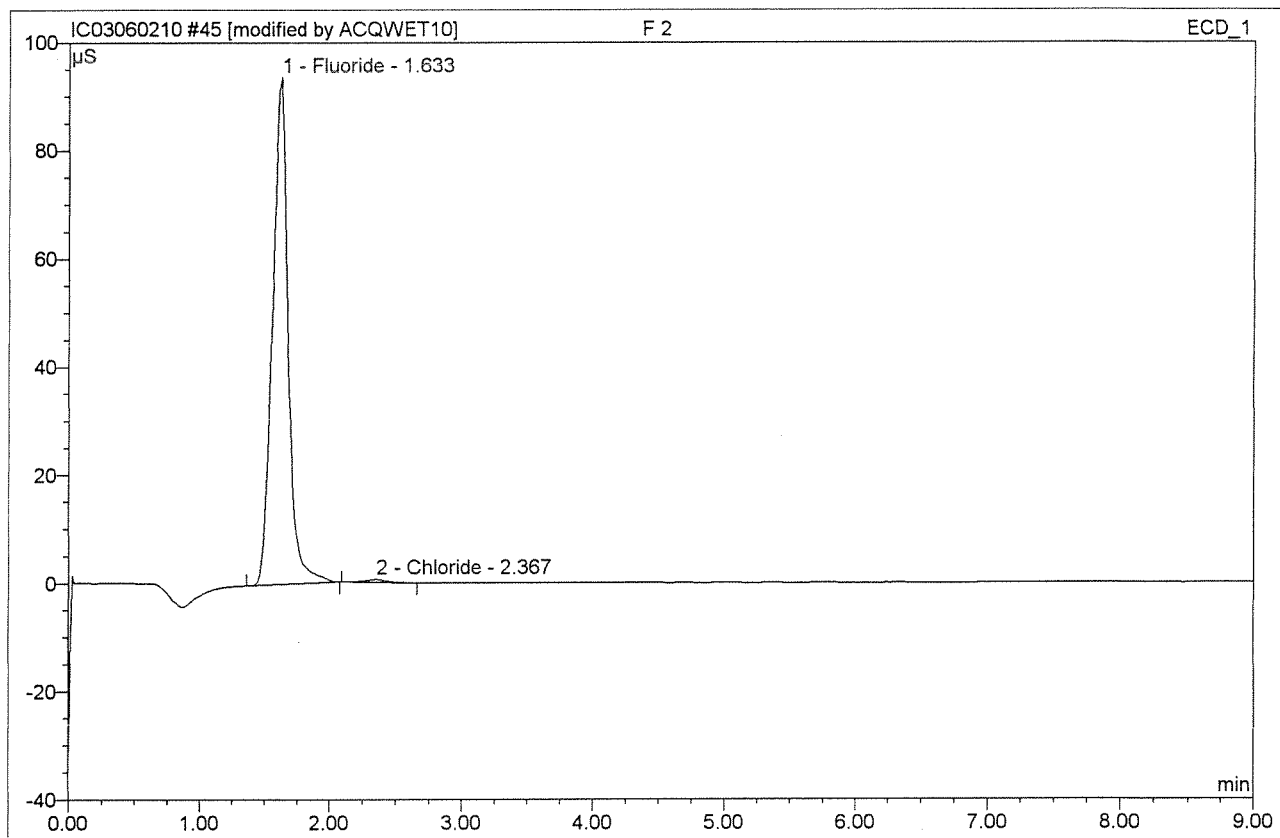


No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %	Amount	Type
1	2.40	Chloride	64.958	8.761	64.91	5.618	BMB
2	7.17	Sulfate	16.384	4.736	35.09	4.813	bMB
Total:			81.342	13.497	100.00	10.430	

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	100% 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

MS

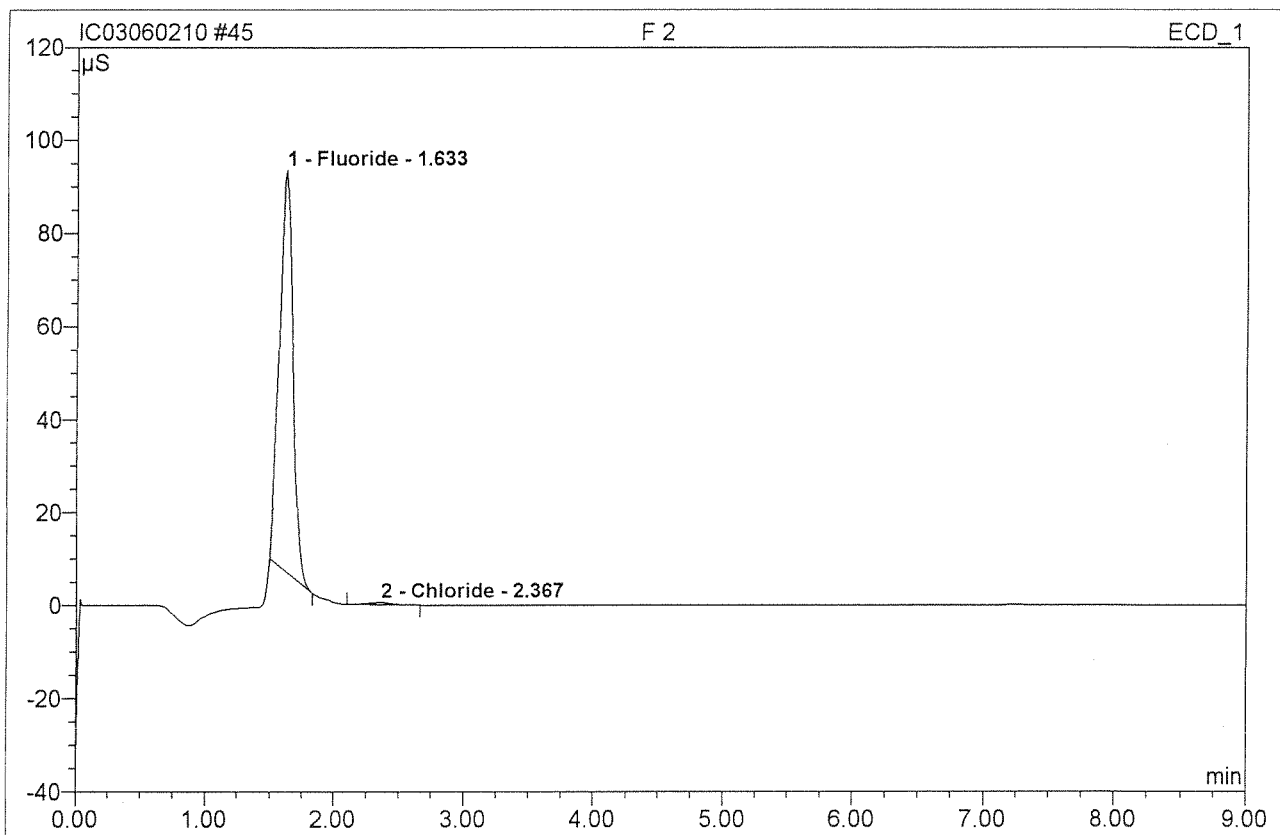
206/4/10

JUN 02 2010

default/Integration

Wrong Peak/Peak not found
 Baseline should be inspected
 Other: 204

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	

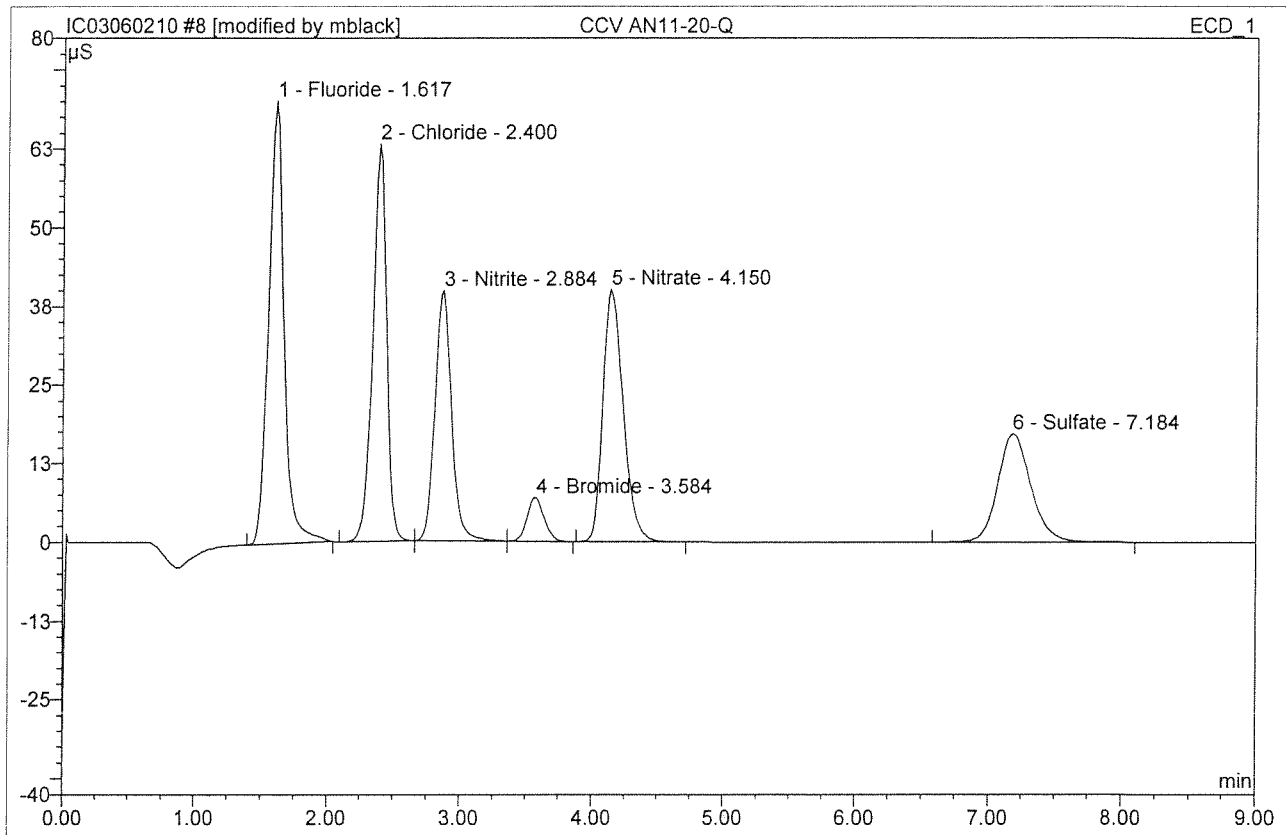
Before

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	4.93899?	BMB*
2	2.40	Chloride	63.085	7.604	21.13	4.87698?	BMB
3	2.88	Nitrite	39.753	5.709	15.86	1.97799?	bMB
4	3.58	Bromide	6.884	1.046	2.91	1.95298?	bMB
5	4.15	Nitrate	40.152	7.208	20.02	1.95798?	BMB
6	7.18	Sulfate	17.246	4.982	13.84	5.06301?	BMB
Total:			237.461	35.997	100.00	20.762	

After
Initials

MB

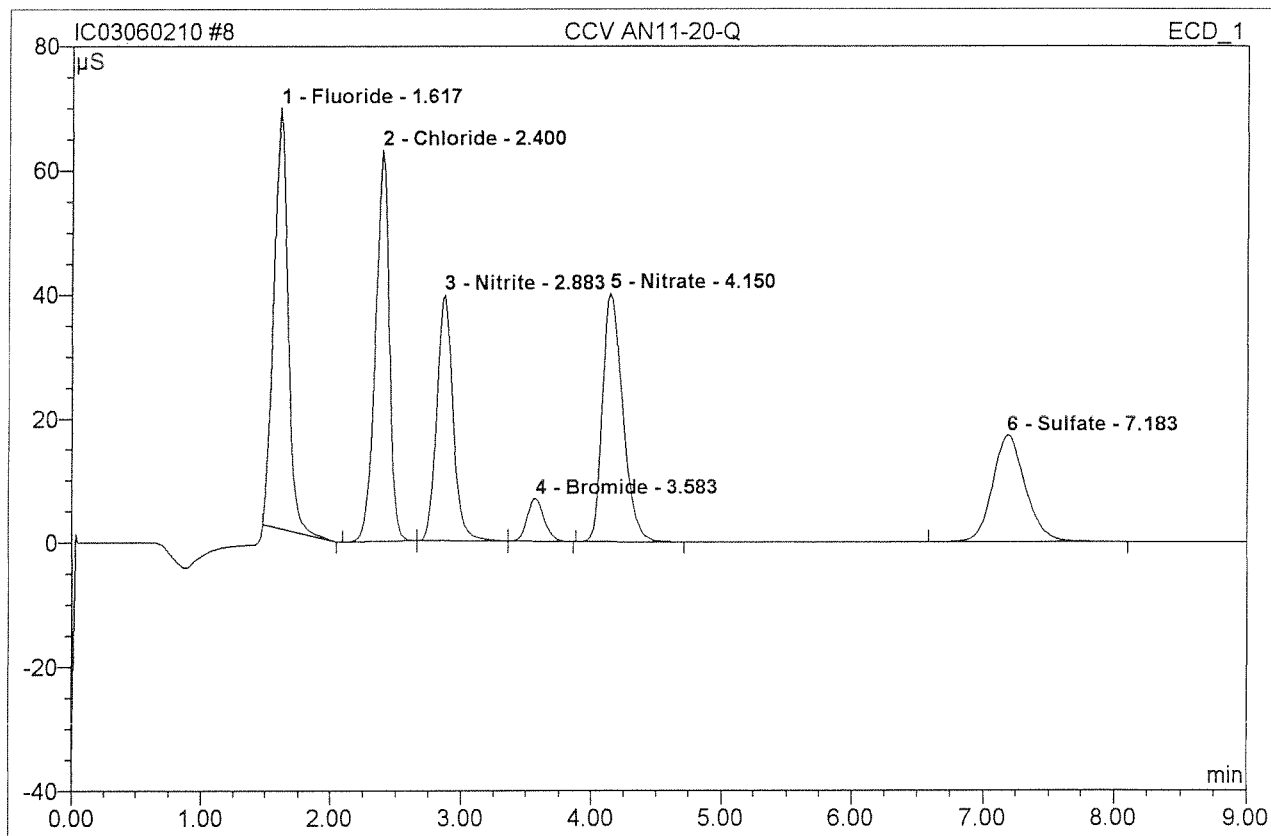
6/4/10

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

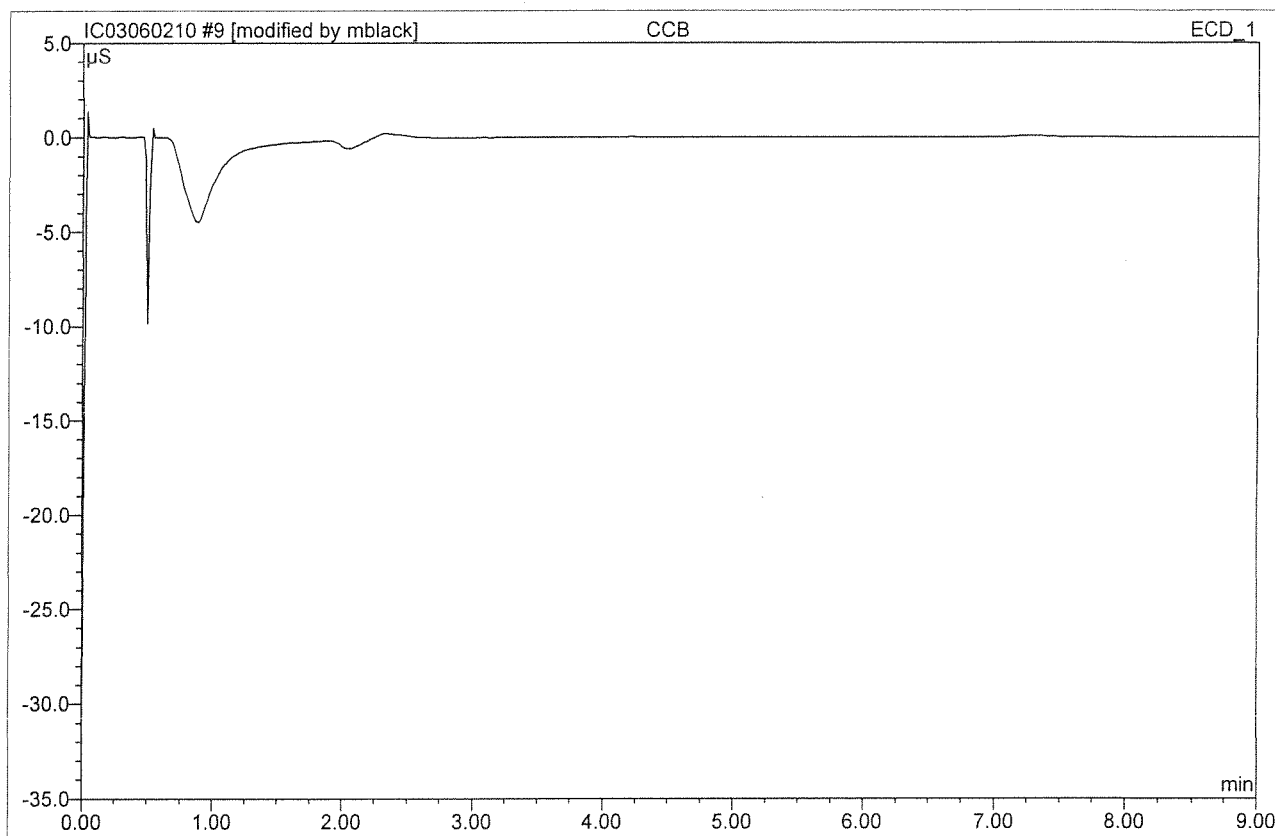


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	67.886	8.483	24.22	4.434	BMB
2	2.40	Chloride	63.085	7.604	21.71	4.876	BMb
3	2.88	Nitrite	39.753	5.709	16.30	1.977	bMb
4	3.58	Bromide	6.884	1.046	2.99	1.952	bMB
5	4.15	Nitrate	40.152	7.208	20.57	1.957	BMB
6	7.18	Sulfate	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 µS	Area µS*min	Rel. Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

After Initials MB

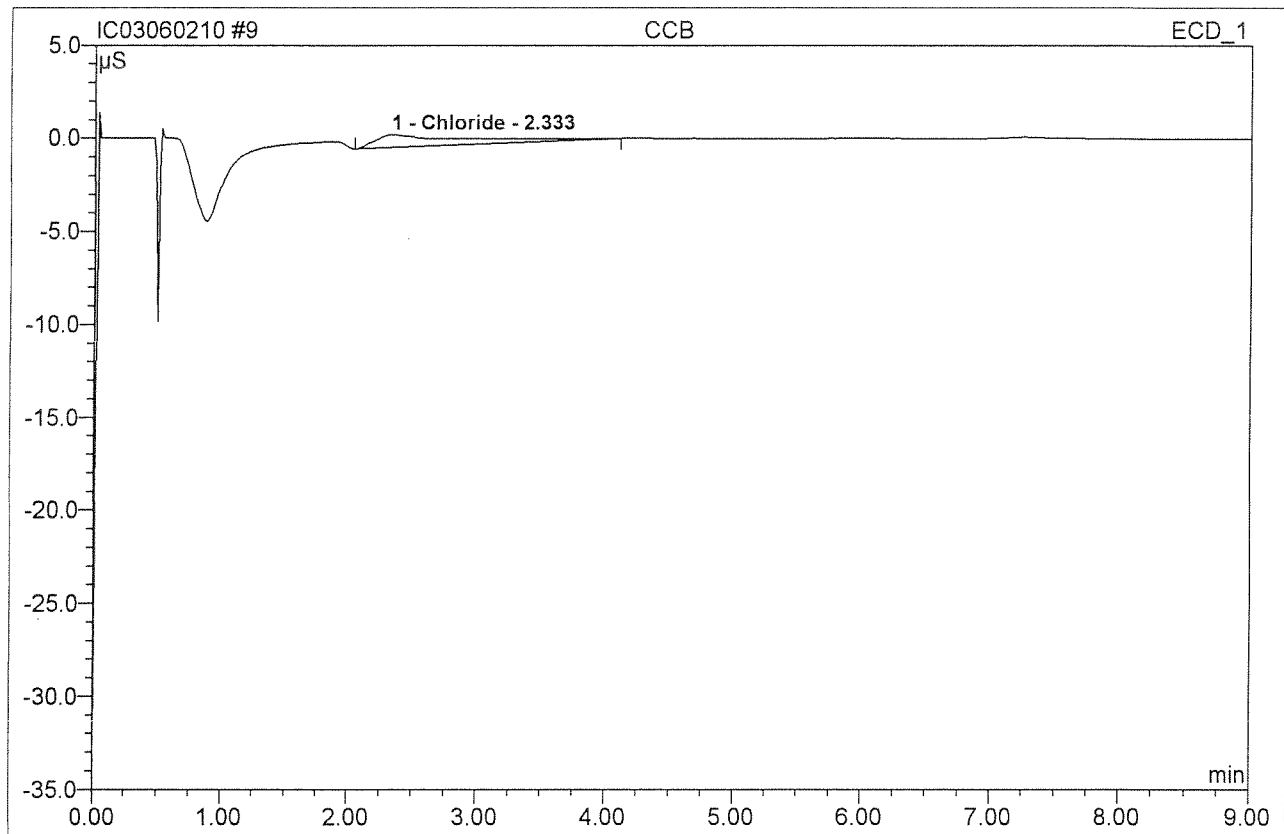
JR 6/4/10

JUN 02 2010

Wrong Peak/Peak not Found
 Baseline/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

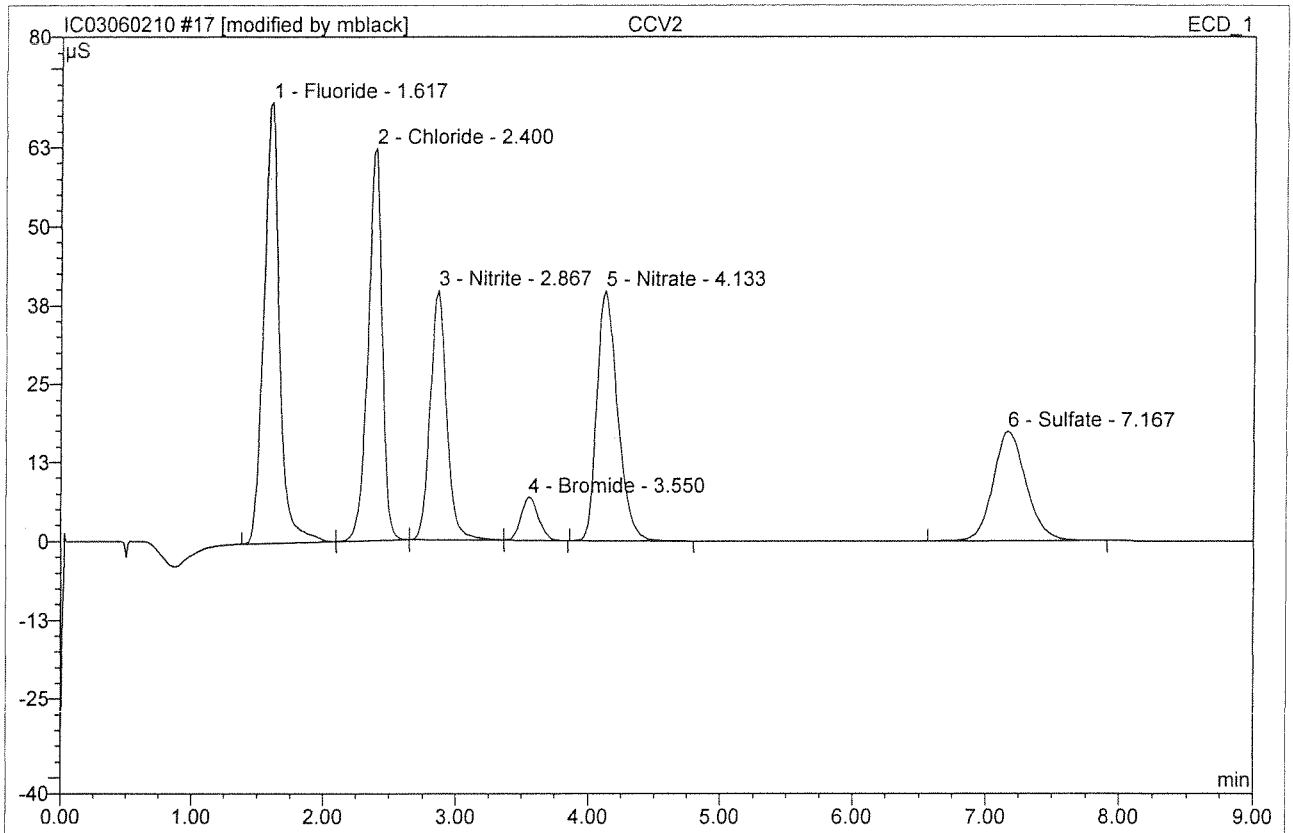


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.33	Chloride	0.706	0.563	100.00	0.361	BMB
Total:			0.706	0.563	100.00	0.361	

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



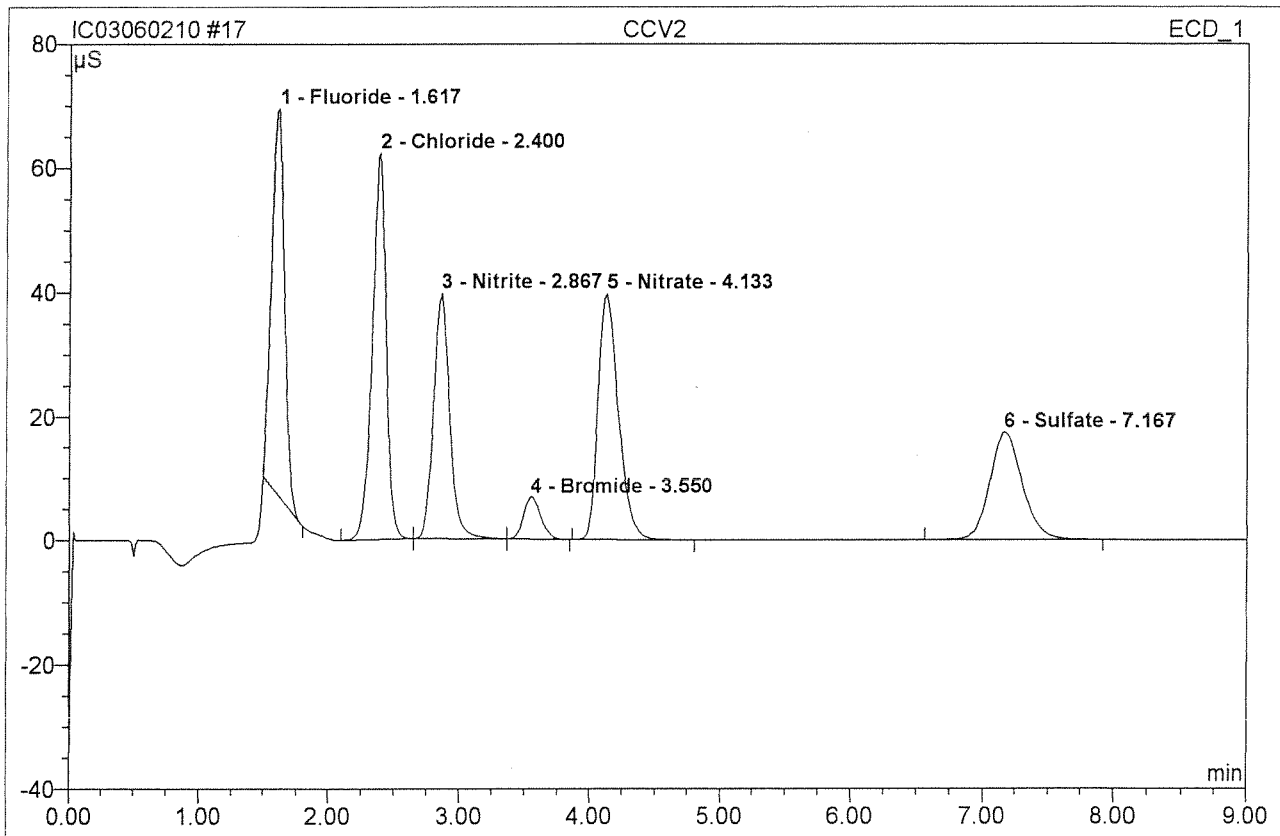
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	69.919	9.573	26.50	5.003 ^{100%}	BMB*
2	2.40	Chloride	62.247	7.594	21.02	4.869 ^{97%}	bMB*
3	2.87	Nitrite	39.619	5.694	15.76	1.972 ^{97%}	bMB
4	3.55	Bromide	6.829	1.043	2.89	1.946 ^{98%}	bMB
5	4.13	Nitrate	39.709	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

MS 6/4/10

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

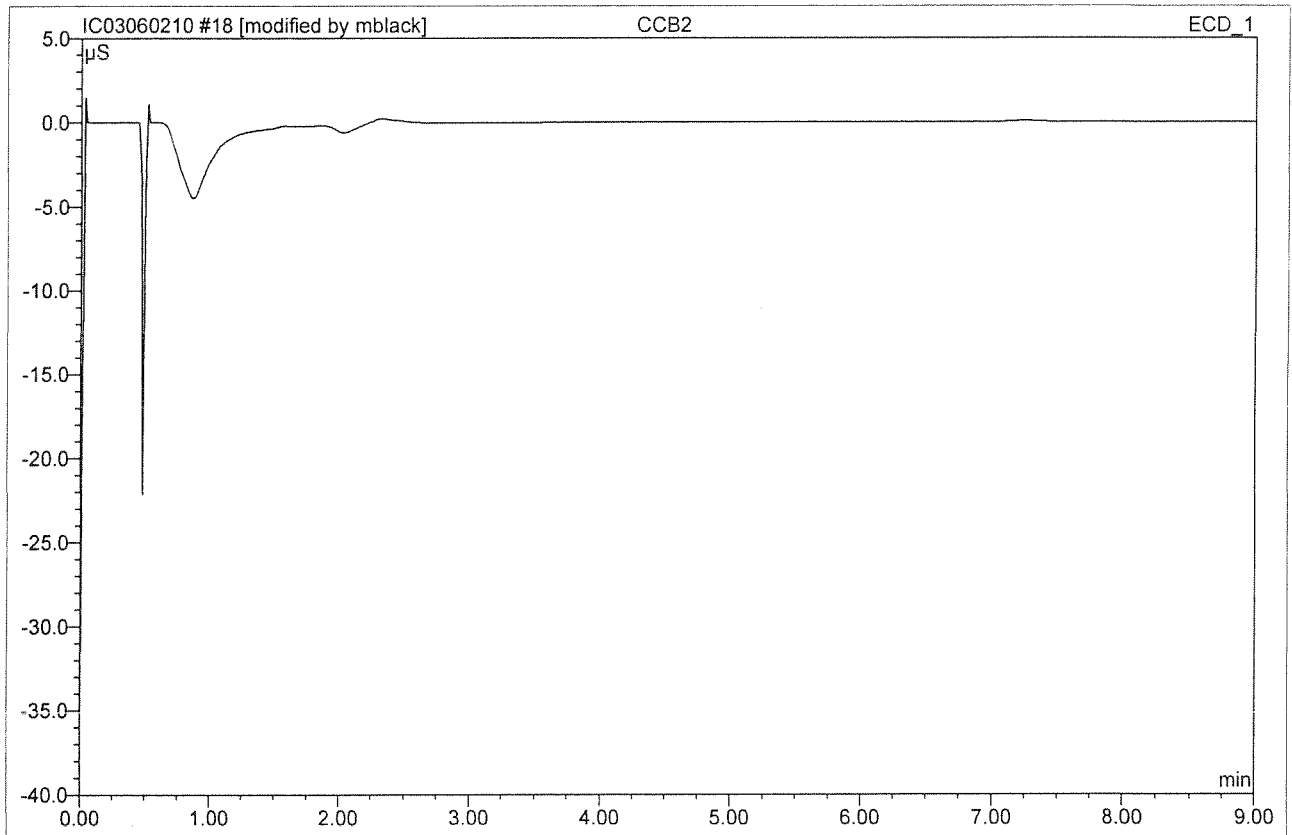


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	62.400	7.084	21.06	3.703	BMB
2	2.40	Chloride	62.247	7.594	22.57	4.869	BMb
3	2.87	Nitrite	39.619	5.694	16.93	1.972	bMb
4	3.55	Bromide	6.829	1.043	3.10	1.946	bMB
5	4.13	Nitrate	39.709	7.209	21.43	1.957	BMB
6	7.17	Sulfate	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	

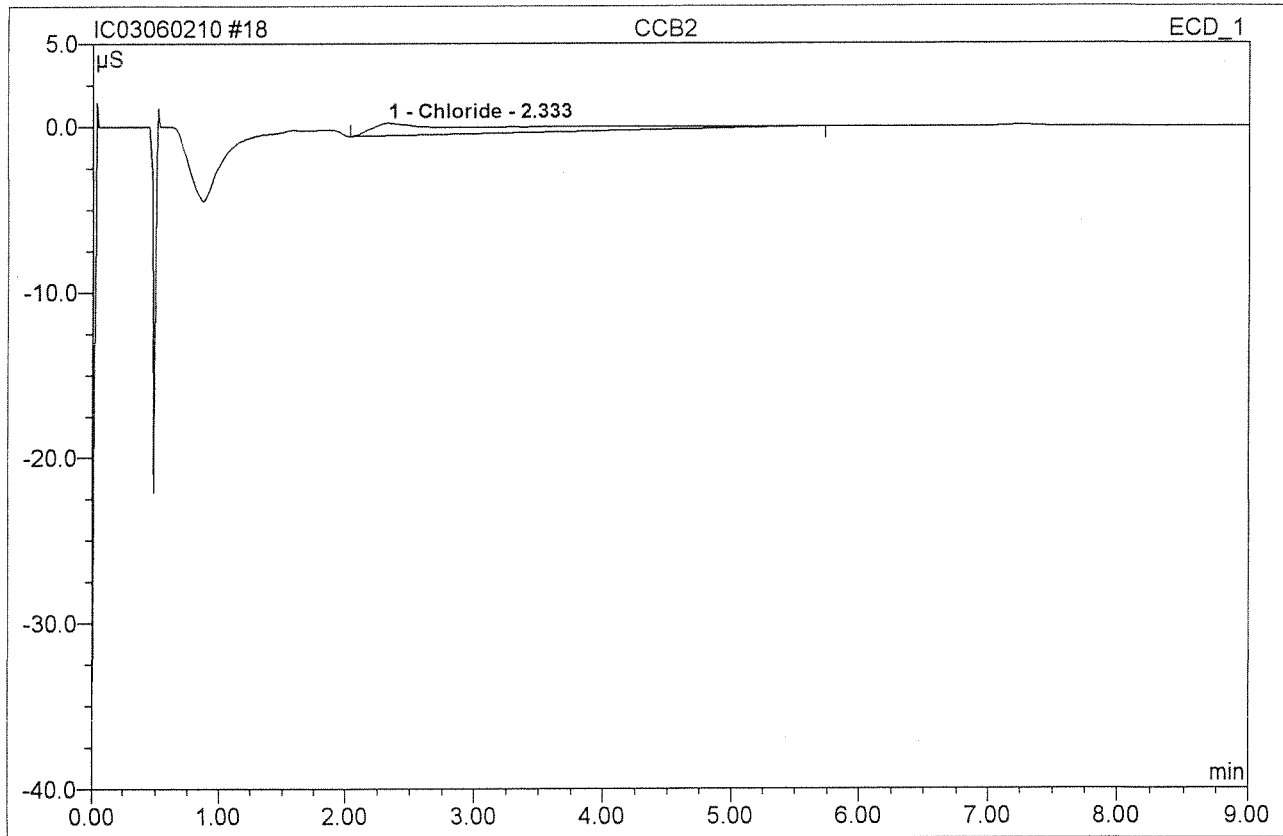
After Initials MB

6/4/10

JUN 02 2010

Wrong Peak/Peak not Found
Baseline/outdoor incorrect
Error

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

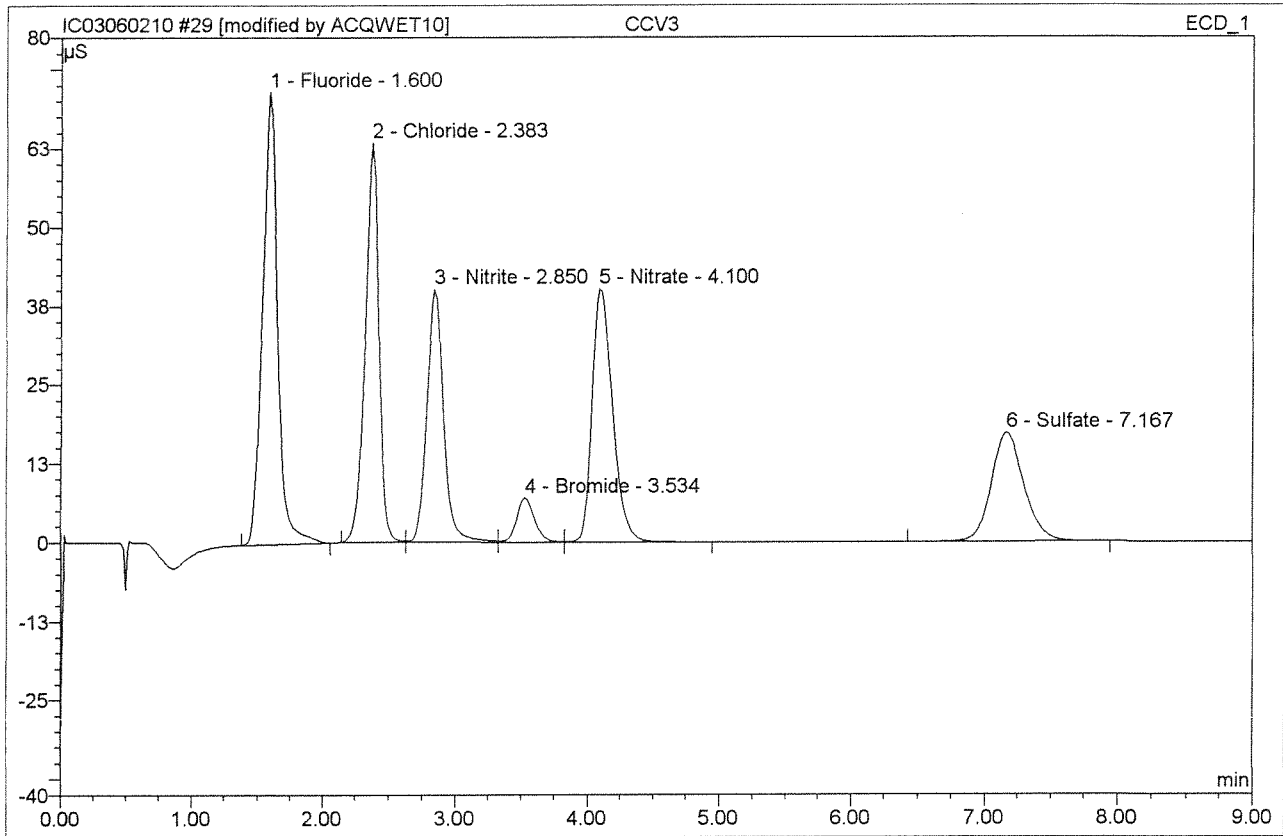


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.769	1.047	100.00	0.671	BMB
Total:			0.769	1.047	100.00	0.671	

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	5.004100%	BMB*
2	2.38	Chloride	63.332	7.549	20.90	4.84097%	BM *
3	2.85	Nitrite	40.107	5.790	16.03	2.005101%	M *
4	3.53	Bromide	7.040	1.082	3.00	2.020101%	M *
5	4.10	Nitrate	40.125	7.196	19.92	1.95398%	MB*
6	7.17	Sulfate	17.270	4.933	13.65	5.012100%	BMB
Total:			239.544	36.125	100.00	20.835	

After Initials

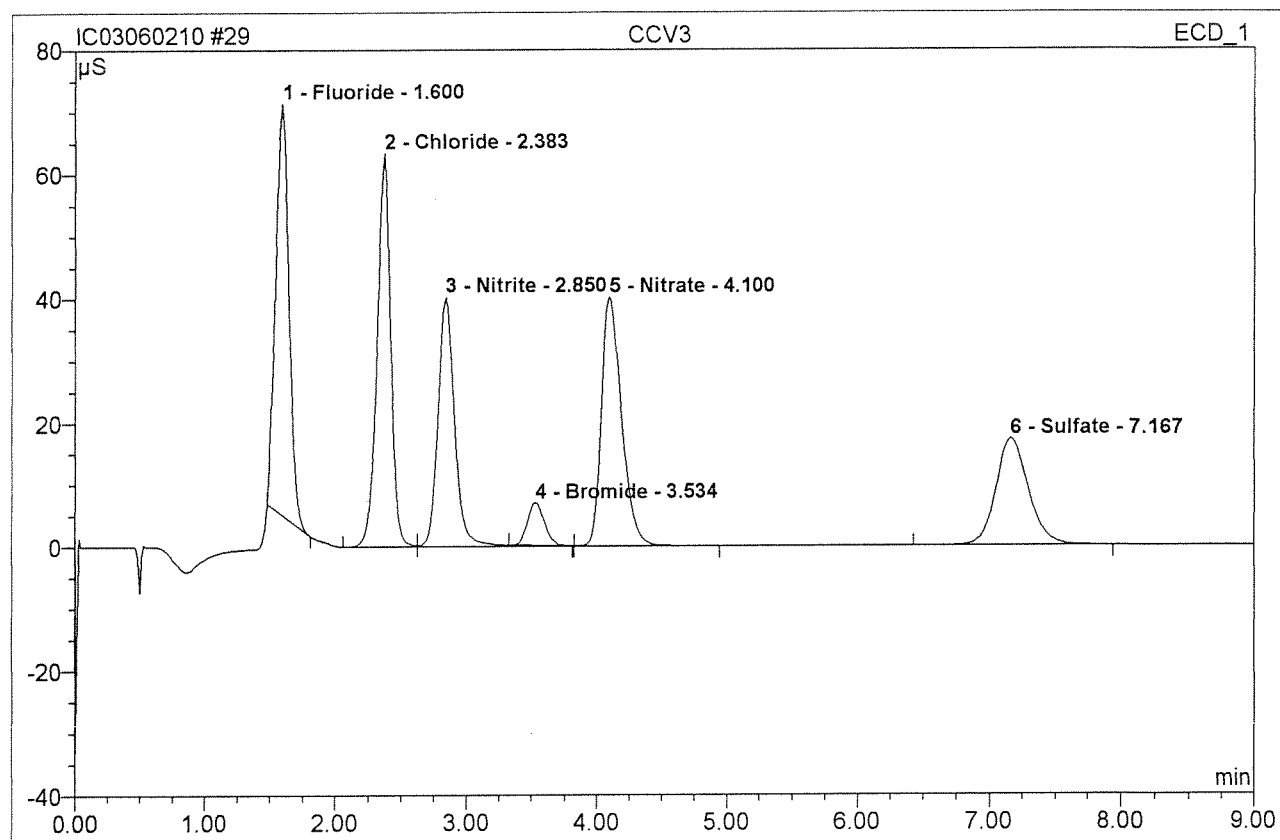
MB

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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

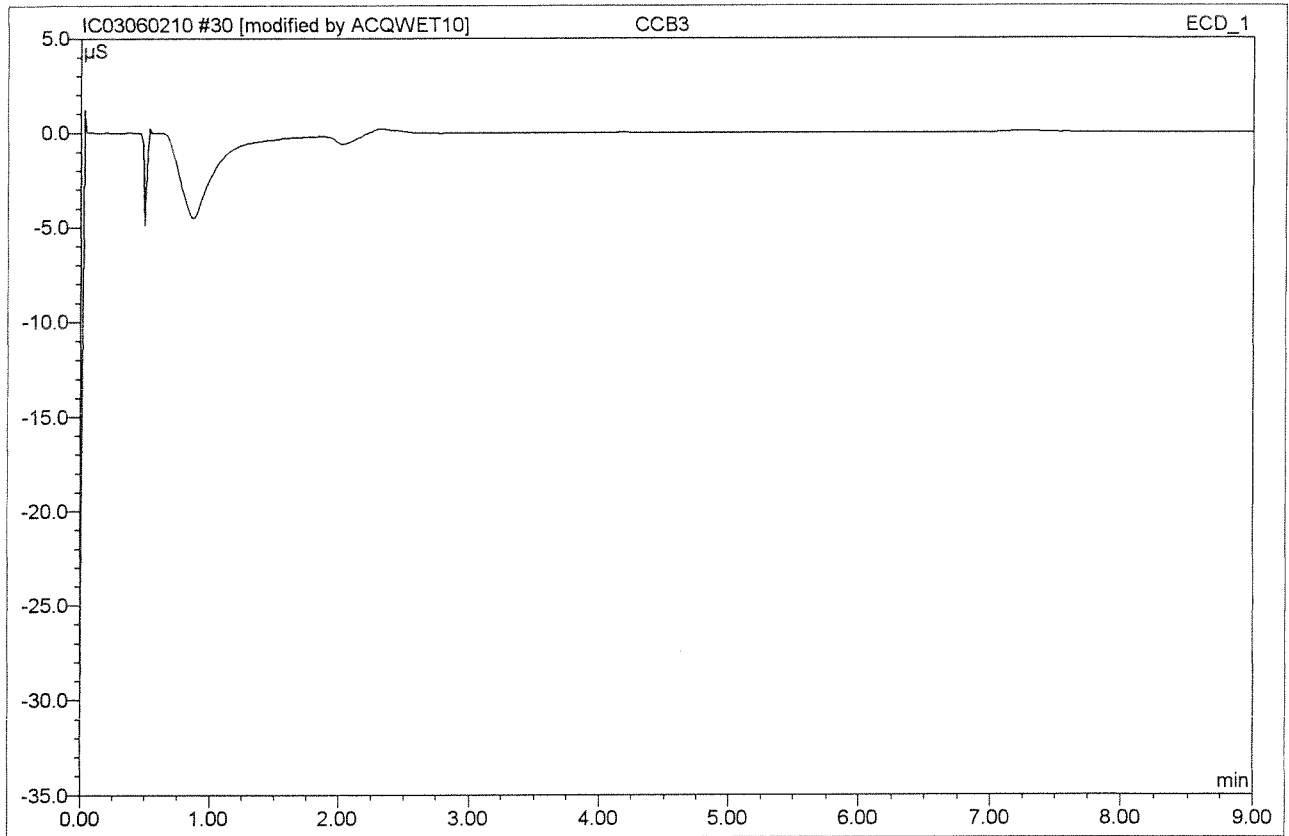


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	66.245	7.700	22.34	4.024	BMB
2	2.38	Chloride	63.474	7.621	22.11	4.887	BM
3	2.85	Nitrite	40.223	5.946	17.25	2.059	M
4	3.53	Bromide	6.941	1.040	3.02	1.940	Rd
5	4.10	Nitrate	40.172	7.231	20.98	1.963	MB
6	7.17	Sulfate	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



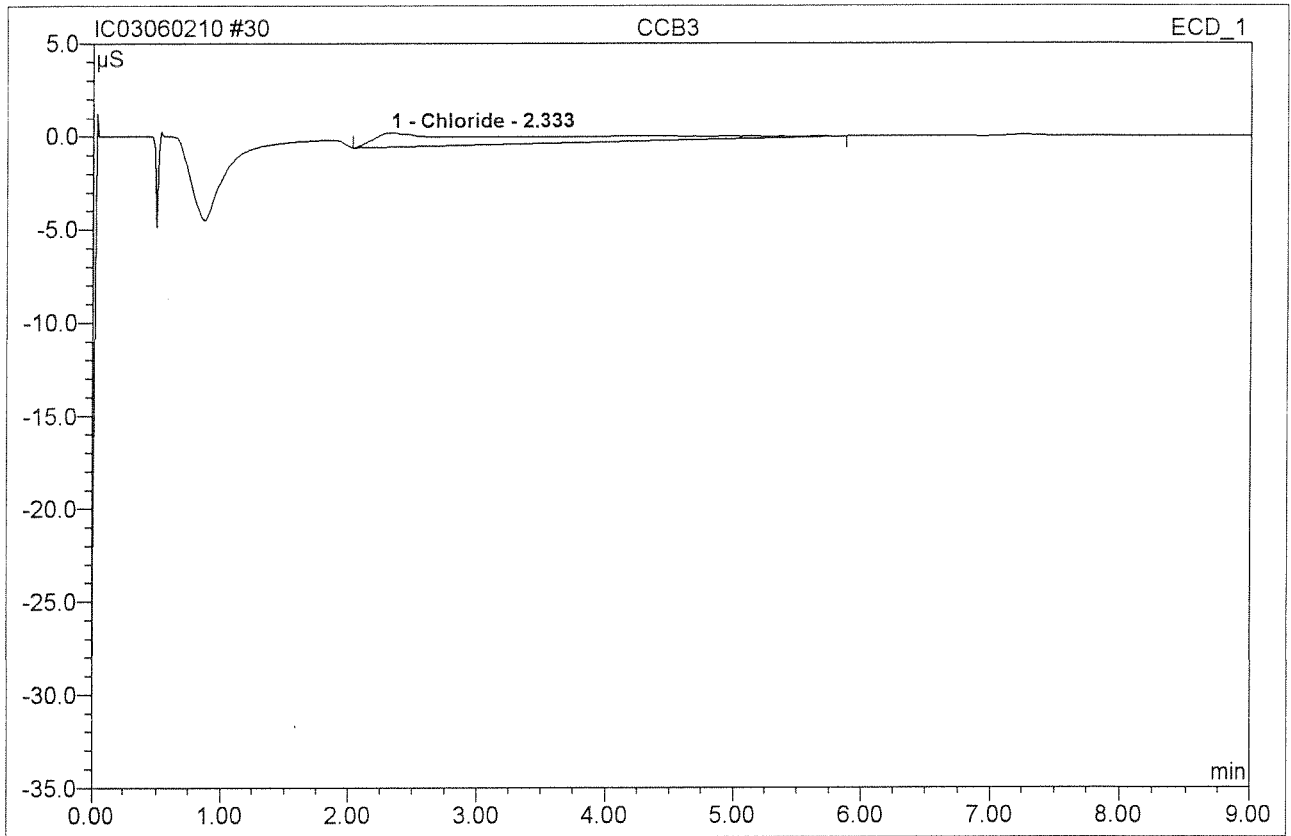
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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

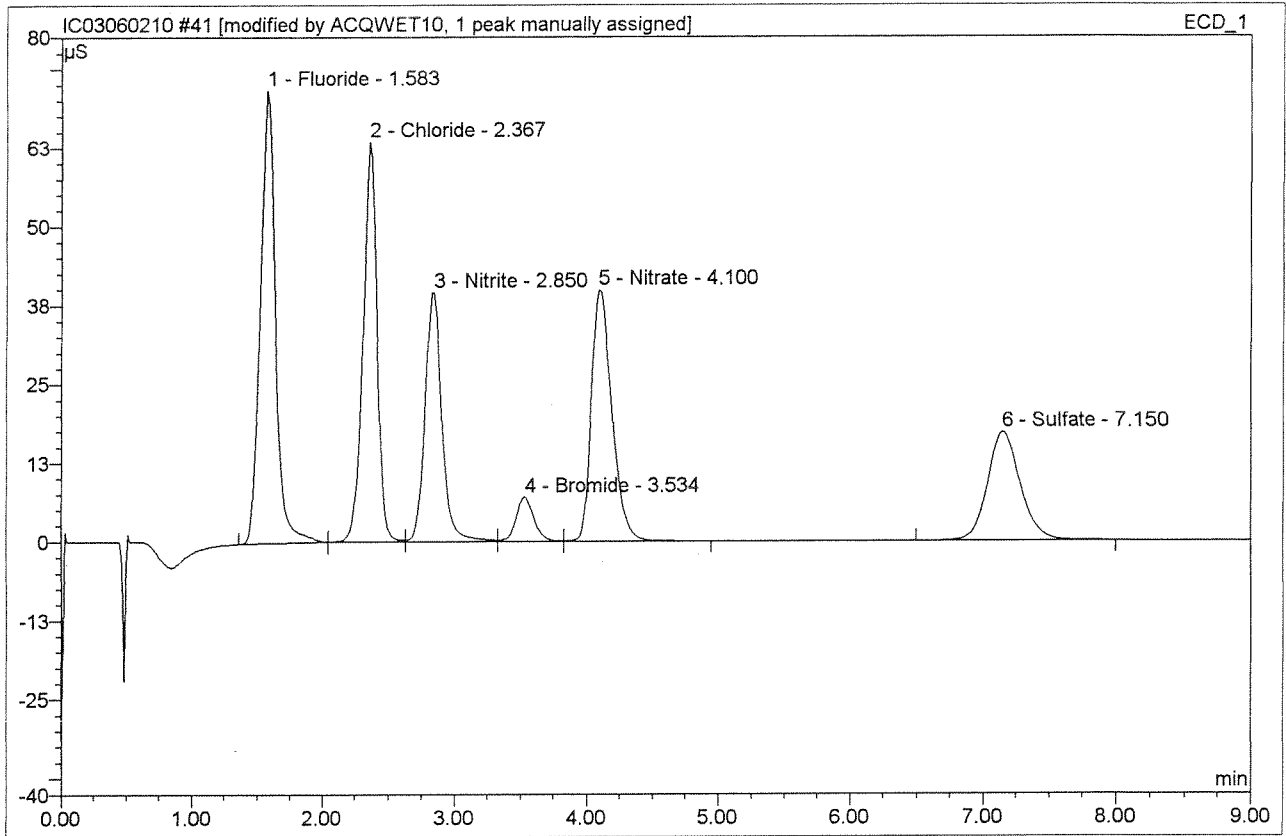


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.754	1.117	100.00	0.716	BMB
Total:			0.754	1.117	100.00	0.716	

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	5.0391612	BMb*
2	2.37	Chloride	63.476	7.717	21.12	4.949992	bM *^
3	2.85	Nitrite	39.516	5.857	16.02	2.0281622	M *
4	3.53	Bromide	7.096	1.125	3.08	2.1001052	M *
5	4.10	Nitrate	39.967	7.247	19.83	1.967992	MB
6	7.15	Sulfate	17.285	4.959	13.57	5.0391012	BMB
Total:			239.244	36.549	100.00	21.123	

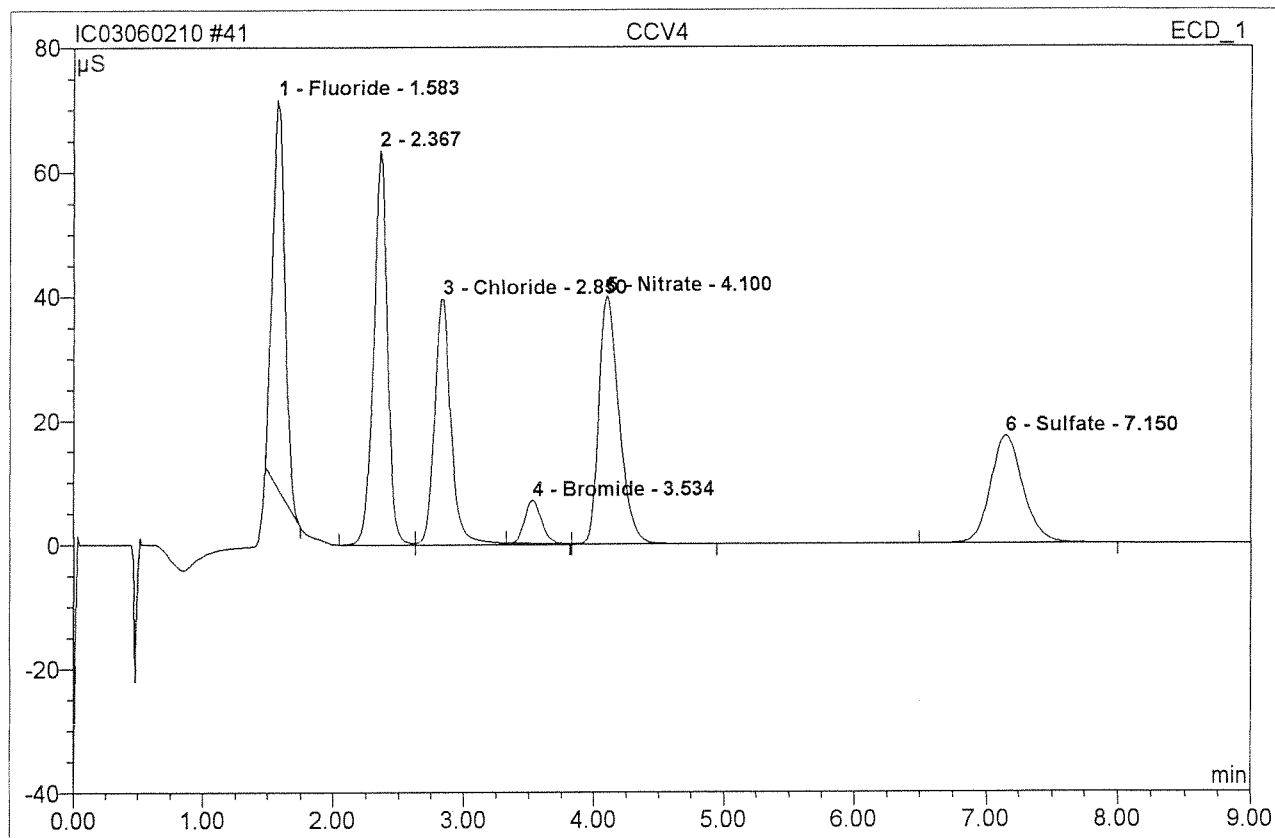
After Initials CB

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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

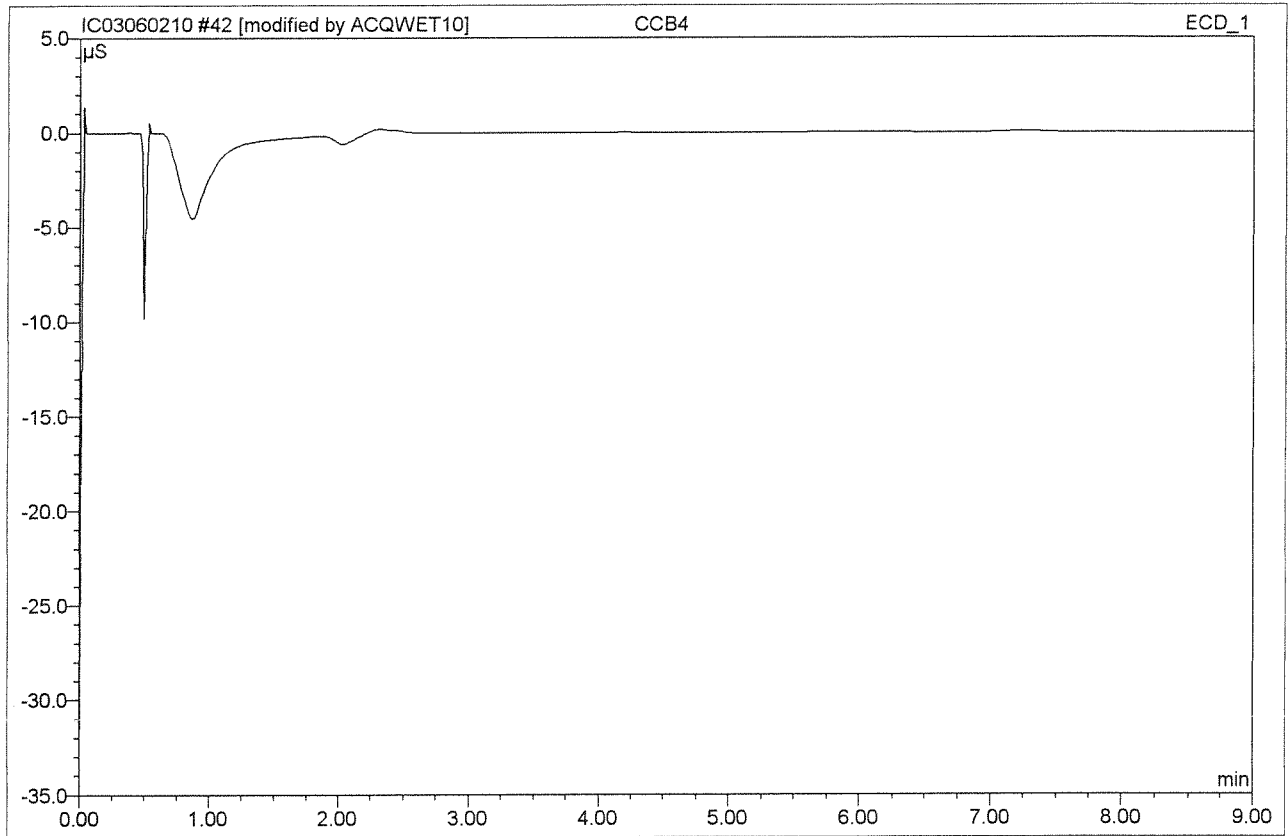


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %	Amount	Type
1	1.58	Fluoride	62.622	6.880	20.36	3.596	BMB
2	2.37	n.a.	63.476	7.717	22.84	n.a.	BM
3	2.85	Chloride	39.516	5.939	17.58	3.808	M
4	3.53	Bromide	6.916	1.044	3.09	1.948	Rd
5	4.10	Nitrate	39.967	7.247	21.45	1.967	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



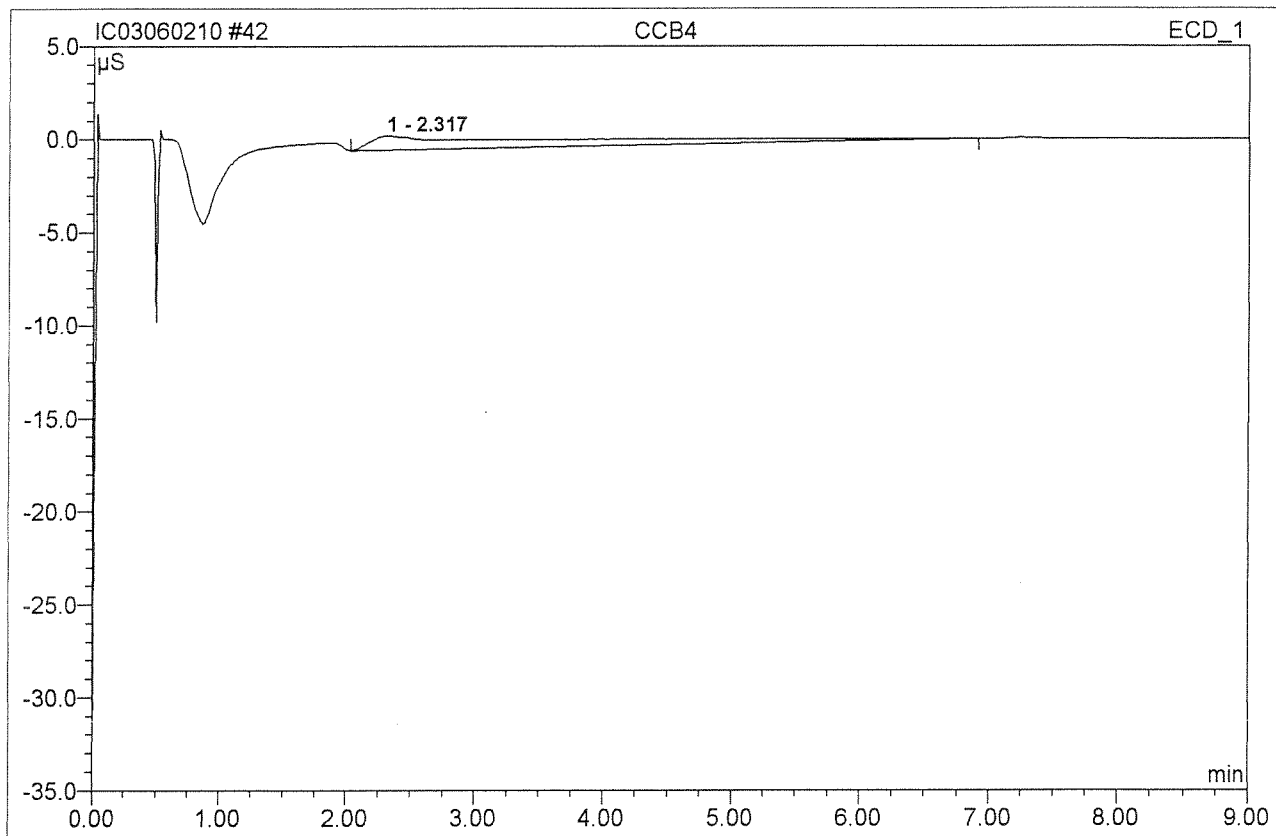
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

JL 6/4/10

After Initials MB

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

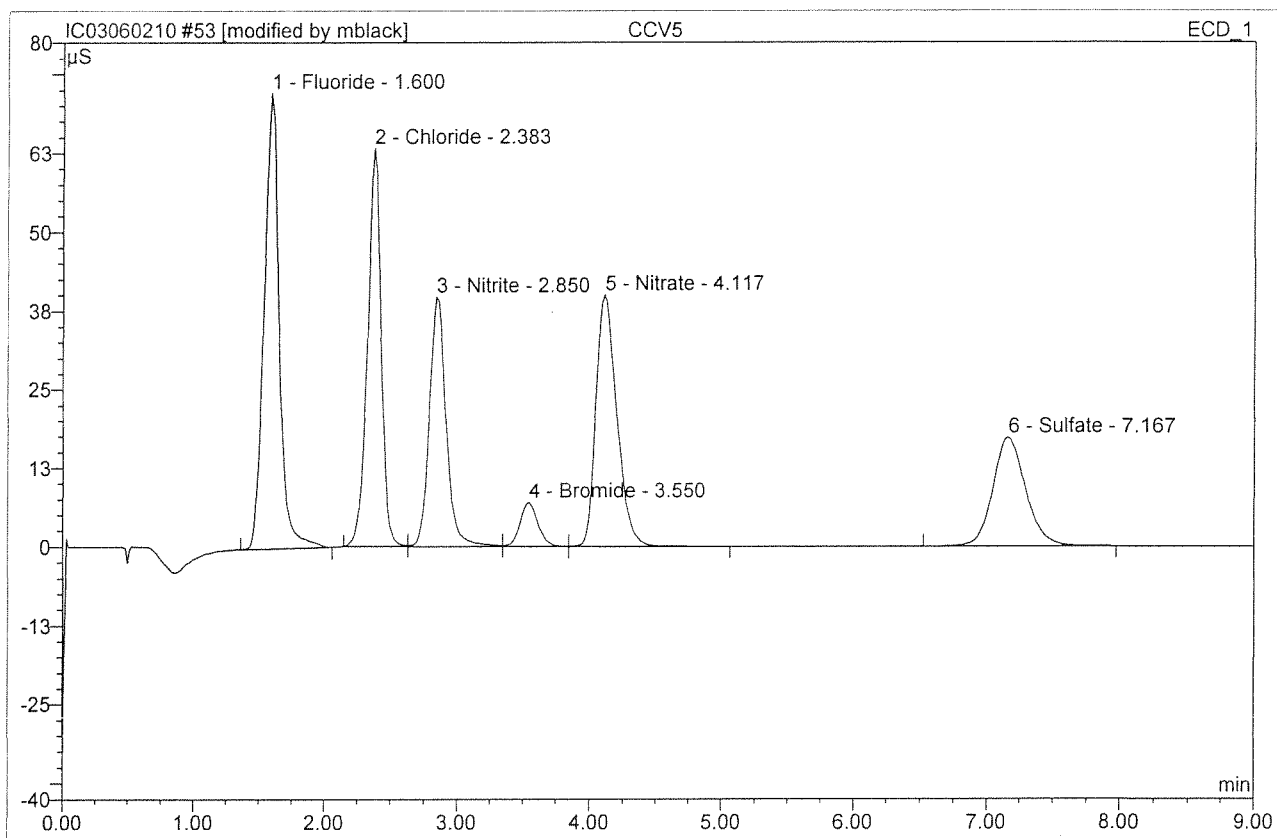


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.32	n.a.	0.750	1.435	100.00	n.a.	BMB
Total:			0.750	1.435	100.00	0.000	

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

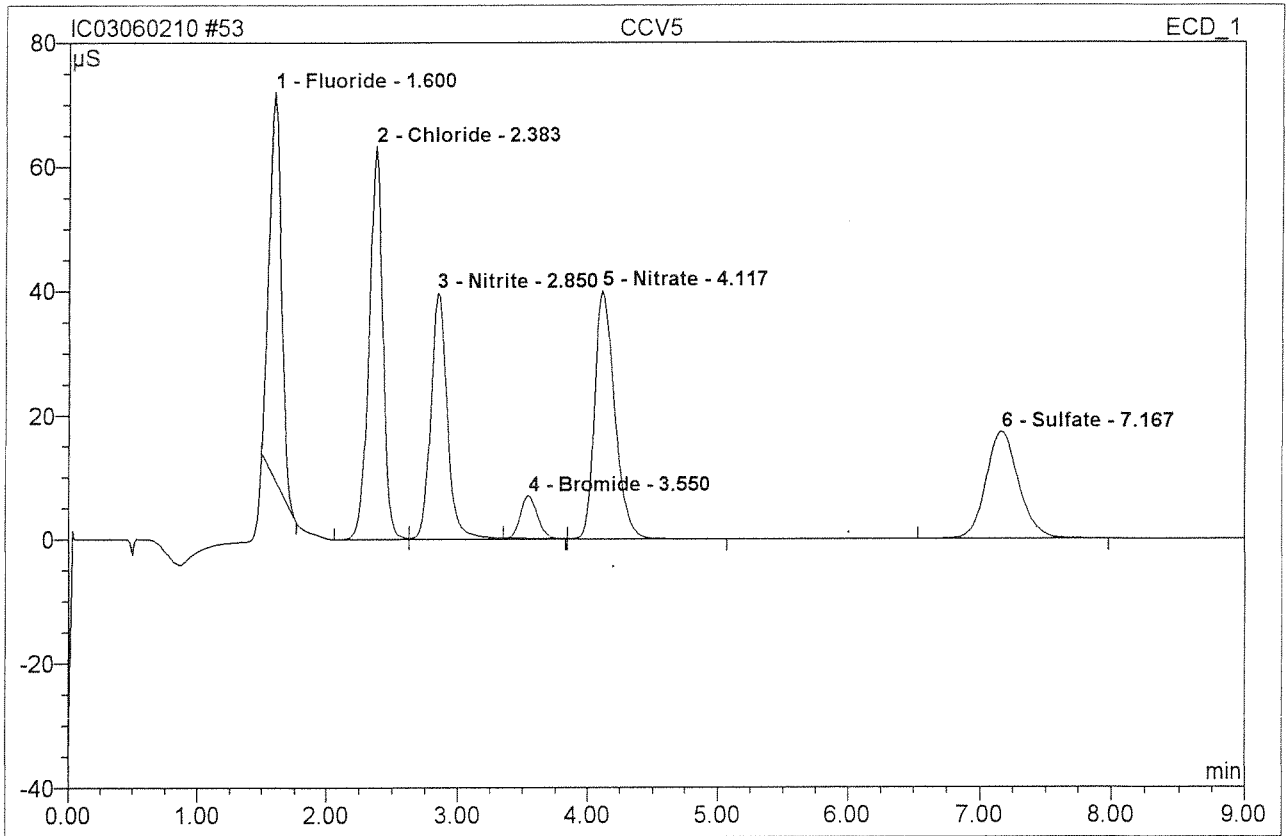


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	72.348	9.664	26.61	5.0511017	BMB*
2	2.38	Chloride	63.211	7.572	20.85	4.856977	BM *
3	2.85	Nitrite	39.580	5.797	15.97	2.0081017	M *
4	3.55	Bromide	6.988	1.085	2.99	2.0241017	M *
5	4.12	Nitrate	39.978	7.220	19.88	1.960987	MB*
6	7.17	Sulfate	17.269	4.973	13.69	5.0531017	BMB
Total:			239.374	36.312	100.00	20.951	

MB

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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

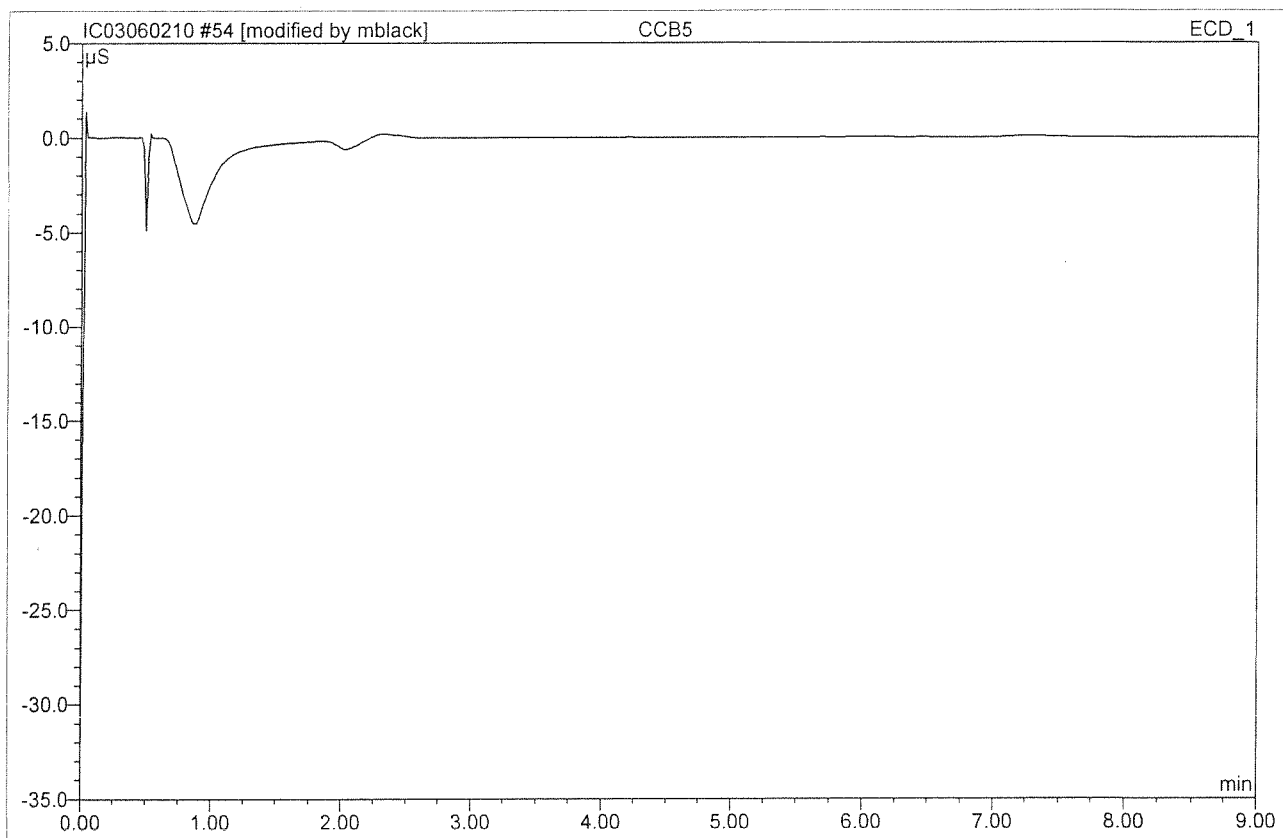


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	62.238	6.696	19.95	3.499	BMB
2	2.38	Chloride	63.350	7.644	22.77	4.901	BM
3	2.85	Nitrite	39.695	5.954	17.74	2.062	M
4	3.55	Bromide	6.892	1.043	3.11	1.947	Rd
5	4.12	Nitrate	40.027	7.259	21.62	1.970	MB
6	7.17	Sulfate	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



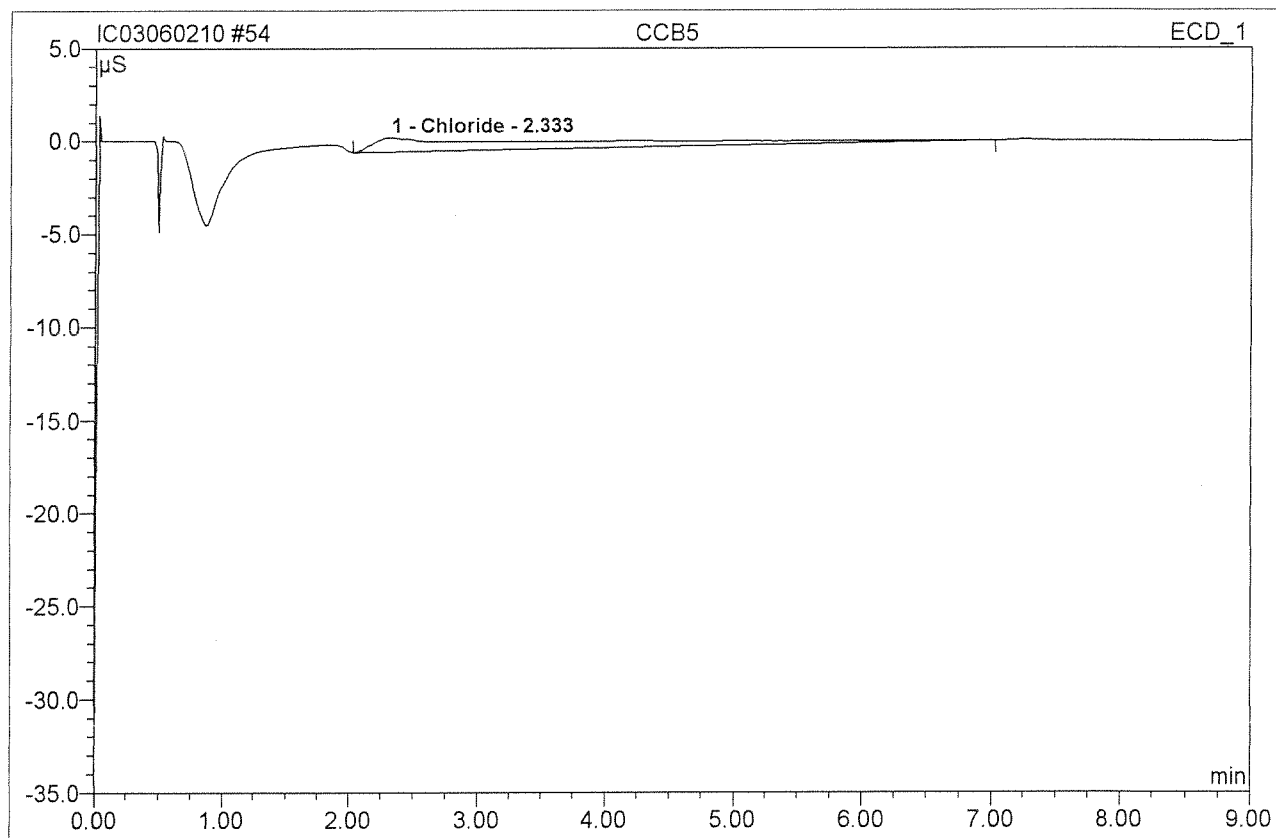
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

MB

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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

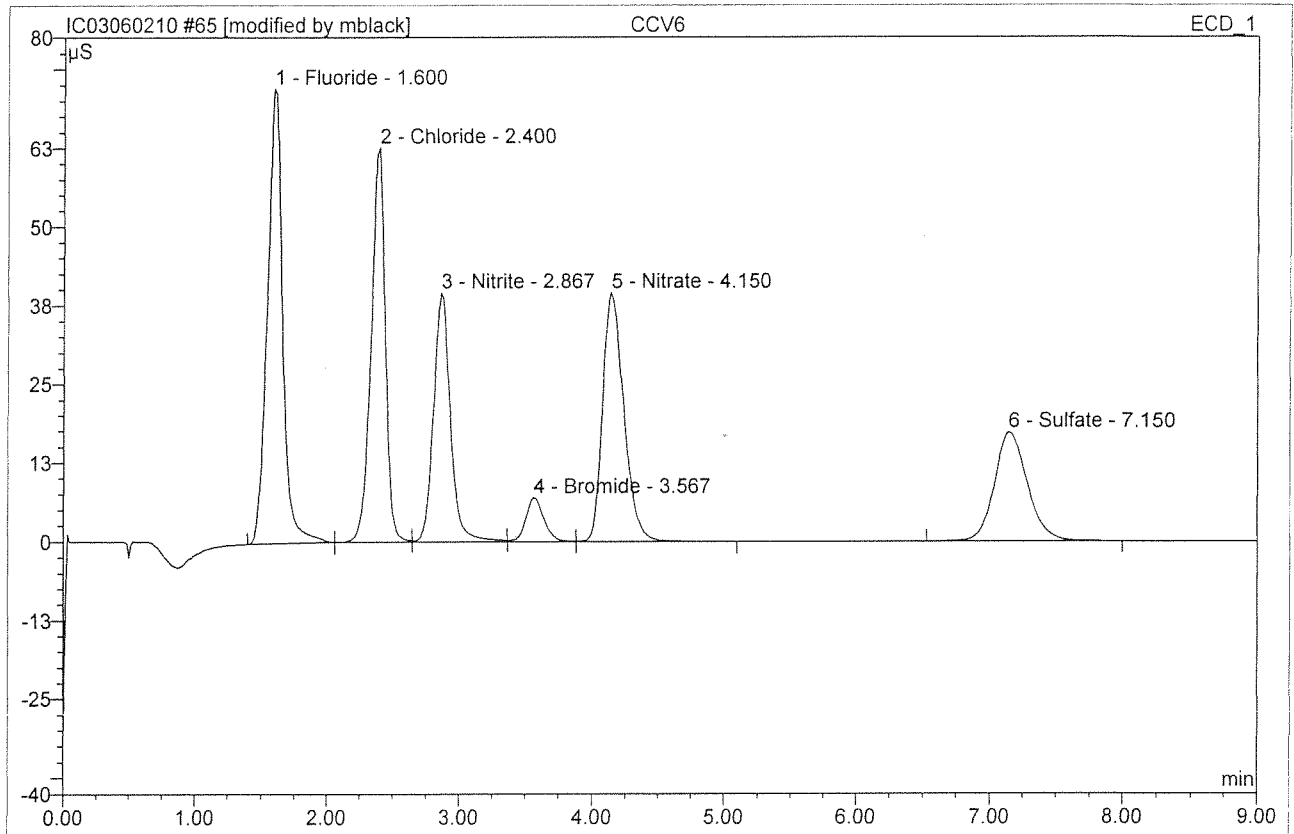


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.762	1.465	100.00	0.939	BMB
Total:			0.762	1.465	100.00	0.939	

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 ¹⁰²⁷	BMb*
2	2.40	Chloride	62.648	7.743	21.03	4.965 ⁹⁹²	bM *
3	2.87	Nitrite	39.566	5.910	16.05	2.047 ¹⁰³²	M *
4	3.57	Bromide	7.034	1.127	3.06	2.104 ¹⁰⁵²	M *
5	4.15	Nitrate	39.528	7.311	19.86	1.985 ¹⁰²⁷	MB
6	7.15	Sulfate	17.281	4.990	13.55	5.071 ¹⁰¹⁷	BMB
Total:			238.294	36.816	100.00	21.259	

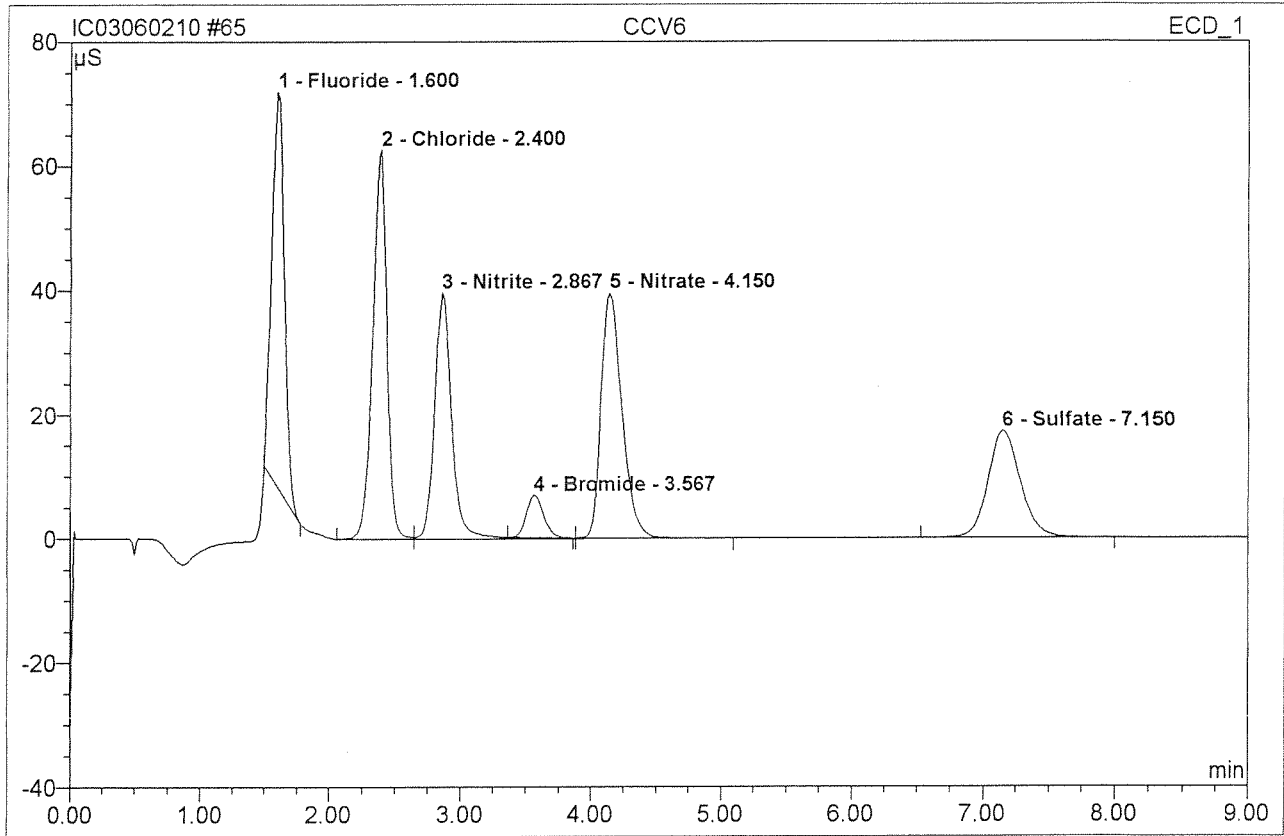
Alter
13

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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

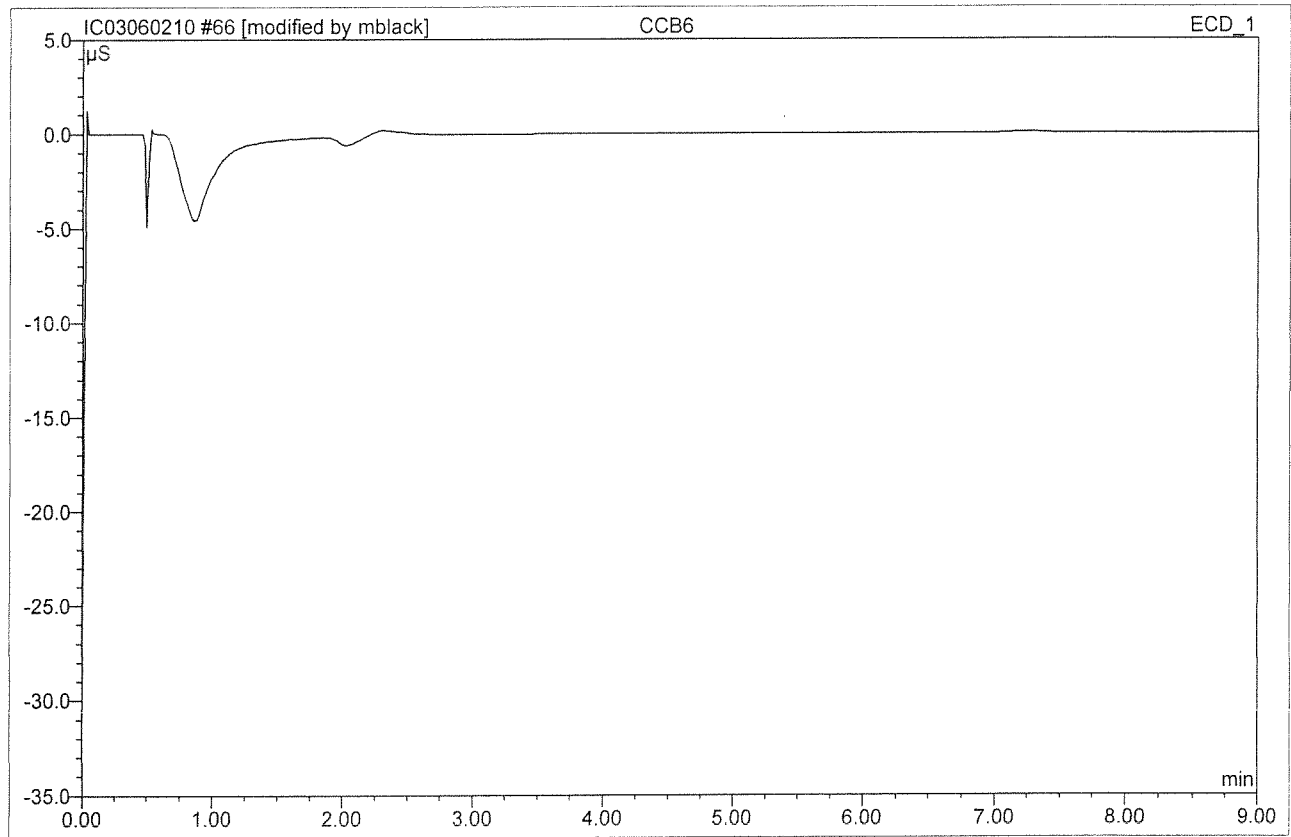


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	63.470	7.102	20.78	3.712	BMB
2	2.40	Chloride	62.648	7.743	22.65	4.965	BM
3	2.87	Nitrite	39.566	5.997	17.54	2.077	M
4	3.57	Bromide	6.847	1.040	3.04	1.942	Rd
5	4.15	Nitrate	39.528	7.311	21.39	1.985	MB
6	7.15	Sulfate	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

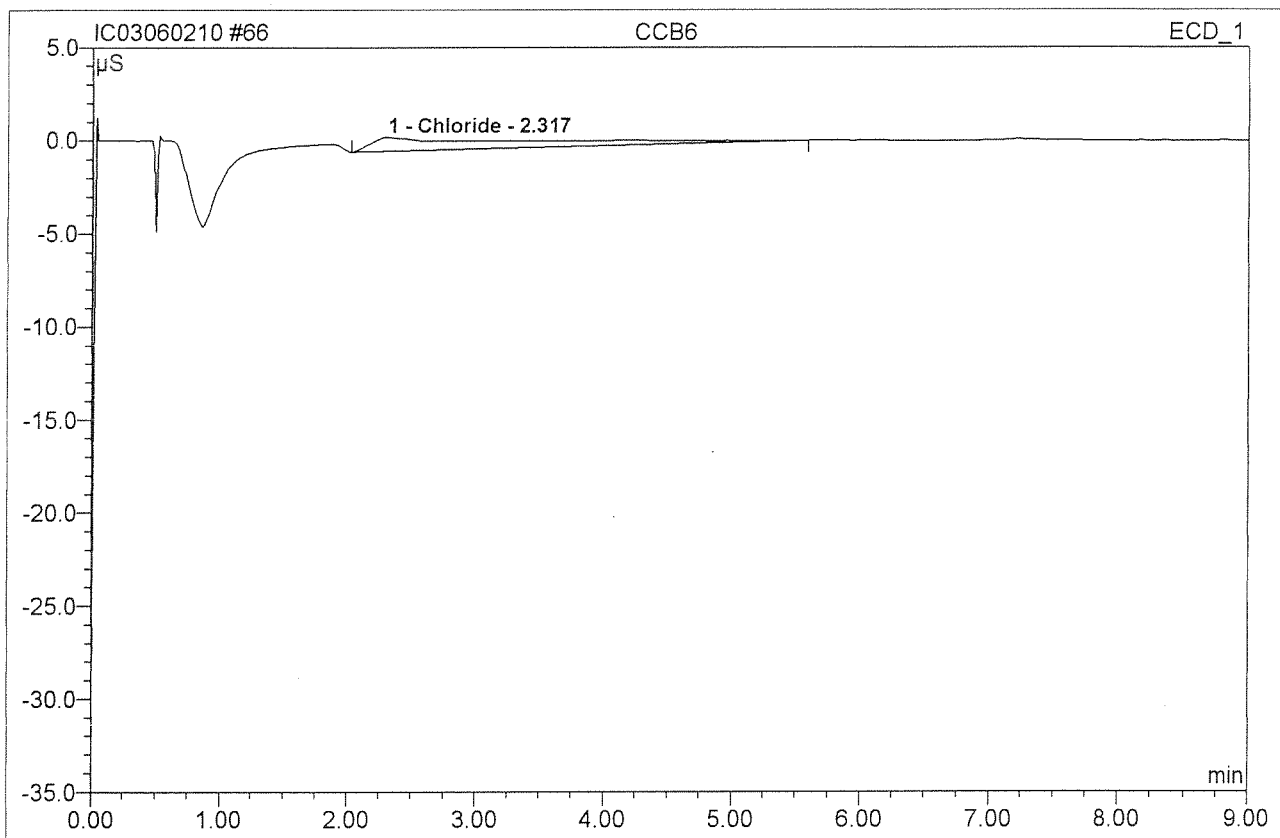


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	


 JUN 3 2010
 11:03 AM
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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

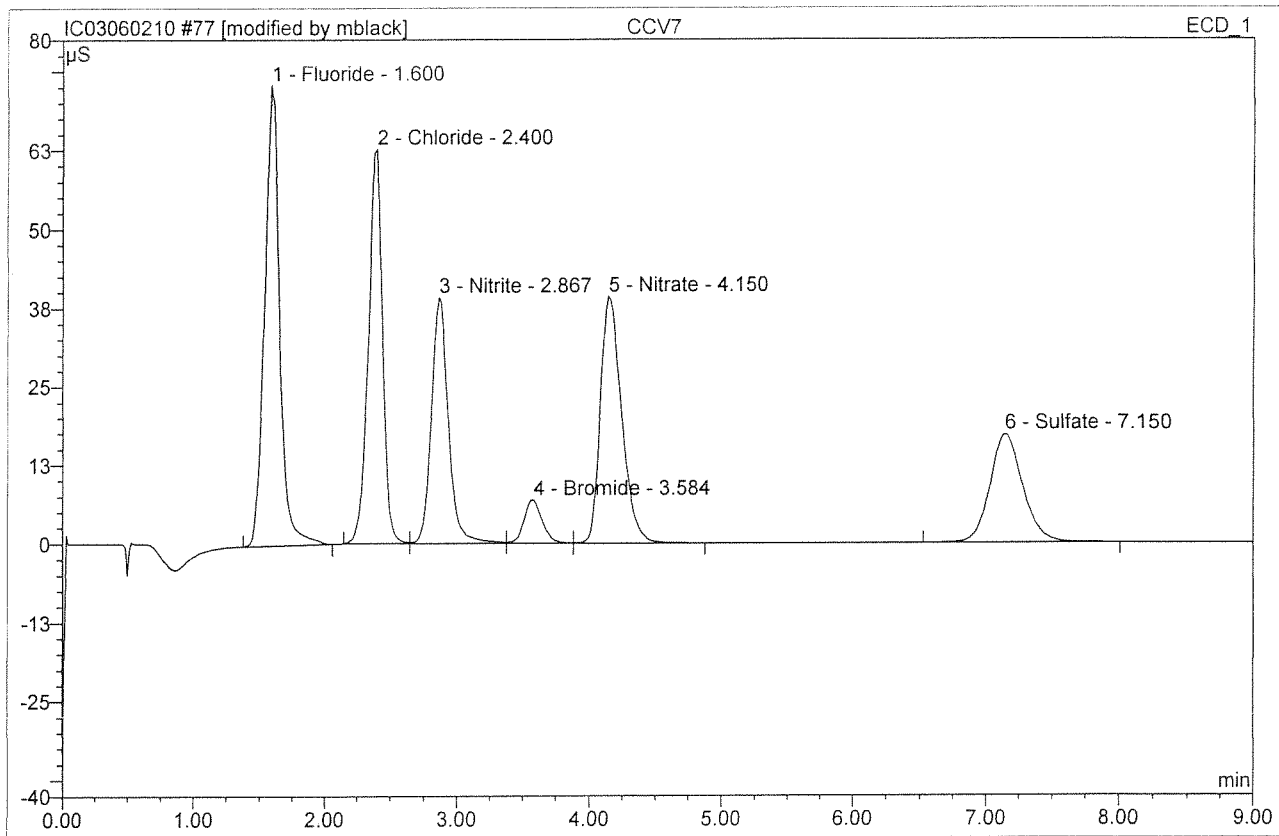


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.32	Chloride	0.744	1.015	100.00	0.651	BMB
Total:			0.744	1.015	100.00	0.651	

Retore

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

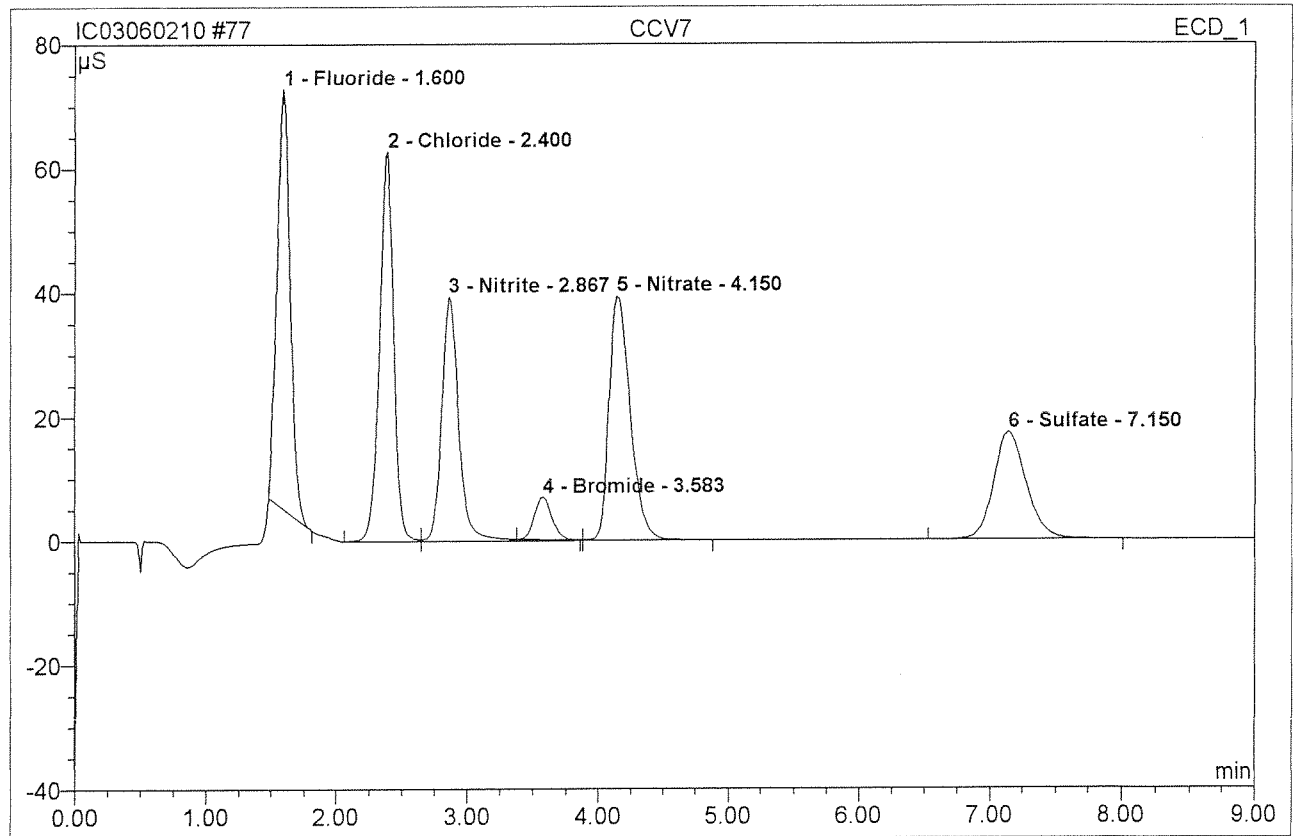


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	73.104	9.783	26.69	5.1131027	BMB*
2	2.40	Chloride	62.614	7.699	21.00	4.936997	BM *
3	2.87	Nitrite	39.177	5.834	15.91	2.0211017	M *
4	3.58	Bromide	6.912	1.103	3.01	2.0581037	M *
5	4.15	Nitrate	39.225	7.275	19.85	1.975997	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

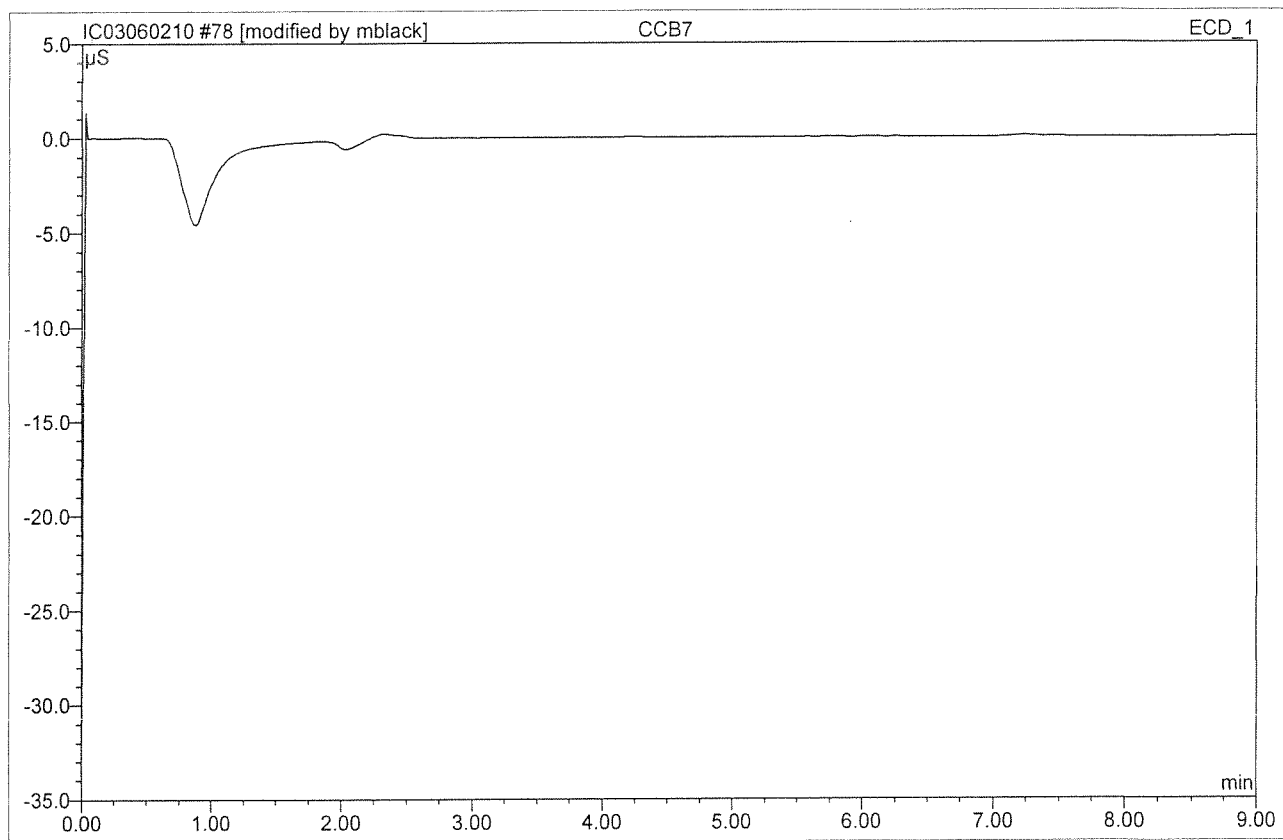


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.60	Fluoride	67.665	7.902	22.60	4.130	BMB
2	2.40	Chloride	62.733	7.762	22.20	4.977	BM
3	2.87	Nitrite	39.274	5.984	17.11	2.072	M
4	3.58	Bromide	6.792	1.049	3.00	1.958	Rd
5	4.15	Nitrate	39.260	7.299	20.88	1.981	MB
6	7.15	Sulfate	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

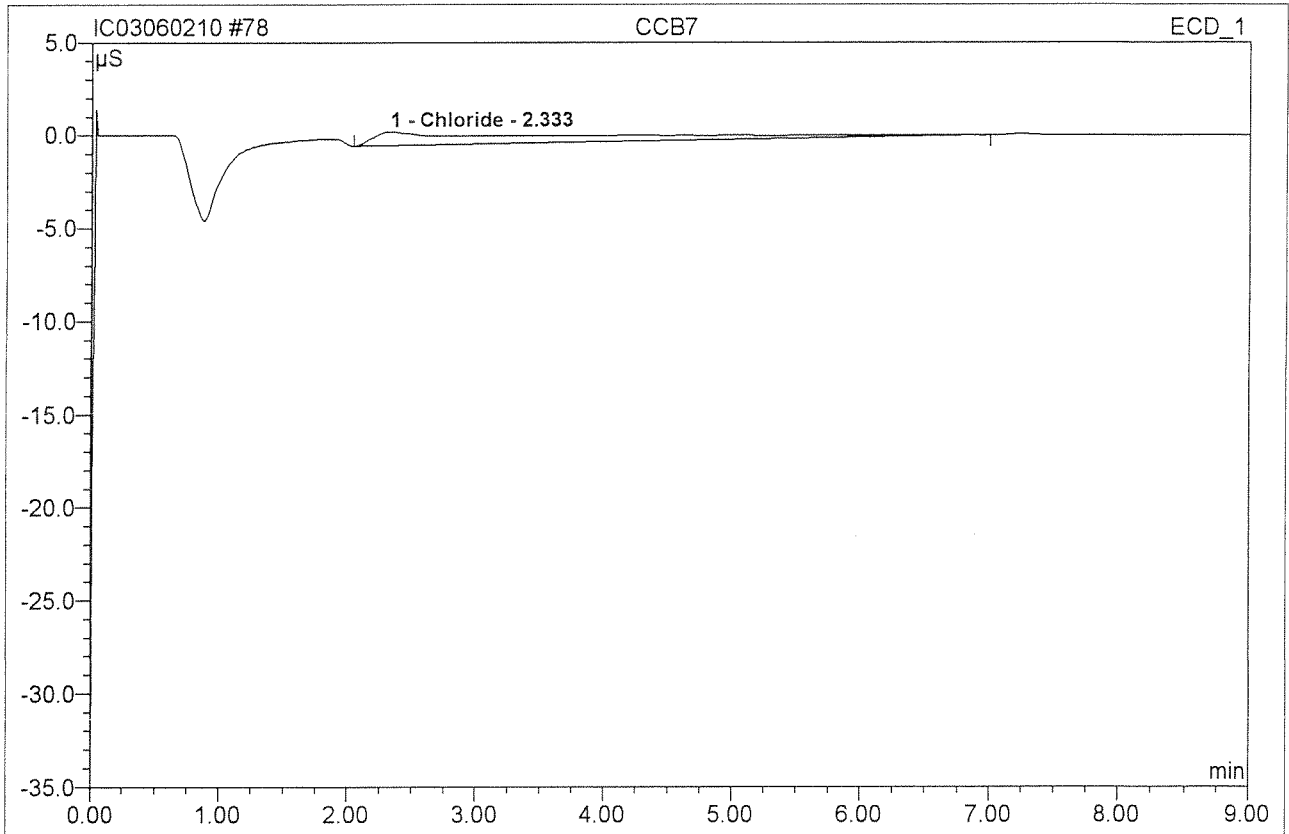


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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

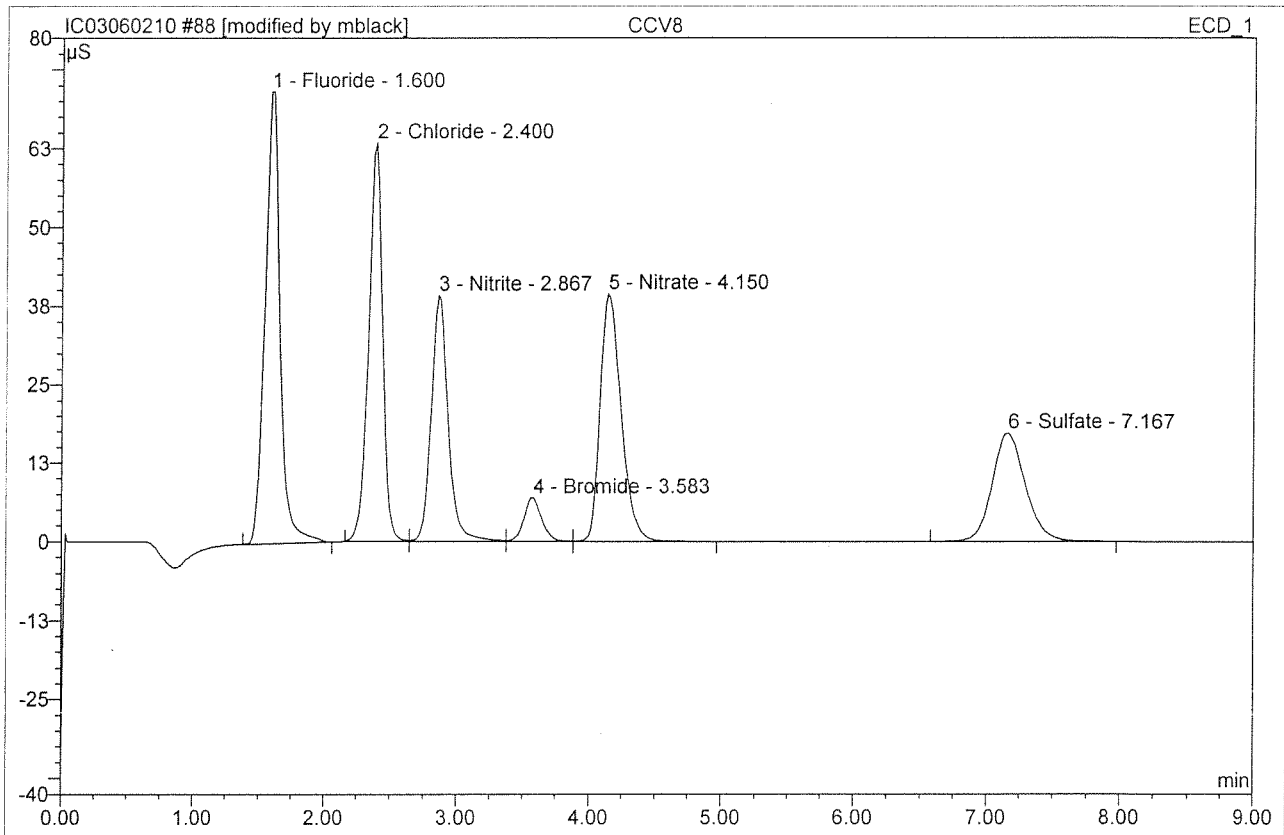


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.752	1.431	100.00	0.917	BMB
Total:			0.752	1.431	100.00	0.917	

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

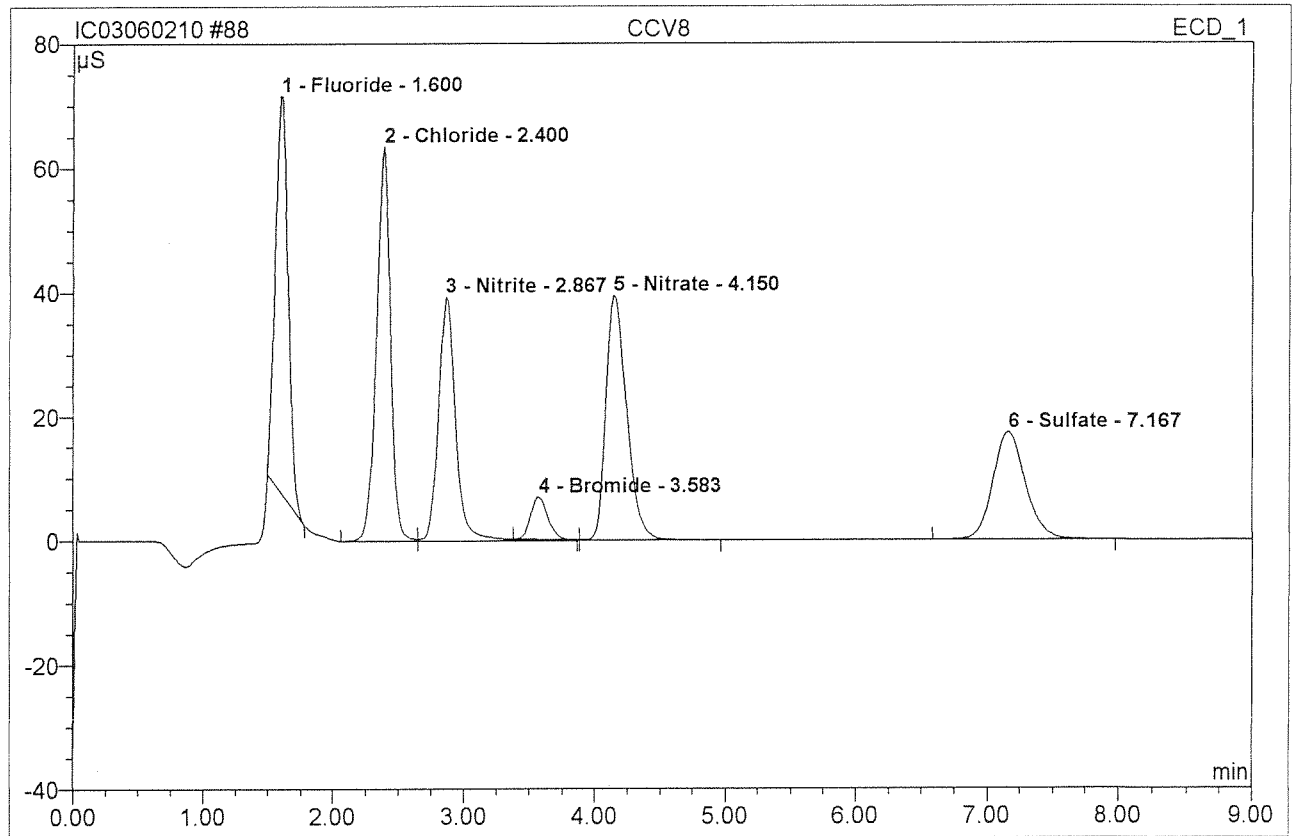


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	71.841	9.702	26.60	5.071101?	BMB*
2	2.40	Chloride	63.324	7.667	21.02	4.91648?	BM *
3	2.87	Nitrite	39.118	5.792	15.88	2.006101?	M *
4	3.58	Bromide	6.874	1.084	2.97	2.024101?	M *
5	4.15	Nitrate	39.378	7.231	19.82	1.96348?	MB*
6	7.17	Sulfate	17.282	5.003	13.71	5.084102?	BMB
Total:			237.819	36.481	100.00	21.064	

(Handwritten initials)

6/14/10

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

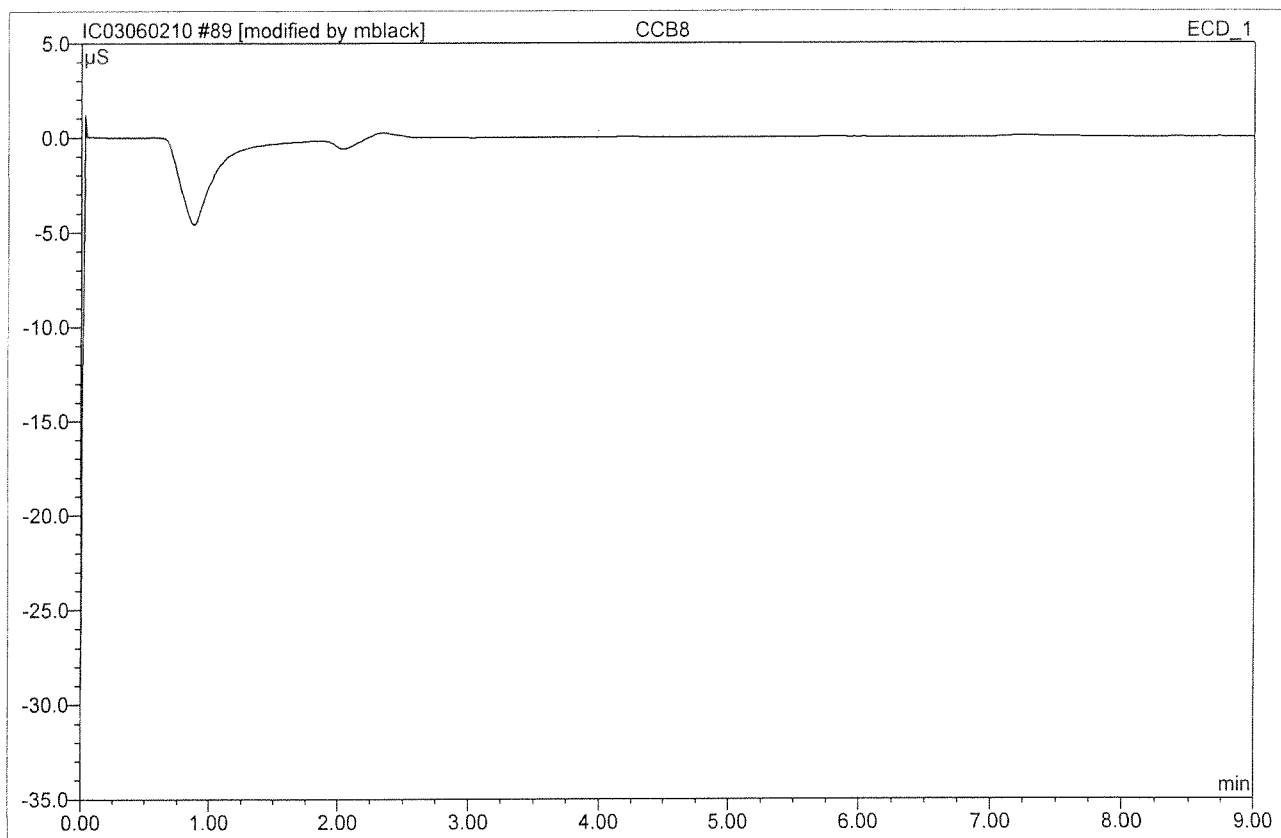


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	63.682	7.218	21.06	3.773	BMB
2	2.40	Chloride	63.500	7.758	22.64	4.975	BM
3	2.87	Nitrite	39.263	5.973	17.43	2.069	M
4	3.58	Bromide	6.788	1.047	3.06	1.955	Rd
5	4.15	Nitrate	39.435	7.271	21.22	1.974	MB
6	7.17	Sulfate	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

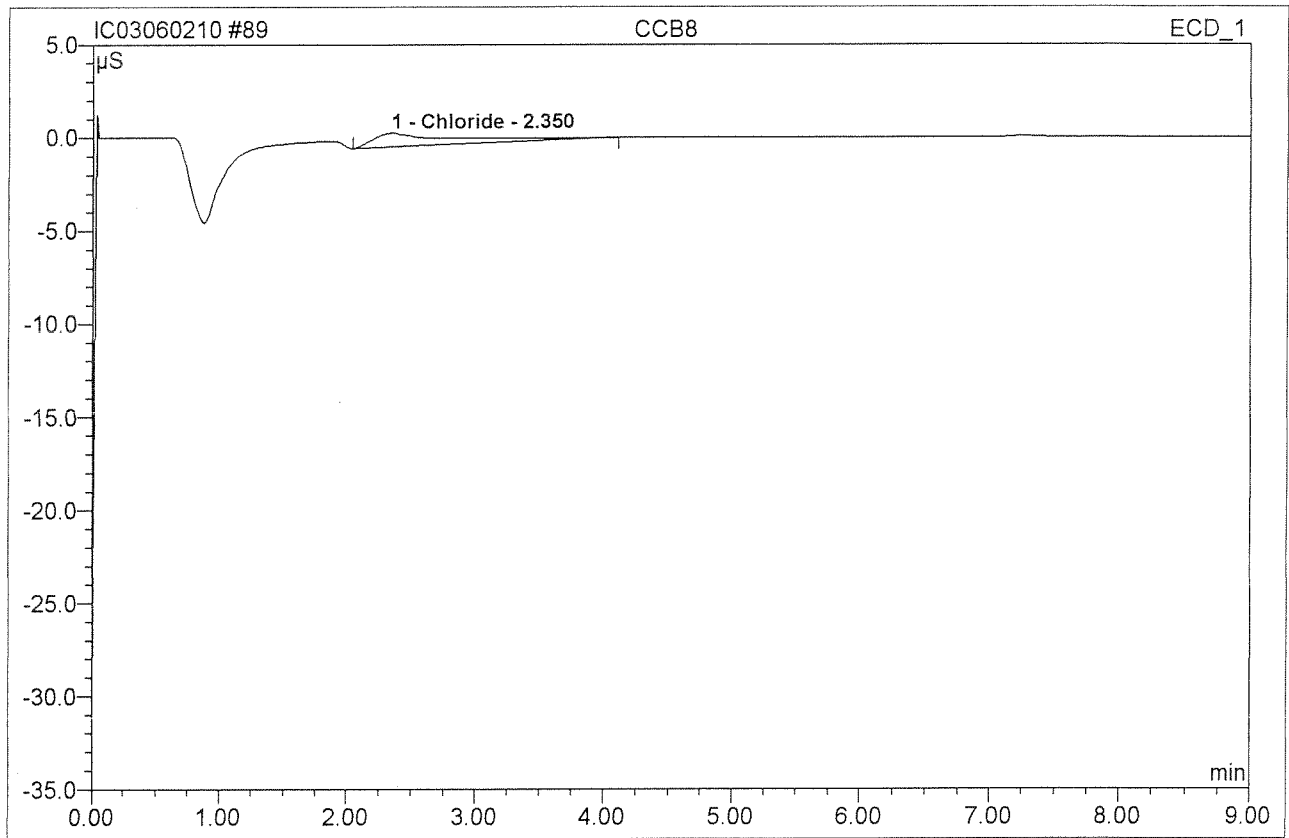


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

MB

06/4/10

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.

644133116

COLUMBIA ANALYTICAL SERVICES, INC.

Ion Chromatography Calibration Data

Sequence: IC03042610

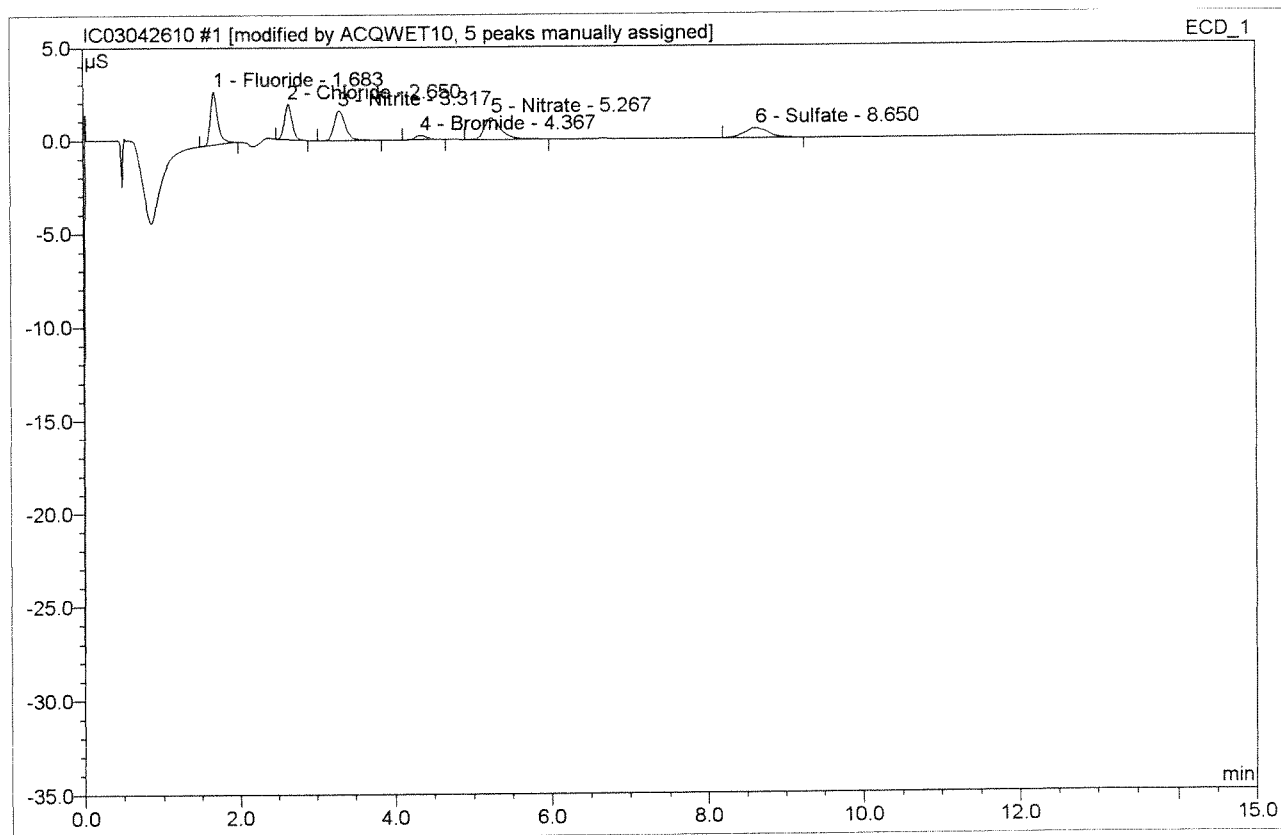
Date: 04/26/10

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.

6/24/10

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	2.860	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	

After Initials

MB

BA9108104

APR 25 2010

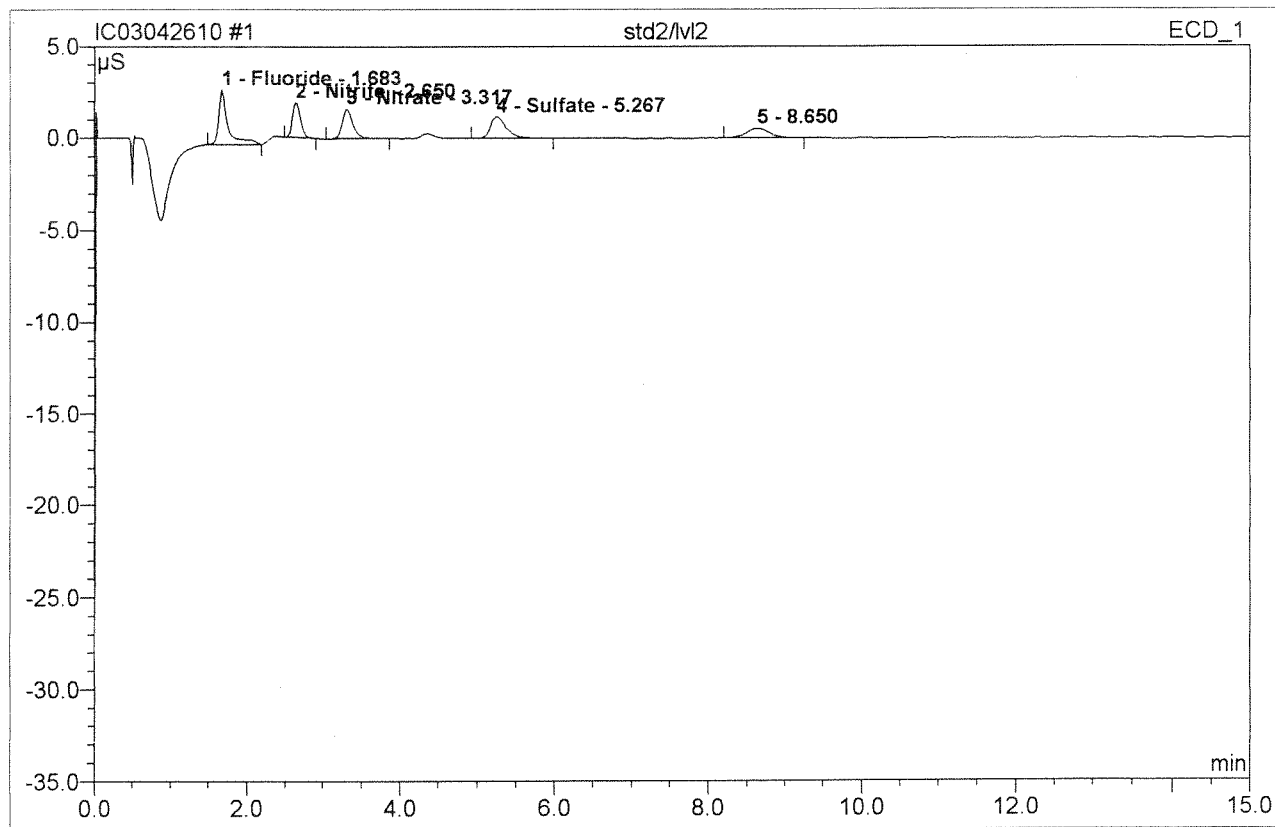
Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

default/Integration

View Data File and Report
240

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

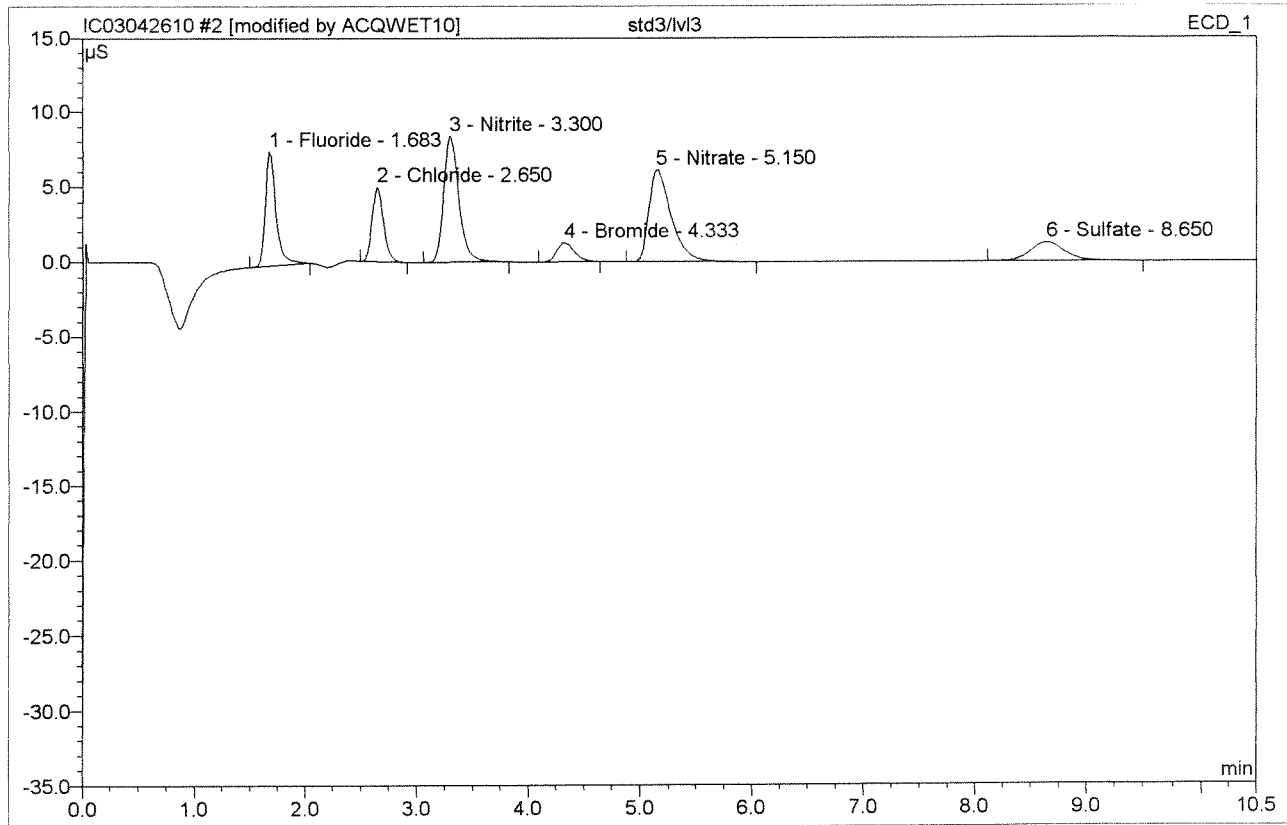


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	2.953	0.421	30.83	0.200	BMB
2	2.65	Nitrite	1.892	0.229	16.78	0.100	BMB
3	3.32	Nitrate	1.586	0.259	19.00	0.100	BMB
4	5.27	Sulfate	1.144	0.279	20.42	0.200	BMB
5	8.65	n.a.	0.507	0.177	12.97	n.a.	BMB
Total:			8.081	1.366	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	

After
checks *AB*

6/17/10/10

APR 25 2010

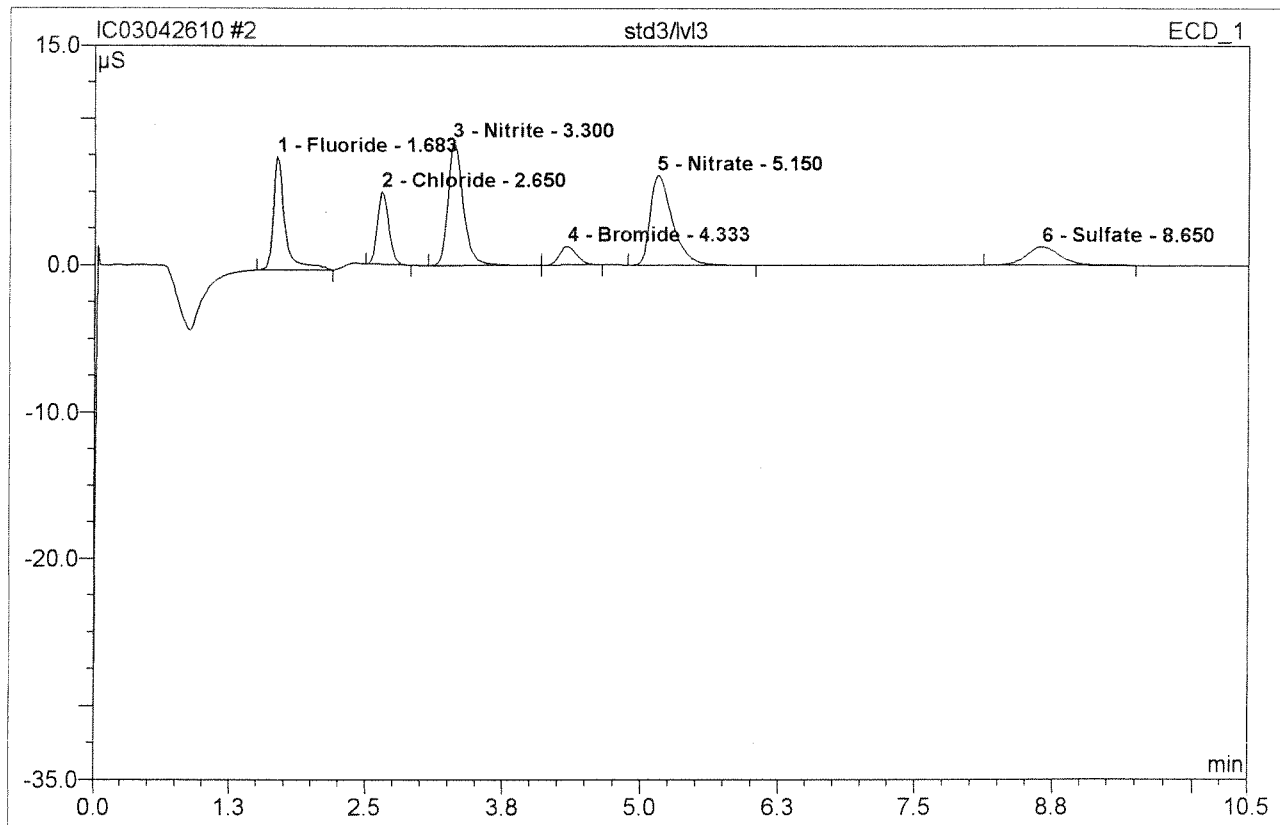
Chromleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

default/Integration

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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

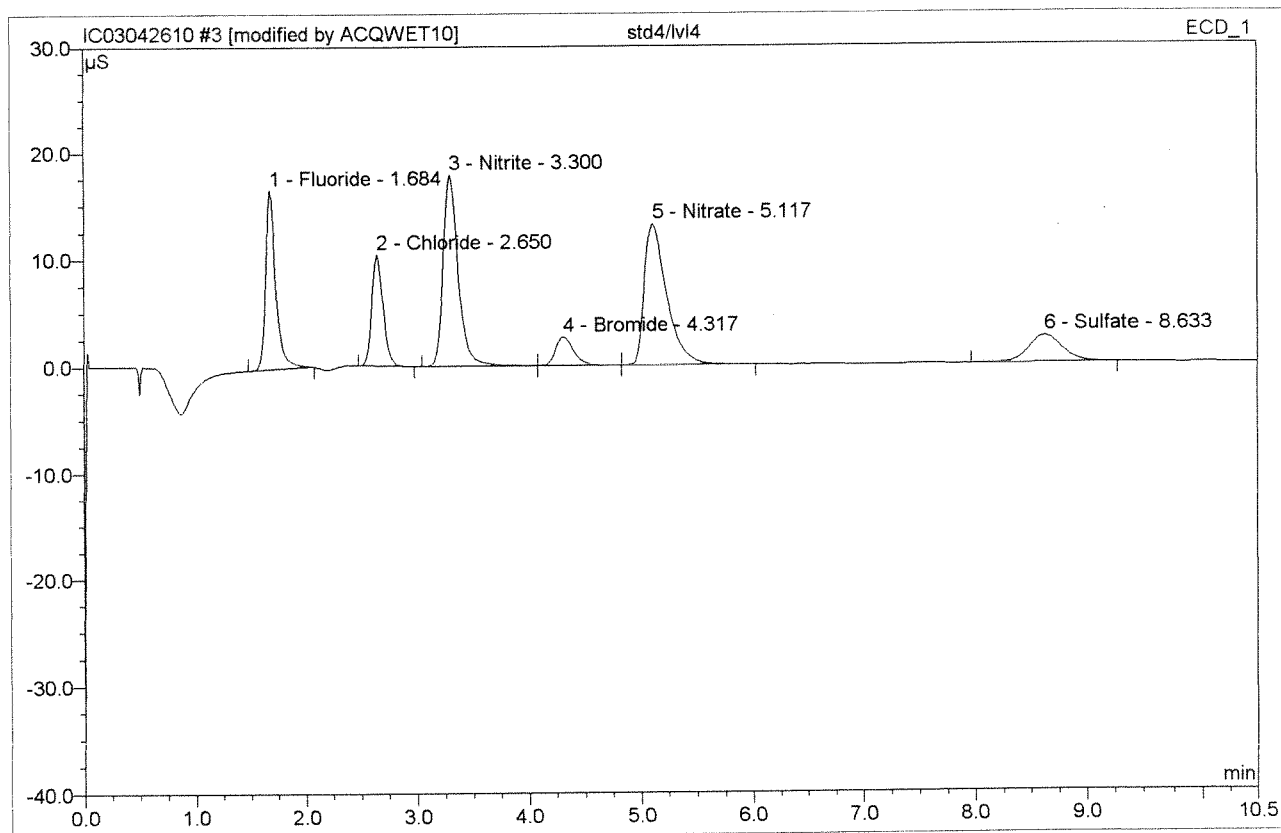


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.68	Fluoride	7.720	0.949	19.04	0.510	BMB
2	2.65	Chloride	4.937	0.589	11.82	0.502	BMB
3	3.30	Nitrite	8.377	1.347	27.02	0.501	BMB
4	4.33	Bromide	1.271	0.229	4.60	0.501	bMB
5	5.15	Nitrate	6.087	1.425	28.59	0.500	BMB
6	8.65	Sulfate	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



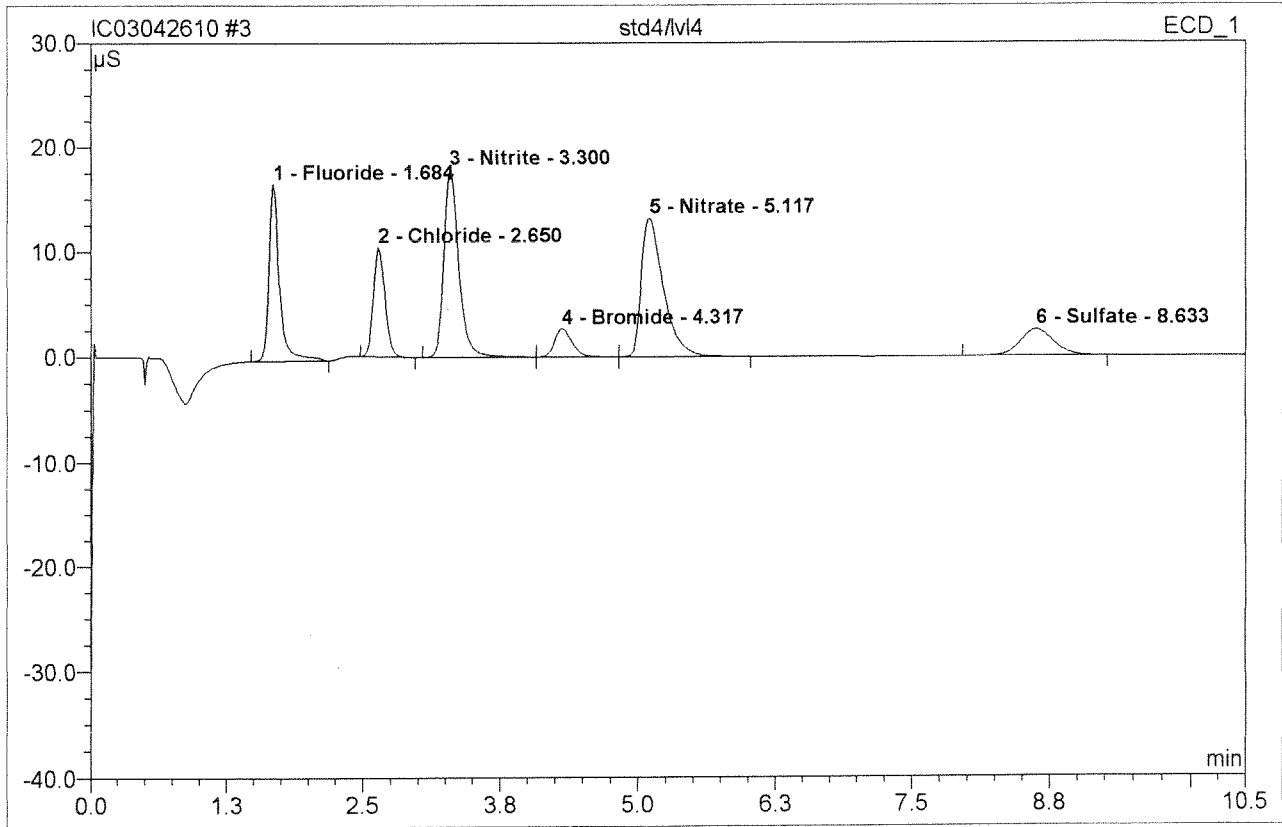
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	16.676	1.811	17.64	0.947	BMB*
2	2.65	Chloride	10.365	1.223	11.91	0.784	BMB
3	3.30	Nitrite	17.874	2.814	27.40	0.975	BMB
4	4.32	Bromide	2.661	0.487	4.74	0.908	bMB
5	5.12	Nitrate	13.149	3.046	29.66	0.827	bMB
6	8.63	Sulfate	2.522	0.888	8.65	0.903	BMB
Total:			63.248	10.270	100.00	5.343	

After
match *AB*

01-1108110

APR 23 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

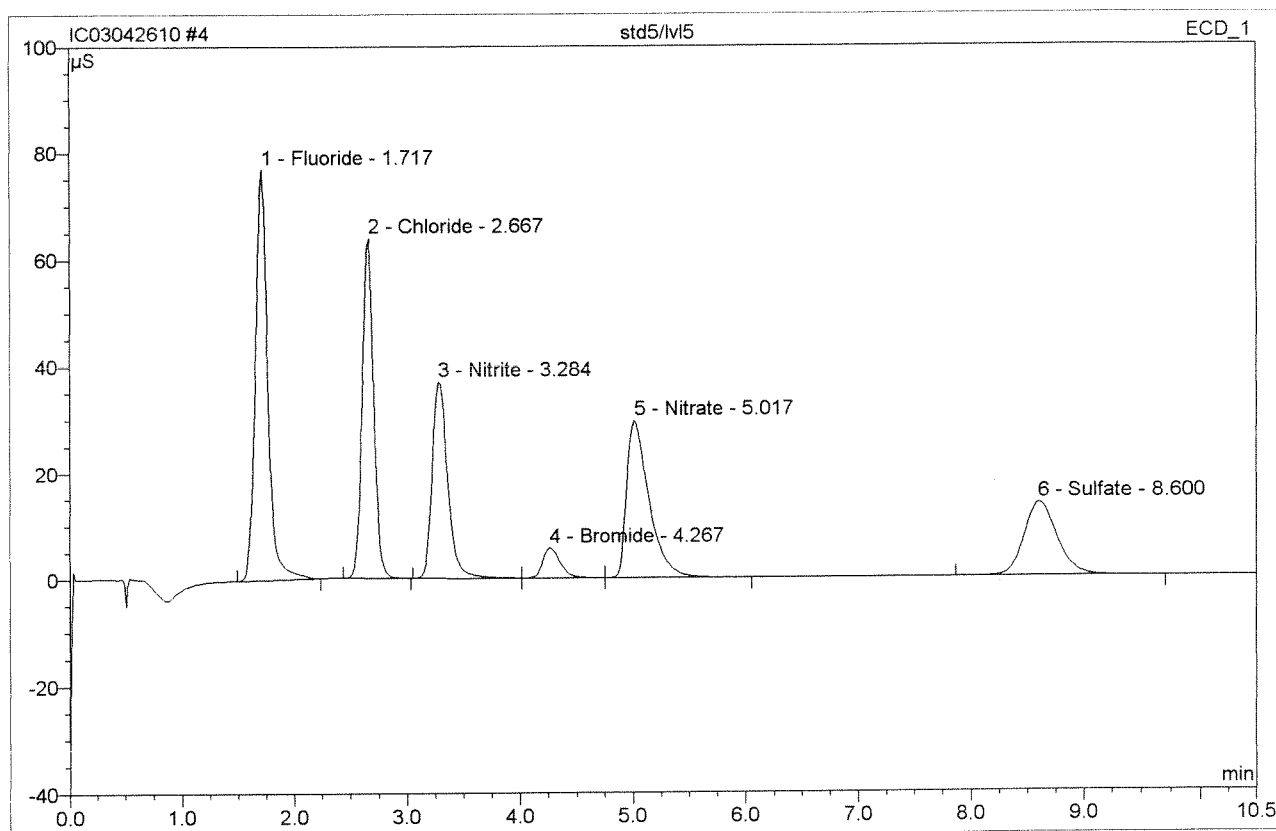


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	16.774	1.915	18.46	1.007	BMB
2	2.65	Chloride	10.365	1.223	11.79	1.009	BMB
3	3.30	Nitrite	17.874	2.814	27.13	1.009	BMb
4	4.32	Bromide	2.661	0.487	4.69	1.012	bMb
5	5.12	Nitrate	13.149	3.046	29.36	1.014	bMB
6	8.63	Sulfate	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	

After Initial *MS*

674138116

default/Integration

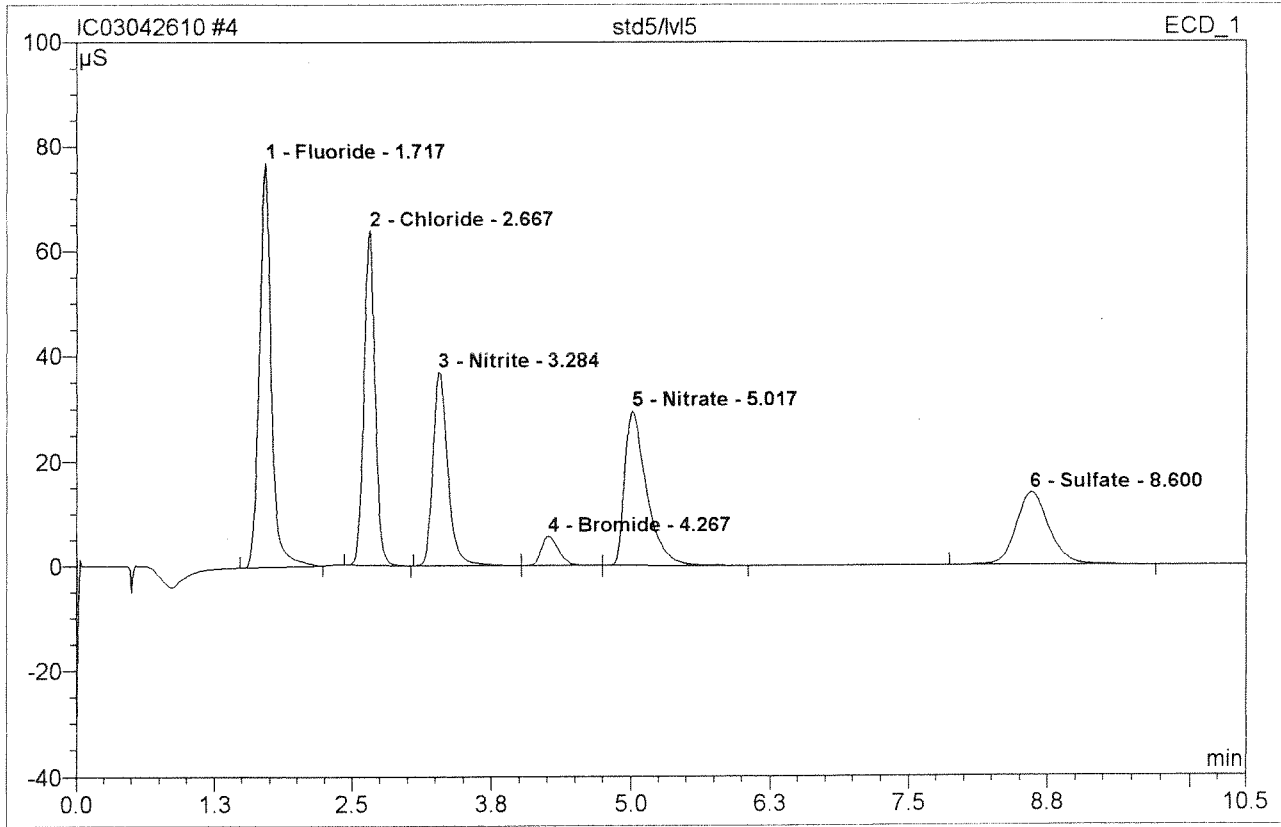
APR 28 2010

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

Printing Report to File

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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



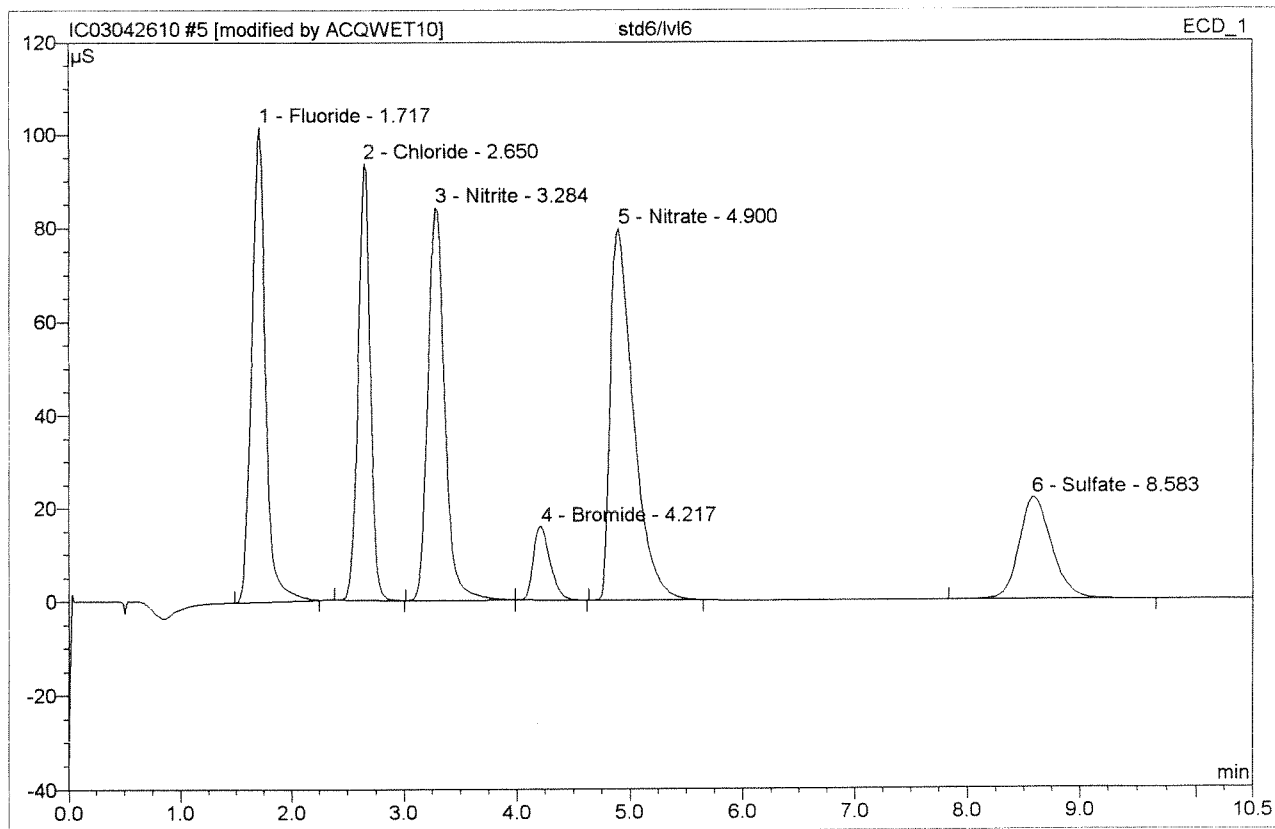
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.72	Fluoride	76.994	9.731	27.38	5.005	BMB
2	2.67	Chloride	63.721	7.472	21.02	5.047	BMB
3	3.28	Nitrite	36.986	5.862	16.49	2.024	BMb
4	4.27	Bromide	5.677	1.007	2.83	2.022	bMb
5	5.02	Nitrate	29.541	6.754	19.00	2.054	bMB
6	8.60	Sulfate	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

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



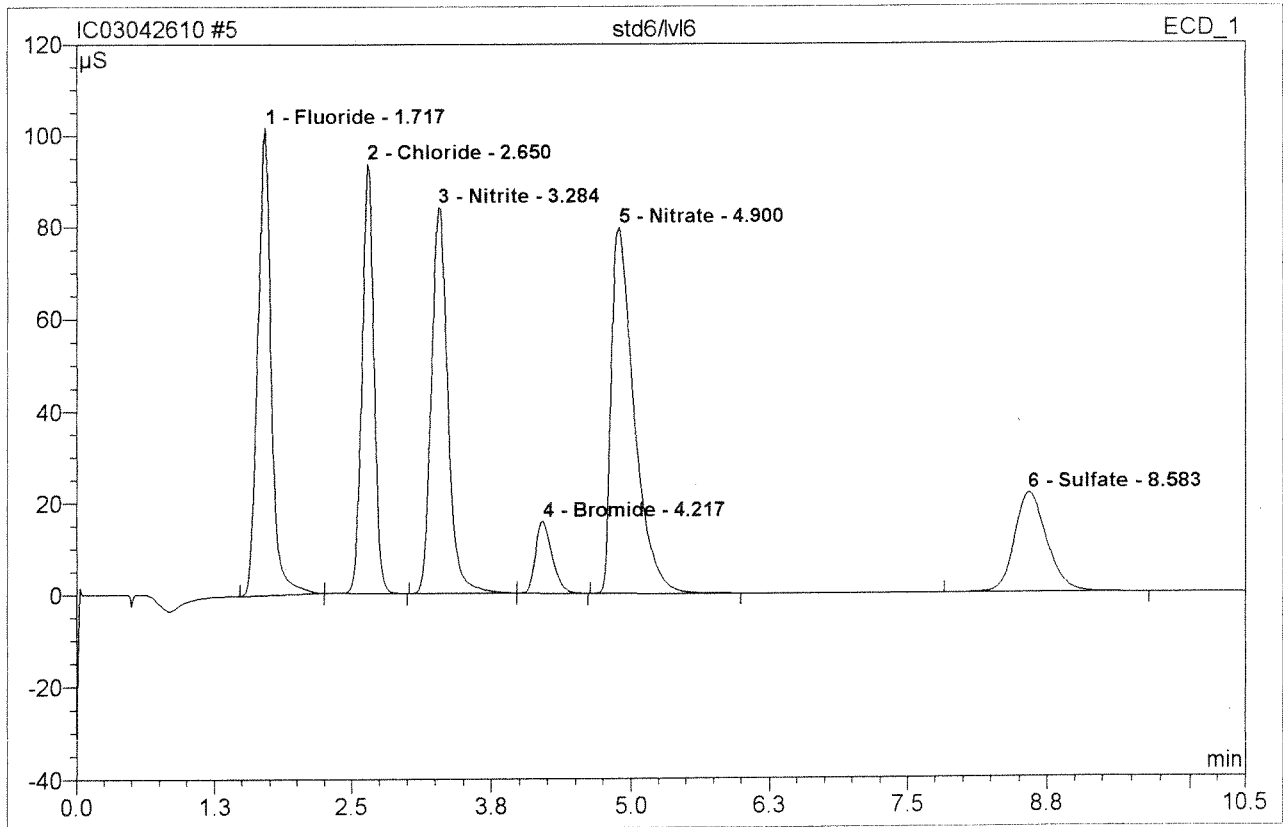
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.72	Fluoride	101.686	14.494	20.88	7.575	BMB*
2	2.65	Chloride	93.434	11.601	16.71	7.439	BMB*
3	3.28	Nitrite	84.060	14.428	20.79	4.997	BMB
4	4.22	Bromide	15.785	2.719	3.92	5.074	bMB
5	4.90	Nitrate	79.649	18.837	27.14	5.113	BMB*
6	8.58	Sulfate	21.861	7.333	10.56	7.452	BMB
Total:			396.475	69.412	100.00	37.650	

After
initiate *MB*

61-112510

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



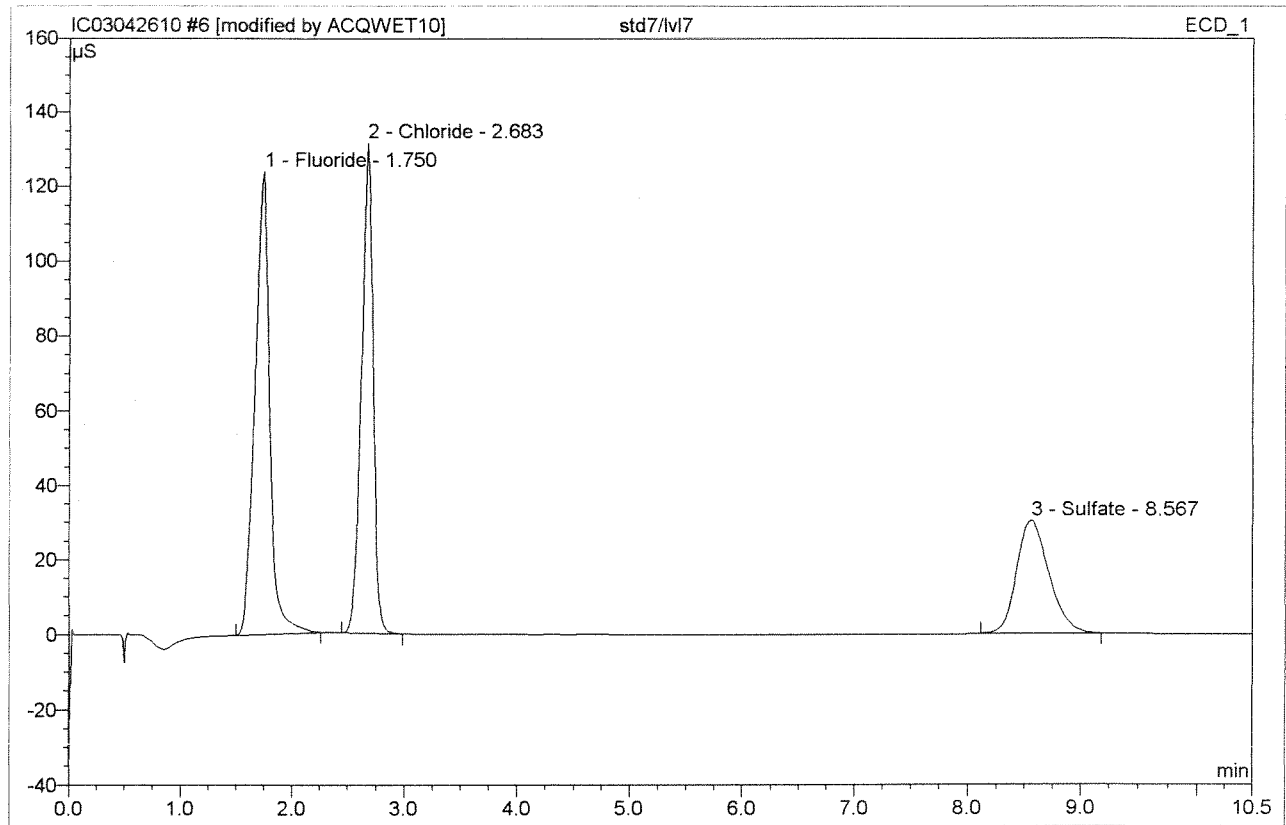
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.72	Fluoride	101.686	14.494	20.85	7.486	BMB
2	2.65	Chloride	93.503	11.647	16.75	7.613	bMB
3	3.28	Nitrite	84.060	14.428	20.76	4.997	BMB
4	4.22	Bromide	15.785	2.719	3.91	5.074	bMB
5	4.90	Nitrate	79.672	18.892	27.18	5.115	BMB
6	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/lv17			
Sample Name:	std7/lv17	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



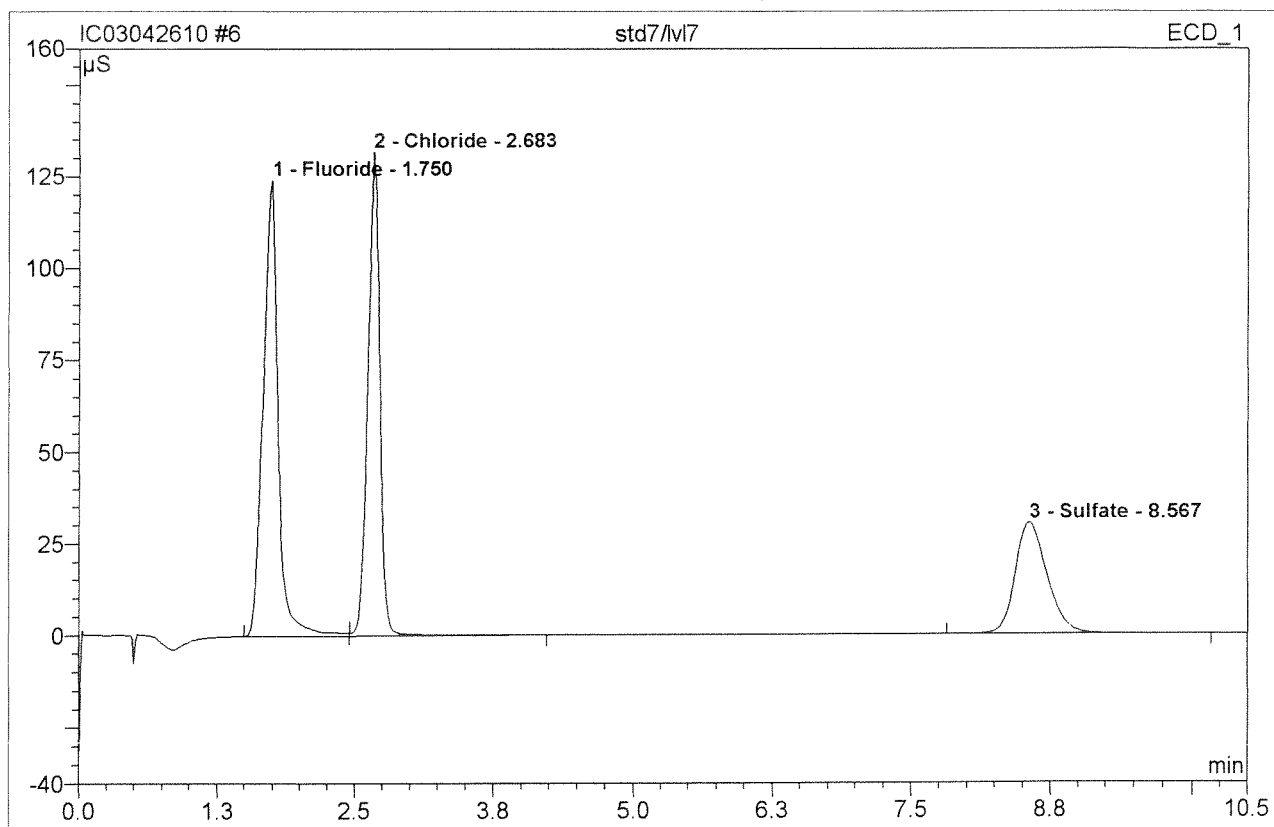
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.75	Fluoride	123.905	18.962	42.30	9.910	BMB*
2	2.68	Chloride	131.265	15.874	35.41	10.179	BMB*
3	8.57	Sulfate	30.278	9.990	22.29	10.151	BMB*
Total:			285.448	44.826	100.00	30.240	

APR 26 2010
10:37 AM
ACQWET10

5-1125/10

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

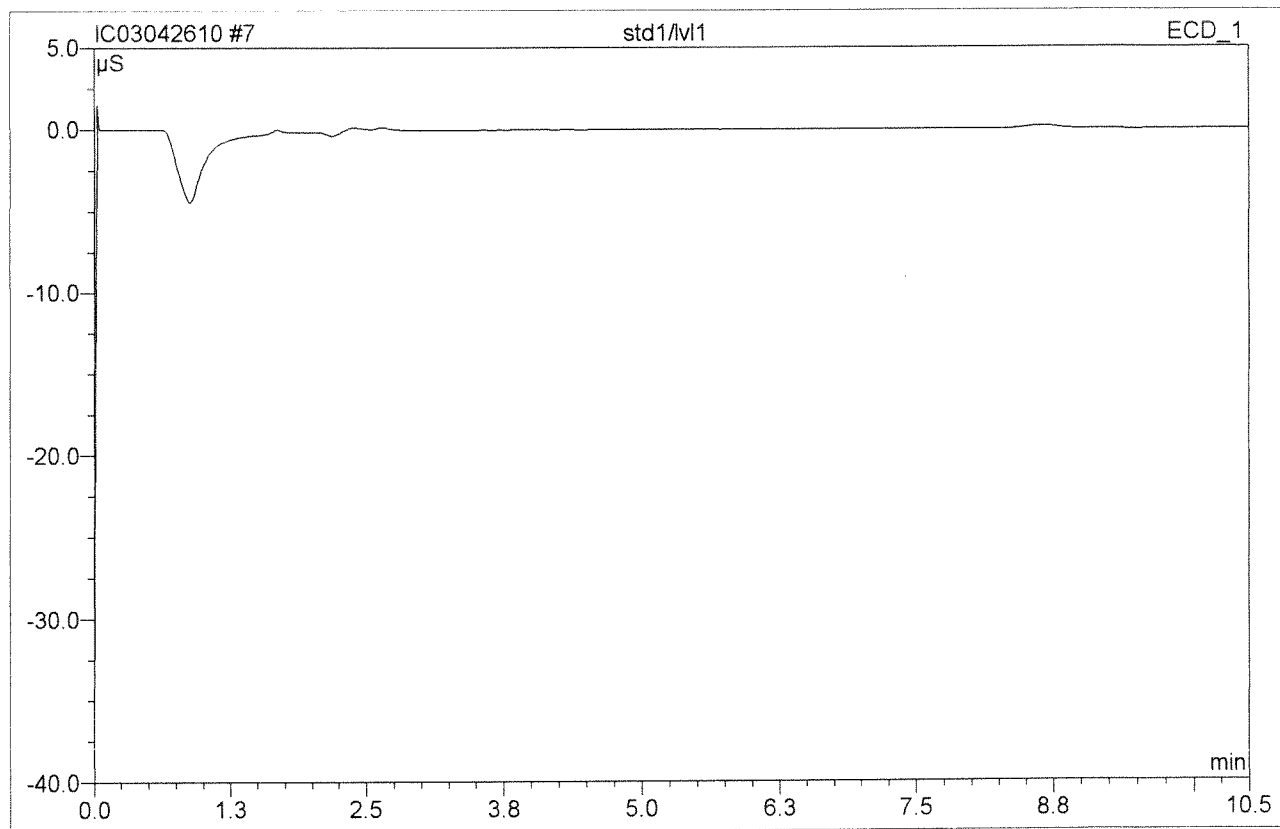


No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount	Type
1	1.75	Fluoride	124.185	19.437	42.28	10.022	BM
2	2.68	Chloride	131.836	16.307	35.47	10.300	MB
3	8.57	Sulfate	30.454	10.233	22.26	10.259	BMB
Total:			286.475	45.977	100.00	30.581	

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

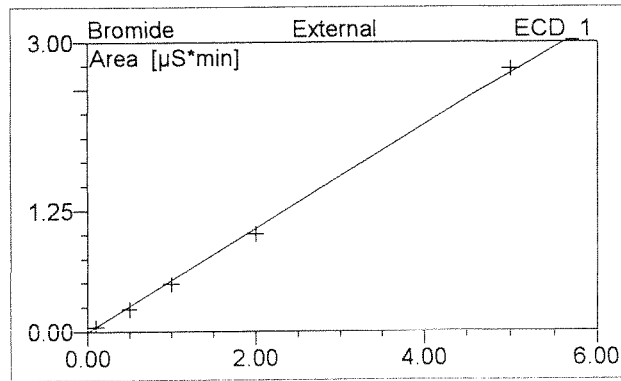
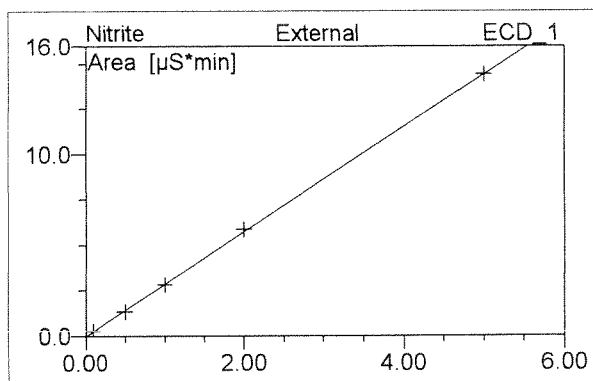
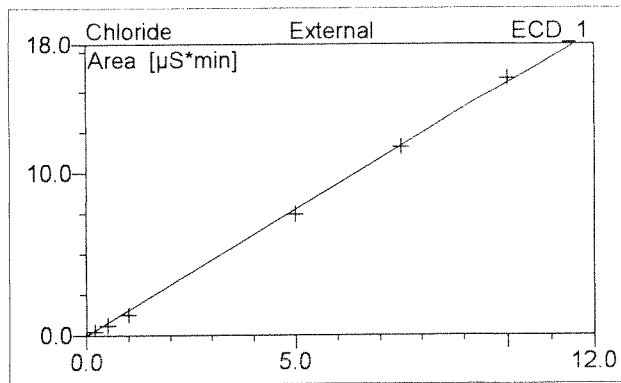
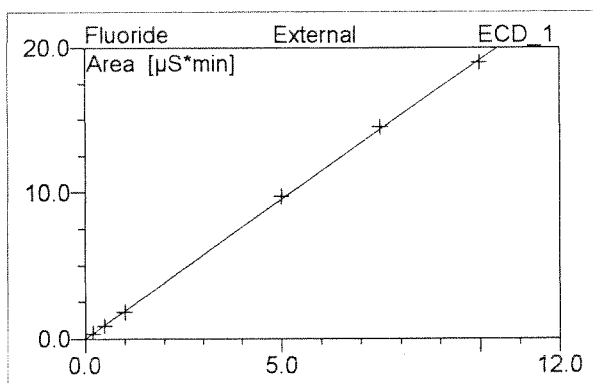


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

BAH/10

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

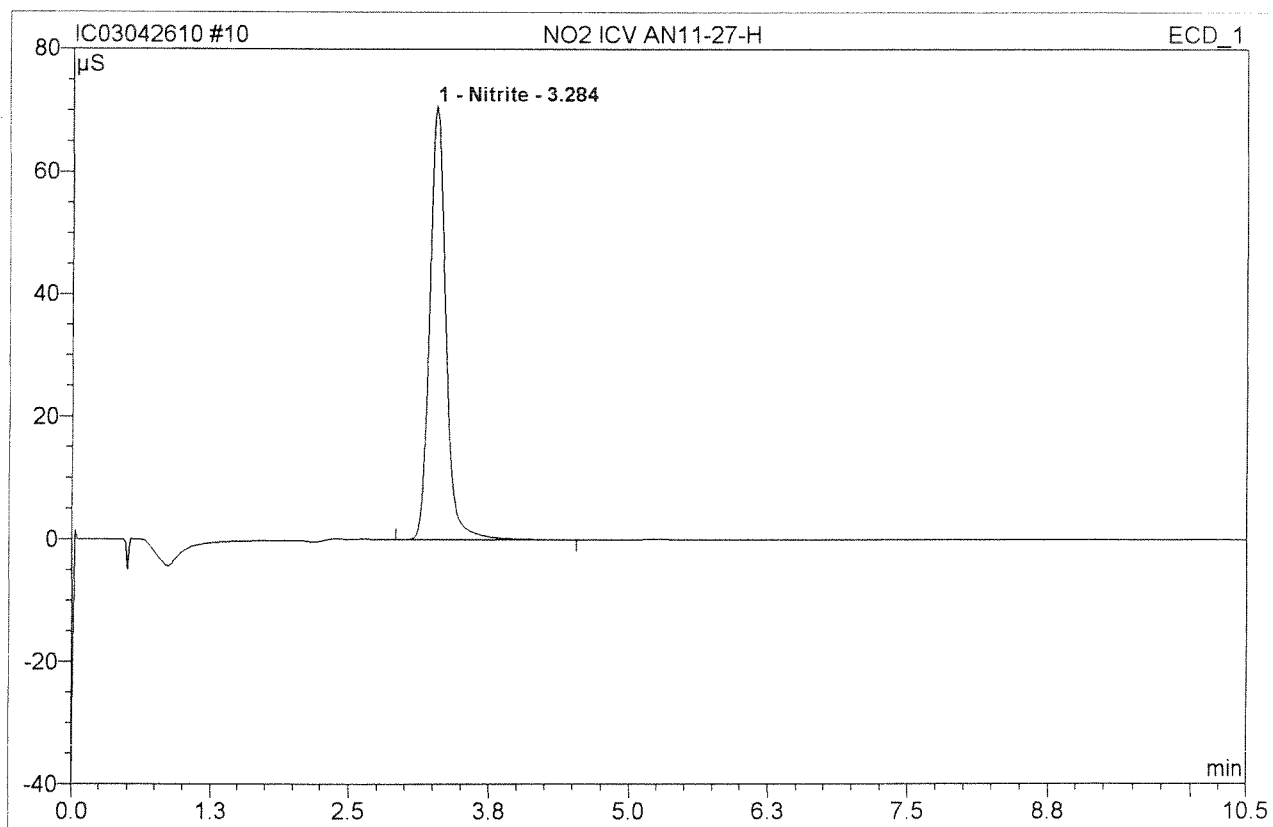


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
Average:					n.a.	n.a.	n.a.	n.a.

4/26/10

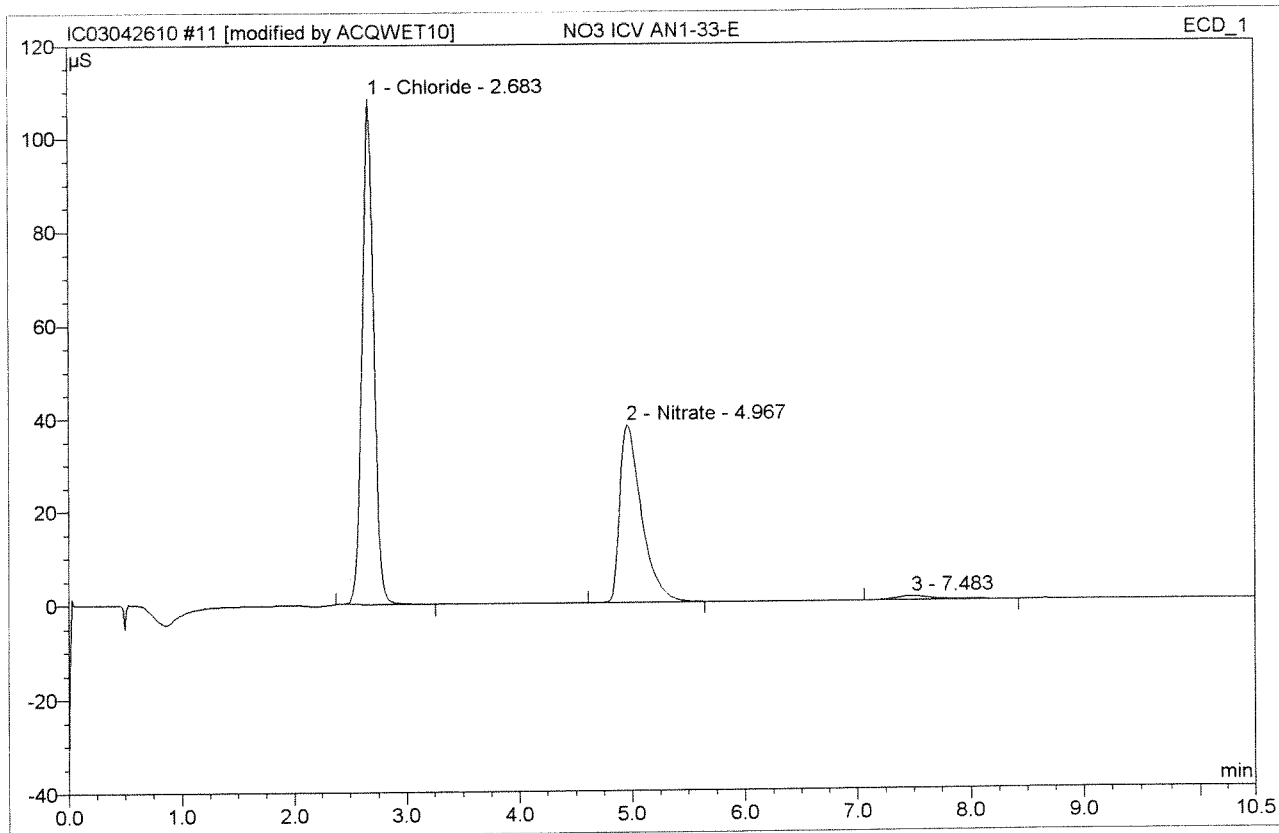
10 NO2 ICV AN11-27-H**NO2 ICV**

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	

APR 26 2010
MS

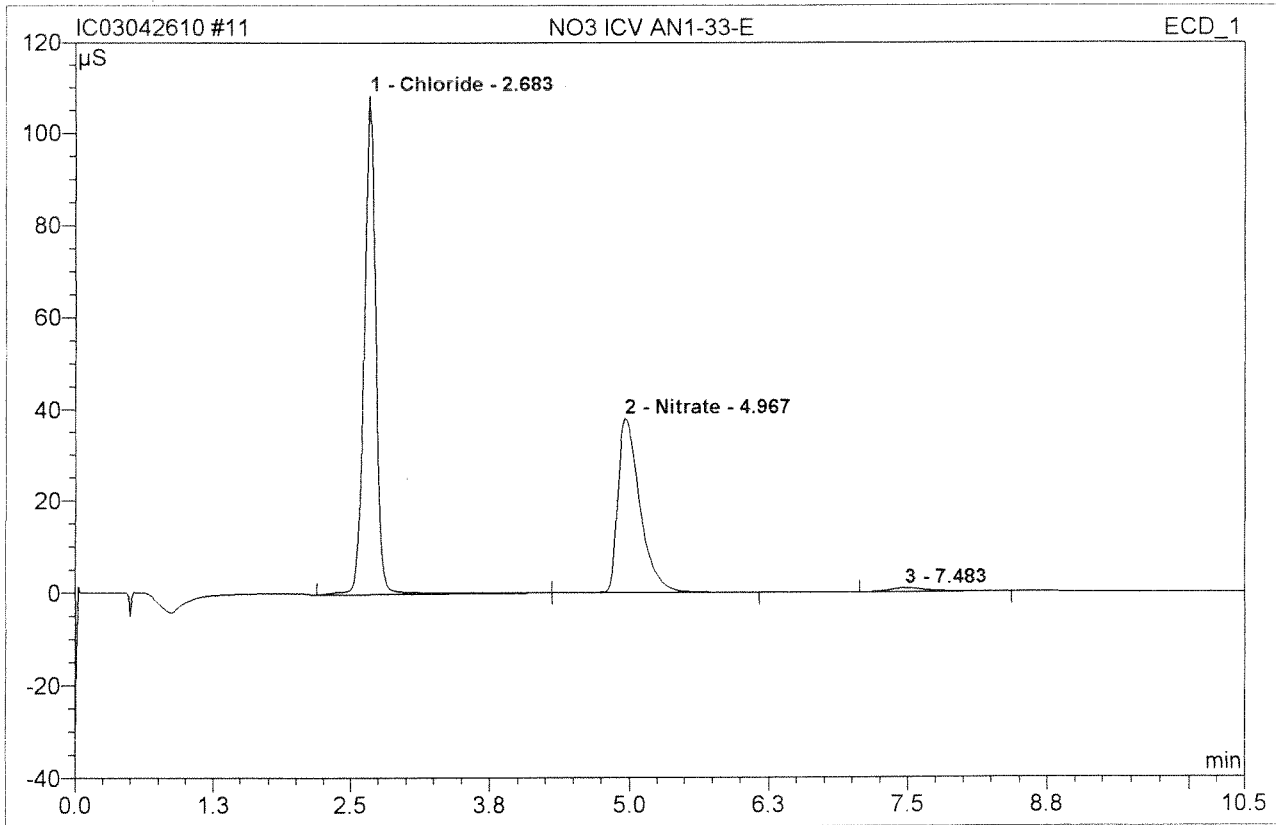
APR 26 2010

3-4128/14

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	

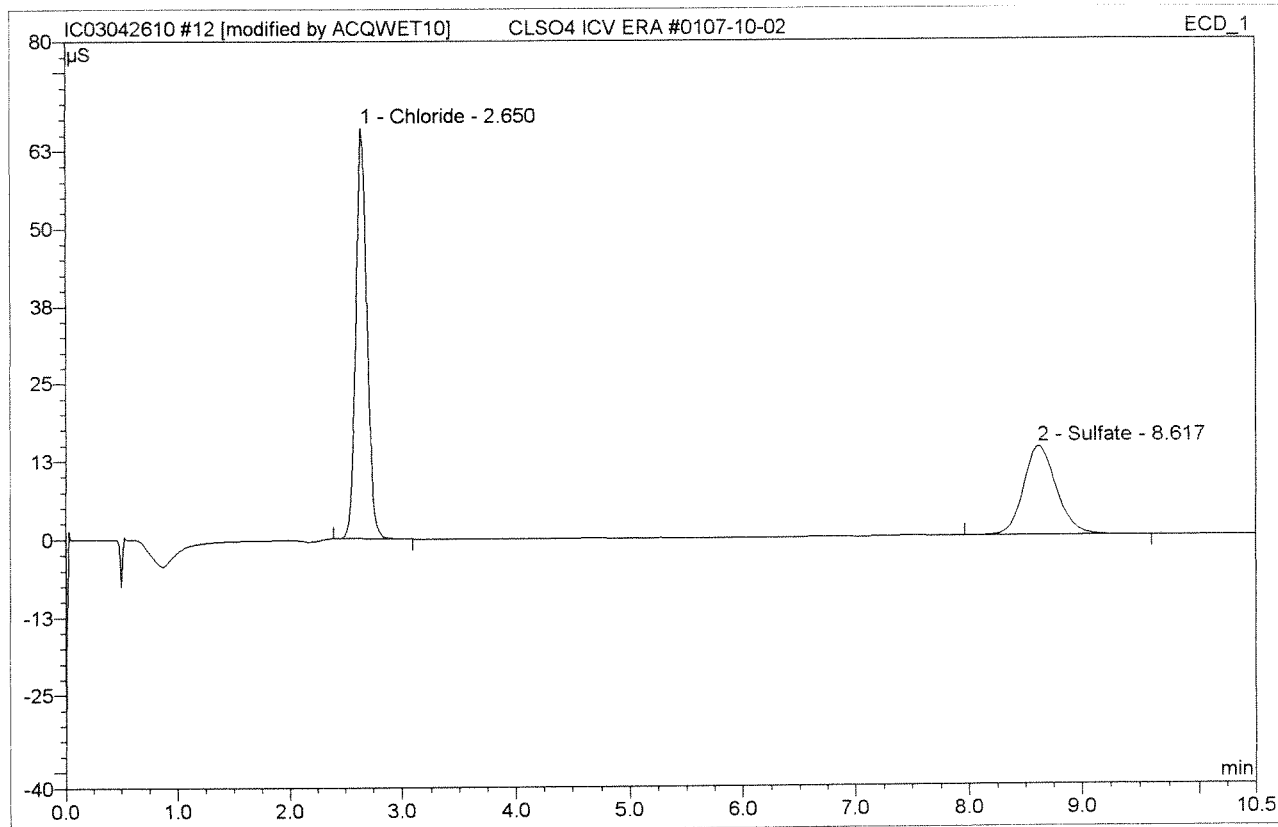
Before

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	

After initials UB

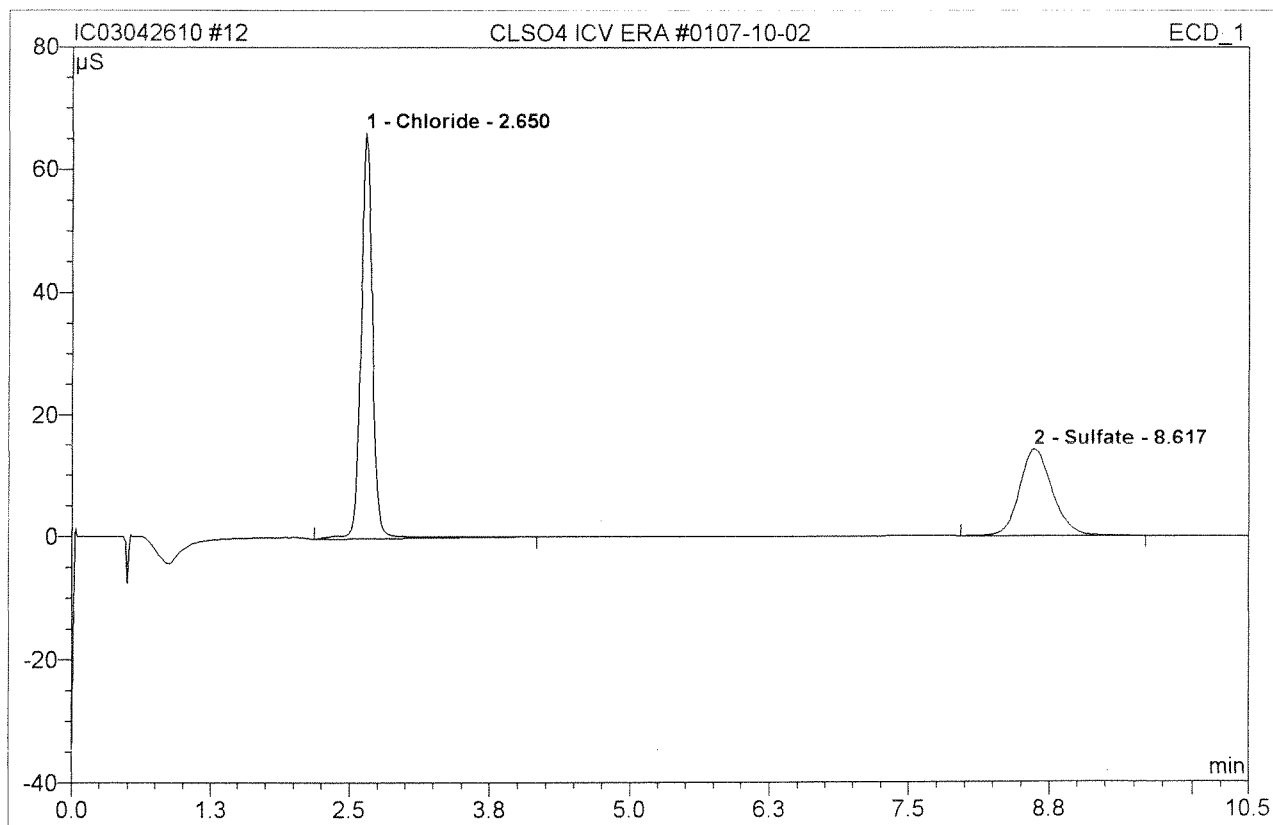
APR 26 2010

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

default/Integration

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	

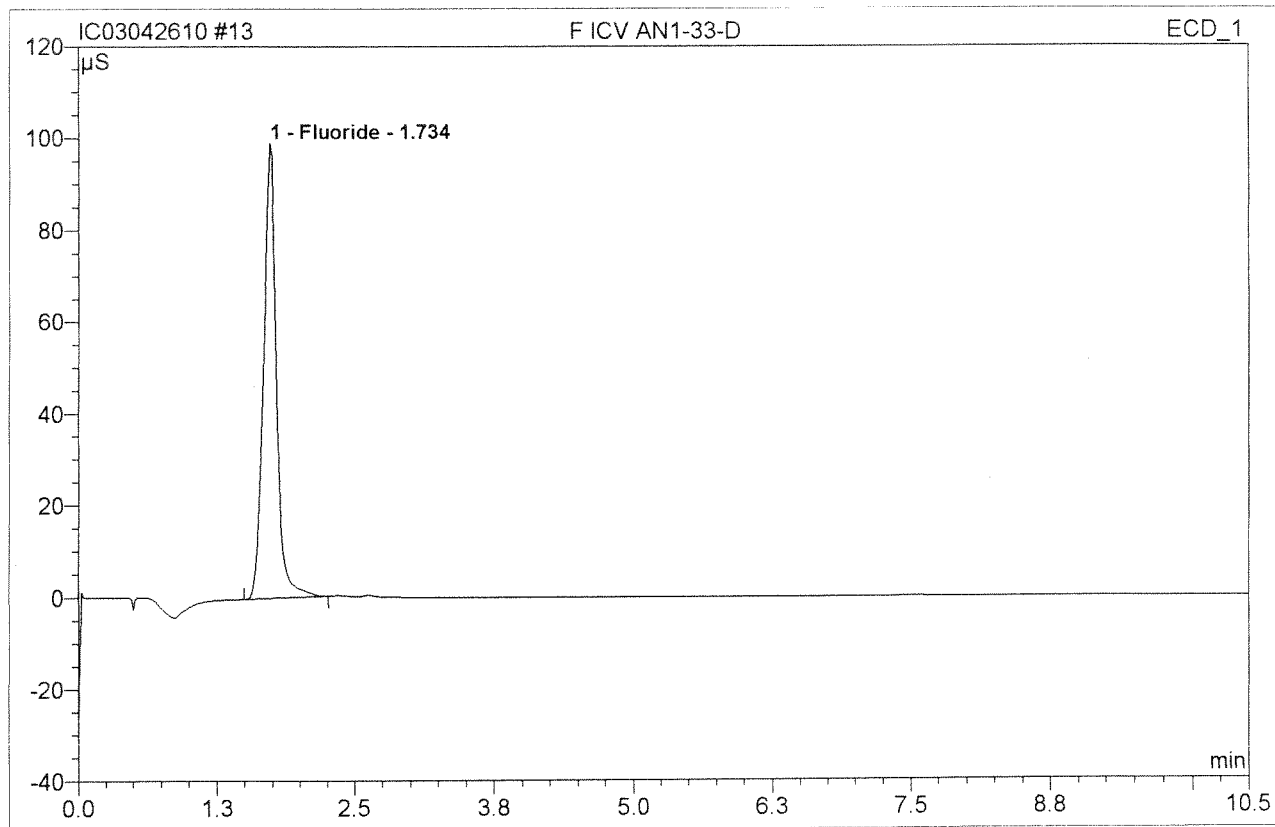
Before

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

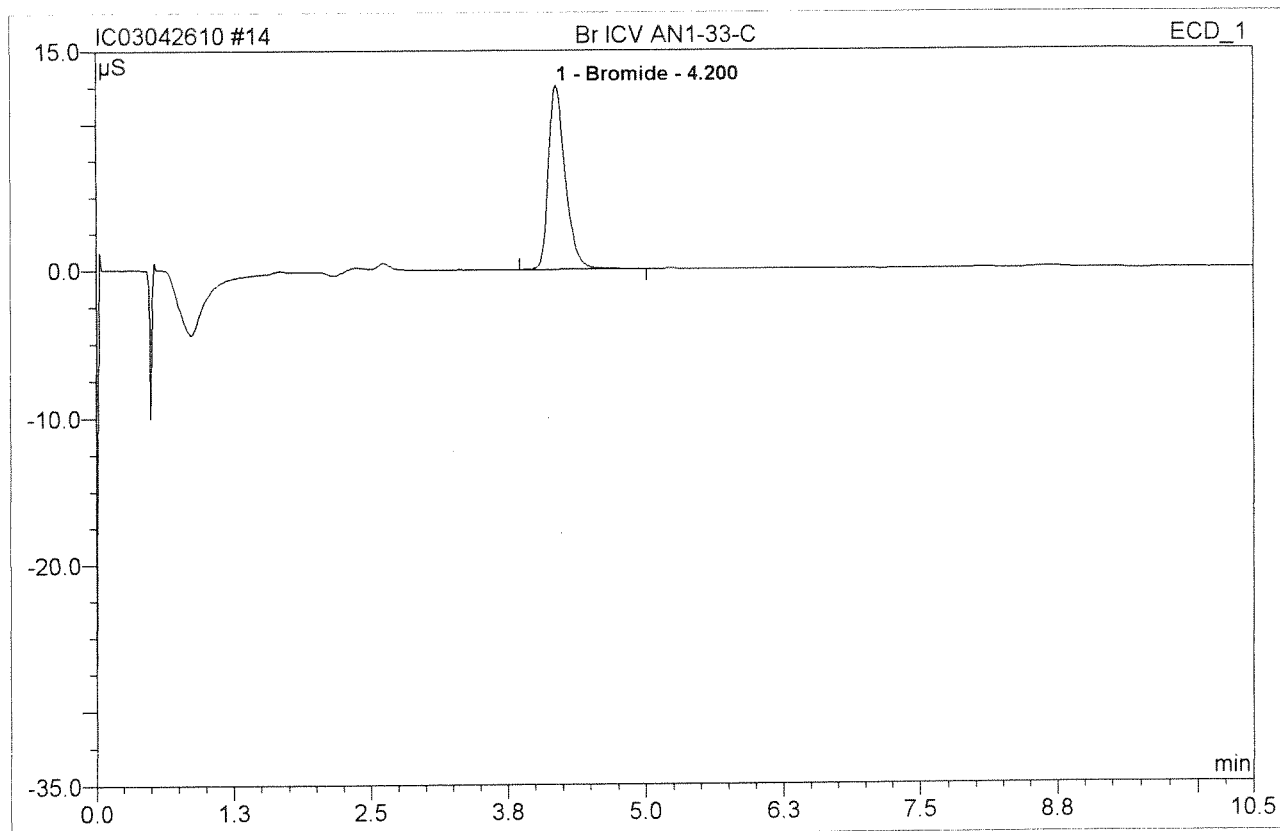


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.73	Fluoride	98.959	13.315	100.00	13.917	BMB
Total:			98.959	13.315	100.00	13.917	

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	4.124103%	BMB
Total:			12.583	2.210	100.00	4.124	

Work Request # ^{Original} (K4791) K4814 K4818 K4870 K4880 K4892 K4923 K4930
 Tier: I II III III J J I I
 Date Analyzed: 05/20/10
 Analyst: Houyuan
 Analysis: NH₃ ↓ 350.1 / SM4500-NH₃ G

201619

**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: 5/21/10 DQREPORT

I K4791, III K4814, III K4818, III K4870, I K4880, K4892 V, I K4923, I K4930, II K4935

BRAN+LUEBBE

Post-run Report

BRAN+LUEBBE

Post-run report

Name of Run : 100520E Name of Analysis : Ammonia
 Date of Report : 5/20/2010 System No. : 1
 Date of Run : 5/20/2010 Type of System : AA3
 Operator : Start/Stop time : 14:52 - 16:55
 Comment :

Channel : 2
 Method : Method 2
 Unit : mg/L
 Calibr. Fit : Linear
 Corr. Coeff. : 0.9997
 Base : -19708
 Gain : 20
 Sensitivity : 0.4316
 Sample Limit 1 :
 Sample Limit 2 :
 LCS ID#: B+LNH₃/1-34-I TV=14.3
 Spike ID#: B+LNH₃/1-85-D TV=2.00
 Curve, CCV ID#: B+LNH₃/1-55-X TV=2.00
 MB MS = 2.00

Pk	Cup	Sample Id	Value
0	0	B Baseline	0.0085
1	1	P Primer	5.0077
2	1	D Drift	5.0073
3	1	C 5.00	5.0309
4	2	C 2.00	1.9139
5	3	C 0.50	0.5152
6	4	C 0.05	0.0657
7	5	C 0	0.0243
8	0	B Baseline	0.0085
9	1	H1 High	5.0284
10	0	L1 Low	0.0170
11	0	L1 Low	0.0170
12	5	QC2 CCB1	0.0299
13	2	QC1 CCV1	1.9054
14	10	QC3 LCS1*10	1.4568
15	11	S MB MS	1.9157
16	0	N Null	0.0122N
17	5	QC2 MB1	0.0221
18	12	S k1004791-001	0.0344
19	13	S k1004791-002	0.0210
20	14	S k1004791-003	0.3310
21	15	S k1004791-004	0.0321
22	16	S k1004814-001	0.0461
23	0	B Baseline	0.0085
24	5	QC2 CCB2	0.0246
25	2	QC1 CCV2	1.9085
26	17	S k1004814-001d	0.0488

0.0307
 1.91 96%
 14.6 102%
 1.92 96%

0.0227
 <0.050
 <0.050
 0.331
 <0.050
 0.0467

0.0257 96%
 1.91
 0.0497 $\bar{x} = 0.048$ RPD = 6%

SAL
 5/21/10

05/20/10
 Hougoum

27	18	S	k1004814-001ms	2.0707	2.07	101%	
28	19	S	k1004814-001msd	2.0678	2.07	101%	
29	20	S	k1004814-002	0.1157	0.116		
30	21	S	k1004814-003	0.0245	0.0257		
31	22	S	k1004814-004	0.0139	<0.020		
32	23	S	k1004814-005	0.0140	<0.020		
33	24	S	k1004814-006	0.0159	<0.020		
34	25	S	k1004818-001	0.0251	0.0257		
35	0	B	BASELINE	0.0085			
36	5	QC2	CCB-3	0.0328	0.0337		
37	2	QC1	CCV-3	1.8989	1.90	95%	
38	26	S	k1004818-001d	0.0227	0.0237		$\bar{x} = 0.024$ RPD=8%
39	27	S	k1004818-001ms	2.0576	2.06	102%	
40	28	S	k1004818-001msd	2.0585	2.06	102%	
41	29	S	k1004818-002	0.0199	<0.020		
42	30	S	k1004818-004	0.1099	0.110		
43	31	S	k1004818-007	0.1237	0.124		
44	32	S	k1004870-001diss.	0.0644	0.064		$\bar{x} = 0.063$ RPD=3%
45	33	S	k1004870-001d diss.	0.0618	0.062		
46	34	S	k1004870-001ms diss	2.0845	2.08	101%	
47	0	B	Baseline	0.0085			
48	5	QC2	CCB4	0.0356	0.0367		
49	2	QC1	CCV4	1.9122	1.91	96%	
50	10	QC3	LCS2*10	1.4724	14.7	103%	
51	0	N	Null	0.0292N			
52	5	QC2	MB2	0.0405	0.0417		
53	35	S	k1004870-001msd dis	2.1291	2.13	103%	
54	36	S	k1004870-002 diss.	0.0693	0.069		
55	37	S	k1004870-003 diss.	0.0312	0.0317		
56	38	S	k1004870-004	-0.0042	<0.020		
57	39	S	k1004870-005	0.0052	<0.020		
58	40	S	k1004880-001	0.3927	0.393		
59	0	B	Baseline	0.0085			
60	5	QC2	CCB5	0.0155	<0.020		
61	2	QC1	CCV5	1.8987	1.90	95%	
62	41	S	k1004880-002	0.0402	<0.050		
63	42	S	k1004880-003	0.2036	0.204		
64	43	S	k1004880-004	1.7156	1.72		
65	44	S	k1004880-005	0.0877	0.088		
66	45	S	k1004880-006	0.2125	0.213		
67	46	S	k1004880-007	0.0423	<0.050		
68	47	S	k1004892-005	0.6113	0.611		
69	48	S	k1004923-001	0.0132	<0.020		$\bar{x} = ND$ RPD= -
70	49	S	k1004923-001d	0.0140	<0.020		
71	0	B	Baseline	0.0085			
72	5	QC2	CCB6	0.0165	<0.020		
73	2	QC1	CCV6	1.8973	1.90	95%	
74	50	S	k1004923-001ms	2.1065	2.11	106%	
75	51	S	k1004923-001msd	2.0304	2.03	102%	
76	52	S	k1004923-002	0.0646	0.065		
77	53	S	k1004923-003	0.0102	<0.020		
78	54	S	k1004923-008	0.2164	0.216		

JAD
5/21/10
05/20/10
Ferguson

BRAN+LUEBBE AACE 6.02

79	55	S	k1004923-012	0.0565	0.057	
80	56	S	k1004923-014	0.4963	0.496	
81	57	S	k1004930-001	0.0097	<0.050	
82	58	S	k1004930-002	0.1655	0.166	
83	0	B	Baseline	0.0085		
84	5	QC2	CCB7	0.0149	<0.020	
85	2	QC1	CCV7	1.8999	1.90	95%
86	10	QC3	LCS3*10	1.4500	14.5	101%
87	0	N	Null	0.0140N		
88	5	QC2	MB3	0.0162	<0.020	
89	59	S	k1004930-003	0.0120	<0.050	
90	60	S	k1004930-004	6.3210*		
91	61	S	k1004930-005	6.2583*		} NR
92	62	S	k1004935-001	0.0175		
93	63	S	k1004935-002	0.0161	<0.050	
94	64	S	k1004935-003	0.0131	<0.050	
95	0	B	Baseline	0.0085		
96	5	QC2	CCB8	0.0158	<0.020	95%
97	2	QC1	CCV8	1.8907	1.89	95%
98	65	S	k1004935-004	0.0117	<0.050	
99	0	B	Baseline	0.0085		
100	5	QC2	CCB9	0.0155	(<0.050)	<0.020
101	2	QC1	CCV9	1.8933	1.89	95%
102	1	D	Drift	5.0073		
103	0	B	Baseline	0.0085		
104	0	B	FinalBase	0.0085		

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	:	Yes
%:		0.3

SM
5/21/10

* ... Sample offscale
+ ... Result higher than sample limit

05/20/10
Ferguson

BRAN+LUEBBE AACE 6.02

Post-run Report

- ... 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> **

SA
5/20/10

05/20/10
Hayden

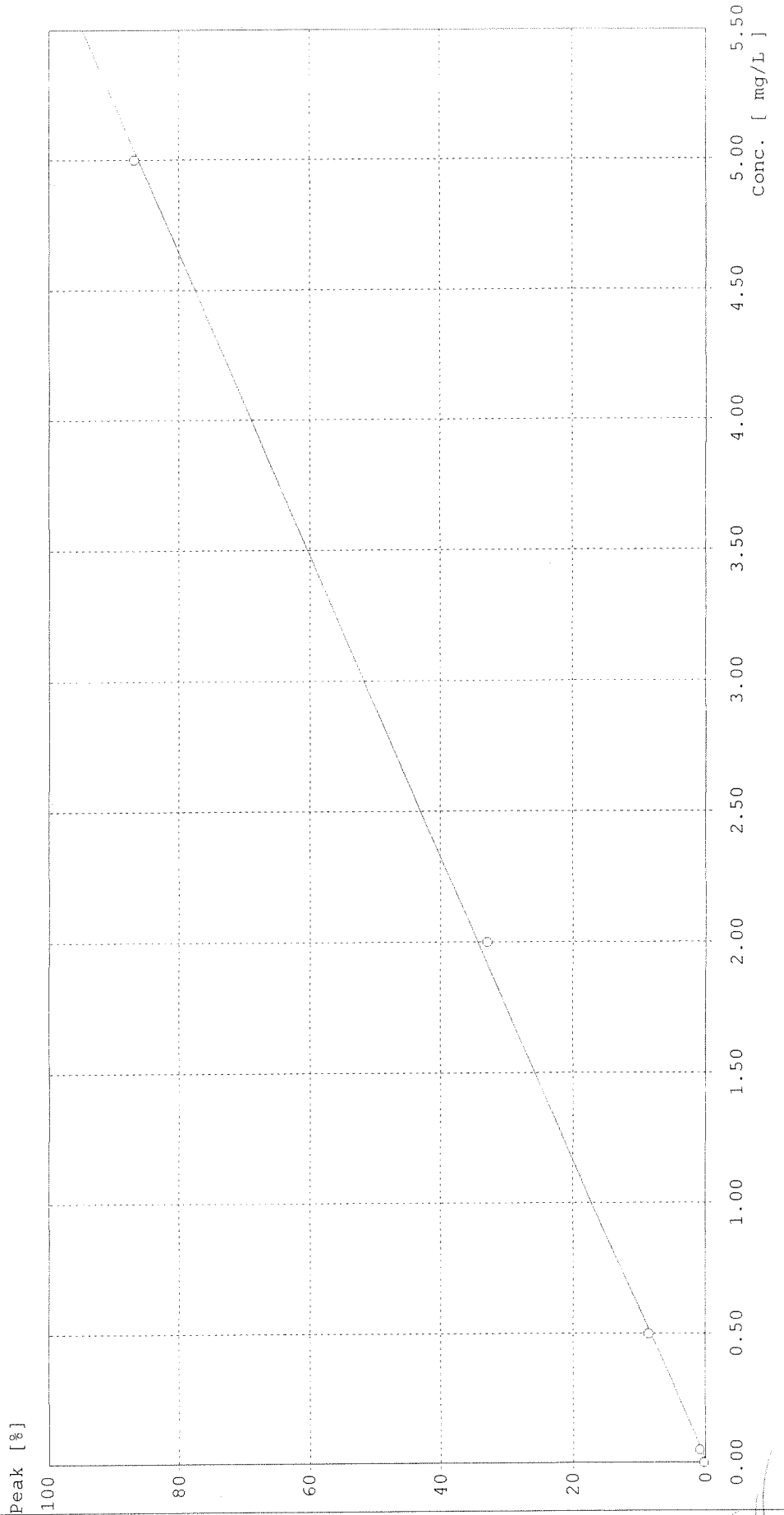
BRAN+LUEBBE

Calibration Curve

Name of run : 100520E.run
Comment :

Name of analysis : Ammonia

Channel : 2
Method : Method 2
Curve fit : linear a=-2.7651E-001 b=8.8342E-005
Corr. coeff. : 0.9997



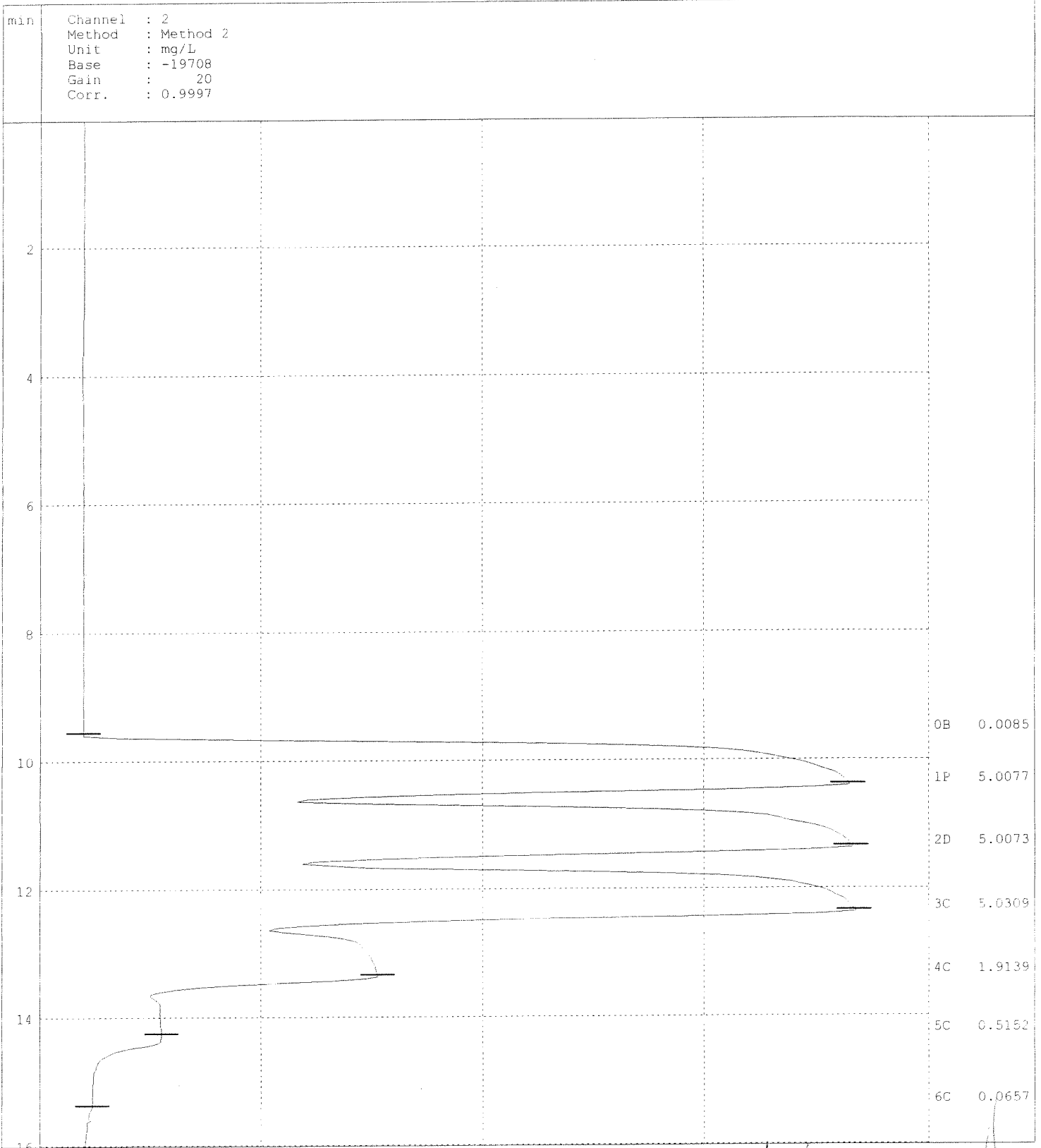
05/20/10
Hougenius
5/21/10

BRAN+LUEBBE

Post-run chart

Name of run : 100520E.RUN
Comment :

Name of analysis : Ammonia

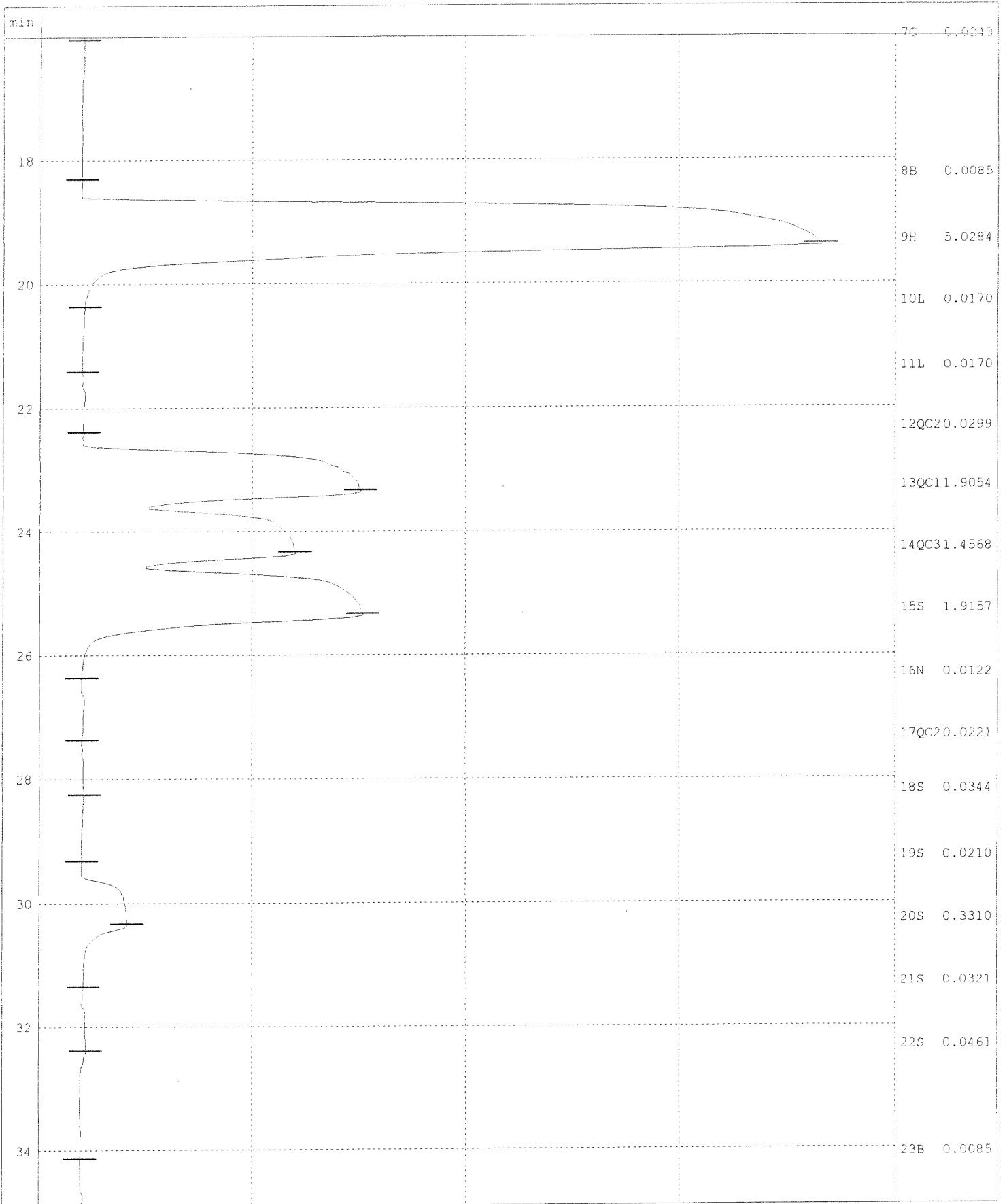


05/20/10
Kempers

5/21/10

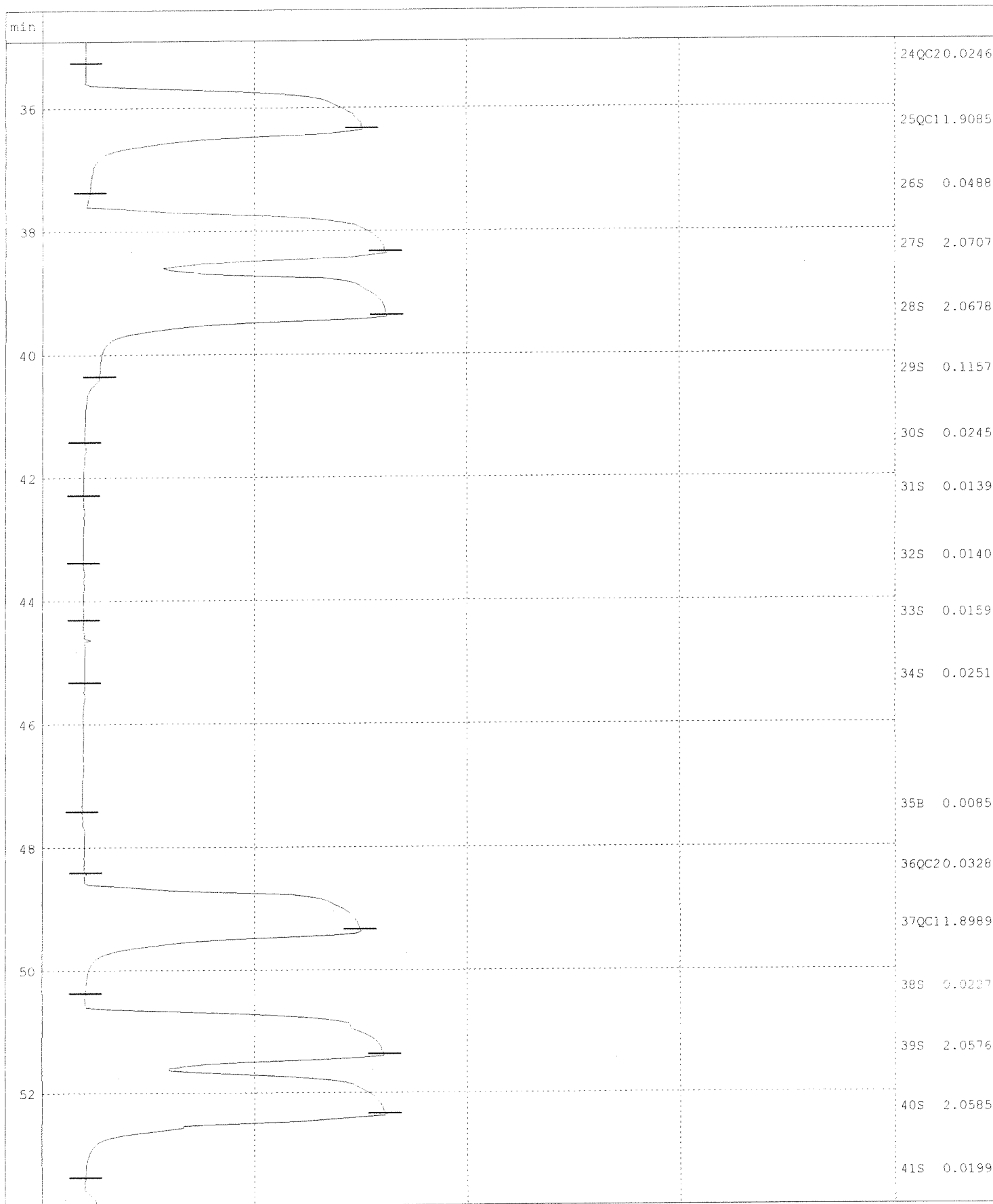
Name of run :100520E.RUN
Comment :

Name of analysis :Ammonia



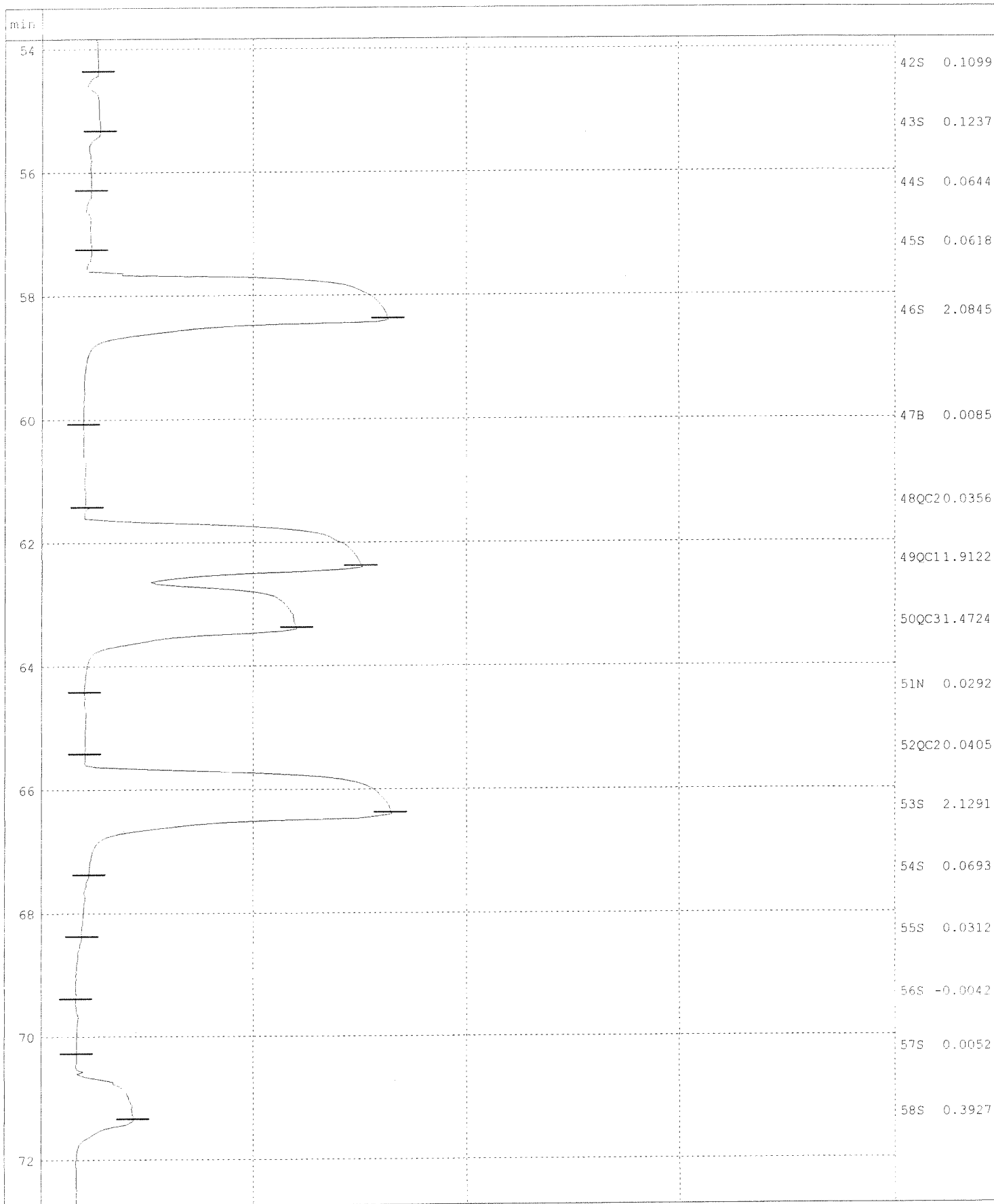
Name of run :100520E.RUN
 Comment :

Name of analysis :Ammonia



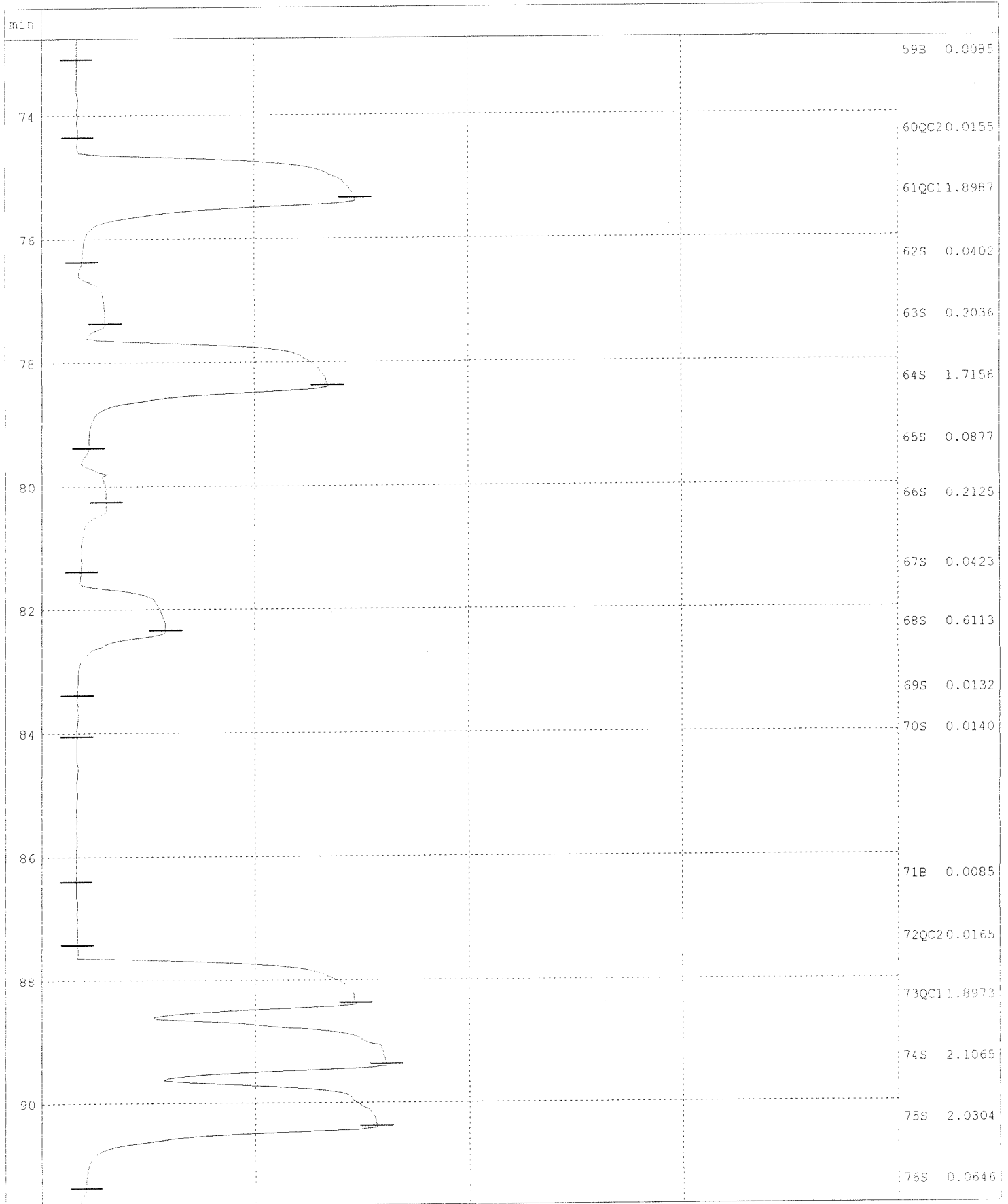
Name of run :100520E.RUN
Comment :

Name of analysis :Ammonia



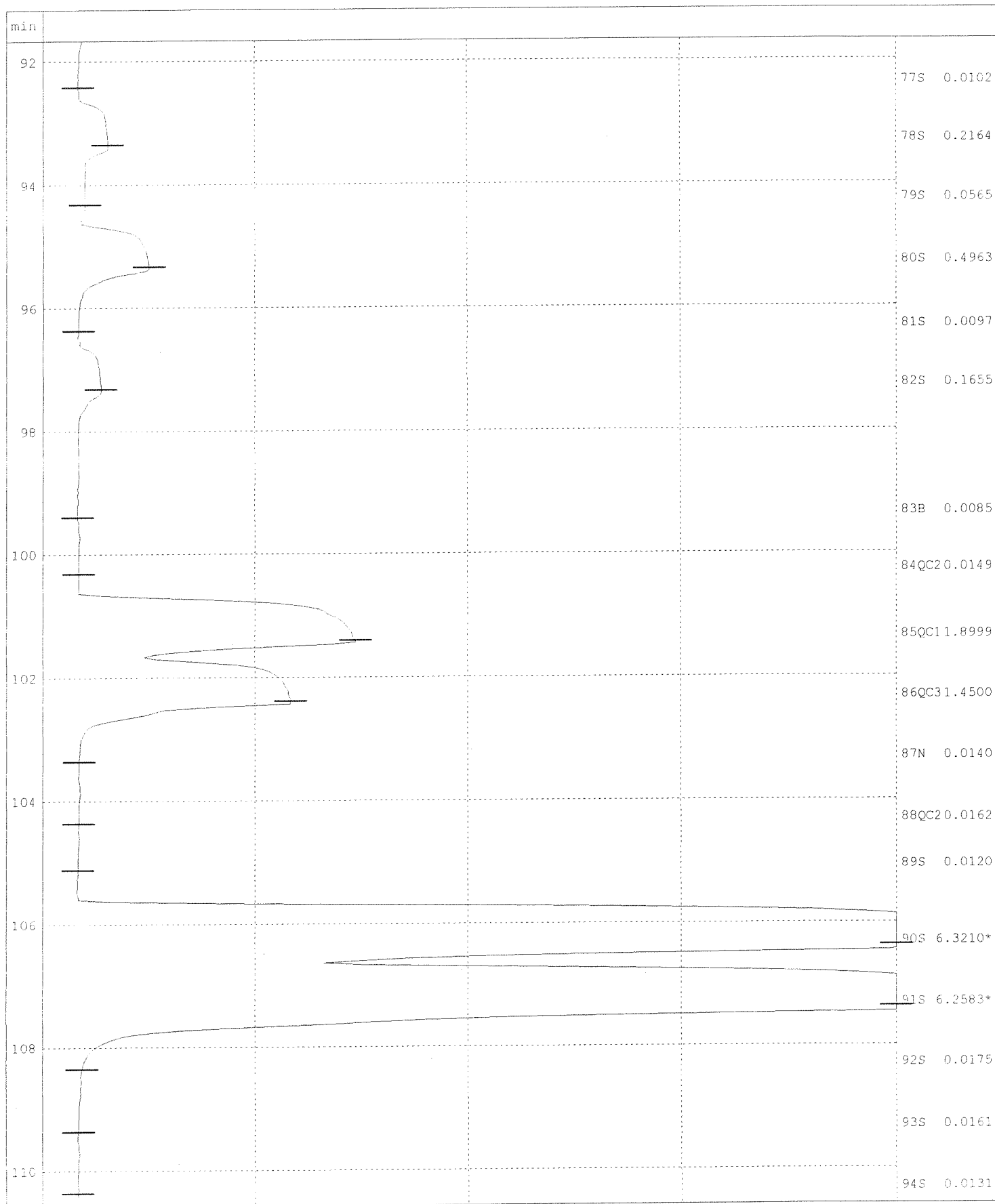
Name of run :100520E.RUN
Comment :

Name of analysis :Ammonia



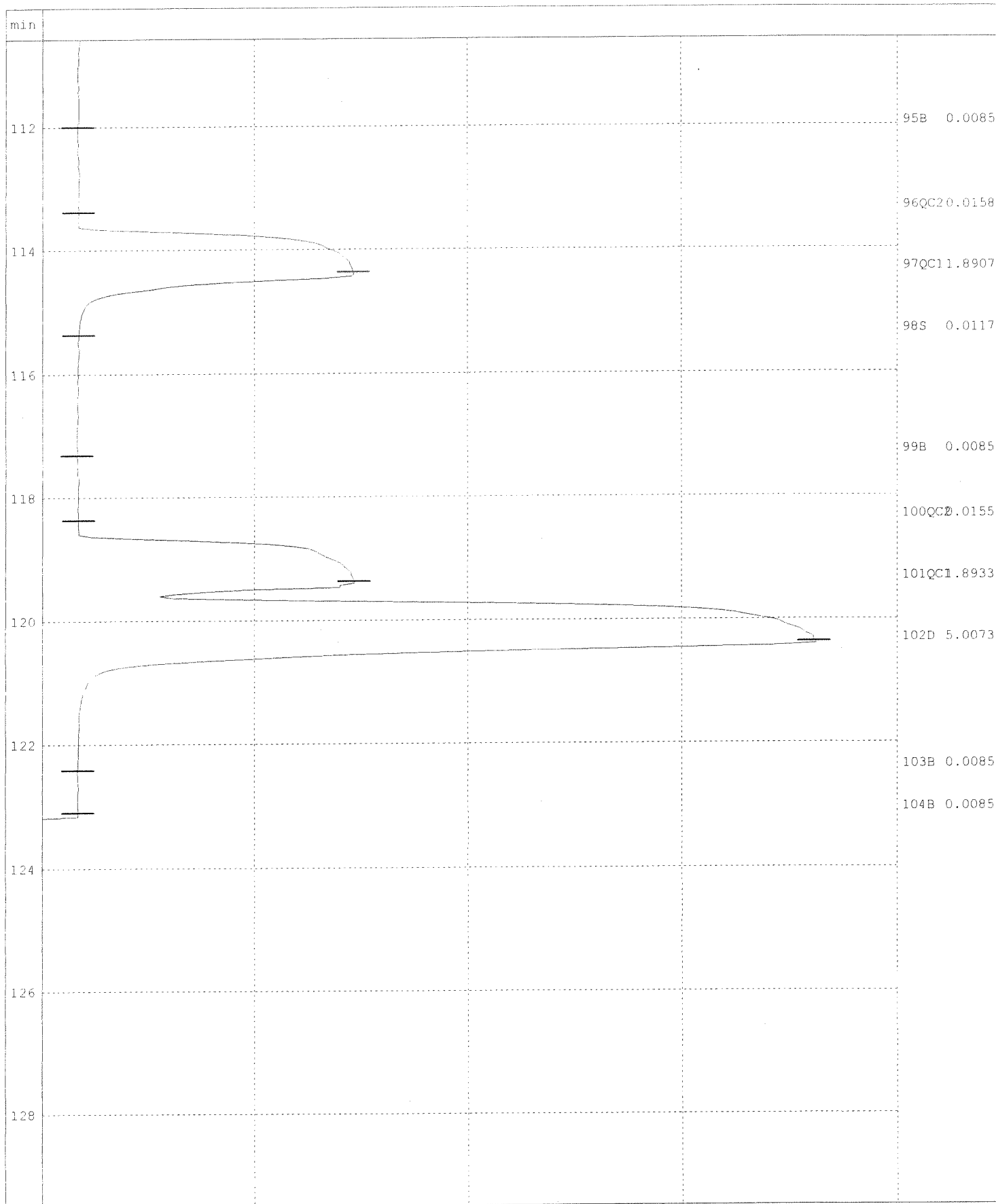
Name of run :100520E.RUN
Comment :

Name of analysis :Ammonia



Name of run :100520E.RUN
Comment :

Name of analysis :Ammonia



Original
 Work Request # (K4814)
 Tier: 0
 Date Analyzed: 05/13/10
 Analyst: Hougeny
 Analysis: NO₂ @ 353.2 200596

**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: 5/14/10 DQREPORT

K4814

BRAN+LUEBBE

Post-run report

Count: 200 596

Name of Run : 100513A
 Date of Report : 5/13/2010
 Date of Run : 5/13/2010
 Operator :
 Comment :

Name of Analysis : Nitrite.ANL
 System No. : 1
 Type of System : AA3
 Start/Stop time : 16:39 - 17:24

Channel :
 Method : Method 2
 Unit :
 Calibr. Fit : Linear
 Corr. Coeff. : 1.0000
 Base : -20596
 Gain : 5
 Sensitivity : 1.5630
 Sample Limit 1 :
 Sample Limit 2 :

LCS ID#: AN/11-27-W T.V.=4.00
 (0.4 ml x 100 ppw / 10 ml = 4.00)
 Spike ID#: B+LNO₂/1-94-X T.V.=2.00
 CCV, CCV ID#: B+LNO₂/1-30-S T.V.=2.00

Pk	Cup	Sample Id	Value
0	0	B Baseline	0.0071
1	1	P Primer	4.9662
2	1	D Drift	4.9800
3	1	C 5.00	5.0071
4	2	C 2.00	1.9835
5	3	C 0.50	0.4940
6	4	C 0.05	0.0564
7	5	C 0	0.0090
8	1	H1 High	4.9813
9	0	L1 Low	0.0178
10	0	L1 Low	0.0110
11	5	QC2 CCB1	0.0095
12	2	QC1 CCV1	1.9500
13	10	QC3 LCS1	3.9937
14	0	N Null	0.0166N
15	5	QC2 MB1	0.0105
16	11	S k1004814-001	0.0579
17	12	S k1004814-001d	0.0577
18	13	S k1004814-001ms	2.0351
19	14	S k1004814-001msd	2.0254
20	15	S k1004814-002	0.1831
21	16	S k1004814-003	0.0098
22	0	B Baseline	0.0067
23	5	QC2 CCB2	0.0078
24	2	QC1 CCV2	1.9743
25	17	S k1004814-004	0.0118
26	18	S k1004814-005	0.0119

0.0107
 1.95 98%
 3.99 100%

0.0117
 0.058
 0.058
 2.04 99%
 2.03 99%
 $\bar{x} = 0.058$ - RPD < 1%

0.008 99%
 1.97 99%
 0.0127
 0.0127

SJA
 5/14/10
 05/13/10
 Hengman

27	19	S	k1004814-006	0.0092	0.0097
28	0	B	Baseline	0.0053	
29	5	QC2	CCB3	0.0067	0.0077
30	2	QC1	CCV3	1.9722	1.97 99%
31	1	D	Drift	5.0534	
32	0	B	Baseline	0.0073	
33	0	B	FinalBase	0.0065	

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> **

5/14/10
05/13/10
Haugen

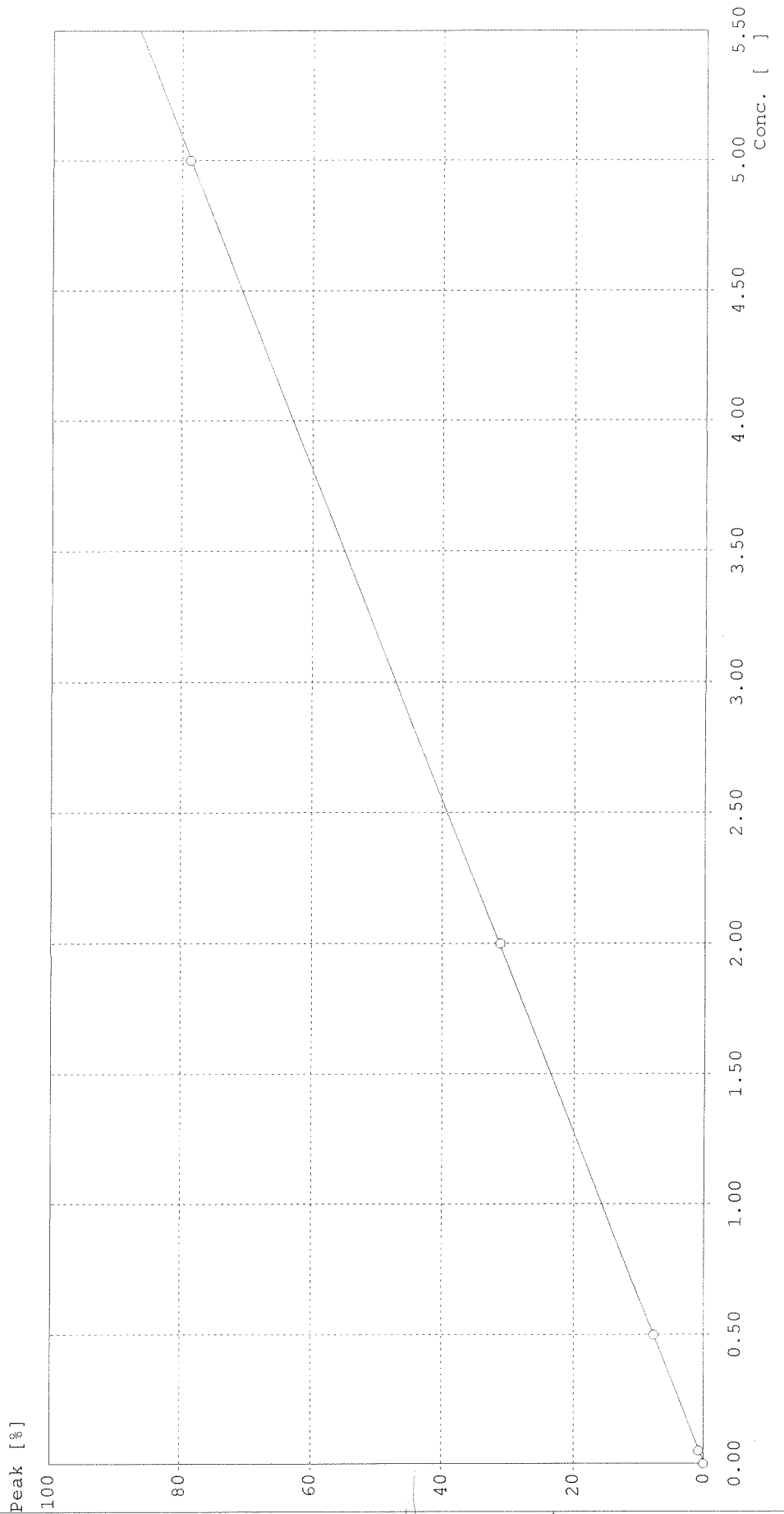
BRAN+LUEBBE

Calibration Curve

Name of run : 100513A.run
Comment :

Name of analysis : Nitrite.ANL

Channel : 2
Method : Method 2
Curve fit : linear a=-3.0717E-001 b=9.6811E-005
Corr. coeff. : 1.0000



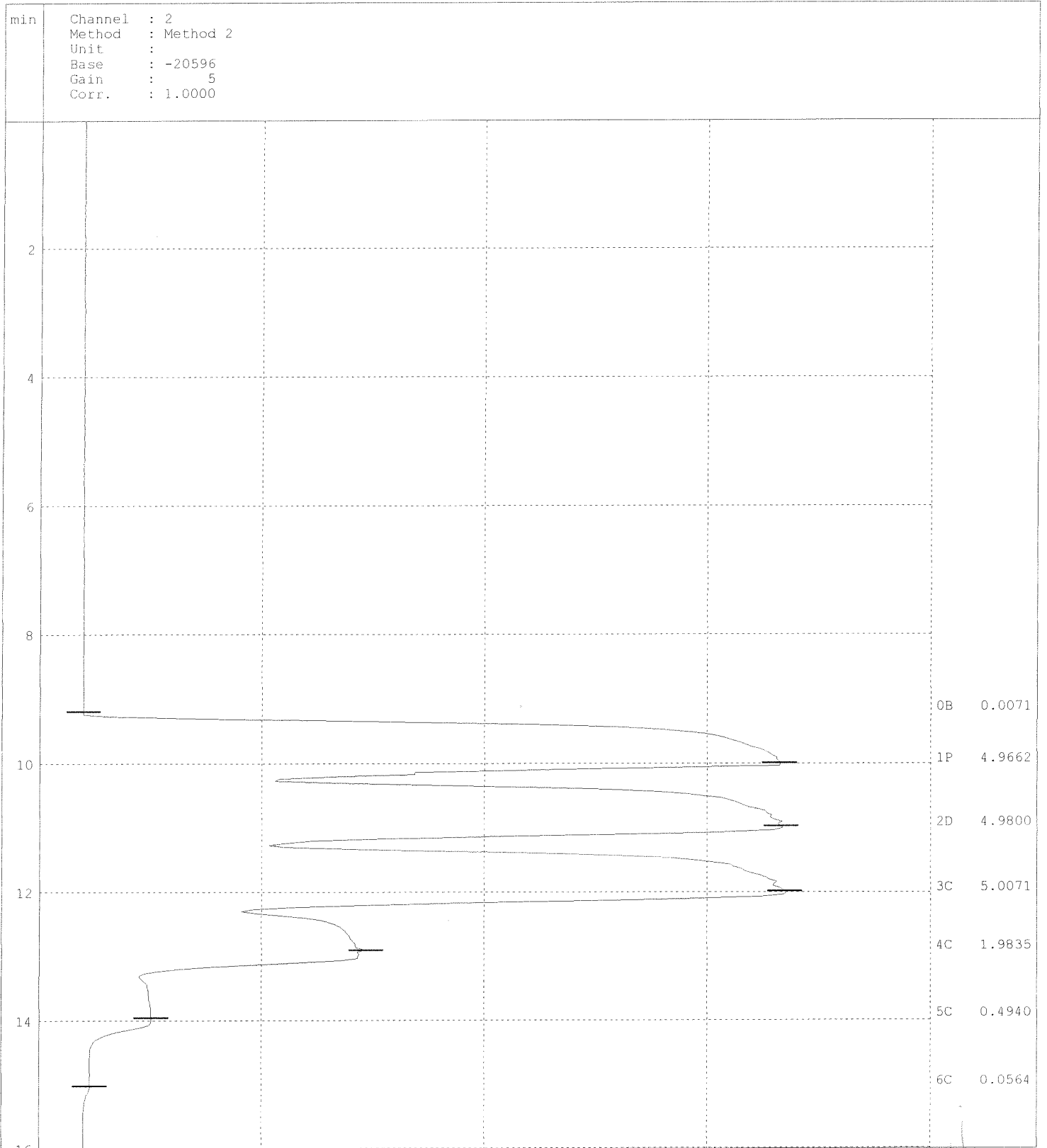
5/14/10
05/13/10
Thuy

BRAN+LUEBBE

Post-run chart

Name of run :100513A.RUN
Comment :

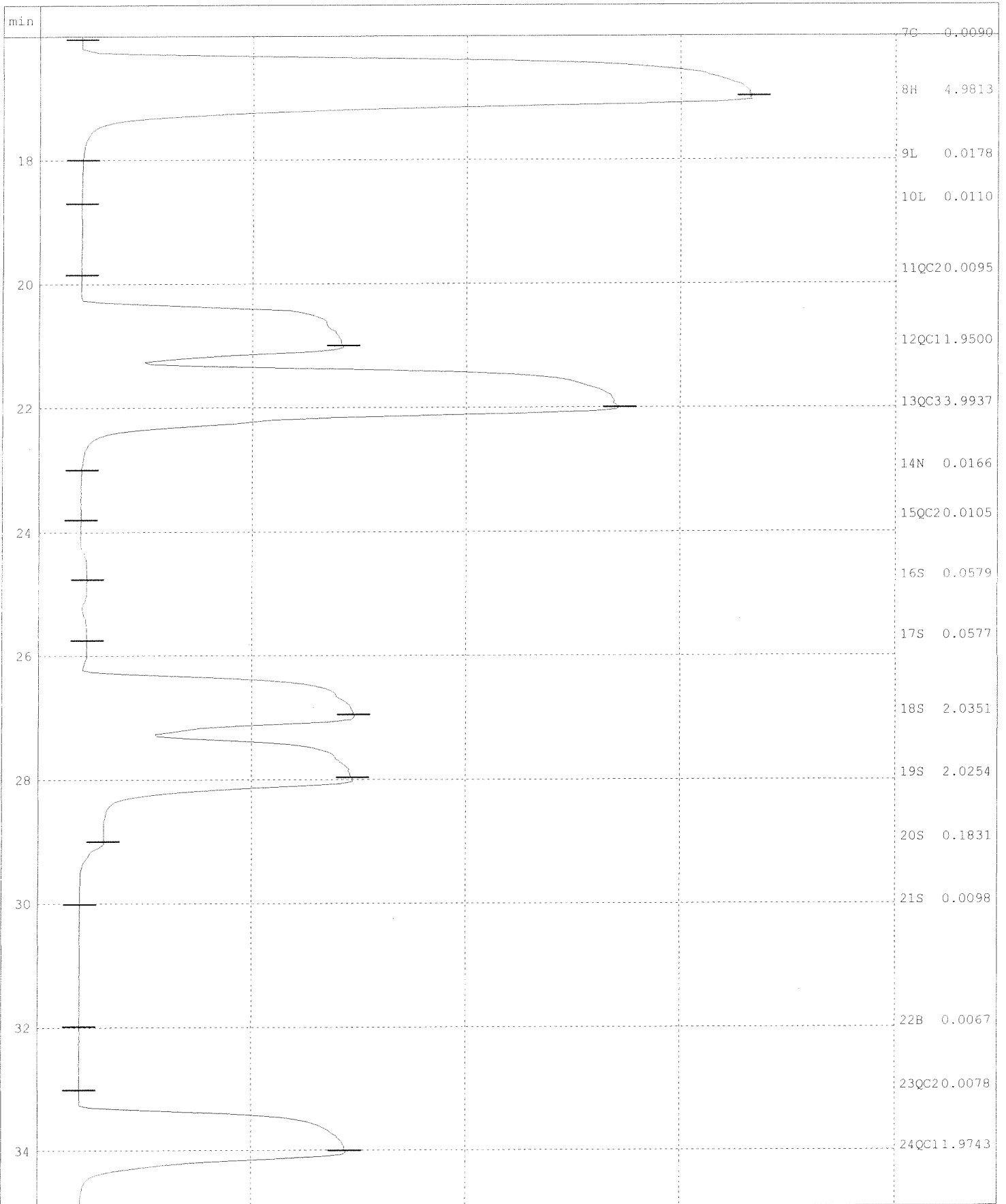
Name of analysis :Nitrite.ANL



05/13/10
Fluorene *Sgt*
5/14/10

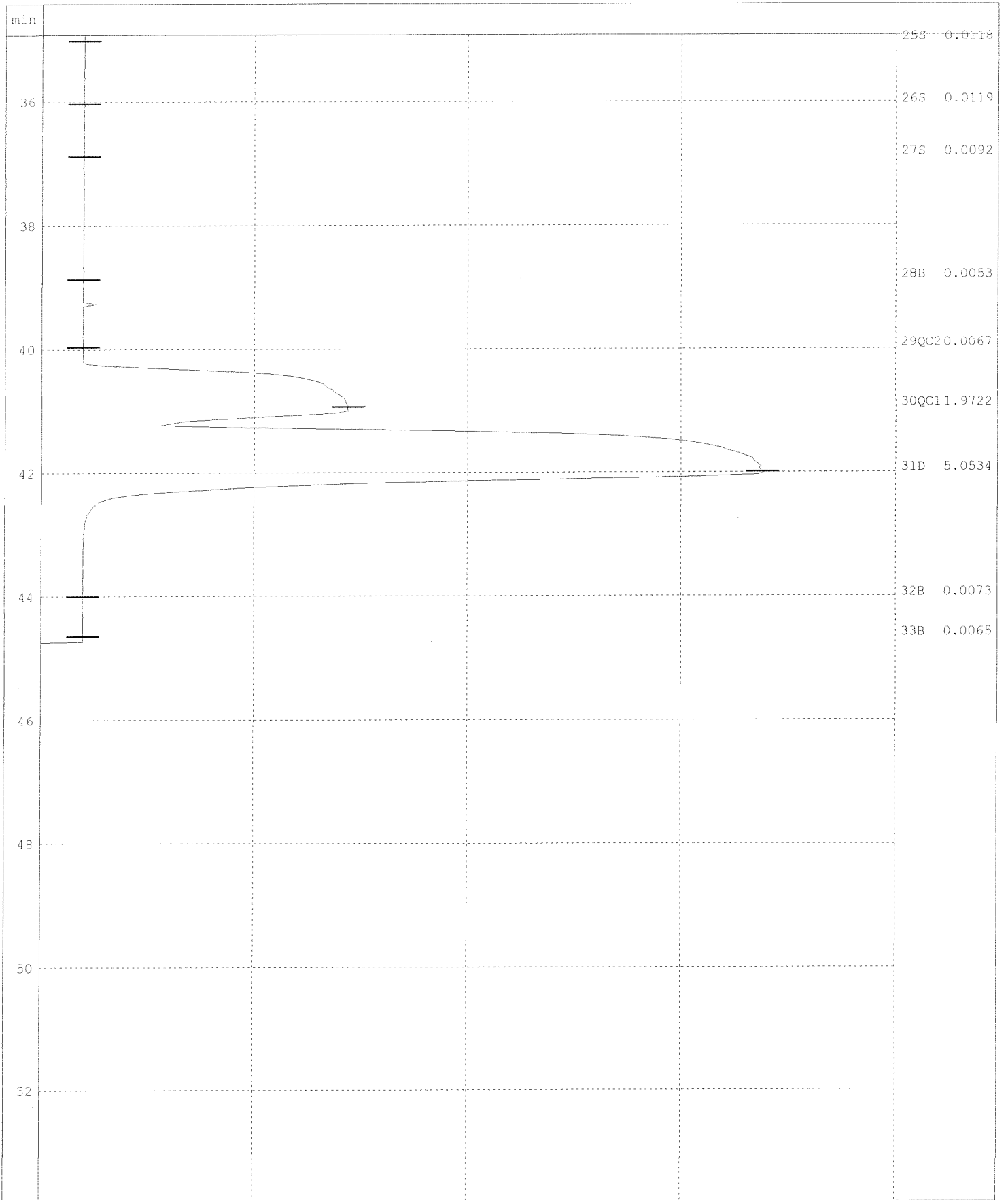
Name of run :100513A.RUN
Comment :

Name of analysis :Nitrite.ANL



Name of run :100513A.RUN
Comment :

Name of analysis :Nitrite.ANL



Work Request # ^{Original} (K4744) K4773 K4780 K4813 K4814 K4815
 Tier: III I III V III III
 Date Analyzed: 05/15/10
 Analyst: [Signature]
 Analysis: NO₂/NO₃ - 353.2 200767

**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

111
1
111
111
111
111
 K4744, K4773, K4780, K4813, K4814, K4818

BRAN+LUEBBE

Post-run report

Name of Run : 100515B
 Date of Report : 5/15/2010
 Date of Run : 5/15/2010
 Operator :
 Comment :

Name of Analysis : NO2+NO3
 System No. : 1
 Type of System : AA3
 Start/Stop time : 11:27 - 13:24

Channel :
 Method :
 Unit : mg/L
 Calibr. Fit : Linear
 Corr. Coeff. : 0.9999
 Base : -20673
 Gain : 5
 Sensitivity : 1.5850
 Sample Limit 1 :
 Sample Limit 2 :

LCS ID# : B+LNH₃/1 - 34-J T.V.=14.8
Spike ID# : B+LNH₃/1 - 94-Y T.V.=2.00
Curve, CCV ID# : B+LNH₃/1 - 85-V T.V.=2.00
ICV ID# : B+LNH₃/1 - 80-S T.V.=2.00
MBMS=2.00

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0244
1	1	P primer	4.9125
2	1	D Drift	5.0471
3	1	C 5.00	4.9818
4	2	C 2.00	2.0467
5	3	C 0.50	0.4913
6	4	C 0.05	0.0384
7	5	C 0	-0.0081
8	1	H1 High	4.9200
9	0	L1 Low	-0.0480
10	0	L1 Low	0.0177
11	9	QC3 ICV	1.9465
12	5	QC2 ICB	-0.0003
13	5	QC2 CCB1	-0.0180
14	2	QC1 CCV1	2.0294
15	10	QC4 LCS1*10	1.4594
16	11	S MB MS	1.9361
17	0	N Null	-0.0191N
18	5	QC2 MB1	-0.0208
19	27	S k1004744-001	9.6322*
20	28	S k1004744-001d	9.2369*
21	29	S k1004744-001ms	16.1028*
22	30	S k1004744-001msd	16.1039*
23	31	S k1004744-002	16.1048*
24	0	B Baseline	-0.0244
25	5	QC2 CCB2	-0.0090
26	2	QC1 CCV2	2.0539

1.95 98%
<0.009
<0.009
2.03 102%
14.6 99%
1.94 97%

<0.009
NR

<0.009
2.05 103%

5/17/10

05/15/10
Henry

27	12	S	k1004743-001	0.0955	} NR
28	13	S	k1004743-002	0.0045	} NR
29	32	S	k1004744-003	0.0023	< 0.009
30	33	S	k1004744-004	16.1249*	
31	34	S	k1004773-001	1.0576	}
32	35	S	k1004780-001	1.5797	1.58
33	36	S	k1004813-001	0.7700	0.770
34	37	S	k1004813-002	0.7732	0.773
35	38	S	k1004813-003	1.8598	1.86
36	0	B	Baseline	-0.0244	
37	5	QC2	CCB3	0.0014	< 0.009
38	2	QC1	CCV3	2.0522	2.05
39	39	S	k1004813-003d	1.8541	1.85
40	40	S	k1004813-003ms	4.1545	}
41	41	S	k1004813-003msd	4.1239	} NR
42	42	S	k1004814-001	1.8824	1.88
43	43	S	k1004814-001d	1.8962	1.90
44	44	S	k1004814-001ms	4.1935	}
45	45	S	k1004814-001msd	4.1264	} NR
46	46	S	k1004814-002	16.1528*	
47	47	S	k1004814-003	6.2139*	
48	0	B	Baseline	-0.0244	
49	5	QC2	CCB4	0.0082	< 0.009
50	2	QC1	CCV4	2.0103	2.01
51	10	QC4	LCS2*10	1.4735	14.7
52	0	N	Null	-0.0110N	
53	5	QC2	MB2	-0.0056	< 0.009
54	48	S	k1004814-004	2.8927	2.89
55	49	S	k1004814-005	0.0459	0.046
56	50	S	k1004814-006	0.0541	0.054
57	51	S	k1004818-001	0.0083	< 0.009
58	52	S	k1004818-001d	0.0064	< 0.009
59	53	S	k1004818-001ms	2.2452	NR
60	0	B	Baseline	-0.0244	
61	5	QC2	CCB5	-0.0137	< 0.009
62	2	QC1	CCV5	2.0338	2.03
63	54	S	k1004818-001msd	2.3158	NR
64	55	S	k1004818-002	0.0131	0.013
65	56	S	k1004818-004	0.0278	0.028
66	57	S	k1004818-007	0.0764	0.076
67	0	N	Null	-0.0100N	
68	12	S	k1004744-001*10	0.8804	8.80
69	13	S	k1004744-001d*10	0.8750	8.75
70	14	S	k1004744-001ms*10	2.7929	27.9
71	15	S	k1004744-001msd*10	2.7892	27.9
72	0	B	Baseline	-0.0244	
73	5	QC2	CCB6	-0.0146	< 0.009
74	2	QC1	CCV6	2.0474	2.05
75	16	S		4.0243	} NR
76	17	S		0.8079	} NR
77	18	S	k1004744-002*10	3.4853	34.9
78	34	S	k1004773-001	0.9740	0.974

$\bar{x} = 1.86$ RPD < 1%

$\bar{x} = 1.89$ RPD = 1%

101%
99%

102%

$\bar{x} = 8.78$ RPD < 1%

96% (Spixc = 0.1 ml x 100 ppm / 0.5 ml = 20.0)

102%

SA
5/17/10

05/15/10
Fong

79	19	S	k1004744-004*10	1.5800	15.8
80	20	S	rinse	-0.0074	
81	21	S	k1004813-001ms	3.8836	3.88 101%
82	22	S	k1004813-001msd	3.8858	3.89 102%
83	23	S	k1004814-001ms	3.8707	3.87 100%
84	0	B	Baseline	-0.0244	
85	5	QC2	CCB7	-0.0129	<0.009 102%
86	2	QC1	CCV7	2.0373	2.04 97%
87	24	S	k1004814-001msd	3.8237	3.82 102%
88	25	S	k1004814-002*10	2.6154	26.2
89	26	S	k1004814-003*5	1.2093	6.05
90	27	S	k1004818-001ms	2.0388	2.04 102%
91	28	S	k1004818-001msd	1.9902	1.99 100%
92	0	B	Baseline	-0.0244	
93	5	QC2	CCB8	-0.0053	<0.009 100%
94	2	QC1	CCV8	1.9978	2.00 100%
95	1	D	Drift	5.0471	
96	0	B	Baseline	-0.0244	
97	0	B	FinalBase	-0.0244	

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

SM
5/17/10

05/15/10
Honeyman

** <END OF REPORT> **

5/17/10
05/19/10
Hungeny

BRAN+LUEBBE

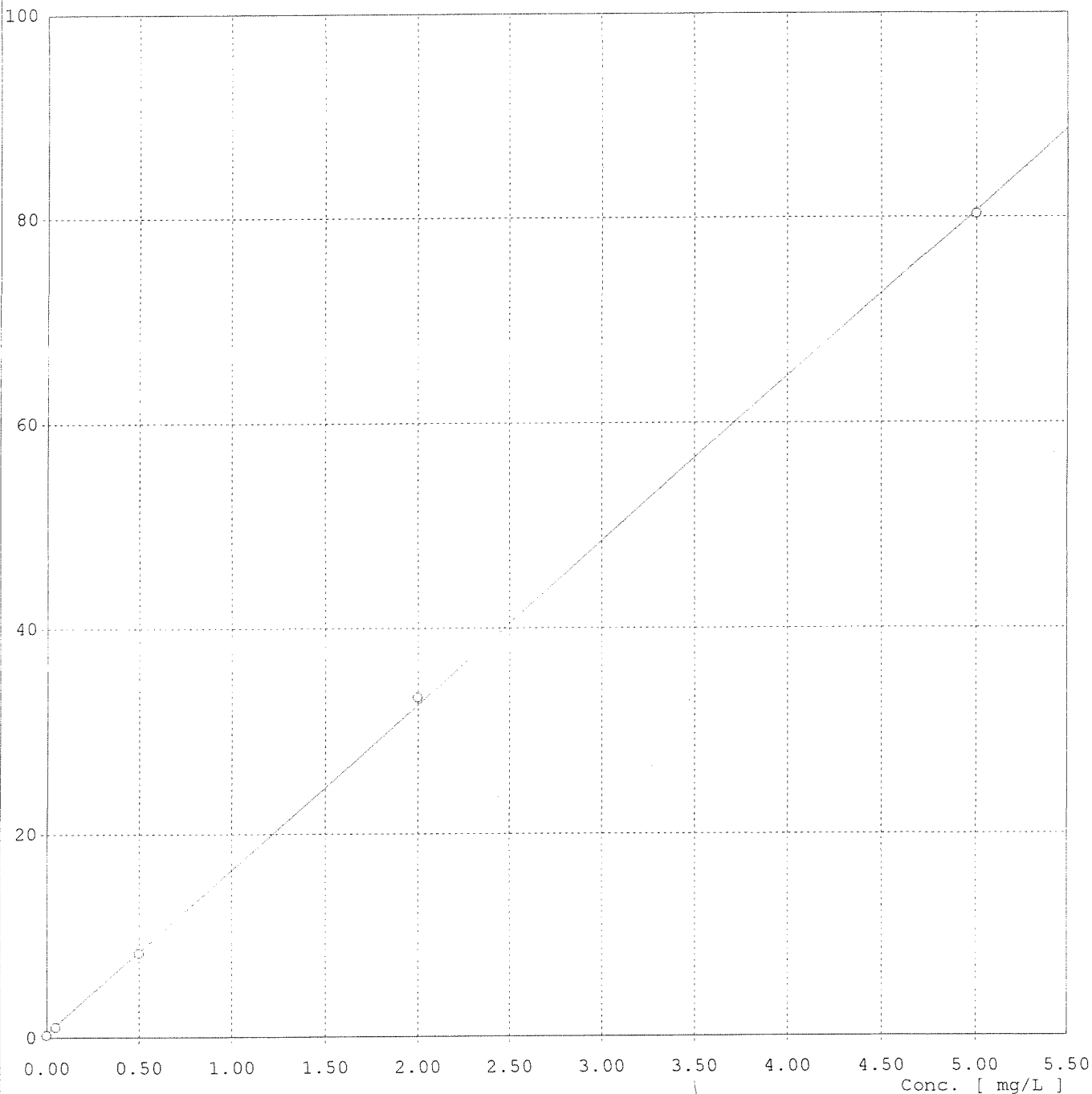
Calibration Curve

Name of run :100515B.run
Comment :

Name of analysis :NO2+NO3

Channel :2
Method :Method 2
Curve fit :linear a=-3.3489E-001 b=9.5076E-005
Corr. coeff. :0.9999

Peak [%]



JAN 5/19/10

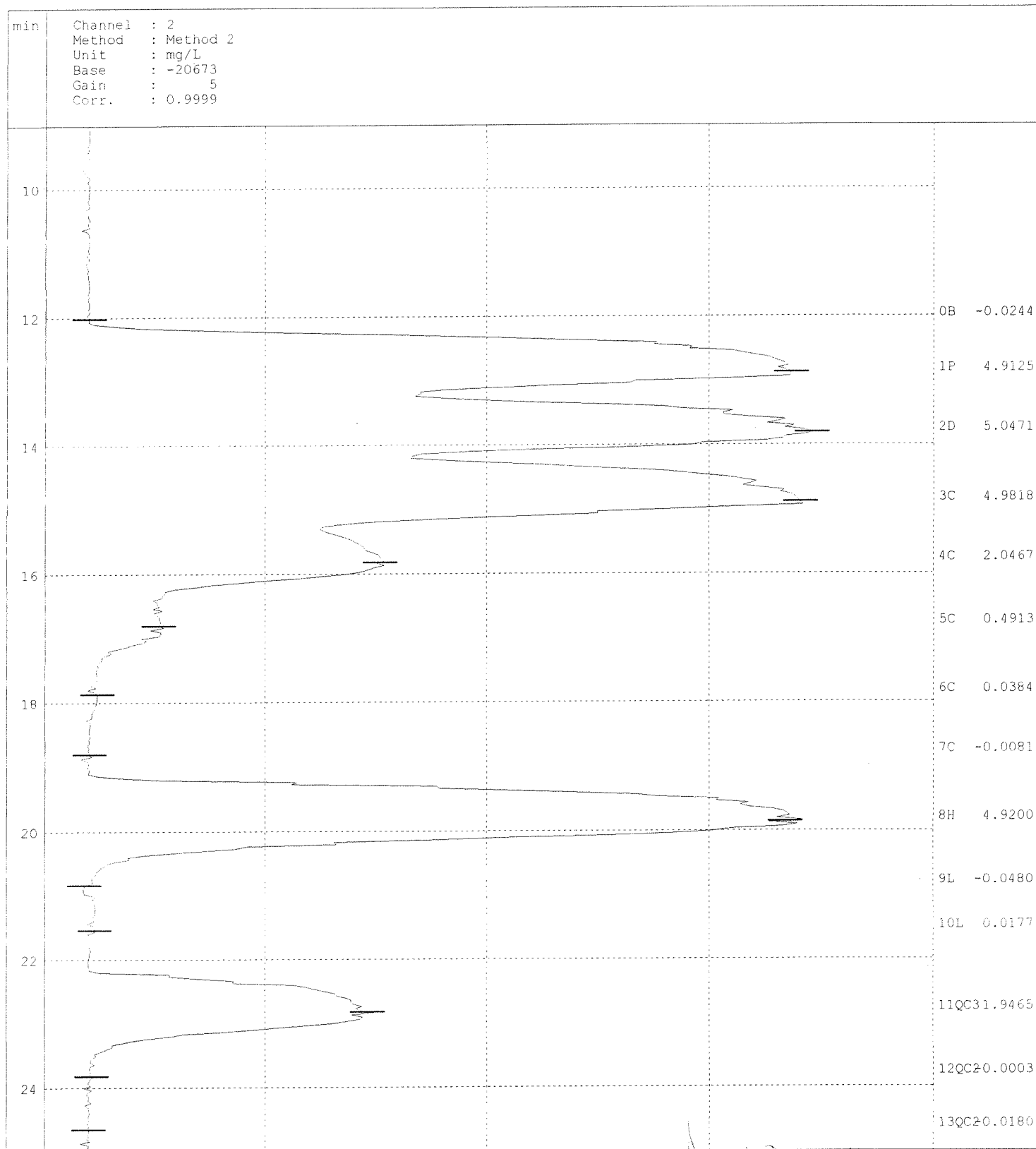
*05/15/10
HWA*

BRAN+LUEBBE

Post-run chart

Name of run :100515B.RUN
Comment :

Name of analysis :NO2+NO3

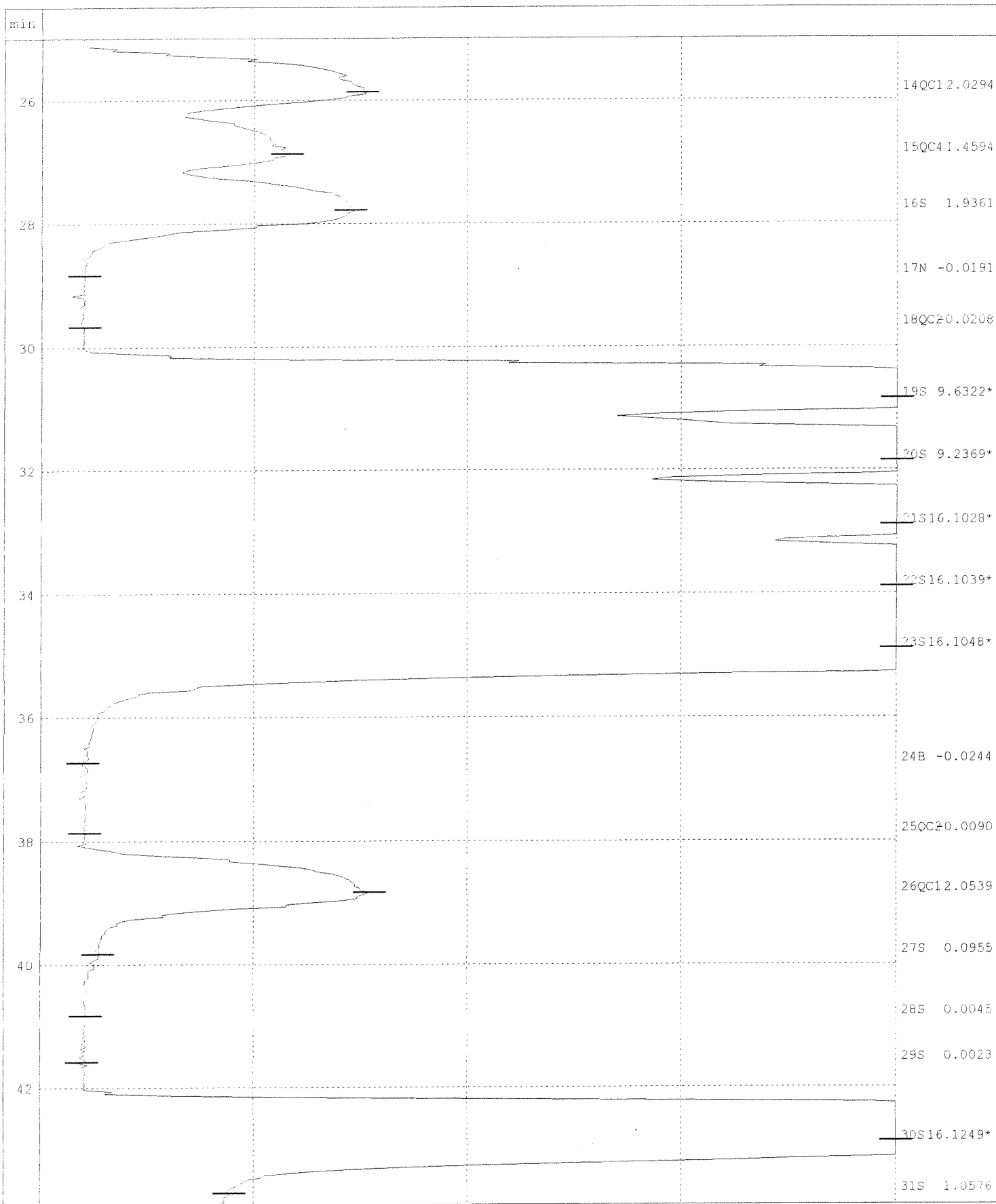


SPAD
5/17/10
05/15/10
Haupt

Name of run :100515B.RUN

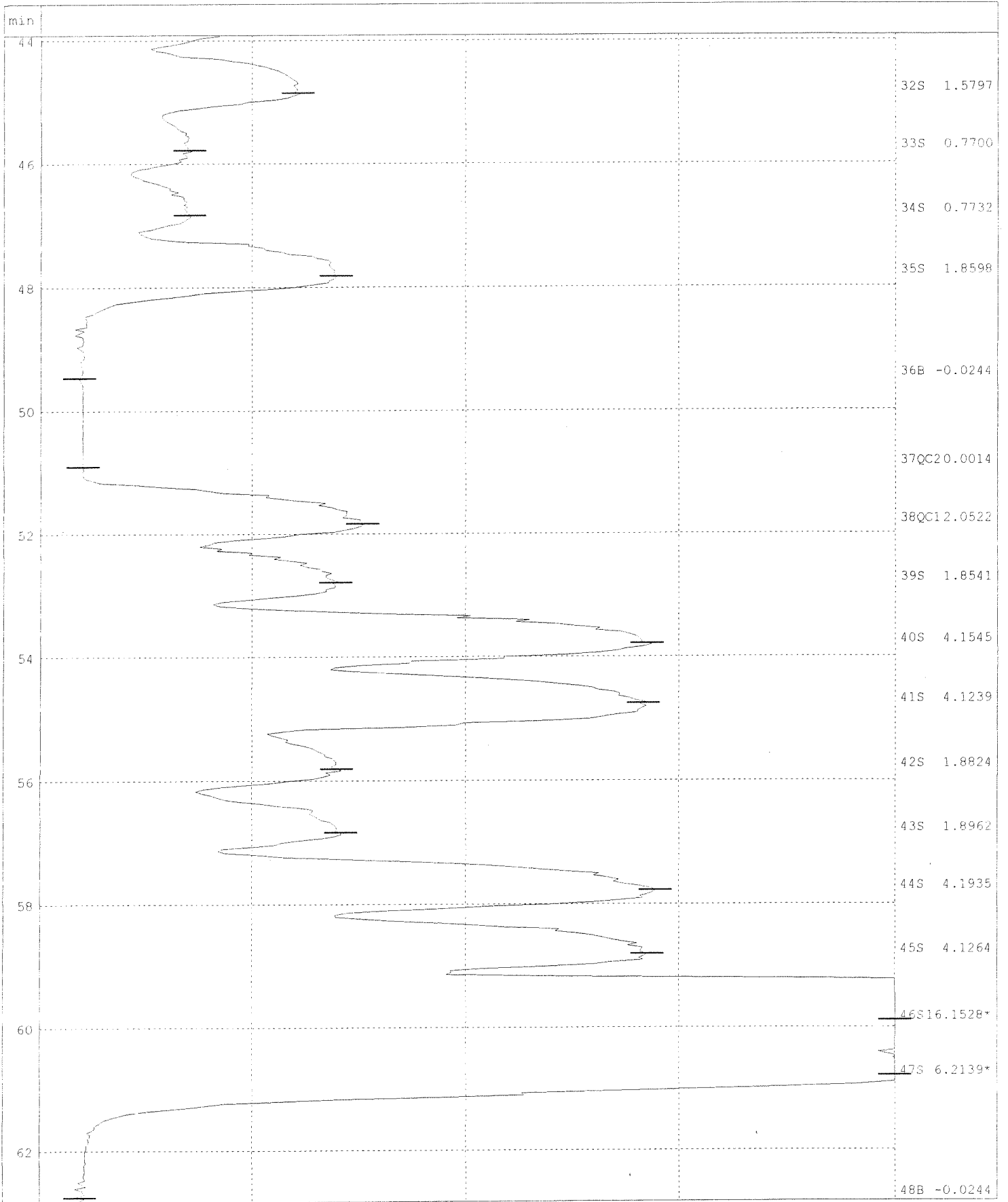
Name of analysis :NO2+NO3

Comment :



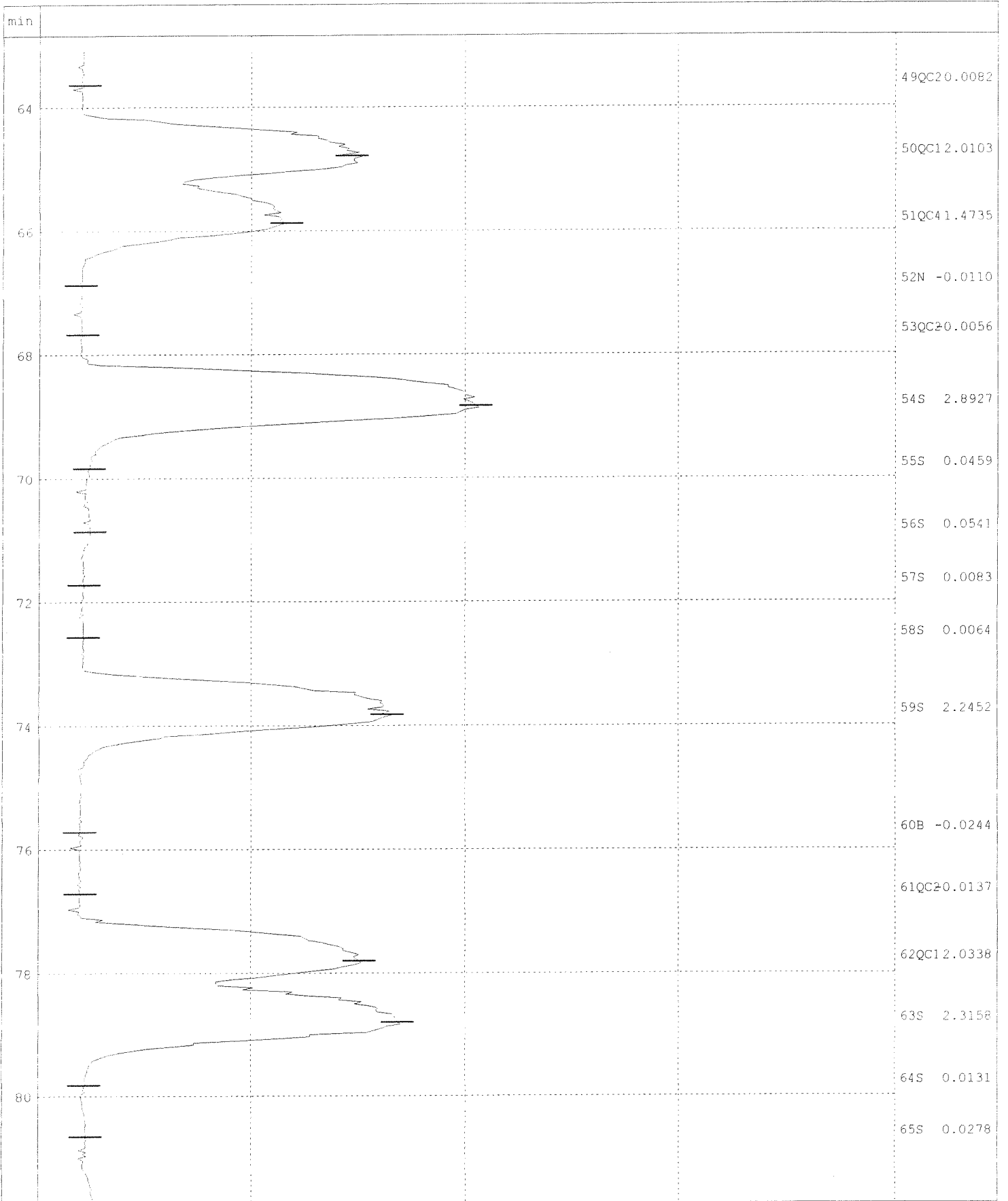
Name of run :100515B.RUN
Comment :

Name of analysis :NO2+NO3



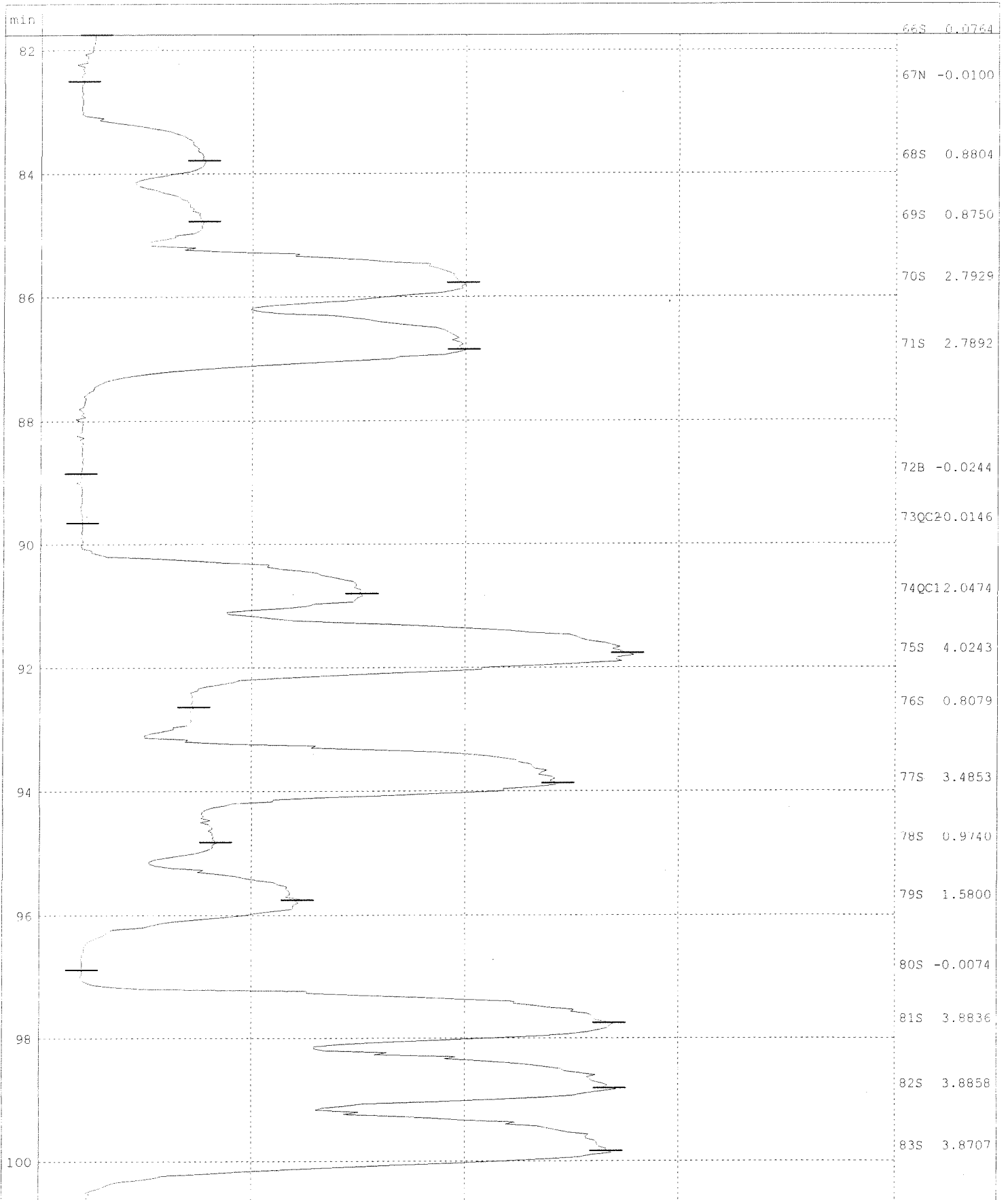
Name of run :100515B.RUN
Comment :

Name of analysis :NO2+NO3



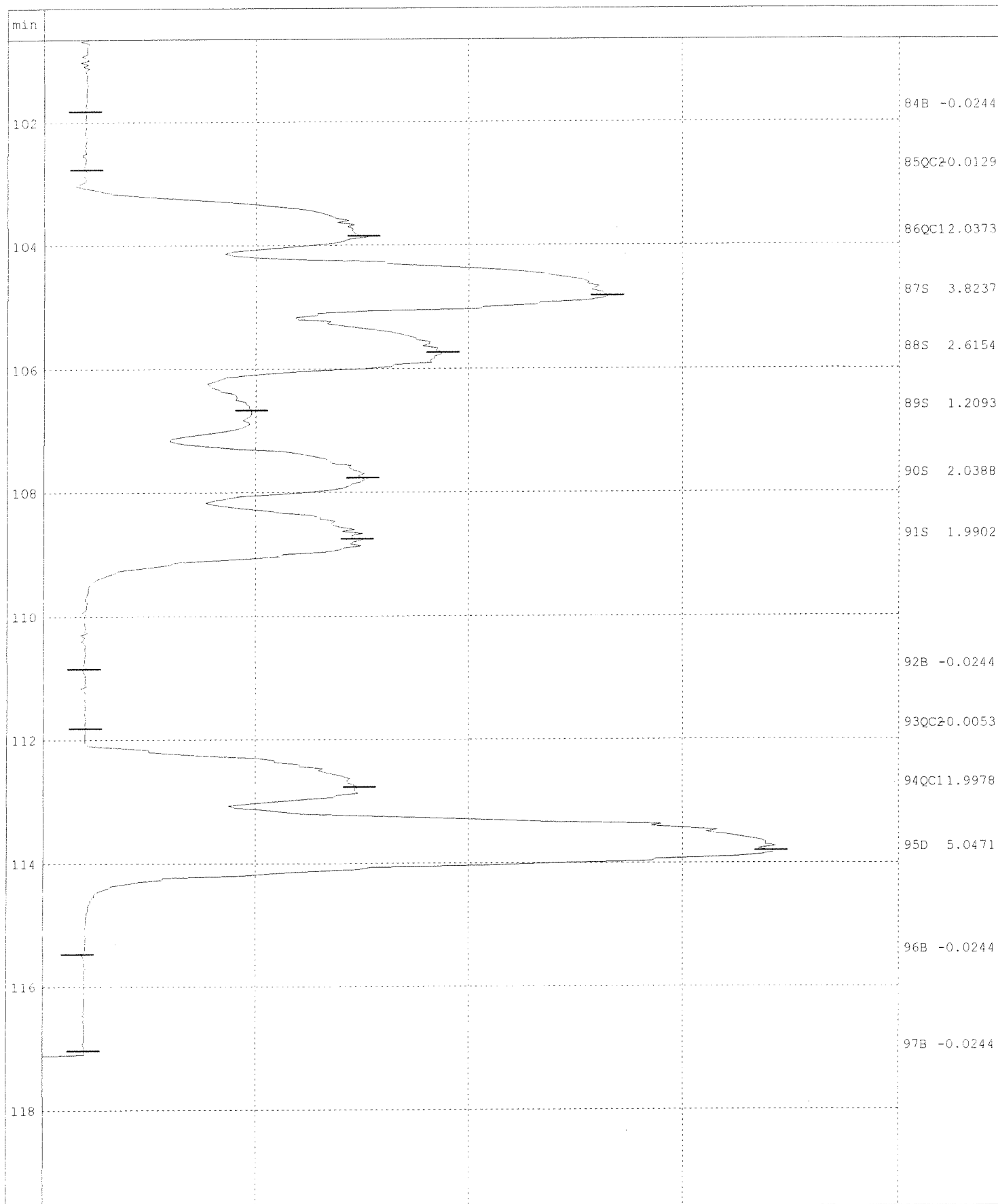
Name of run :100515B.RUN
Comment :

Name of analysis :NO2+NO3



Name of run :100515B.RUN
Comment :

Name of analysis :NO2+NO3



Work Request # ^{Original} 174814
 Tier: III
 Date Analyzed: 5/14/10
 Analyst: [Signature]
 Analysis: 365.3 [Signature] [Signature]
test 5/14/10

200656

**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: 5/14/10 DQREPORT

Analytical Results Summary

Instrument Name: K-UV-VIS-01		Analyst: SARWOOD		Analysis Lot: 200656		Method/Testcode: 365.3/O Phos T								
ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1004814-001	Orthophosphate as Phosphorus	N/A		Water	0.02 mg/L	50 mL	0.025 mg/L	1	0.004	0.010			5/14/10 07:30:00	N V
1004814-002	Orthophosphate as Phosphorus	N/A		Water	0.03 mg/L	50 mL	0.032 mg/L	1	0.004	0.010			5/14/10 07:30:00	N V
1004814-003	Orthophosphate as Phosphorus	N/A		Water	0.18 mg/L	50 mL	0.181 mg/L	1	0.004	0.010			5/14/10 07:30:00	N V
1004814-004	Orthophosphate as Phosphorus	N/A		Water	0.18 mg/L	50 mL	0.179 mg/L	1	0.004	0.010			5/14/10 07:30:00	N V
1004814-005	Orthophosphate as Phosphorus	N/A		Water	0.05 mg/L	50 mL	0.051 mg/L	1	0.004	0.010			5/14/10 07:30:00	N V
1004814-006	Orthophosphate as Phosphorus	N/A		Water	0.06 mg/L	50 mL	0.059 mg/L	1	0.004	0.010			5/14/10 07:30:00	N V
Q1004347-01	Orthophosphate as Phosphorus	CCB		Water	0.00 mg/L	50 mL	0.010 mg/L	U 1	0.004	0.010			5/14/10 07:30:00	N V
Q1004347-02	Orthophosphate as Phosphorus	CCV		Water	0.49 mg/L	50 mL	49.4 mg/L	1	0.4	1.0			5/14/10 07:30:00	N V
Q1004347-03	Orthophosphate as Phosphorus	MB		Water	0.00 mg/L	50 mL	0.010 mg/L	U 1	0.004	0.010			5/14/10 07:30:00	N V
Q1004347-04	Orthophosphate as Phosphorus	LCS		Water	0.33 mg/L	5 mL	3.35 mg/L	1	0.04	0.10	94		5/14/10 07:30:00	N V
Q1004347-05	Orthophosphate as Phosphorus	MS	K1004814-003	Water	0.37 mg/L	50 mL	0.375 mg/L	1	0.004	0.010	97	5	5/14/10 07:30:00	N V
Q1004347-06	Orthophosphate as Phosphorus	DMS	K1004814-003	Water	0.59 mg/L	50 mL	0.591 mg/L	1	0.004	0.010	102	45	5/14/10 07:30:00	N V
Q1004347-07	Orthophosphate as Phosphorus	DUP	K1004814-003	Water	0.18 mg/L	50 mL	0.180 mg/L	1	0.004	0.010		1	5/14/10 07:30:00	N V
Q1004347-08	Orthophosphate as Phosphorus	CCV		Water	0.49 mg/L	0.5 mL	49.0 mg/L	1	0.4	1.0			5/14/10 07:30:00	N V
Q1004347-09	Orthophosphate as Phosphorus	CCB		Water	0.00 mg/L	50 mL	0.010 mg/L	U 1	0.004	0.010			5/14/10 07:30:00	N V
Q1004347-10	Orthophosphate as Phosphorus	CCV		Water	0.49 mg/L	0.5 mL	49.0 mg/L	1	0.4	1.0			5/14/10 07:30:00	N V
Q1004347-11	Orthophosphate as Phosphorus	CCB		Water	0.00 mg/L	50 mL	0.010 mg/L	U 1	0.004	0.010			5/14/10 07:30:00	N V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

SARWOOD
5/14/10

294

DU520 S/N: 0112U2001732 1.03
 14-MAY-10 08:23:15 SCA Group 0818
 Wavelength: 650.0 nm
 Formula: $A=a+bC$ a: -0.0023 b: 2.0449

Sample	Net A	Dil X	mg/L
0001	CCB 0.001	1.0000	0.0014 CCB
0002	CCV 1.009	1.0000	0.4943
0003	MB -0.001	1.0000	0.0004
0004	LCS 0.708 ^{1/10}	1.0000	0.3472
0005	K4814-1 0.048	1.0000	0.0246
0006	MTI-2 0.063	1.0000	0.0320
0007	-3 0.368	1.0000	0.1811
0008	-3d 0.366	1.0000	0.1800
0009	-3ms 0.764	1.0000	0.3747
0010	-3msd 1.206	1.0000	0.5907
0011	-4 0.363	1.0000	0.1788
0012	-5 0.102	1.0000	0.0510
0013	CCB2 0.002	1.0000	0.0019
0014	CCV2 0.999	1.0000	0.4897
0015	K4814-6 0.118	1.0000	0.0590
0016	CCB3 -0.000	1.0000	0.0011
0017	CCV3 0.999	1.0000	0.4897

SA
5/14/10

DU520 S/N: 0112U2001732 1.03
14-MAY-10 08:21:59 SCA
Wavelength: 650.0 nm
Formula: $A=a+bC$ a: -0.0023 b: 2.0449

off
5/14/10 K4814
730

mg/L	Net A	r2=1.000	Var=0.0000
0.0000	-0.000		
0.0100	0.020		
0.0500	0.102		
0.1000	0.196		
0.2000	0.405		
0.5000	1.024		
0.7000	1.428		

CURVE ID#: PO3/3-4-L
CCU ID#: PO3/3-24-L

5/14/10

Service Request Summary

Folder #: K1004645
Client Name: Evergreen Packaging, Inc.
Project Name: Pine Bluff BAT Cluster
Project Number:

Report To: James Ellison
 Evergreen Packaging, Inc.
 5201 Fairfield Road
 Pine Bluff, AR 71601
 870-541-5720

Phone Number: 870-541-5720
Cell Number:
Fax Number: 870-541-5507
E-mail: james_ellison@everpack.com

Project Chemist: Rani Senkbeil
Originating Lab: KEISO
Logged By: BTOBIN
Date Received: 5/8/10
Internal Due Date: 5/17/10
QAP: LAB QAP
Qualifier Set: CAS Standard
Formset: CAS Standard
Merged?: Y
Report to MDL?: N, Y
P.O. Number: S026231869
EDD: BASIC_WOQC

7 - 250 mL-Glass Bottle NM AMBER Teflon Liner HNO3
 2 - 1000 mL-Glass Bottle NM AMBER H2SO4
Location: In Lab, K-Disposed
NPDES

CAS Samp No.	Client Samp No.	Matrix	Collected	GenChem	SVM
K1004645-001	Johnson Lake 042910	Water	4/29/10 0500	1650C/ AOX	
K1004645-002	Johnson Lake 043010	Water	4/30/10 0500		1653A/ CHLOR_PHEN
K1004645-003	Johnson Lake 050110	Water	5/1/10 0500		
K1004645-004	Johnson Lake 050210	Water	5/2/10 0500		
K1004645-005	Johnson Lake 050310	Water	5/3/10 0500		
K1004645-006	Johnson Lake 050410	Water	5/4/10 0500		
K1004645-007	Johnson Lake 050510	Water	5/5/10 0500		
K1004645-008	Bleach Plant Outfall 01A B-Line Pine	Water	5/4/10 0700		
K1004645-009	Bleach Plant Outfall 01B C-Line	Water	5/4/10 0700		

1/2
 1/2
 1/2

Folder Comments:
 Report to MRL except for Chlorophenolics; ***Data due to client by morning of the 19th of following month

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	CHLOR_PHEN/1653A	8-9	Report to MDL

Work Request # ^{Original} (476) 4791 4811 4870 4935 4971 4842
 Tier: 1 1 V V V 11 11
 Date Analyzed: 5.18.10
 Analyst: ab
 Analysis: alk, h, ar, carb, OH⁻

201590

**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:

4870-515d high RPD reanalyze to confirm
 4842-2-7 insufficient QC reanalyze w/ enough.

4971, 4935 due 5.26

reanalyze 4791-1, 2, 11; 4935-1 per W

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: 5.18.10
Time: 1545

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/11-78-L
Cond/1-79-K

Reagents: Concentration

HCl ²⁷ H2SO4: 0.020 N

Log #

RCC 1002358

Reg Level Reference: 50 mg/L

High Level Reference: 5000 mg/L

LCS/MS Solution: 1000 mg/L

ERA 5161-698

* 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	7.02		0.09						3.1
2	%REC=103 LCS	30.0	9.03		2.10						70.1
3	4765-1	30.0	7.21		4.13						138
4	4765-2	30.0	6.83		3.53						118
5	4765-3	30.0	7.26		3.94						131
6	4765-4	30.0	6.41		1.01			<9	325		33.5
7	X=<9 LL 4791-1	10.0	5.16		0.06						5.7
8	RPD-- 4791-1d	10.0	5.12		0.06						5.8
9	LL 4791-2	10.0	5.54		0.09						8.8
10	4791-3	15.0	6.53		1.88			<9	125		125
11	LL 4791-4	10.0	5.82		0.16						16.0
12	4814-1	15.0	7.06		3.52			<9	<9	234	234
13	4814-2	30.0	7.31		4.14			<9	<9	138	138
14	4814-3	30.0	7.35		10.55			<9	<9	352	352
15	4814-4	30.0	7.32		12.01			<9	<9	400	400
16	X=244 4814-5	30.0	7.12		7.20			<9	<9	240	240
16	RPD=3 4814-5d	30.0	7.13		7.40			<9	<9	247	247
17	4814-6	30.0	7.11		7.34			<9	<9	245	245
18	4870-1	15.0	6.77		3.35			<9	<9	223	223
19	4870-2	15.0	6.65		3.21			<9	<9	211	214
20	4870-3	15.0	7.13		5.41			<9	<9	360	360
21	4870-4	30.0	6.75		3.54			<9	14	118	118
22	X=210 4870-5	15.0	7.65		2.81						187
23	RPD=21 4870-5d	15.0	7.85		3.48						232
24	LL 4935-1	30.0	6.39		0.47						15.8
25	4935-2	30.0	6.60		0.82						27.2
26	4935-3	30.0	6.48		0.64						21.4
27	4935-4	30.0	6.44		0.66						22.0
28	X=233 4971-2	15.0	6.81		3.53						235
29	RPD=2 4971-2d	15.0	6.76		3.47						231
30	4971-5	30.0	7.57		2.64						88.1
31	4843-1	30.0	8.23		8.74						291
32	NR 4843-2	30.0	7.76		7.82						261
33	NR 4843-3	30.0	8.11		4.38						146
34	NR 4843-4	10.0	7.39		12.25						1225
35	NR 4843-5	10.0	7.61		12.15						1215
36	NR 4843-6	30.0	7.30		10.24						341

NR
NR

NR
NR
NR
NR

NR
NR
NR

NR

SMH 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 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

Log #: _____

Reg Level Reference: 50 mg/L

High Level Reference: 5000 mg/L

LCS/MS Solution: 1000 mg/L

* 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	NR	4843-7	30.0	7.35	17.30						577
38		MB2	30.0	5.74	0.07						2.4
39	%REC=101	LCS2	30.0	8.97	2.06						68.6
40											
41											
42											
43											
44											
45											
46											
47											
48											
49											
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Date: 05/19/2010
 RunID = Z0518101634
 InstrumentID = SN=1234A
 Site Name = Your Company Name Here
 Analyst = ACQWE
 Test Name/ID = Alkalinity
 Titrant Name/ID = 0.02 N HCl
 Standard(s) Name/ID =

Handwritten signature and date:
 5/19/10

Test ID	LIMS ID	Meth ID	SmplID	PH	SmplVol	Tot Vol	SmplResults	Units	Recv %	End Pt	Slope (r)	Calc C	Date	Time	Analyst	Run ID	Instr ID
AkAlint	MB	1	1	7.02	30		3.1297	ppmL	144.4	mV	57.98	03345	05-18-10	17:23	ACQWE	Z0518101634	SN=123
AkAlint	LCS	1	2	9.03	30		41.484	ppmL	76.0	mV	57.98	03345	05-18-10	17:26	ACQWE	Z0518101634	SN=123
AkAlint	LCS	1	2	9.03	30		70.139	ppmL	144.4	mV	57.98	03345	05-18-10	17:26	ACQWE	Z0518101634	SN=123
AkAlint	K1004765-001.06	1	3	7.21	30		137.92	ppmL	144.4	mV	57.98	03345	05-18-10	17:34	ACQWE	Z0518101634	SN=123
AkAlint	K1004765-002.06	1	4	6.83	30		117.68	ppmL	144.4	mV	57.98	03345	05-18-10	17:43	ACQWE	Z0518101634	SN=123
AkAlint	K1004765-003.06	1	5	7.26	30		131.35	ppmL	144.4	mV	57.98	03345	05-18-10	17:47	ACQWE	Z0518101634	SN=123
AkAlint	K1004765-004.06	1	6	6.41	30		33.651	ppmL	144.4	mV	57.98	03345	05-18-10	17:55	ACQWE	Z0518101634	SN=123
AkAlint	K1004791-001.3x	1	7	5.16	30		1.9043	ppmL	144.4	mV	57.98	03345	05-18-10	17:59	ACQWE	Z0518101634	SN=123
AkAlint	K1004791-001D.3x	1	8	5.12	30		1.9335	ppmL	144.4	mV	57.98	03345	05-18-10	18:02	ACQWE	Z0518101634	SN=123
AkAlint	K1004791-002.3x	1	9	5.54	30		2.9298	ppmL	144.4	mV	57.98	03345	05-18-10	18:05	ACQWE	Z0518101634	SN=123
AkAlint	K1004791-003.2x	1	10	6.53	30		62.657	ppmL	144.4	mV	57.98	03345	05-18-10	18:09	ACQWE	Z0518101634	SN=123
AkAlint	K1004791-904.3x	1	11	5.82	30		5.3241	ppmL	144.4	mV	57.98	03345	05-18-10	18:14	ACQWE	Z0518101634	SN=123
AkAlint	K1004814-001.2x	1	12	7.06	30		117.34	ppmL	144.4	mV	57.98	03345	05-18-10	18:18	ACQWE	Z0518101634	SN=123
AkAlint	K1004814-002.03	1	13	7.31	30		136.14	ppmL	144.4	mV	57.98	03345	05-18-10	18:24	ACQWE	Z0518101634	SN=123
AkAlint	K1004814-003.03	1	14	7.35	30		351.91	ppmL	144.4	mV	57.98	03345	05-18-10	18:32	ACQWE	Z0518101634	SN=123
AkAlint	K1004814-004.03	1	15	7.32	30		400.80	ppmL	144.4	mV	57.98	03345	05-18-10	18:41	ACQWE	Z0518101634	SN=123
AkAlint	K1004814-005	1	16	7.12	30		240.11	ppmL	144.4	mV	57.98	03345	05-18-10	18:49	ACQWE	Z0518101634	SN=123
AkAlint	K1004814-005d	1	17	7.13	30		246.88	ppmL	144.4	mV	57.98	03345	05-18-10	18:57	ACQWE	Z0518101634	SN=123
AkAlint	K1004870-006504/61	1	18	7.11	30		244.96	ppmL	144.4	mV	57.98	03345	05-18-10	19:05	ACQWE	Z0518101634	SN=123
AkAlint	K1004870-001.2x	1	19	6.77	30		111.66	ppmL	144.4	mV	57.98	03345	05-18-10	19:12	ACQWE	Z0518101634	SN=123
AkAlint	K1004870-002.2x	1	20	6.65	30		107.11	ppmL	144.4	mV	57.98	03345	05-18-10	19:17	ACQWE	Z0518101634	SN=123
AkAlint	K1004870-003.2x	1	21	7.18	30		180.36	ppmL	144.4	mV	57.98	03345	05-18-10	19:21	ACQWE	Z0518101634	SN=123
AkAlint	K1004870-004	1	22	6.75	30		117.95	ppmL	144.4	mV	57.98	03345	05-18-10	19:26	ACQWE	Z0518101634	SN=123
AkAlint	K1004870-005.2x	1	23	7.65	30		93.675	ppmL	144.4	mV	57.98	03345	05-18-10	19:30	ACQWE	Z0518101634	SN=123
AkAlint	K1004870-5d.2x	1	24	7.85	30		115.92	ppmL	144.4	mV	57.98	03345	05-18-10	19:35	ACQWE	Z0518101634	SN=123
AkAlint	K1004935-001	1	25	6.39	30		15.820	ppmL	144.4	mV	57.98	03345	05-18-10	19:39	ACQWE	Z0518101634	SN=123
AkAlint	K1004935-002	1	26	6.60	30		27.176	ppmL	144.4	mV	57.98	03345	05-18-10	19:43	ACQWE	Z0518101634	SN=123
AkAlint	K1004935-003	1	27	6.48	30		21.456	ppmL	144.4	mV	57.98	03345	05-18-10	19:48	ACQWE	Z0518101634	SN=123
AkAlint	K1004935-004	1	28	6.44	30		22.067	ppmL	144.4	mV	57.98	03345	05-18-10	19:52	ACQWE	Z0518101634	SN=123
AkAlint	K1004971-002.2x	1	29	6.81	30		117.85	ppmL	144.4	mV	57.98	03345	05-18-10	19:56	ACQWE	Z0518101634	SN=123
AkAlint	K1004971-002d.2x	1	30	6.76	30		115.74	ppmL	144.4	mV	57.98	03345	05-18-10	20:00	ACQWE	Z0518101634	SN=123
AkAlint	K1004971-005	1	31	7.57	30		89.171	ppmL	144.4	mV	57.98	03345	05-18-10	20:04	ACQWE	Z0518101634	SN=123
AkAlint	K1004843-001.04	1	32	8.23	30		291.44	ppmL	144.4	mV	57.98	03345	05-18-10	20:09	ACQWE	Z0518101634	SN=123

Test ID	LIMS ID	Meth ID	Smpl ID	pH	SmpVol	Tot Vol	SmplResults	Units	Recv %	End Pt	Slope (r)	Calc C	Date	Time	Analyst	Run ID	Inst ID
Akalint	K1004843-002.04	1	33	7.76	30		260.96	ppmf		144.4 mV	57.98	03345	05-18-10	20:19	ACQWE	Z0518101634	SN=123
Akalint	K1004843-003	1	34	8.11	30		146.21	ppmf		144.4 mV	57.98	03345	05-18-10	20:28	ACQWE	Z0518101634	SN=123
Akalint	K1004843-004.3X	1	35	7.39	30		408.52	ppmf		144.4 mV	57.98	03345	05-18-10	20:36	ACQWE	Z0518101634	SN=123
Akalint	K1004843-005.3X	1	36	7.61	30		405.20	ppmf		144.4 mV	57.98	03345	05-18-10	20:45	ACQWE	Z0518101634	SN=123
Akalint	K1004843-006.04	1	37	7.30	30		341.63	ppmf		144.4 mV	57.98	03345	05-18-10	20:55	ACQWE	Z0518101634	SN=123
Akalint	K1004843-007	1	38	7.35	30		577.31	ppmf		144.4 mV	57.98	03345	05-18-10	21:04	ACQWE	Z0518101634	SN=123
Akalint	MB2	1	39	5.74	30		2.4268	ppmf		144.4 mV	57.98	03345	05-18-10	21:12	ACQWE	Z0518101634	SN=123
Akalint	LC52	1	40	8.97	30		35.530	ppmf		-76.0 mV	57.98	03345	05-18-10	21:16	ACQWE	Z0518101634	SN=123
Akalint	LC52	1	40	8.97	30		68.672	ppmf		144.4 mV	57.98	03345	05-18-10	21:16	ACQWE	Z0518101634	SN=123

6/11/10



Work Request # (^{Original}) 4765, 4814, 4843, 4856
 Tier: I III II I
 Date Analyzed: 5-15-10
 Analyst: CES
 Analysis: TDS 200773

**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: 6/1/10 DQREPORT

Analytical Results Summary

Instrument Name: K-Balance-31 Analyst: CSETHE Analysis Lot: 200773 Method/Testcode: SM 2540 C/TDS

Ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1004765-004	Solids, Total Dissolved	N/A		Water	53.00 mg/L	100 ml	53.0 mg/L	1	5.0	5.0			5/15/10 15:45	N I
1004814-001	Solids, Total Dissolved	N/A		Water	391.00 mg/L	100 ml	391 mg/L	1	5.0	5.0			5/15/10 15:45	N V
1004814-002	Solids, Total Dissolved	N/A		Water	540.00 mg/L	100 ml	540 mg/L	1	5.0	5.0			5/15/10 15:45	N V
1004814-003	Solids, Total Dissolved	N/A		Water	526.00 mg/L	100 ml	526 mg/L	1	5.0	5.0			5/15/10 15:45	N V
1004814-004	Solids, Total Dissolved	N/A		Water	572.00 mg/L	75 ml	572 mg/L	1	5.0	5.0			5/15/10 15:45	N V
1004814-005	Solids, Total Dissolved	N/A		Water	255.00 mg/L	100 ml	255 mg/L	1	5.0	5.0			5/15/10 15:45	N V
1004814-006	Solids, Total Dissolved	N/A		Water	259.00 mg/L	100 ml	259 mg/L	1	5.0	5.0			5/15/10 15:45	N V
1004843-001	Solids, Total Dissolved	N/A		Water	365.00 mg/L	100 ml	365 mg/L	1	5.0	5.0			5/15/10 15:45	N II
1004843-002	Solids, Total Dissolved	N/A		Water	333.00 mg/L	100 ml	333 mg/L	1	5.0	5.0			5/15/10 15:45	N II
1004843-003	Solids, Total Dissolved	N/A		Water	299.00 mg/L	100 ml	299 mg/L	1	5.0	5.0			5/15/10 15:45	N II
1004843-004	Solids, Total Dissolved	N/A		Water	1776.00 mg/L	50 ml	1780 mg/L	1	5.0	5.0			5/15/10 15:45	N II
1004843-005	Solids, Total Dissolved	N/A		Water	1476.00 mg/L	75 ml	1480 mg/L	1	5.0	5.0			5/15/10 15:45	N II
1004843-006	Solids, Total Dissolved	N/A		Water	1433.30 mg/L	75 ml	1430 mg/L	1	5.0	5.0			5/15/10 15:45	N II
1004843-007	Solids, Total Dissolved	N/A		Water	1121.30 mg/L	75 ml	1120 mg/L	1	5.0	5.0			5/15/10 15:45	N II
1004843-008	Solids, Total Dissolved	N/A		Water	1542.70 mg/L	75 ml	1540 mg/L	1	5.0	5.0			5/15/10 15:45	N II
1004843-009	Solids, Total Dissolved	N/A		Water	255.00 mg/L	100 ml	255 mg/L	1	5.0	5.0			5/15/10 15:45	N II
1004843-010	Solids, Total Dissolved	N/A		Water	430.00 mg/L	100 ml	430 mg/L	1	5.0	5.0			5/15/10 15:45	N II
1004856-001	Solids, Total Dissolved (TDS)	N/A		Drinking Water	206.00 mg/L	50 ml	206 mg/L	1	5.0	5.0			5/15/10 15:45	N I
Q1004404-01	Solids, Total Dissolved	MB		Water	2.00 mg/L	200 ml	5.0 mg/L	1	5.0	5.0			5/15/10 15:45	N I
Q1004404-02	Solids, Total Dissolved	MB		Water	1.50 mg/L	200 ml	5.0 mg/L	1	5.0	5.0			5/15/10 15:45	N I
Q1004404-03	Solids, Total Dissolved	LCS		Water	708.00 mg/L	50 ml	708 mg/L	1	5.0	5.0	94		5/15/10 15:45	N I
Q1004404-04	Solids, Total Dissolved	DUP	K1004843-004	Water	1794.00 mg/L	50 ml	1790 mg/L	1	5.0	5.0			5/15/10 15:45	N II
Q1004404-05	Solids, Total Dissolved (TDS)	DUP	K1004856-001	Drinking Water	218.00 mg/L	50 ml	218 mg/L	1	5.0	5.0		6	5/15/10 15:45	N I


 5/11/10

304

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

CES
 5/28/10

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #: _____
 Analysis: _____ Total Dissolved Solids _____

Method: EPA SM 2540 C

200773

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	Amber2		200	108.7929	108.7925		108.7925	0.0004	2	<5.0
MB	BLANK		200	117.0078	117.0079		117.0075	0.0003	2	<5.0
LCS	49A		50	66.1549	66.1545		66.1195	0.0354	708	708
K1004765-004	13 C	78	100	73.0539	73.0541		73.0486	0.0053	53	53.0
K1004814-001	Herbie	659	100	66.1138	66.1139		66.0747	0.0391	391	391
K1004814-002	45 S	921	100	75.9451	75.9448		75.8911	0.0540	540	540
K1004814-003	36 S	932	100	76.8718	76.8722		76.8192	0.0526	526	526
K1004814-004	24 C	1030	75	70.3401	70.3402		70.2972	0.0429	572	572
K1004814-005	Blue	418	100	72.6398	72.6403		72.6143	0.0255	255	255
K1004814-006	E85	394	100	86.4373	86.4372		86.4114	0.0259	259	259
K1004843-001	horse	605	100	76.2518	76.2521		76.2153	0.0365	365	365
K1004843-002	6 S	532	100	72.2267	77.2268		72.1934	0.0333	333	333
K1004843-003	C	515	100	73.0506	73.0510		73.0207	0.0299	299	299
K1004843-004	I	3570	50	74.0682	74.0686		73.9794	0.0888	1776	1780
K1004843-005	B13	2770	75	80.7471	80.7471		80.6364	0.1107	1476	1480
K1004843-006	Troc	2460	75	65.1728	65.1731		65.0653	0.1075	1433	1430
K1004843-007	90210	1900	75	88.4474	88.4469		88.3633	0.0841	1121	1120
K1004843-008	23 S	1850	75	74.2325	74.2322		74.1168	0.1157	1543	1540
K1004843-009	XX	428	100	74.7574	75.7576		74.7319	0.0255	255	255
K1004843-010	R10	716	100	80.1795	80.1798		80.1365	0.0430	430	430
K1004856-001	D451	5900	50	85.4020	85.4016		85.3917	0.0103	206	206
K1004843-004d	29 S	3570	50	76.1037	76.1039		76.0140	0.0897	1794	1790
K1004856-001d	Mr. Fish	5900	50	68.7202	68.7206		68.7093	0.0109	218	218
							0n,0	#VALUE!	#VALUE!	#VALUE!
				GES	5/28/10			0.0000	#DIV/0!	#DIV/0!

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 =

Wt (1) Start	1710		Wt (2) Start	1450	5.17	Wt (3) Start	1030	
Stop	1450	5.17	Stop	0900		Stop	1330	
Wt (1) Start	105		Wt (2) Start	180		Wt (3) Start	180	
Temp Stop	105		Temp Stop	179		Temp Stop	178	

Analyzed By: GES Date Analyzed: 5/15/2010 15:45
 Reviewed By: [Signature] Date Reviewed: 6/1/10

Metals

Columbia Analytical Services

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

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

Service Request: K1004814

<u>Sample Name:</u>	<u>Lab Code:</u>
<u>BH-1</u>	<u>K1004814-001 DISS</u>
<u>BH-2</u>	<u>K1004814-002 DISS</u>
<u>BH-2D</u>	<u>K1004814-002D DISS</u>
<u>BH-2S</u>	<u>K1004814-002S DISS</u>
<u>5add</u>	<u>K1004814-003</u>
<u>5addD</u>	<u>K1004814-003D</u>
<u>5addS</u>	<u>K1004814-003S</u>
<u>4bcd</u>	<u>K1004814-004</u>
<u>14aaa</u>	<u>K1004814-005</u>
<u>3b</u>	<u>K1004814-006</u>
<u>Method Blank</u>	<u>K1004814-MB</u>

Comments:

Approved By: _____



Date: _____



Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004814
 Project No.: 0907194.000.0601 Date Collected: 5/12/2010
 Project Name: Heglar-Kronquist Date Received: 5/13/2010
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: BH-1 Lab Code: K1004814-001 DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/20/10	05/26/10	66		
Antimony	200.8	0.050	0.005	1.0	05/20/10	05/21/10	29.7		
Arsenic	200.8	0.5	0.1	1.0	05/20/10	05/21/10	3.1		
Barium	200.7	5.0	0.6	1.0	05/20/10	05/26/10	93.1		
Beryllium	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.018	J	
Cadmium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.172		
Calcium	200.7	50.0	6.0	1.0	05/20/10	05/26/10	68600		
Chromium	200.8	0.20	0.02	1.0	05/20/10	05/21/10	0.23		
Cobalt	200.8	0.020	0.006	1.0	05/20/10	05/21/10	1.230		
Copper	200.8	0.10	0.02	1.0	05/20/10	05/21/10	0.61		
Iron	200.7	20.0	0.8	1.0	05/20/10	05/26/10	55.4		
Lead	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.094		
Magnesium	200.7	20.0	0.3	1.0	05/20/10	05/26/10	27200		
Manganese	200.7	5.0	0.2	1.0	05/20/10	05/26/10	60.9		
Mercury	7470A	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.02	1.0	05/20/10	05/21/10	2.30		
Potassium	200.7	400	40	1.0	05/20/10	05/26/10	5650		
Selenium	200.8	3.0	0.3	1.0	05/20/10	05/21/10	2.9	J	X
Silver	200.8	0.020	0.004	1.0	05/20/10	05/21/10	0.004	U	
Sodium	200.7	100	20	1.0	05/20/10	05/26/10	31400		
Thallium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.028		
Vanadium	200.8	0.20	0.03	1.0	05/20/10	05/21/10	17.0		
Zinc	200.8	0.5	0.2	1.0	05/20/10	05/21/10	1.4		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004814
 Project No.: 0907194.000.0601 Date Collected: 05/12/10
 Project Name: Heglar-Kronquist Date Received: 05/13/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: BH-2 Lab Code: K1004814-002 DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/20/10	05/26/10	30	U	
Antimony	200.8	0.050	0.005	1.0	05/20/10	05/21/10	0.231		
Arsenic	200.8	0.5	0.1	1.0	05/20/10	05/21/10	0.2	J	
Barium	200.7	5.0	0.6	1.0	05/20/10	05/26/10	45.1		
Beryllium	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.006	U	
Cadmium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.126		
Calcium	200.7	50.0	6.0	1.0	05/20/10	05/26/10	99400		
Chromium	200.8	0.20	0.02	1.0	05/20/10	05/21/10	0.05	J	
Cobalt	200.8	0.020	0.006	1.0	05/20/10	05/21/10	7.820		
Copper	200.8	0.10	0.02	1.0	05/20/10	05/21/10	0.86		
Iron	200.7	20.0	0.8	1.0	05/20/10	05/26/10	636		
Lead	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.017	J	
Magnesium	200.7	20.0	0.3	1.0	05/20/10	05/26/10	37400		
Manganese	200.7	5.0	0.2	1.0	05/20/10	05/26/10	833		
Mercury	7470A	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.02	1.0	05/20/10	05/21/10	10.9		
Potassium	200.7	400	40	1.0	05/20/10	05/26/10	5880		
Selenium	200.8	1.0	0.3	1.0	05/20/10	05/21/10	0.3	U	
Silver	200.8	0.020	0.004	1.0	05/20/10	05/21/10	0.004	U	
Sodium	200.7	100	20	1.0	05/20/10	05/26/10	35400		
Thallium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.005	J	
Vanadium	200.8	0.20	0.03	1.0	05/20/10	05/21/10	0.14	J	
Zinc	200.8	0.5	0.2	1.0	05/20/10	05/21/10	36.9		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004814
 Project No.: 0907194.000.0601 Date Collected: 05/12/10
 Project Name: Heglar-Kronquist Date Received: 05/13/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: 5add Lab Code: K1004814-003

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/20/10	05/26/10	30	U	
Antimony	200.8	0.050	0.005	1.0	05/20/10	05/21/10	0.362		
Arsenic	200.8	0.5	0.1	1.0	05/20/10	05/21/10	20.0		
Barium	200.7	5.0	0.6	1.0	05/20/10	05/26/10	124		
Beryllium	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.006	U	
Cadmium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.057		
Calcium	200.7	50.0	6.0	1.0	05/20/10	05/26/10	93400		
Chromium	200.8	0.20	0.02	1.0	05/20/10	05/21/10	3.24		
Cobalt	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.378		
Copper	200.8	0.10	0.02	1.0	05/20/10	05/21/10	7.22		
Iron	200.7	20.0	0.8	1.0	05/20/10	05/26/10	87.3		
Lead	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.705		
Magnesium	200.7	20.0	0.3	1.0	05/20/10	05/26/10	42100		
Manganese	200.7	5.0	0.2	1.0	05/20/10	05/26/10	1.3	J	
Mercury	7470A	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.02	1.0	05/20/10	05/21/10	2.28		
Potassium	200.7	400	40	1.0	05/20/10	05/26/10	7040		
Selenium	200.8	1.0	0.3	1.0	05/20/10	05/21/10	0.8	J	
Silver	200.8	0.020	0.004	1.0	05/20/10	05/21/10	0.013	J	
Sodium	200.7	100	20	1.0	05/20/10	05/26/10	42800		
Thallium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.005	U	
Vanadium	200.8	0.20	0.03	1.0	05/20/10	05/21/10	3.25		
Zinc	200.8	0.5	0.2	1.0	05/20/10	05/21/10	83.6		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004814
 Project No.: 0907194.000.0601 Date Collected: 05/12/10
 Project Name: Heglar-Kronquist Date Received: 05/13/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: 4bcd Lab Code: K1004814-004

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/20/10	05/26/10	30	U	
Antimony	200.8	0.050	0.005	1.0	05/20/10	05/21/10	0.247		
Arsenic	200.8	0.5	0.1	1.0	05/20/10	05/21/10	12.0		
Barium	200.7	5.0	0.6	1.0	05/20/10	05/26/10	130		
Beryllium	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.006	U	
Cadmium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.022		
Calcium	200.7	50.0	6.0	1.0	05/20/10	05/26/10	91200		
Chromium	200.8	0.20	0.02	1.0	05/20/10	05/21/10	2.89		
Cobalt	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.342		
Copper	200.8	0.10	0.02	1.0	05/20/10	05/21/10	6.97		
Iron	200.7	20.0	0.8	1.0	05/20/10	05/26/10	11.4	J	
Lead	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.418		
Magnesium	200.7	20.0	0.3	1.0	05/20/10	05/26/10	47200		
Manganese	200.7	5.0	0.2	1.0	05/20/10	05/26/10	0.2	U	
Mercury	7470A	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.02	1.0	05/20/10	05/21/10	2.03		
Potassium	200.7	400	40	1.0	05/20/10	05/26/10	7260		
Selenium	200.8	1.0	0.3	1.0	05/20/10	05/21/10	0.8	J	
Silver	200.8	0.020	0.004	1.0	05/20/10	05/21/10	0.013	J	
Sodium	200.7	100	20	1.0	05/20/10	05/26/10	60600		
Thallium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.005	U	
Vanadium	200.8	0.20	0.03	1.0	05/20/10	05/21/10	2.50		
Zinc	200.8	0.5	0.2	1.0	05/20/10	05/21/10	26.7		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004814
 Project No.: 0907194.000.0601 Date Collected: 05/12/10
 Project Name: Heglar-Kronquist Date Received: 05/13/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: 14aaa Lab Code: K1004814-005

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/20/10	05/26/10	30	U	
Antimony	200.8	0.050	0.005	1.0	05/20/10	05/21/10	0.030	J	
Arsenic	200.8	0.5	0.1	1.0	05/20/10	05/21/10	0.7		
Barium	200.7	5.0	0.6	1.0	05/20/10	05/26/10	99.1		
Beryllium	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.006	U	
Cadmium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.020		
Calcium	200.7	50.0	6.0	1.0	05/20/10	05/26/10	43400		
Chromium	200.8	0.20	0.02	1.0	05/20/10	05/21/10	0.21		
Cobalt	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.158		
Copper	200.8	0.10	0.02	1.0	05/20/10	05/21/10	12.8		
Iron	200.7	20.0	0.8	1.0	05/20/10	05/26/10	1170		
Lead	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.126		
Magnesium	200.7	20.0	0.3	1.0	05/20/10	05/26/10	16700		
Manganese	200.7	5.0	0.2	1.0	05/20/10	05/26/10	9.4		
Mercury	7470A	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.02	1.0	05/20/10	05/21/10	1.16		
Potassium	200.7	400	40	1.0	05/20/10	05/26/10	5360		
Selenium	200.8	1.0	0.3	1.0	05/20/10	05/21/10	0.3	U	
Silver	200.8	0.020	0.004	1.0	05/20/10	05/21/10	0.004	U	
Sodium	200.7	100	20	1.0	05/20/10	05/26/10	22700		
Thallium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.005	U	
Vanadium	200.8	0.20	0.03	1.0	05/20/10	05/21/10	3.26		
Zinc	200.8	0.5	0.2	1.0	05/20/10	05/21/10	109		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004814
 Project No.: 0907194.000.0601 Date Collected: 05/12/10
 Project Name: Heglar-Kronquist Date Received: 05/13/10
 Matrix: WATER Units: ug/L
 Basis: N/A

Sample Name: 3b Lab Code: K1004814-006

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/20/10	05/26/10	30	U	
Antimony	200.8	0.050	0.005	1.0	05/20/10	05/21/10	0.023	J	
Arsenic	200.8	0.5	0.1	1.0	05/20/10	05/21/10	0.7		
Barium	200.7	5.0	0.6	1.0	05/20/10	05/26/10	100		
Beryllium	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.006	U	
Cadmium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.009	J	
Calcium	200.7	50.0	6.0	1.0	05/20/10	05/26/10	44100		
Chromium	200.8	0.20	0.02	1.0	05/20/10	05/21/10	0.18	J	
Cobalt	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.170		
Copper	200.8	0.10	0.02	1.0	05/20/10	05/21/10	12.5		
Iron	200.7	20.0	0.8	1.0	05/20/10	05/26/10	1190		
Lead	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.128		
Magnesium	200.7	20.0	0.3	1.0	05/20/10	05/26/10	16900		
Manganese	200.7	5.0	0.2	1.0	05/20/10	05/26/10	10.3		
Mercury	7470A	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.02	1.0	05/20/10	05/21/10	1.22		
Potassium	200.7	400	40	1.0	05/20/10	05/26/10	5360		
Selenium	200.8	1.0	0.3	1.0	05/20/10	05/21/10	0.3	U	
Silver	200.8	0.020	0.004	1.0	05/20/10	05/21/10	0.004	U	
Sodium	200.7	100	20	1.0	05/20/10	05/26/10	22600		
Thallium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.005	U	
Vanadium	200.8	0.20	0.03	1.0	05/20/10	05/21/10	3.37		
Zinc	200.8	0.5	0.2	1.0	05/20/10	05/21/10	108		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1004814
 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: K1004814-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	05/20/10	05/26/10	30	U	
Antimony	200.8	0.050	0.005	1.0	05/20/10	05/21/10	0.005	U	
Arsenic	200.8	0.5	0.1	1.0	05/20/10	05/21/10	0.1	J	
Barium	200.7	5.0	0.6	1.0	05/20/10	05/26/10	0.6	U	
Beryllium	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.006	U	
Cadmium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.005	U	
Calcium	200.7	50.0	6.0	1.0	05/20/10	05/26/10	6.0	U	
Chromium	200.8	0.20	0.02	1.0	05/20/10	05/21/10	0.02	U	
Cobalt	200.8	0.020	0.006	1.0	05/20/10	05/21/10	0.006	U	
Copper	200.8	0.10	0.02	1.0	05/20/10	05/21/10	0.02	U	
Iron	200.7	20.0	0.8	1.0	05/20/10	05/26/10	0.8	U	
Lead	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.005	U	
Magnesium	200.7	20.0	0.3	1.0	05/20/10	05/26/10	0.3	U	
Manganese	200.7	5.0	0.2	1.0	05/20/10	05/26/10	0.2	U	
Mercury	7470A	0.20	0.02	1.0	05/25/10	05/27/10	0.02	U	
Nickel	200.8	0.20	0.02	1.0	05/20/10	05/21/10	0.02	U	
Potassium	200.7	400	40	1.0	05/20/10	05/26/10	40	U	
Selenium	200.8	1.0	0.3	1.0	05/20/10	05/21/10	0.3	U	
Silver	200.8	0.020	0.004	1.0	05/20/10	05/21/10	0.004	U	
Sodium	200.7	100	20	1.0	05/20/10	05/26/10	20	U	
Thallium	200.8	0.020	0.005	1.0	05/20/10	05/21/10	0.005	U	
Vanadium	200.8	0.20	0.03	1.0	05/20/10	05/21/10	0.03	U	
Zinc	200.8	0.5	0.2	1.0	05/20/10	05/21/10	0.2	U	

% Solids: 0.0

Comments:

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004814

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	5026	101	5000	4972	99	5028	101	200.7
Antimony	25.0	24.1	96	25.0	24.5	98	24.5	98	200.8
Arsenic	25.0	24.6	98	25.0	24.8	99	24.8	99	200.8
Barium	5000	5240	105	2500	2493	100	2491	100	200.7
Beryllium	2.50	2.51	100	25.00	24.70	99	25.14	101	200.8
Cadmium	12.5	12.5	100	25.0	24.9	100	24.7	99	200.8
Calcium	5000	5124	102	2500	2457	98	2400	96	200.7
Calcium	12500	12572	101	25000	25355	101	25669	103	200.7
Chromium	10.0	10.0	100	25.0	24.9	100	25.0	100	200.8
Cobalt	25.0	24.9	100	25.0	24.8	99	25.0	100	200.8
Copper	12.5	12.5	100	25.0	24.7	99	24.7	99	200.8
Iron	2500	2508	100	500	490	98	499	100	200.7
Iron	10000	9883	99	25000	24836	99	25195	101	200.7
Lead	25.0	24.9	100	25.0	24.6	98	24.8	99	200.8
Magnesium	5000	5021	100	2000	1980	99	1964	98	200.7
Magnesium	12500	12464	100	25000	25038	100	24961	100	200.7
Manganese	1250	1210	97	1000	960	96	966	97	200.7
Manganese	10000	10051	101	5000	4964	99	4925	98	200.7
Mercury	5.00	5.23	105	5.00	5.00	100	5.02	100	7470A
Nickel	25.0	24.8	99	25.0	24.6	98	24.7	99	200.8
Potassium	12500	12620	101	10000	9995	100	9906	99	200.7
Selenium	25.0	25.6	102	25.0	25.0	100	25.6	102	200.8
Silver	12.5	12.7	102	25.0	24.6	98	24.7	99	200.8
Sodium	12500	12259	98	10000	9738	97	9805	98	200.7
Thallium	25.0	25.7	103	25.0	24.5	98	24.9	100	200.8
Vanadium	25.0	25.4	102	25.0	25.0	100	25.0	100	200.8
Zinc	25.0	25.5	102	25.0	25.1	100	25.0	100	200.8

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004814

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	5032	101	5006	100	200.7
Antimony				25.0	24.6	98			200.8
Arsenic				25.0	24.9	100			200.8
Barium				2500	2491	100	2515	101	200.7
Beryllium				25.00	25.28	101			200.8
Cadmium				25.0	24.5	98			200.8
Calcium				2500	2425	97	2462	98	200.7
Calcium				25000	25335	101	25531	102	200.7
Chromium				25.0	24.9	100			200.8
Cobalt				25.0	24.9	100			200.8
Copper				25.0	24.9	100			200.8
Iron				500	504	101	510	102	200.7
Iron				25000	25133	101	25246	101	200.7
Lead				25.0	24.9	100			200.8
Magnesium				2000	1980	99	1979	99	200.7
Magnesium				25000	25119	100	25143	101	200.7
Manganese				1000	963	96	968	97	200.7
Manganese				5000	4957	99	4966	99	200.7
Mercury				5.00	4.93	99	4.77	95	7470A
Nickel				25.0	24.6	98			200.8
Potassium				10000	9956	100	9917	99	200.7
Selenium				25.0	24.7	99			200.8
Silver				25.0	24.9	100			200.8
Sodium				10000	9780	98	9831	98	200.7
Thallium				25.0	24.9	100			200.8
Vanadium				25.0	24.9	100			200.8
Zinc				25.0	25.0	100			200.8

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004814

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	5007	100			200.7
Barium				2500	2500	100			200.7
Calcium				2500	2448	98			200.7
Calcium				25000	25375	102			200.7
Iron				500	516	103			200.7
Iron				25000	25358	101			200.7
Magnesium				2000	1987	99			200.7
Magnesium				25000	25212	101			200.7
Manganese				1000	978	98			200.7
Manganese				5000	4968	99			200.7
Mercury				5.00	4.76	95	4.91	98	7470A
Potassium				10000	9959	100			200.7
Sodium				10000	9966	100			200.7

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1004814

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	4.94	99			7470A

Metals

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1004814

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				50.00	60.45	121		
Antimony				0.05	0.05	100		
Arsenic				0.5	0.59	118		
Barium				5.00	4.64	93		
Beryllium				0.02	0.023	115		
Cadmium				0.020	0.016	80		
Calcium				50.00	42.86	86		
Chromium				0.20	0.19	95		
Cobalt				0.02	0.02	100		
Copper				0.10	0.08	80		
Iron				20.00	20.42	102		
Lead				0.02	0.021	105		
Magnesium				20.00	17.37	87		
Manganese				5.00	4.69	94		
Mercury	0.20	0.21	105					
Nickel				0.20	0.22	110		
Potassium				400.00	406.92	102		
Selenium				1.0	1.12	112		
Silver				0.02	0.020	100		
Sodium				200.00	201.27	101		
Thallium				0.02	0.02	100		
Vanadium				0.20	0.18	90		
Zinc				0.50	0.61	122		

Metals

-3-

BLANKS

Client: Exponent

Service Request: K1004814

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	0.005	U	0.005	U	0.005	U	0.005	U	200.8
Arsenic	0.10	U	0.10	U	0.14	J	0.16	J	200.8
Barium	0.6	U	0.6	U	0.6	U	0.6	U	200.7
Beryllium	0.006	U	0.006	U	0.006	U	0.006	U	200.8
Cadmium	0.005	U	0.006	J	0.005	U	0.005	U	200.8
Calcium	6.0	U	6.0	U	6.0	U	9.1	J	200.7
Chromium	0.02	U	0.02	U	0.02	U	0.02	U	200.8
Cobalt	0.006	U	0.006	U	0.006	U	0.006	U	200.8
Copper	0.03	J	0.02	U	0.02	U	0.02	U	200.8
Iron	2.6	J	0.8	U	2.3	J	3.6	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	2.8	J	200.7
Manganese	1.0	J	0.7	J	0.8	J	0.8	J	200.7
Mercury	0.02	U	0.02	U	0.02	U	0.02	U	7470A
Nickel	0.02	U	0.02	U	0.02	U	0.02	U	200.8
Potassium	40	U	40	U	40	U	40	U	200.7
Selenium	0.3	U	0.3	U	0.3	J	0.3	J	200.8
Silver	0.005	J	0.004	U	0.004	U	0.004	U	200.8
Sodium	20	U	20	U	20	U	20	U	200.7
Thallium	0.009	J	0.005	U	0.009	J	0.006	J	200.8
Vanadium	0.04	J	0.03	U	-0.03	J	-0.03	J	200.8
Zinc	0.20	U	0.20	U	0.20	U	0.20	U	200.8

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1004814

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			200.7
Barium			0.6	U	0.6	U			200.7
Calcium			6.0	U	6.4	J			200.7
Calcium					-24.1	J			200.7
Iron			3.6	J	3.9	J			200.7
Iron					3.2	J			200.7
Magnesium			3.0	J	3.6	J			200.7
Magnesium					17.1	J			200.7
Manganese			0.9	J	1.2	J			200.7
Manganese					2.7	J			200.7
Mercury			0.02	U	0.02	U	0.02	U	7470A
Potassium			40	U	40	U			200.7
Sodium			20	U	20	U			200.7

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1004814

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	
Mercury			0.02	U				7470A

Metals

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ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1004814

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	511472	509981.3	102.0			
Barium		500	0	472.8	94.6			
Calcium	500000	500000	488642	489449.2	97.9			
Iron	200000	200000	201055	198799.4	99.4			
Magnesium	500000	500000	513747	511088.0	102.2			
Manganese		500	4	459.8	92.0			
Potassium			-34	-45.2				
Sodium			82	64.5				

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

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent Service Request: K1004814
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar-Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: BH-2S

Lab Code: K1004814-002S DISS

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Mercury	76 - 126	0.99	0.02 U	1.00	99.0		7470A

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

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent Service Request: K1004814
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar-Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: 5adds

Lab Code: K1004814-003S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Antimony	70 - 130	20.2	0.362	20.00	99.2		200.8
Arsenic	70 - 130	41.0	20.0	20.00	105.0		200.8
Beryllium	70 - 130	20.0	0.006 U	20.00	100.0		200.8
Cadmium	70 - 130	19.5	0.057	20.00	97.2		200.8
Chromium	70 - 130	23.6	3.24	20.00	101.8		200.8
Cobalt	70 - 130	20.5	0.378	20.00	100.6		200.8
Copper	70 - 130	26.7	7.22	20.00	97.4		200.8
Lead	70 - 130	19.8	0.705	20.00	95.5		200.8
Nickel	70 - 130	21.8	2.28	20.00	97.6		200.8
Selenium	70 - 130	20.1	0.8 J	20.00	96.5		200.8
Silver	70 - 130	19.5	0.013 J	20.00	97.4		200.8
Thallium	70 - 130	19.9	0.005 U	20.00	99.5		200.8
Vanadium	70 - 130	24.0	3.25	20.00	103.8		200.8
Zinc		102	83.6	20.00	92.0		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: K1004814
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar-Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: K1004913-001S

Lab Code: K1004913-001S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Mercury	76 - 126	0.97	0.02 U	1.00	97.0		7470A

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: K1004814

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar-Kronquist

Basis: N/A

Matrix: WATER

Sample Name: Batch QCA

Lab Code: K1004778-005A

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Mercury	85 - 115	0.98		0.02	U	1.00	98		7470A

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004814
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar-Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: BH-2D

Lab Code: K1004814-002D DISS

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury		0.02	U	0.02	U			7470A

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

Metals

- 6 -

DUPLICATES

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar-Kronquist

Basis: N/A

Matrix: WATER

% Solids: 0.0

Sample Name: 5addD

Lab Code: K1004814-003D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		30	U	42	J	200.0		200.7
Antimony	20	0.362		0.378		4.3		200.8
Arsenic	20	20.0		20.0		0.0		200.8
Barium	20	124		122		1.6		200.7
Beryllium		0.006	U	0.006	U			200.8
Cadmium		0.057		0.044		25.7		200.8
Calcium	20	93400		93200		0.2		200.7
Chromium	20	3.24		3.33		2.7		200.8
Cobalt	20	0.378		0.383		1.3		200.8
Copper	20	7.22		7.26		0.6		200.8
Iron		87.3		103		16.5		200.7
Lead	20	0.705		0.714		1.3		200.8
Magnesium	20	42100		41600		1.2		200.7
Manganese		1.3	J	1.0	J	26.1		200.7
Nickel	20	2.28		2.23		2.2		200.8
Potassium	20	7040		6940		1.4		200.7
Selenium		0.8	J	0.5	J	46.2		200.8
Silver		0.013	J	0.010	J	26.1		200.8
Sodium	20	42800		42300		1.2		200.7
Thallium		0.005	U	0.005	U			200.8
Vanadium	20	3.25		3.37		3.6		200.8
Zinc	20	83.6		84.5		1.1		200.8

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

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1004814
 Project No.: 0907194.000.0601 Units: UG/L
 Project Name: Heglar-Kronquist Basis: N/A
 Matrix: WATER % Solids: 0.0

Sample Name: K1004913-001D

Lab Code: K1004913-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury		0.02	U	0.02	U			7470A

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

Metals

- 7 -

LABORATORY CONTROL SAMPLE

Client: Exponent

Service Request: K1004814

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	5080	101.6					
Antimony	20	19.6	98.0					
Arsenic	20	19.0	95.0					
Barium	5000	5330	106.6					
Beryllium	20	20.0	100.0					
Cadmium	20	19.6	98.0					
Calcium	12500	12500	100.0					
Chromium	20	19.9	99.5					
Cobalt	20	19.6	98.0					
Copper	20	19.6	98.0					
Iron	2500	2580	103.2					
Lead	20	19.7	98.5					
Magnesium	12500	12700	101.6					
Manganese	1250	1250	100.0					
Mercury	5	4.88	97.6					
Nickel	20	19.6	98.0					
Potassium	12500	13100	104.8					
Selenium	20	20.0	100.0					
Silver	20	19.8	99.0					
Sodium	12500	13000	104.0					
Thallium	20	20.3	101.5					
Vanadium	20	19.8	99.0					
Zinc	20	19.9	99.5					

Metals

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ICP SERIAL DILUTIONS

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Units: UG/L

Project Name: Heglar-Kronquist

Sample Name: 5addL

Lab Code: K1004814-003L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
		C		C			
Aluminum	30.00	U	150.00	U			P
Barium	123.98		124.35		0.3		P
Calcium	93395.07		95079.41		1.8		P
Iron	87.31		102.95		17.9	E	P
Magnesium	42088.84		42104.90		0.0		P
Manganese	1.28	J	1.80	J	40.6		P
Potassium	7043		7012		0		P
Sodium	42755.73		41493.95		3.0		P

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Project Name: Heglar-Kronquist

ICP/ICP-MS ID #: K-ICP-MS-03

GFAA ID #:

AA ID #:

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Antimony	123		0.050	0.005	MS
Arsenic	75		0.5	0.1	MS
Beryllium	9		0.020	0.006	MS
Cadmium	111		0.020	0.005	MS
Chromium	52		0.20	0.020	MS
Cobalt	59		0.020	0.006	MS
Copper	65		0.10	0.02	MS
Lead	208		0.020	0.005	MS
Nickel	60		0.20	0.02	MS
Selenium	82		1.0	0.3	MS
Silver	107		0.020	0.004	MS
Thallium	205		0.020	0.005	MS
Vanadium	51		0.20	0.03	MS
Zinc	66		0.5	0.2	MS

Comments:

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Project Name: Heglär-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: K1004814

Project No.: 0907194.000.0601

Project Name: Heglär-Kronquist

ICP/ICP-MS ID #:

GFAA ID #:

AA ID #: K-CVAA-02

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: K1004814

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	0.000000	0.000000	-0.0004100	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
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
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
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
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
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
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
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
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
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
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
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
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
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

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004814

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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004814

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
Antimony	206.838	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
Beryllium	313.042	0.0000000	0.0000000	-0.0000200	0.0016600
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.802	-0.0000900	0.0000000	0.0000500	0.0000000
Calcium	211.2	0.0000000	0.0000000	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
Copper	324.754	0.0000000	0.0000000	0.0000000	-0.0008400
Iron	271.4	0.0000000	0.0000000	0.0000000	-0.0315100
Lead	220.353	0.0003800	0.0000000	-0.0006200	0.0000000
Magnesium	202.5	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
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.9	0.0000000	0.0000000	0.0000000	-0.0020400
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	-0.0007900	0.0000000	0.0000000	0.0004900
Silicon	228.158	0.0000000	0.0000000	0.0753200	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0007300	0.0000000
Sodium	588.995	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
Tin	189.989	0.0000000	0.0000000	-0.0015800	0.0000000
Titanium	334.941	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

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Project Name: Heglar-Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:			
Aluminum	308.215				
Antimony	206.838				
Arsenic	189.042				
Barium	493.409				
Beryllium	313.042				
Boron	249.678				
Cadmium	228.802				
Calcium	211.2				
Chromium	267.716				
Cobalt	228.616				
Copper	324.754				
Iron	271.4				
Lead	220.353				
Magnesium	202.5				
Manganese	293.9				
Molybdenum	202.03				
Nickel	231.604				
Phosphorus	214.9				
Potassium	766.491				
Selenium	196.026				
Silicon	228.158				
Silver	328.068				
Sodium	588.995				
Strontium	421.552				
Thallium	190.864				
Tin	189.989				
Titanium	334.941				
Vanadium	292.402				
Zinc	213.856				

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1004814

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: K1004814

Project No.: 0907194.000.0601

Project Name: Hegljar-Kronquist

ICP ID Number: K-ICP-MS-03

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony	15.000	2000	200.8
Arsenic	15.000	2000	200.8
Beryllium	15.000	2000	200.8
Cadmium	15.000	2000	200.8
Chromium	15.000	2000	200.8
Cobalt	15.000	2000	200.8
Copper	15.000	2000	200.8
Lead	15.000	2000	200.8
Nickel	15.000	2000	200.8
Selenium	15.000	2000	200.8
Silver	15.000	2000	200.8
Thallium	15.000	2000	200.8
Vanadium	15.000	1000	200.8
Zinc	15.000	2000	200.8

Comments:

Metals
-13-
PREPARATION LOG

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Project Name: Heglar-Kronquist

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004814-001 DISS	5/20/2010	50.0	50.0
K1004814-002 DISS	5/20/2010	50.0	50.0
K1004814-003	5/20/2010	50.0	50.0
K1004814-003D	5/20/2010	50.0	50.0
K1004814-003S	5/20/2010	50.0	50.0
K1004814-004	5/20/2010	50.0	50.0
K1004814-005	5/20/2010	50.0	50.0
K1004814-006	5/20/2010	50.0	50.0
K1004814-MB	5/20/2010	50.0	50.0
LCSW	5/20/2010	50.0	50.0

Metals
-13-
PREPARATION LOG

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Project Name: Heglar-Kronquist

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004814-001 DISS	5/20/2010	50.0	50.0
K1004814-002 DISS	5/20/2010	50.0	50.0
K1004814-003	5/20/2010	50.0	50.0
K1004814-003D	5/20/2010	50.0	50.0
K1004814-003S	5/20/2010	50.0	50.0
K1004814-004	5/20/2010	50.0	50.0
K1004814-005	5/20/2010	50.0	50.0
K1004814-006	5/20/2010	50.0	50.0
K1004814-MB	5/20/2010	50.0	50.0
LCSW	5/20/2010	50.0	50.0

Metals
-13-
PREPARATION LOG

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Project Name: Heglar-Kronquist

Method: CV

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1004814-001 DISS	5/25/2010	20.0	20.0
K1004814-002 DISS	5/25/2010	20.0	20.0
K1004814-002D DISS	5/25/2010	20.0	20.0
K1004814-002S DISS	5/25/2010	20.0	20.0
K1004814-003	5/25/2010	20.0	20.0
K1004814-004	5/25/2010	20.0	20.0
K1004814-005	5/25/2010	20.0	20.0
K1004814-006	5/25/2010	20.0	20.0
K1004814-MB	5/25/2010	20.0	20.0
K1004913-001D	5/25/2010	20.0	20.0
K1004913-001S	5/25/2010	20.0	20.0
LCSW	5/25/2010	20.0	20.0

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Project Name: Hegljar-Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 5/26/2010

End Date: 5/26/2010

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				
Blank	1	08:36		X			X			X				X	X	X			X			X									
STDB	1	08:39		X			X			X				X	X	X			X			X									
STDA	1	08:42								X				X	X	X															
ICV1	1	08:45		X			X			X				X	X	X			X			X									
ICV1	1	08:48								X				X	X	X															
ICB1	1	08:51		X			X			X				X	X	X			X			X									
CCV1	1	08:55		X			X			X				X	X	X			X			X									
CCV1	1	09:00								X				X	X	X															
CCB1	1	09:06		X			X			X				X	X	X			X			X									
CRDL1	1	09:09		X			X			X				X	X	X			X			X									
ICS-A1	1	09:12		X			X			X				X	X	X			X			X									
ICS-AB1	1	09:15		X			X			X				X	X	X			X			X									
ZZZZZZ	1	09:18																													
CCV2	1	09:21		X			X			X				X	X	X			X			X									
CCV2	1	09:24								X				X	X	X															
CCB2	1	09:27		X			X			X				X	X	X			X			X									
ZZZZZZ	1	09:50																													
ZZZZZZ	1	09:53																													
ZZZZZZ	1	09:56																													
ZZZZZZ	1	09:59																													
ZZZZZZ	5	10:01																													
ZZZZZZ	1	10:04																													
ZZZZZZ	1	10:07																													
ZZZZZZ	1	10:10																													
ZZZZZZ	1	10:13																													
ZZZZZZ	1	10:16																													
CCV3	1	10:19		X			X			X				X	X	X			X			X									
CCV3	1	10:22								X				X	X	X															
CCB3	1	10:25		X			X			X				X	X	X			X			X									
ZZZZZZ	1	10:28																													
ZZZZZZ	1	10:31																													
ZZZZZZ	1	10:34																													

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

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Project Name: Heglar-Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 5/26/2010

End Date: 5/26/2010

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	10:38																											
ZZZZZZ	1	10:41																											
ZZZZZZ	1	10:43																											
K1004814-MB	1	10:47		X		X		X			X	X	X					X			X								
LCSW	1	10:50		X		X		X			X	X	X					X			X								
K1004814-003	1	10:52		X		X		X			X	X	X					X			X								
K1004814-003D	1	10:55		X		X		X			X	X	X					X			X								
CCV4	1	10:58		X		X		X			X	X	X					X			X								
CCV4	1	11:01		X		X		X			X	X	X																
CCB4	1	11:04		X		X		X			X	X	X					X			X								
K1004814-003L	5	11:07		X		X		X			X	X	X					X			X								
K1004814-003S	1	11:10		X		X					X		X																
K1004814-001 DISS	1	11:13		X		X		X			X	X	X					X			X								
K1004814-002 DISS	1	11:16		X		X		X			X	X	X					X			X								
K1004814-004	1	11:19		X		X		X			X	X	X					X			X								
K1004814-005	1	11:22		X		X		X			X	X	X					X			X								
K1004814-006	1	11:25		X		X		X			X	X	X					X			X								
ZZZZZZ	1	11:28																											
ZZZZZZ	1	11:31																											
ZZZZZZ	1	11:34																											
CCV5	1	11:37		X		X		X			X	X	X					X			X								
CCV5	1	11:40		X		X		X			X	X	X																
CCB5	1	11:43		X		X		X			X	X	X					X			X								
ZZZZZZ	1	11:46																											
ZZZZZZ	1	11:49																											
ZZZZZZ	5	11:52																											
ZZZZZZ	1	11:56																											
ZZZZZZ	1	11:59																											
ZZZZZZ	1	12:02																											
ZZZZZZ	1	12:05																											
ZZZZZZ	1	12:08																											
ZZZZZZ	1	12:11																											

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

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Project Name: Heglar-Kronquist

Instrument ID Number: K-ICP-MS-03

Method: MS

Start Date: 5/21/2010

End Date: 5/21/2010

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 N	Z	C N				
Cal. Blk	1	13:41		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
Cal. Stn	1	13:46		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
ICV1	1	13:54		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
CCV1	1	14:02		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
ICB1	1	14:11		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
CCB1	1	14:15		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
CCB1	1	14:19		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
CRA	1	14:23		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
ZZZZZZ	1	14:31																													
ZZZZZZ	1	14:35																													
ZZZZZZ	1	14:39																													
ZZZZZZ	1	14:47																													
ZZZZZZ	1	14:56																													
ZZZZZZ	1	15:01																													
CCV2	1	15:10		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
CCB2	1	15:26		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
K1004814-MB	1	15:31		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
LCSW	1	15:35		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
K1004814-001 DISS	1	15:43		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
K1004814-002 DISS	1	15:52		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
K1004814-003	1	16:00		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
K1004814-003D	1	16:08		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
K1004814-003S	1	16:13		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
K1004814-004	1	16:21		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
K1004814-005	1	16:26		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
K1004814-006	1	16:31		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
ZZZZZZ	1	16:35																													
CCV3	1	16:43		X	X		X	X		X	X	X	X				X	X	X		X	X	X								
CCB3	1	16:52		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: K1004814

Project No.: 0907194.000.0601

Project Name: Heglax-Kronquist

Instrument ID Number: K-CVAA-02

Method: CV

Start Date: 5/27/2010

End Date: 5/27/2010

Table with columns: Sample No., D/F, Time, % R, and Analytes (AL, SB, SA, BE, CD, CA, RO, CU, FE, PB, MG, NH, NI, KS, AG, AN, TA, VL, ZN, CN). Rows include CalibrationBlank, Standard#1-5, ICV1, ICB1, CRDL1, CCV1, CCB1, CCV2, CCB2, and multiple ZZZZZZ entries.

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

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Project Name: Heglar-Kronquist

Instrument ID Number: K-CVAA-02

Method: CV

Start Date: 5/27/2010

End Date: 5/27/2010

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	12:04																													
ZZZZZZ	1	12:06																													
CCV3	1	12:07																													
CCB3	1	12:09																													
ZZZZZZ	1	12:10																													
ZZZZZZ	1	12:12																													
ZZZZZZ	1	12:14																													
ZZZZZZ	1	12:15																													
ZZZZZZ	1	12:17																													
ZZZZZZ	1	12:18																													
ZZZZZZ	1	12:20																													
K1004814-MB	1	12:22																													
LCSW	1	12:23																													
ZZZZZZ	1	12:25																													
CCV4	1	12:27																													
CCB4	1	12:28																													
ZZZZZZ	1	12:30																													
ZZZZZZ	1	12:31																													
K1004778-005A	1	12:33																													
ZZZZZZ	1	12:35																													
ZZZZZZ	1	12:36																													
ZZZZZZ	1	12:38																													
ZZZZZZ	1	12:39																													
ZZZZZZ	1	12:41																													
ZZZZZZ	1	12:43																													
ZZZZZZ	1	12:44																													
CCV5	1	12:46																													
CCB5	1	12:48																													
ZZZZZZ	1	12:49																													
ZZZZZZ	1	12:51																													
ZZZZZZ	1	12:52																													
ZZZZZZ	1	12:54																													

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

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1004814

Project No.: 0907194.000.0601

Project Name: Heglar-Kronquist

Instrument ID Number: K-CVAA-02

Method: CV

Start Date: 5/27/2010

End Date: 5/27/2010

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	12:56																											
K1004814-001 DISS	1	12:57																										X	
K1004814-002 DISS	1	12:59																										X	
K1004814-002D DISS	1	13:00																										X	
K1004814-002S DISS	1	13:02																										X	
K1004814-003	1	13:04																										X	
CCV6	1	13:05																										X	
CCB6	1	13:07																										X	
K1004814-004	1	13:09																										X	
K1004814-005	1	13:10																										X	
K1004814-006	1	13:12																										X	
CCV7	1	13:13																										X	
CCB7	1	13:15																										X	

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



Prep Run: 111811 **Prep Workflow:** MetDigAqICP **Status:** Prepped **Prep Date:** 05/20/2010
Team: Metals **Prep Method:** EPA 3010A **Current Step:** Digestion **Due Date:** 04:00
Analyst: B.SHELDON **Rush/NPDES:** N/A

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1004550-03	Method Blank		50 mL	50 mL			Metals D	1%HNO3,5%HCL
KQ1004550-04	Lab Control Sample		50 mL	50 mL	0.25 mL 0.25 mL 0.25 mL 0.5 mL	12778 12779 14972 17867	Metals D	1%HNO3,5%HCL
K1004814-001	BH-1	.05	50 mL	50 mL			Metals D	1%HNO3,5%HCL
K1004814-002	BH-2	.05	50 mL	50 mL			Metals D	1%HNO3,5%HCL
K1004814-003	5add	.05	50 mL	50 mL			Metals D	1%HNO3,5%HCL
K1004814-003: KQ1004550-01	Duplicate	.05	50 mL	50 mL			Metals D	1%HNO3,5%HCL
K1004814-003: KQ1004550-02	Matrix Spike	.05	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL	17064 17544 17867	Metals D	1%HNO3,5%HCL
K1004814-004	4bcd	.05	50 mL	50 mL			Metals D	1%HNO3,5%HCL
K1004814-005	14aaa	.05	50 mL	50 mL			Metals D	1%HNO3,5%HCL
K1004814-006	3b	.05	50 mL	50 mL			Metals D	1%HNO3,5%HCL

10 Total Samples consisting of 6 Client Samples, 2 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 QCP-CICV-1	Spike	12779	10/1/2010	K-MET SS1	Spike	17544	9/11/2010
K-MET QCP-CICV-2	Spike	12778	7/1/2010	K-MET SS3	Spike	17064	12/1/2010
K-MET QCP-CICV-3	Spike	14972	1/28/2011	K-MET SS4	Spike	17867	12/1/2010

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-06	Temperature	96 deg C

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	20-MAY-10 04:00	20-MAY-10 07:00	B.SHELDON		N	

Comments

Review

Reviewed by: *J* Date: *5/20/10*

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

Solution Name	Element	ml.s of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added
K-MET SS1	HNO3	50.0	1000ml	-	0.5
	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	-	0.5
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	50.0	500ml	100	
K-MET SS4	HNO3	25	500ml	-	0.5
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	
	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



Prep Run: 111810 **Prep Workflow:** MetDigAqMS **Status:** Prepped **Prep Date:** 05/20/2010
Team: Metals **Prep Method:** METALS **Current Step:** Digestion **Due Date:** 05/24/2010
Analyst: B.SHELDON **Rush/NPDES:** N/A

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1004549-05	Method Blank		50 mL	50 mL			Metals D, Metals T	1%HNO3
KQ1004549-06	Lab Control Sample		50 mL	50 mL	1 mL 1 mL	11605 17425	Metals D, Metals T	1%HNO3
K1004811-001	414972	.01	50 mL	50 mL			Metals T	1%HNO3
K1004811-002	414974	.01	50 mL	50 mL			Metals T	1%HNO3
K1004811-003	414976	.01	25 mL	25 mL			Metals T	1%HNO3
K1004811-003: KQ1004549-07	Duplicate	.01	25 mL	25 mL			Metals T	1%HNO3
K1004811-003: KQ1004549-08	Matrix Spike	.01	25 mL	25 mL	0.5 mL 0.5 mL	11605 17425	Metals T	1%HNO3
K1004811-004	414980	.01	50 mL	50 mL			Metals T	1%HNO3
K1004811-005	414982	.01	50 mL	50 mL			Metals T	1%HNO3
K1004811-006	414984	.01	50 mL	50 mL			Metals T	1%HNO3
K1004814-001	BH-1	.05	50 mL	50 mL			Metals D	1%HNO3
K1004814-002	BH-2	.05	50 mL	50 mL			Metals D	1%HNO3
K1004814-003	5add	.05	50 mL	50 mL			Metals D	1%HNO3
K1004814-003: KQ1004549-01	Duplicate	.05	50 mL	50 mL			Metals D	1%HNO3
K1004814-003: KQ1004549-02	Matrix Spike	.05	50 mL	50 mL	1 mL 1 mL	11605 17425	Metals D	1%HNO3
K1004814-004	4bcd	.05	50 mL	50 mL			Metals D	1%HNO3
K1004814-005	14aaa	.05	50 mL	50 mL			Metals D	1%HNO3
K1004814-006	3b	.05	50 mL	50 mL			Metals D	1%HNO3
K1004823-001	21005071401	.01	50 mL	50 mL			Metals T	1%HNO3

19 Total Samples consisting of 13 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-05	Temperature	96	deg C

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	20-MAY-10 02:00	20-MAY-10 05:00	B.SHELDON		N	

Comments

Review

Reviewed by: *z* Date: 5/21/10

CVAA Mercury Data Review Form

Element: Hg

Analysis Lot #: 202698

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

Service Request Numbers:

K1005179, K1005182, K1004639, K1004778, K1004913, K1004814

	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:

*K1004814 needs to be^{JDB} redone, P.C. change to 245.1
2 weeks after login.*

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

Primary Reviewed By: JDB

Date: 5/28/10

Secondary Reviewed By: MAS

Date: 5/28/10

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)
1	ICV1	~	~	~	5.23		105%
2	ICB1	~	~	~	0.00		< 0.2
3	CRA	~	~	~	0.21		103%
4	CCV1	~	~	~	5.00		100%
5	GCB1	~	~	~	5.02		100% MS 5/28/10
6	CCB1	~	~	~	0.01		< 0.2
7	PBW	20	20	~	0.01		0.01
8	LCSW	20	20	~	4.84		97%
9	K1005179-001	20	20	~	0.01		0.01
10	K1005179-001D	20	20	~	0.01		0.01
11	K1005179-001A	20	20	~	0.96		96%
12	K1005179-002	20	20	~	0.00		0.00
13	K1005179-002S	20	20	~	0.95		95%
14	K1005179-003	20	20	~	0.01		0.01
15	K1005179-004	20	20	~	0.01		0.01
16	K1005179-001 DISS	20	20	~	0.01		0.01
17	CCV2	~	~	~	5.02		100%
18	CCB2	~	~	~	0.00		< 0.2
19	K1005179-002 DISS	20	20	~	0.01		0.01
20	K1005179-003 DISS	20	20	~	0.01		0.01
21	K1005179-004 DISS	20	20	~	0.01		0.01
22	K1005182-001	20	20	~	0.00		0.00
23	K1005182-002	20	20	~	0.00		0.00
24	K1005182-003	20	20	~	0.00		0.00
25	K1005182-001 DISS	20	20	~	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>Josh D Baird</i>	Date: <i>5/28/10</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	K1005182-002 DISS	20	20	~	0.01		0.01
27	K1005182-003 DISS	20	20	~	0.00		0.00
28	K1004639-023	20	20	~	0.00		0.00
29	CCV3	~	~	~	4.93		99%
30	CCB3	~	~	~	0.01		< 0.2
31	K1004639-024	20	20	~	0.01		0.01
32	K1004639-0024D	20	20	~	0.01		0.01
33	K1004639-024S	20	20	~	0.98		98%
34	K1004639-025	20	20	~	0.01		0.01
35	K1004639-026	20	20	~	0.02		0.02
36	K1004639-027	20	20	~	0.01		0.01
37	K1004639-029	20	20	~	0.00		0.00
38	PBW	20	20	~	0.01		0.01
39	LCSW	20	20	~	4.88		98%
40	K1004778-004	20	20	~	0.01		0.01
41	CCV4	~	~	~	4.77		95%
42	CCB4	~	~	~	0.00		< 0.2
43	K1004778-005	20	20	~	0.01		0.01
44	K1004778-005D	20	20	~	0.01		0.01
45	K1004778-005A	20	20	~	0.98		98%
46	K1004778-005S	20	20	~	1.00		100%
47	K1004778-006	20	20	~	0.01		0.01
48	K1004778-007	20	20	~	0.03		0.03
49	K1004778-008	20	20	~	0.01		0.01
50	K1004778-010	20	20	~	0.01		0.01

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:

Josh P Baird

Date:

5/28/10

Page Number:

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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)
51	K1004778-011	20	20	~	0.01		0.01
52	K1004778-012	20	20	~	0.01		0.01
53	CCV5	~	~	~	4.76		95%
54	CCB5	~	~	~	0.00		< 0.2
55	K1004778-013	20	20	~	0.01		0.01
56	K1004778-014	20	20	~	0.01		0.01
57	K1004913-001	20	20	~	0.01		0.01
58	K1004913-001D	20	20	~	0.01		0.01
59	K1004913-001S	20	20	~	0.97		97%
60	K1004814-001	20	20	~	0.00		0.00
61	K1004814-002	20	20	~	0.01		0.01
62	K1004814-002D	20	20	~	0.01		0.01
63	K1004814-002S	20	20	~	0.99		99%
64	K1004814-003	20	20	~	0.01		0.01
65	CCV6	~	~	~	4.91		98%
66	CCB6	~	~	~	0.00		< 0.2
67	K1004814-004	20	20	~	0.01		0.01
68	K1004814-005	20	20	~	0.01		0.01
69	K1004814-006	20	20	~	0.01		0.01
70	CCV7	~	~	~	4.94		99%
71	CCB7	~	~	~	0.00		< 0.2
72							
73							
74							
75							

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>Josh D Baird</i>	Date: <i>5/28/10</i>	Page Number: 3
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Columbia Analytical Services K-CVAA-02

Report Generated By CETAC QuickTrace

Analyst: ACQMET18

Worksheet file: C:\Program Files\QuickTrace\Worksheets\Hg 052710A.wsz

Date Started: 5/27/2010 10:09:51 AM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ppb)	μ Abs	%RSD	Flags
Calibration Blank	STD	05/27/10 11:05:59 am	0.000	49	51.70	
Replicates			17.1 40.9 73.1 65.7			
Standard #1 (0.2 ppb)	STD	05/27/10 11:07:35 am	0.200	1270	1.33	
Replicates			1249.6 1273.5 1266.1 1290.3			
Standard #2 (0.5 ppb)	STD	05/27/10 11:09:12 am	0.500	3170	1.51	
Replicates			3105.2 3195.0 3215.2 3166.1			
Standard #3 (1.0 ppb)	STD	05/27/10 11:10:49 am	1.000	6173	0.78	
Replicates			6132.3 6158.8 6156.3 6242.9			
Standard #4 (5.0 ppb)	STD	05/27/10 11:12:27 am	5.000	29816	0.45	
Replicates			29641.7 29790.1 29876.2 29957.4			
Standard #5 (10.0 ppb)	STD	05/27/10 11:14:05 am	10.000	59337	0.62	
Replicates			58839.5 59293.9 59566.1 59650.1			

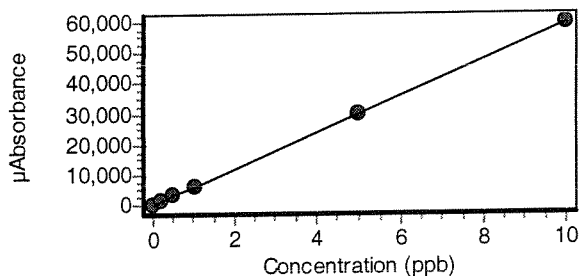
Calibration

Equation: $A = 49.205 + 5935.911C$

R2: 0.99997

SEE: 155.4003

Flags:



ICV1	ICV	05/27/10 11:15:44 am	5.230	31101	0.75
Replicates			30804.1 31042.5 31210.0 31347.7		
% Recovery			104.62		

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
ICB1				ICB	05/27/10 11:17:20 am	0.004	74	25.56	
Replicates	71.4	100.2	54.2		72.2				
CRA				CRDL	05/27/10 11:18:56 am	0.205	1266	2.57	
Replicates	1220.3	1297.6	1274.3		1270.7				
% Recovery	102.47								
CCV1				CCV	05/27/10 11:20:34 am	5.000	29746	0.44	
Replicates	29572.7	29749.1	29772.3		29889.3				
% Recovery	100.06								
CCB1				CCB	05/27/10 11:22:12 am	5.020	29846	0.65	Q
Replicates	29587.7	29822.1	29937.0		30038.9				
CCB1				CCB	05/27/10 11:30:33 am	0.007	90	24.05	
Replicates	105.1	71.3	72.3		113.1				
PBW				MB	05/27/10 11:32:09 am	0.007	89	13.77	
Replicates	88.2	73.6	89.7		103.5				
LCSW				LCS	05/27/10 11:33:45 am	4.840	28757	3.24	
Replicates	29732.6	29371.3	28036.9		27888.4				
% Recovery	96.73								
K1005179-001				UNK	05/27/10 11:35:21 am	0.009	105	15.98	
Replicates	101.5	129.0	89.5		100.6				
K1005179-001D				DUP	05/27/10 11:36:57 am	0.008	97	14.50	
Replicates	95.6	80.0	96.3		114.3				
		RPD 0.00							
K1005179-001A				SPK	05/27/10 11:38:34 am	0.963	5765	0.34	
Replicates	5753.4	5754.2	5794.6		5758.9				
% Recovery	95.35								
K1005179-002				UNK	05/27/10 11:40:11 am	0.004	73	10.65	
Replicates	73.7	81.0	62.3		73.7				
K1005179-002S				MSK	05/27/10 11:41:49 am	0.948	5679	0.68	
Replicates	5635.9	5664.9	5689.0		5726.8				
% Recovery	94.45								

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
K1005179-003				UNK	05/27/10 11:43:26 am	0.005	80	23.15	
Replicates	62.3	74.9	76.8	106.0					
K1005179-004				UNK	05/27/10 11:45:04 am	0.007	88	13.94	
Replicates	101.7	86.2	92.5	72.4					
K1005179-001 DISS				UNK	05/27/10 11:46:42 am	0.011	113	10.24	
Replicates	105.0	130.2	109.7	107.3					
CCV2				CCV	05/27/10 11:48:20 am	5.020	29824	0.52	
Replicates	29612.7	29815.3	29897.0	29971.6					
% Recovery	100.32								
CCB2				CCB	05/27/10 11:49:56 am	0.004	74	29.59	
Replicates	44.9	81.2	72.6	97.2					
K1005179-002 DISS				UNK	05/27/10 11:51:34 am	0.008	98	19.07	
Replicates	96.4	100.4	120.0	74.5					
K1005179-003 DISS				UNK	05/27/10 11:53:13 am	0.007	88	37.46	
Replicates	57.1	62.3	116.2	117.6					
K1005179-004 DISS				UNK	05/27/10 11:54:48 am	0.006	82	22.64	
Replicates	96.5	73.0	60.2	98.3					
K1005182-001				UNK	05/27/10 11:56:24 am	0.003	69	39.39	
Replicates	37.1	61.5	73.7	102.2					
K1005182-002				UNK	05/27/10 11:57:59 am	0.003	70	16.46	
Replicates	70.3	70.5	54.9	82.9					
K1005182-003				UNK	05/27/10 11:59:35 am	0.003	64	38.02	
Replicates	82.8	71.8	28.3	74.3					
K1005182-001 DISS				UNK	05/27/10 12:01:12 pm	0.004	74	10.98	
Replicates	70.7	70.6	68.4	86.0					

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
K1005182-002 DISS				UNK	05/27/10 12:02:48 pm	0.005	77	13.00	
Replicates	70.4	75.4	91.3	70.0					
K1005182-003 DISS				UNK	05/27/10 12:04:25 pm	0.004	72	19.77	
Replicates	59.4	69.0	92.8	68.0					
K1004639-023				UNK	05/27/10 12:06:03 pm	0.003	68	3.68	
Replicates	69.2	65.2	70.2	65.7					
CCV3				CCV	05/27/10 12:07:40 pm	4.930	29329	0.78	
Replicates	29051.4	29248.9	29441.1	29572.7					
% Recovery	98.65								
CCB3				CCB	05/27/10 12:09:16 pm	0.007	91	29.62	
Replicates	120.0	105.4	80.4	58.9					
K1004639-024				UNK	05/27/10 12:10:54 pm	0.013	126	13.45	
Replicates	121.6	109.7	124.4	150.1					
K1004639-0024D				DUP	05/27/10 12:12:31 pm	0.005	81	16.79	
Replicates	91.4	79.5	90.6	62.3					
		RPD 0.00							
K1004639-024S				MSK	05/27/10 12:14:09 pm	0.984	5888	0.62	
Replicates	5836.5	5899.2	5893.5	5922.4					
% Recovery	97.06								
K1004639-025				UNK	05/27/10 12:15:48 pm	0.006	84	42.17	
Replicates	108.9	41.0	116.7	69.2					
K1004639-026				UNK	05/27/10 12:17:23 pm	0.017	149	7.00	
Replicates	139.8	141.2	156.7	160.2					
K1004639-027				UNK	05/27/10 12:18:59 pm	0.009	103	7.78	
Replicates	103.3	112.7	93.0	104.2					
K1004639-029				UNK	05/27/10 12:20:34 pm	0.004	74	11.88	
Replicates	65.1	81.3	67.2	81.2					

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
PBW				MB	05/27/10 12:22:11 pm	0.010	108	14.98	
Replicates	114.1	117.7	117.7	84.2					
LCSW				LCS	05/27/10 12:23:47 pm	4.880	29026	4.99	
Replicates	27157.0	30242.2	30095.5	28609.3					
% Recovery	97.63								
K1004778-004				UNK	05/27/10 12:25:24 pm	0.011	112	12.02	
Replicates	94.8	115.3	127.3	110.3					
CCV4				CCV	05/27/10 12:27:01 pm	4.770	28365	0.49	
Replicates	28191.7	28333.3	28413.0	28521.9					
% Recovery	95.40								
CCB4				CCB	05/27/10 12:28:37 pm	0.001	58	18.95	
Replicates	59.6	71.8	46.5	52.5					
K1004778-005				UNK	05/27/10 12:30:14 pm	0.008	97	19.49	
Replicates	109.0	70.7	112.0	94.7					
K1004778-005D				DUP	05/27/10 12:31:51 pm	0.011	113	25.50	
Replicates	145.6	129.4	83.4	95.5					
	RPD 0.00								
K1004778-005A				SPK	05/27/10 12:33:29 pm	0.976	5844	0.60	
Replicates	5804.4	5878.8	5868.5	5824.8					
% Recovery	96.83								
K1004778-005S				MSK	05/27/10 12:35:06 pm	0.998	5973	0.36	
Replicates	5972.8	6001.4	5950.3	5966.3					
% Recovery	98.99								
K1004778-006				UNK	05/27/10 12:36:44 pm	0.007	91	27.50	
Replicates	89.9	74.0	126.2	72.7					
K1004778-007				UNK	05/27/10 12:38:23 pm	0.027	211	10.51	
Replicates	243.8	202.7	196.6	200.0					
K1004778-008				UNK	05/27/10 12:39:59 pm	0.013	128	7.85	
Replicates	133.0	140.5	120.6	119.6					

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
K1004778-010				UNK	05/27/10 12:41:34 pm	0.008	99	26.90	
Replicates	120.6	60.1	108.4	106.9					
K1004778-011				UNK	05/27/10 12:43:10 pm	0.009	100	8.63	
Replicates	94.0	100.6	93.6	112.1					
K1004778-012				UNK	05/27/10 12:44:46 pm	0.010	107	14.39	
Replicates	97.6	111.0	126.2	91.7					
CCV5				CCV	05/27/10 12:46:24 pm	4.760	28326	0.55	
Replicates	28130.0	28281.1	28411.2	28482.7					
% Recovery	95.27								
CCB5				CCB	05/27/10 12:48:00 pm	-0.003	34	107.56	
Replicates	79.3	32.2	-10.2	34.6					
K1004778-013				UNK	05/27/10 12:49:36 pm	0.011	113	20.56	
Replicates	129.4	83.0	105.4	132.5					
K1004778-014				UNK	05/27/10 12:51:13 pm	0.005	77	31.29	
Replicates	56.7	56.3	100.1	96.7					
K1004913-001				UNK	05/27/10 12:52:49 pm	0.010	110	20.17	
Replicates	108.0	130.5	79.8	121.8					
K1004913-001D				DUP	05/27/10 12:54:27 pm	0.012	121	16.45	
Replicates	104.8	146.8	105.6	125.1					
		RPD 0.00							
K1004913-001S				MSK	05/27/10 12:56:04 pm	0.973	5822	0.28	
Replicates	5826.2	5801.6	5840.6	5820.6					
% Recovery	96.23								
K1004814-001				UNK	05/27/10 12:57:42 pm	0.004	75	13.47	
Replicates	87.3	70.9	63.6	78.1					
K1004814-002				UNK	05/27/10 12:59:20 pm	0.005	77	17.21	
Replicates	88.2	87.5	67.5	63.0					

Sample Name				Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
K1004814-002D				DUP	05/27/10 01:00:58 pm	0.008	99	10.74	
Replicates	90.1	109.7	105.5	89.0					
	RPD 0.00								
K1004814-002S				MSK	05/27/10 01:02:35 pm	0.985	5896	0.10	
Replicates	5899.8	5892.5	5890.3	5902.7					
% Recovery	98.04								
K1004814-003				UNK	05/27/10 01:04:11 pm	0.013	127	10.21	
Replicates	124.5	132.1	110.4	141.0					
CCV6				CCV	05/27/10 01:05:48 pm	4.910	29214	0.52	
Replicates	28995.9	29217.7	29321.2	29320.0					
% Recovery	98.26								
CCB6				CCB	05/27/10 01:07:24 pm	0.003	69	71.52	
Replicates	114.5	97.9	3.1	60.8					
K1004814-004				UNK	05/27/10 01:09:00 pm	0.011	117	17.52	
Replicates	124.9	123.6	86.5	131.8					
K1004814-005				UNK	05/27/10 01:10:36 pm	0.008	97	17.87	
Replicates	78.9	120.6	98.6	91.9					
K1004814-006				UNK	05/27/10 01:12:12 pm	0.011	111	38.71	
Replicates	59.1	163.3	120.6	102.8					
CCV7				CCV	05/27/10 01:13:50 pm	4.940	29392	0.48	
Replicates	29242.6	29327.6	29426.6	29572.8					
% Recovery	98.87								
CCB7				CCB	05/27/10 01:15:26 pm	0.004	71	51.65	
Replicates	112.6	65.7	81.9	24.4					

Columbia Analytical Services

EPA METHOD 7470A

Service Request Number(s) :

PREP RUN: 112377

Sample	Initial Volume	Final Volume	Sample	Initial Volume	Final Volume
MB	20	20	K1004639-029	20	20
LCSW	20	20			
K1005179-001	20	20			
K1005179-001D	20	20			
K1005179-002	20	20			
K1005179-002S	20	20			
K1005179-003	20	20			
K1005179-004	20	20			
K1005179-001 DISS	20	20			
K1005179-002 DISS	20	20			
K1005179-003 DISS	20	20			
K1005179-004 DISS	20	20			
K1005182-001	20	20			
K1005182-002	20	20			
K1005182-003	20	20			
K1005182-001 DISS	20	20			
K1005182-002 DISS	20	20			
K1005182-003 DISS	20	20			
K1004639-023	20	20			
K1004639-024	20	20			
K1004639-024D	20	20			
K1004639-024S	20	20			
K1004639-025	20	20			
K1004639-026	20	20			
K1004639-027	20	20			
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

JR 5/25/10

Start Time: 1500

Finish Time: 1700

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: HGI-92-G 100 ppb

Spike = 0.2 ml * Source Standard

**Source Standard: ICV HGI-91-P 1000 ppb

LCSW = 0.1 ml ICV **Source Standard

Comments:

Analyst:

John P. Bond / Kelly Kline

Date:

5/25/10

Columbia Analytical Services
EPA METHOD 7470A

Service Request Number(s):
PREP RUN: 112376

Sample	Initial Volume	Final Volume	Sample	Initial Volume	Final Volume
MB	20	20			
LCSW	20	20			
K1004778-004	20	20			
K1004778-005	20	20			
K1004778-005D	20	20			
K1004778-005S	20	20			
K1004778-006	20	20			
K1004778-007	20	20			
K1004778-008	20	20			
K1004778-010	20	20			
K1004778-011	20	20			
K1004778-012	20	20			
K1004778-013	20	20			
K1004778-014	20	20			
K1004913-001	20	20			
K1004913-001D	20	20			
K1004913-001S	20	20			
K1004814-001	20	20			
K1004814-002	20	20			
K1004814-002D	20	20			
K1004814-002S	20	20			
K1004814-003	20	20			
K1004814-004	20	20			
K1004814-005	20	20			
K1004814-006	20	20			
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

JB 5/25/10

Start Time: 1500 Finish Time: 1700 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: ^{JB} H61-92-G 100 ppb Spike = 0.2 ml * Source Standard
 **Source Standard: ICV H61-91-P 1000 ppb LCSW= 0.1 ml ICV **Source Standard

Comments:

Analyst: *John D Birl / Kelly Ki* Date: 5/25/10

Service Request # K1004814
Instrument ID# K-ICP-AES-02

ICP-OES Data Review Form

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

Comments:

File Name: 052610AICP02

Star Lims: 202239

Primary Review by SL

Date 5/26/10

Secondary Review by mmur

Date 5/26/10

Method:	2010A	Sample Name:	Blank	Operator:	
Comment:					
Run Time:	05/26/10 08:36	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	.1400	.0277	-.0076	.00024	
Stddev	.0255	.0235	.0029	.00000	
%RSD	18.21	84.86	38.58	1.5862	
#1	.1580	.0444	-.0097	.00023	
#2	.1220	.0111	-.0055	.00024	
Elem	Be3130	B_2497	Cd2265	Ca2112	
Line	313.042 {107}	249.773 {134}	226.502 {148}	211.276 {159}	
Avg	-.00365	.3860	.0003	.3451	
Stddev	.00000	.0166	.0001	.0039	
%RSD	.07304	4.306	31.51	1.125	
#1	-.00365	.3743	.0004	.3424	
#2	-.00365	.3978	.0003	.3479	
Elem	Ca3179	Cr2677	Co2286	Cu3247	
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}	
Avg	-.0926	-.0001	.0003	.0221	
Stddev	.0059	.0001	.0001	.0274	
%RSD	6.334	46.55	37.23	123.7	
#1	-.0967	-.0001	.0002	.0028	
#2	-.0884	-.0002	.0003	.0415	
Elem	Fe2599	Fe2714	Pb2203	Mg2025	
Line	259.940 {129}	271.441 {124}	220.353 {152}	202.582 {166}	
Avg	.0014	.0003	.0002	.1012	
Stddev	.0001	.0004	.0002	.0019	
%RSD	5.078	145.6	106.4	1.927	
#1	.0015	.0000	.0001	.0998	
#2	.0014	.0005	.0004	.1026	
Elem	Mg2795	Mn2576	Mn2939	Mo2020	
Line	279.553 {120}	257.610 {131}	293.930 {114}	202.030 {166}	
Avg	.02073	.00096	-.0002	.0004	
Stddev	.00586	.00012	.0003	.0000	
%RSD	28.287	12.713	132.7	5.360	
#1	.02487	.00105	-.0005	.0003	
#2	.01658	.00088	.0000	.0004	
Elem	Ni2316	K_7664	Se1960	Ag3280	
Line	231.604 {145}	766.490 {44}	196.090 {171}	328.068 {102}	
Avg	-.0002	.7284	-.0152	.0442	
Stddev	.0001	.1192	.0176	.0391	
%RSD	33.51	16.37	115.7	88.39	
#1	-.0002	.6441	-.0028	.0166	
#2	-.0003	.8127	-.0277	.0719	

Sample Name: Blank Run Time: 05/26/10 08:36

Elem	Na5895	Sn1899	V_3102	Zn2062
Line	589.592 { 57}	189.989 {176}	310.230 {108}	206.200 {163}
Avg	.0006	.0006	.0077	.0010
Stddev	.0002	.0000	.0001	.0000
%RSD	28.91	6.503	1.751	2.297

#1	.0007	.0006	.0078	.0010
#2	.0005	.0006	.0076	.0010

Elem	P_2149	Si2516	Ti3234	Tl1908
Line	214.914 {156}	251.612 {134}	323.452 {104}	190.864 {176}
Avg	.0263	.1677	.00373	-.0002
Stddev	.0157	.0255	.00019	.0001
%RSD	59.54	15.20	5.0075	58.38

#1	.0152	.1858	.00359	-.0001
#2	.0374	.1497	.00386	-.0003

Elem	Li6707	Sr4077
Line	670.784 { 50}	407.771 { 82}
Avg	.39938	.00400
Stddev	.00194	.00015
%RSD	.48629	3.8272

#1	.39800	.00389
#2	.40075	.00411

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	185.43
Stddev	1.20
%RSD	.64836

#1	184.58
#2	186.28

OK
5/26/10
Lume
Spello

Method: 2010A Sample Name: STDB *ICP7-41-B* Operator:

Comment:

Run Time: 05/26/10 08:39 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	19.64	2.8426	.45830	36.50
Stddev	.03	.0223	.00033	.08
%RSD	.1395	.78390	.07183	.2280

#1	19.62	2.8583	.45807	36.44
#2	19.66	2.8268	.45854	36.56

Elem	Fe2714	Mg2025	Mn2939	K 7664
Line	271.441 {124}	202.582 {166}	293.930 {114}	766.490 {44}
Avg	.7600	60.24	.6414	210.5
Stddev	.0006	.01	.0004	.3
%RSD	.0802	.0193	.0657	.1657

#1	.7604	60.23	.6411	210.2
#2	.7596	60.25	.6417	210.7

Elem	Na5895	P 2149	Si2516	Li6707
Line	589.592 {57}	214.914 {156}	251.612 {134}	670.784 {50}
Avg	4.847	44.67	93.09	420.70
Stddev	.038	.03	.22	.36
%RSD	.7873	.0572	.2335	.08604

#1	4.874	44.69	92.93	420.95
#2	4.820	44.66	93.24	420.44

Elem	Sr4077
Line	407.771 {82}
Avg	7.9243
Stddev	.0136
%RSD	.17132

#1	7.9147
#2	7.9339

Int. Std.	Sc3572
Line	357.253 {94}
Avg	182.69
Stddev	.64
%RSD	.35170

#1	182.23
#2	183.14

Method: 2010A Sample Name: STDA *ICP7-36A* Operator:
 Comment:
 Run Time: 05/26/10 08:42 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	15.80	11.01	45.75	.2834
Stddev	.06	.03	.19	.0014
%RSD	.4044	.2514	.4098	.5019

#1	15.85	11.03	45.89	.2844
#2	15.76	10.99	45.62	.2824

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	27.15	.1143	.1854	18.46
Stddev	.22	.0010	.0015	.14
%RSD	.8048	.9008	.8350	.7642

#1	27.00	.1150	.1865	18.56
#2	27.31	.1135	.1843	18.36

Elem	Fe2599	Pb2203	Mg2795	Mn2576
Line	259.940 {129}	220.353 {152}	279.553 {120}	257.610 {131}
Avg	.4030	.0871	1290.3	3.1106
Stddev	.0089	.0011	10.1	.0277
%RSD	2.204	1.262	.78092	.88921

#1	.4092	.0879	1283.2	3.1301
#2	.3967	.0863	1297.4	3.0910

Elem	Mo2020	Ni2316	Se1960	Ag3280
Line	202.030 {166}	231.604 {145}	196.090 {171}	328.068 {102}
Avg	.1549	.1688	10.02	17.52
Stddev	.0004	.0014	.10	.08
%RSD	.2755	.8104	.9979	.4481

#1	.1552	.1697	10.09	17.57
#2	.1546	.1678	9.951	17.46

Elem	Sn1899	V_3102	Zn2062	Ti3234
Line	189.989 {176}	310.230 {108}	206.200 {163}	323.452 {104}
Avg	.0812	.1450	.1451	.16697
Stddev	.0007	.0002	.0007	.00027
%RSD	.9217	.1152	.4592	.15995

#1	.0817	.1449	.1456	.16679
#2	.0807	.1451	.1447	.16716

Elem	Tl1908
Line	190.864 {176}
Avg	.0803
Stddev	.0008
%RSD	.9643

#1	.0809
#2	.0798

Sample Name: STDA Run Time: 05/26/10 08:42

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	186.62
Stddev	1.10
%RSD	.59130

#1	185.84
#2	187.40

Method: 2010A

Sample Name: ICV1

Operator:

Comment:

ICP7-37-C

Run Time: 05/26/10 08:45 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.026	2.550	2.557	5.2398	.12410	-.0013
Stddev	.009	.018	.012	.0029	.00043	.0013
%RSD	.1810	.7226	.4531	.05565	.34949	101.0
#1	5.020	2.563	2.548	5.2377	.12441	-.0004
#2	5.032	2.537	2.565	5.2419	.12380	-.0022
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	1.262	12.57	.5132	1.258	.6290	2.508
Stddev	.000	.11	.0032	.002	.0022	.005
%RSD	.0038	.8741	.6329	.1894	.3443	.1880
#1	1.262	12.49	.5155	1.256	.6306	2.511
#2	1.262	12.65	.5109	1.260	.6275	2.505
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	2.538	12.46	1.2104	2.050	1.257	12.62
Stddev	.009	.08	.0044	.002	.001	.05
%RSD	.3467	.6586	.36088	.1188	.1125	.4304
#1	2.544	12.52	1.2073	2.048	1.256	12.58
#2	2.532	12.41	1.2135	2.051	1.258	12.66
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	2.573	.6190	12.26	.0101	1.253	1.265
Stddev	.001	.0032	.04	.0089	.014	.002
%RSD	.0366	.5108	.2946	88.01	1.134	.1393
#1	2.574	.6213	12.23	.0164	1.263	1.264
#2	2.572	.6168	12.28	.0038	1.243	1.267
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: 05/26/10 08:45

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	-.1489	2.0377	2.495	.00043	.00698
Stddev	.0011	.0000	.0018	.022	.00040	.00002
%RSD	55.57	.0156	.09047	.8667	94.589	.27776

#1	.0012	-.1489	2.0390	2.510	.00071	.00697
#2	.0028	-.1489	2.0364	2.480	.00014	.00699

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	186.49
Stddev	.45
%RSD	.23997

#1	186.17
#2	186.81

Method: 2010A Sample Name: ICVB1 Operator:
 Comment: ICP7-43-D
 Run Time: 05/26/10 08:48 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9775	.0177	.0003	.00094	.00003	2.021
Stddev	.0191	.0044	.0031	.00051	.00000	.004
%RSD	1.954	24.77	1116.	54.478	11.182	.2236
#1	.9640	.0208	.0025	.00130	.00003	2.018
#2	.9911	.0146	-.0019	.00058	.00003	2.025
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	.0008	5.124	.0034	.0002	.0007	9.883
Stddev	.0000	.002	.0007	.0001	.0003	.030
%RSD	3.077	.0434	20.14	68.28	43.97	.3034
#1	.0008	5.125	.0029	.0003	.0005	9.862
#2	.0007	5.122	.0039	.0001	.0009	9.905
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	-.0044	5.0208	10.05	.0036	-.0013	.0048
Stddev	.0030	.0086	.00	.0031	.0002	.0043
%RSD	68.35	.17119	.0449	85.55	11.26	90.15
#1	-.0065	5.0147	10.05	.0057	-.0012	.0078
#2	-.0023	5.0268	10.05	.0014	-.0014	.0017
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	.0103	-.0002	.0095	5.089	.0011	.0000
Stddev	.0049	.0029	.0003	.014	.0019	.0006
%RSD	47.27	1862.	3.088	.2751	166.0	1437.
#1	.0138	-.0022	.0093	5.079	.0024	.0005
#2	.0069	.0019	.0097	5.099	-.0002	-.0004
Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 05/26/10 08:48

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.937	5.162	.00075	-.0058	2.0756	1.9897
Stddev	.016	.006	.00229	.0092	.0163	.0040
%RSD	.3197	.1253	304.55	156.6	.78604	.19914
#1	4.926	5.158	-.00087	-.0123	2.0872	1.9925
#2	4.948	5.167	.00237	.0006	2.0641	1.9869
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	186.79					
Stddev	.12					
%RSD	.06242					
#1	186.70					
#2	186.87					

Method: 2010A

Sample Name: ICB

Operator:

Comment:

Run Time: 05/26/10 08:51 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0083	.0047	-.00008	-.00001	.0005
Stddev	.0151	.0043	.0098	.00003	.00010	.0009
%RSD	94370.	51.71	207.4	42.057	965.15	161.3

#1	.0107	-.0114	-.0022	-.00011	.00006	.0012
#2	-.0107	-.0053	.0116	-.00006	-.00008	-.0001

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	-.0001	-.0013	.0012	.0004	-.0016	.0026
Stddev	.0003	.0007	.0006	.0007	.0016	.0038
%RSD	383.4	56.15	46.22	158.1	101.3	144.9

#1	.0002	-.0018	.0008	.0000	-.0004	.0053
#2	-.0003	-.0008	.0016	.0009	-.0027	-.0001

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	-.0034	.00005	.00097	-.0018	-.0004	-.0143
Stddev	.0058	.00006	.00109	.0003	.0001	.0022
%RSD	173.6	127.94	112.30	15.35	14.75	15.64

#1	.0008	.00000	.00174	-.0016	-.0004	-.0127
#2	-.0075	.00009	.00020	-.0020	-.0004	-.0159

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	.0097	-.0006	.0020	.0027	.0016	-.0015
Stddev	.0127	.0049	.0034	.0003	.0016	.0012
%RSD	131.3	780.4	176.2	9.429	102.2	85.56

#1	.0186	.0029	-.0005	.0026	.0028	-.0023
#2	.0007	-.0041	.0044	.0029	.0004	-.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: 05/26/10 08:51

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	.0019	-.00180	-.0029	-.00010	.00001
Stddev	.0094	.0001	.00035	.0224	.00012	.00009
%RSD	283.7	6.946	19.680	763.6	118.64	861.04
#1	.0099	.0020	-.00205	.0129	-.00002	.00007
#2	-.0033	.0019	-.00155	-.0188	-.00018	-.00005
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	184.58					
Stddev	.29					
%RSD	.15785					
#1	184.37					
#2	184.79					

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 08:55 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.972	.0157	.0006	2.4931	.04981	-.0168
Stddev	.039	.0056	.0045	.0175	.00018	.0010
%RSD	.7842	35.49	774.3	.70083	.35492	6.076

#1	5.001	.0216	.0015	2.4686	.04982	-.0166
#2	4.935	.0146	.0066	2.5067	.04998	-.0175
#3	4.942	.0085	-.0035	2.4927	.04957	-.0154
#4	5.010	.0182	-.0022	2.5045	.04987	-.0176

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	.0024	25.36	.0017	-.0011	-.0015	24.84
Stddev	.0004	.12	.0007	.0004	.0018	.10
%RSD	16.41	.4692	39.10	39.06	120.8	.3990

#1	.0021	25.19	.0009	-.0010	-.0038	24.70
#2	.0022	25.35	.0020	-.0015	.0004	24.90
#3	.0026	25.47	.0024	-.0014	-.0021	24.82
#4	.0029	25.41	.0015	-.0006	-.0005	24.92

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	.0001	25.04	4.964	-.0027	-.0029	9.995
Stddev	.0070	.09	.018	.0010	.0003	.032
%RSD	8743.	.3744	.3534	38.54	11.35	.3153

#1	.0077	25.02	4.940	-.0035	-.0028	10.02
#2	-.0073	25.02	4.982	-.0036	-.0031	9.961
#3	.0042	25.17	4.964	-.0023	-.0026	9.977
#4	-.0043	24.95	4.969	-.0014	-.0033	10.03

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: 05/26/10 08:55

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111	.0026	9.738	.0050	.0038	-.0001
Stddev	.0092	.0043	.028	.0027	.0015	.0004
%RSD	82.67	164.4	.2907	52.84	38.89	520.7

#1	.0094	.0082	9.737	.0051	.0058	.0000
#2	.0052	.0019	9.742	.0026	.0039	-.0006
#3	.0246	-.0022	9.702	.0087	.0026	.0004
#4	.0052	.0025	9.771	.0038	.0028	-.0001

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	9.973	2.512	-.00060	-.0144	.49744	.50291
Stddev	.043	.004	.00126	.0067	.00266	.00112
%RSD	.4287	.1457	209.41	46.85	.53544	.22316

#1	9.913	2.507	-.00056	-.0116	.49868	.50169
#2	9.973	2.515	.00089	-.0062	.49455	.50408
#3	9.999	2.514	-.00219	-.0207	.49604	.50226
#4	10.01	2.511	-.00054	-.0190	.50051	.50361

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	185.45
Stddev	.63
%RSD	.33777

#1	185.63
#2	184.59
#3	186.09
#4	185.47

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 09:00 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4620	2.471	2.445	.45767	.52572	.4963
Stddev	.0135	.010	.023	.00228	.00146	.0007
%RSD	2.931	.4183	.9494	.49819	.27684	.1310

#1	.4747	2.460	2.421	.45517	.52476	.4959
#2	.4459	2.466	2.451	.45833	.52681	.4959
#3	.4715	2.484	2.474	.46048	.52710	.4972
#4	.4558	2.475	2.434	.45667	.52419	.4959

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	.4921	2.457	.4940	.4948	.4936	.4901
Stddev	.0025	.010	.0036	.0023	.0053	.0020
%RSD	.5155	.4112	.7245	.4736	1.071	.4113

#1	.4905	2.446	.4911	.4917	.5000	.4886
#2	.4918	2.456	.4975	.4966	.4939	.4918
#3	.4958	2.470	.4965	.4966	.4870	.4918
#4	.4903	2.453	.4907	.4942	.4936	.4881

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	2.450	1.9803	.95982	.9795	.4928	4.928
Stddev	.011	.0066	.00244	.0052	.0020	.006
%RSD	.4366	.33476	.25392	.5267	.4152	.1211

#1	2.449	1.9761	.96266	.9738	.4933	4.930
#2	2.465	1.9741	.95996	.9842	.4928	4.922
#3	2.439	1.9888	.95997	.9836	.4951	4.936
#4	2.448	1.9824	.95670	.9765	.4901	4.925

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: 05/26/10 09:00

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.439	.4892	.4615	2.412	.4921	.4927
Stddev	.025	.0049	.0037	.023	.0045	.0029
%RSD	1.013	1.007	.8002	.9414	.9095	.5870
#1	2.446	.4852	.4569	2.386	.4866	.4899
#2	2.455	.4851	.4652	2.439	.4913	.4931
#3	2.402	.4952	.4636	2.419	.4974	.4966
#4	2.453	.4911	.4603	2.404	.4932	.4913
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	-.0169	.2579	.49021	4.863	.00062	.00156
Stddev	.0083	.0021	.00280	.065	.00007	.00004
%RSD	49.21	.8012	.57187	1.344	10.508	2.3041
#1	-.0094	.2581	.49368	4.821	.00059	.00156
#2	-.0186	.2601	.48723	4.929	.00071	.00158
#3	-.0117	.2583	.48885	4.909	.00056	.00150
#4	-.0279	.2551	.49110	4.795	.00062	.00158
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	189.11					
Stddev	.47					
%RSD	.25054					
#1	189.49					
#2	188.81					
#3	188.61					
#4	189.55					

Method: 2010A	Sample Name: CCB		Operator:		
Comment:	Run Time: 05/26/10 09:06 Type: QC		Mode: CONC	Corr.Fact: 1.000000	
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	.0070	.0041	-.00010	.00002
Stddev	.0091	.0012	.0044	.00006	.00000
%RSD	634.8	17.74	108.8	58.687	9.4147
#1	.0050	.0061	.0009	-.00015	.00002
#2	-.0079	.0079	.0072	-.00006	.00003
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	.0002	.0003	.0053	.0013	.0005
Stddev	.0005	.0003	.0007	.0010	.0003
%RSD	273.8	92.82	13.42	74.03	58.73
#1	-.0002	.0001	.0048	.0020	.0007
#2	.0005	.0004	.0058	.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	.0023	.0003	.0047	.00023	.00067
Stddev	.0006	.0010	.0050	.00002	.00000
%RSD	28.23	311.4	107.1	7.8196	.16970
#1	.0018	.0010	.0011	.00024	.00067
#2	.0027	-.0004	.0083	.00022	.00067
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	.0012	.0008	-.0066	.0035	.0013
Stddev	.0004	.0005	.0039	.0039	.0000
%RSD	30.08	67.97	59.31	113.0	.1549
#1	.0010	.0011	-.0038	.0062	.0013
#2	.0015	.0004	-.0093	.0007	.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: 05/26/10 09:06

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0140	.0019	-.0010	.0036
Stddev	.0005	.0026	.0017	.0002	.0022
%RSD	235.5	18.55	86.80	18.77	62.17

#1	.0006	.0159	.0031	-.0011	.0020
#2	-.0001	.0122	.0007	-.0008	.0052

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	-.0008	.00014	.0066	-.00022	.00003
Stddev	.0003	.00090	.0196	.00051	.00003
%RSD	32.07	638.82	298.2	226.81	116.10

#1	-.0010	.00077	.0204	.00013	.00001
#2	-.0007	-.00049	-.0073	-.00058	.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	185.88
Stddev	1.04
%RSD	.55822

#1	185.15
#2	186.61

Method: 2010A

Sample Name: CRI

Operator:

Comment:

Run Time: 05/26/10 09:09 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0605	.0442	.0846	.00464	.00452	.0481
Stddev	.0241	.0006	.0009	.00015	.00002	.0004
%RSD	39.82	1.427	1.078	3.2488	.42054	.8634

#1	.0775	.0438	.0840	.00454	.00453	.0484
#2	.0434	.0446	.0853	.00475	.00451	.0478

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	.0043	.0429	.0047	.0103	.0096	.0204
Stddev	.0001	.0014	.0005	.0008	.0004	.0006
%RSD	1.374	3.341	11.21	7.448	4.441	2.771

#1	.0044	.0419	.0044	.0097	.0099	.0208
#2	.0043	.0439	.0051	.0108	.0093	.0200

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	.0437	.01737	.00469	.0076	.0196	.4069
Stddev	.0002	.00013	.00013	.0002	.0003	.0090
%RSD	.5378	.72285	2.8142	1.990	1.343	2.210

#1	.0439	.01728	.00460	.0075	.0194	.4133
#2	.0435	.01746	.00478	.0077	.0198	.4006

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	.0946	.0066	.2013	.0328	.0082	.0087
Stddev	.0195	.0009	.0023	.0042	.0015	.0007
%RSD	20.67	13.50	1.163	12.90	18.34	8.578

#1	.0808	.0073	.2029	.0298	.0093	.0093
#2	.1084	.0060	.1996	.0358	.0071	.0082

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: 05/26/10 09:09

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1832	.3838	.00741	.1495	.00985	.00881
Stddev	.0132	.0023	.00139	.0251	.00027	.00004
%RSD	7.179	.6061	18.746	16.81	2.7494	.49824
#1	.1925	.3821	.00643	.1673	.01004	.00884
#2	.1739	.3854	.00840	.1317	.00966	.00878
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	188.15					
Stddev	.84					
%RSD	.44527					
#1	187.56					
#2	188.75					

Method: 2010A

Sample Name: ICSEA

Operator:

Comment:

ICP7-43-B

Run Time: 05/26/10 09:12 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	511.5	.0678	-.0015	-.00012	.00003	-.1824
Stddev	.7	.0216	.0084	.00007	.00003	.0009
%RSD	.1361	31.81	571.2	56.041	125.31	.5066

#1	512.0	.0525	.0045	-.00007	.00005	-.1831
#2	511.0	.0830	-.0075	-.00017	.00000	-.1818

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	.0121	488.6	-.0025	.0002	.0021	201.1
Stddev	.0002	.9	.0016	.0008	.0020	.8
%RSD	1.473	.1794	64.39	448.0	92.88	.4056

#1	.0120	489.3	-.0036	-.0004	.0036	200.5
#2	.0123	488.0	-.0013	.0008	.0007	201.6

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	.0030	513.7	.00428	.0029	-.0021	-.0344
Stddev	.0092	1.0	.00015	.0024	.0006	.0130
%RSD	303.8	.1853	3.5985	82.95	27.56	37.89

#1	.0095	514.4	.00417	.0047	-.0025	-.0436
#2	-.0035	513.1	.00439	.0012	-.0017	-.0252

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	.0145	-.0005	.0820	-.0122	.0007	.0065
Stddev	.0098	.0038	.0014	.0011	.0029	.0000
%RSD	67.47	799.9	1.730	8.883	422.4	.1675

#1	.0214	.0022	.0830	-.0114	-.0014	.0065
#2	.0076	-.0032	.0810	-.0130	.0028	.0065

Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ICSA Run Time: 05/26/10 09:12

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0357	-.0143	.01081	-.0597	.01030	.02076
Stddev	.0103	.0024	.00111	.0105	.00030	.00046
%RSD	28.84	16.92	10.304	17.65	2.9182	2.2223
#1	.0430	-.0126	.01160	-.0671	.01008	.02109
#2	.0284	-.0160	.01003	-.0522	.01051	.02044
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	170.84					
Stddev	.50					
%RSD	.29140					
#1	170.48					
#2	171.19					

Method: 2010A

Sample Name: ICSAB

Operator:

Comment:

ICP-38-C

Run Time: 05/26/10 09:15 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	510.0	1.063	.0029	.47281	.53033	-.1761
Stddev	2.2	.036	.0085	.00145	.00153	.0006
%RSD	.4325	3.369	296.5	.30590	.28768	.3297
#1	508.4	1.038	.0089	.47179	.53141	-.1756
#2	511.5	1.088	-.0031	.47383	.52925	-.1765
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	.9863	489.4	.5025	.4864	.4839	198.8
Stddev	.0019	4.1	.0035	.0012	.0004	.2
%RSD	.1898	.8392	.7038	.2374	.0854	.1126
#1	.9850	486.5	.5050	.4872	.4842	198.6
#2	.9877	492.4	.5000	.4855	.4836	199.0
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	1.001	511.1	.45982	.0022	.9529	-.0452
Stddev	.017	.8	.00062	.0000	.0000	.0097
%RSD	1.648	.1601	.13573	1.690	.0003	21.44
#1	.9894	511.7	.45938	.0023	.9529	-.0383
#2	1.013	510.5	.46026	.0022	.9529	-.0521
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	.0151	.9974	.0645	-.0208	.5069	.9666
Stddev	.0291	.0022	.0045	.0123	.0029	.0017
%RSD	193.0	.2224	6.958	59.41	.5814	.1737
#1	.0357	.9990	.0677	-.0120	.5089	.9654
#2	-.0055	.9958	.0613	-.0295	.5048	.9678
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: 05/26/10 09:15

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0291	-.0048	.01075	-.0663	.01003	.02053
Stddev	.0069	.0030	.00123	.0443	.00054	.00040
%RSD	23.66	61.20	11.419	66.86	5.3342	1.9423

#1	.0243	-.0027	.01161	-.0977	.00965	.02081
#2	.0340	-.0069	.00988	-.0350	.01041	.02024

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	172.56
Stddev	.60
%RSD	.34961

#1	172.14
#2	172.99

Method: 2010A Sample Name: ICSAB

Operator:

Comment:

Run Time: 05/26/10 09:18 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	507.5	1.067	-.0166	.46342	.52252	-.1731
Stddev	.7	.001	.0005	.00412	.00213	.0007
%RSD	.1340	.1121	3.247	.88803	.40835	.4056

#1	507.0	1.066	-.0162	.46051	.52403	-.1726
#2	507.9	1.068	-.0170	.46633	.52101	-.1736

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	.9663	485.8	.4907	.4759	.4926	195.2
Stddev	.0032	7.1	.0023	.0010	.0082	.9
%RSD	.3356	1.452	.4595	.2102	1.662	.4515

#1	.9640	480.8	.4892	.4752	.4868	194.5
#2	.9686	490.8	.4923	.4766	.4984	195.8

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	.9883	509.0	.45102	.0009	.9328	-.0361
Stddev	.0008	2.1	.00246	.0004	.0021	.0058
%RSD	.0815	.4194	.54490	47.57	.2215	16.01

#1	.9888	510.5	.44928	.0006	.9313	-.0402
#2	.9877	507.5	.45275	.0013	.9343	-.0320

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	.0430	.9924	.0633	-.0220	.4980	.9485
Stddev	.0028	.0107	.0013	.0052	.0008	.0080
%RSD	6.585	1.081	2.097	23.59	.1670	.8485

#1	.0450	.9999	.0642	-.0183	.4974	.9428
#2	.0410	.9848	.0623	-.0257	.4986	.9541

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

SC
5/26/10

Sample Name: ICSAB Run Time: 05/26/10 09:18

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194	-.0041	.01013	-.0639	.00989	.01982
Stddev	.0040	.0069	.00238	.0275	.00041	.00098
%RSD	20.46	169.6	23.503	42.98	4.1825	4.9449

#1	.0223	-.0089	.00845	-.0445	.01019	.02052
#2	.0166	.0008	.01181	-.0833	.00960	.01913

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	174.73
Stddev	.46
%RSD	.26331

#1	174.41
#2	175.06

*3C
5/26/10*

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 09:21 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.028	.0046	-.0047	2.4907	.04961	-.0183
Stddev	.081	.0019	.0036	.0202	.00001	.0010
%RSD	1.601	40.18	75.44	.80907	.02095	5.541

#1	5.085	.0033	-.0022	2.5049	.04960	-.0190
#2	4.971	.0059	-.0073	2.4764	.04962	-.0176

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	.0027	25.67	.0031	-.0012	-.0012	25.20
Stddev	.0001	.18	.0004	.0008	.0020	.11
%RSD	4.348	.7115	13.60	62.85	165.7	.4464

#1	.0026	25.54	.0034	-.0007	.0002	25.27
#2	.0028	25.80	.0028	-.0018	-.0026	25.12

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	.0030	24.96	4.925	-.0012	-.0031	9.906
Stddev	.0031	.00	.007	.0001	.0005	.032
%RSD	102.5	.0129	.1334	4.780	15.56	.3241

#1	.0052	24.96	4.929	-.0012	-.0028	9.929
#2	.0008	24.96	4.920	-.0011	-.0035	9.884

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	.0046	.0024	9.805	.0094	.0033	.0010
Stddev	.0010	.0011	.067	.0008	.0015	.0000
%RSD	21.06	47.12	.6840	8.962	44.63	4.257

#1	.0039	.0032	9.853	.0100	.0022	.0009
#2	.0053	.0016	9.758	.0088	.0043	.0010

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

Sample Name: CCVB Run Time: 05/26/10 09:21

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.964	2.498	.00023	-.0228	.49480	.49879
Stddev	.035	.005	.00087	.0130	.00274	.00166
%RSD	.3503	.2187	374.12	56.93	.55320	.33375
#1	9.989	2.502	.00085	-.0136	.49674	.49997
#2	9.939	2.494	-.00038	-.0319	.49286	.49761
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	185.15					
Stddev	.74					
%RSD	.40214					
#1	184.62					
#2	185.68					

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 09:24 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4828	2.455	2.452	.45603	.51986	.4944
Stddev	.0220	.021	.003	.00117	.00133	.0010
%RSD	4.564	.8733	.1074	.25680	.25542	.1935
#1	.4984	2.439	2.450	.45686	.52080	.4950
#2	.4672	2.470	2.454	.45520	.51892	.4937
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	.4939	2.400	.4993	.4915	.5029	.4993
Stddev	.0008	.043	.0004	.0018	.0015	.0115
%RSD	.1575	1.779	.0773	.3714	.2955	2.303
#1	.4944	2.370	.4996	.4928	.5040	.5074
#2	.4933	2.430	.4990	.4902	.5019	.4912
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	2.432	1.9638	.96623	.9698	.4899	4.878
Stddev	.023	.0057	.00419	.0012	.0009	.005
%RSD	.9494	.28866	.43409	.1240	.1909	.0996
#1	2.416	1.9598	.96326	.9689	.4892	4.881
#2	2.449	1.9678	.96920	.9706	.4906	4.874
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	2.404	.4880	.4673	2.391	.4886	.4953
Stddev	.037	.0049	.0071	.011	.0007	.0011
%RSD	1.560	1.008	1.513	.4556	.1414	.2254
#1	2.377	.4845	.4723	2.383	.4891	.4945
#2	2.430	.4915	.4623	2.399	.4881	.4961
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: 05/26/10 09:24

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.2539	.48923	4.871	.00012	.00167
Stddev	.0080	.0012	.00136	.024	.00018	.00007
%RSD	4067.	.4785	.27761	.4913	153.03	4.4084
#1	.0059	.2530	.48827	4.888	.00024	.00173
#2	-.0055	.2547	.49019	4.855	-.00001	.00162
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	188.70					
Stddev	.76					
%RSD	.40384					
#1	188.16					
#2	189.24					

Method: 2010A Sample Name: CCB Operator:
 Comment:
 Run Time: 05/26/10 09:27 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.0109	.0028	-.00004	.00008	.0003
Stddev	.0261	.0080	.0142	.00018	.00004	.0000
%RSD	735.7	73.68	502.7	431.96	51.750	14.77

#1	-.0149	.0166	-.0072	-.00017	.00011	.0003
#2	.0220	.0052	.0129	.00009	.00005	.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	-.0002	.0000	.0008	.0011	.0004	.0023
Stddev	.0005	.005	.0001	.0004	.0010	.0004
%RSD	295.8	111500.	16.25	34.30	254.0	18.42

#1	.0002	-.0033	.0009	.0008	.0010	.0026
#2	-.0005	.0033	.0008	.0013	-.0003	.0020

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	-.0058	.00034	.00077	.0002	-.0003	-.0008
Stddev	.0030	.00010	.00016	.0008	.0002	.0028
%RSD	52.36	28.593	20.175	330.9	66.52	359.2

#1	-.0079	.00041	.00088	.0008	-.0002	.0012
#2	-.0036	.00027	.00066	-.0003	-.0005	-.0027

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	.0028	.0022	-.0032	.0057	-.0005	-.0008
Stddev	.0029	.0031	.0027	.0023	.0020	.0005
%RSD	106.0	141.4	84.61	40.66	407.1	68.91

#1	.0048	.0000	-.0052	.0073	-.0019	-.0004
#2	.0007	.0044	-.0013	.0040	.0009	-.0012

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: CCB Run Time: 05/26/10 09:27

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	.0020	-.00234	.0176	.00020	.00008
Stddev	.0078	.0021	.00296	.0223	.00026	.00002
%RSD	644.8	104.4	126.45	126.4	129.46	18.939

#1	-.0068	.0005	-.00025	.0334	.00038	.00009
#2	.0043	.0035	-.00443	.0019	.00002	.00007

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	186.03
Stddev	.04
%RSD	.02395

#1	186.00
#2	186.06

Method: 2010A Sample Name: K1004575-MB Operator: JC
Comment: (202239) (052610A)
Run Time: 05/26/10 09:50 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0050	-.0005	.0066	.00005	.00000

#1	.0036	-.0018	.0041	-.00009	.00001
#2	-.0135	.0008	.0091	.00019	-.00001

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0002	.0013	.0001	-.0006

#1	.0005	-.0004	.0099	.0003	-.0009
#2	.0003	.0007	-.0073	.0000	-.0003

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0001	-.0051	.00006	-.00003

#1	.0012	.0003	-.0071	.00006	-.00005
#2	-.0013	-.0005	-.0032	.00006	.00000

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	-.0003	-.0081	-.0028	.0030

#1	-.0023	.0004	-.0123	.0035	.0047
#2	-.0016	-.0010	-.0039	-.0090	.0013

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0025	.0008	.0040	-.0012	.2170

#1	-.0034	.0051	.0032	-.0013	.2230
#2	-.0016	-.0034	.0049	-.0011	.2110

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0042	-.00316	.0185	-.00032	-.00009

#1	.0041	-.00366	.0148	-.00042	-.00008
#2	.0043	-.00266	.0223	-.00021	-.00009

Int. Std.	Sc3572
Units	Cts/S
Avg	185.94

#1	185.59
#2	186.29

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1004575 (202239) (052610A)
 Run Time: 05/26/10 09:53 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.034	2.608	2.556	5.0790	.12491	1.027
#1	5.034	2.613	2.550	5.0810	.12509	1.025
#2	5.035	2.603	2.562	5.0771	.12473	1.028
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.255	12.39	.5147	1.260	.6388	2.504
#1	1.256	12.35	.5164	1.261	.6376	2.496
#2	1.254	12.43	.5130	1.258	.6401	2.511
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.522	12.51	1.2228	1.006	1.254	12.73
#1	2.521	12.50	1.2322	1.002	1.253	12.80
#2	2.523	12.52	1.2133	1.009	1.255	12.66
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.525	.6180	12.70	.0105	1.259	1.261
#1	2.488	.6142	12.86	.0125	1.266	1.261
#2	2.561	.6218	12.55	.0085	1.253	1.262
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2327	.0114	-.00085	2.461	.00044	.00702
#1	.2397	.0102	-.00142	2.467	.00012	.00705
#2	.2256	.0127	-.00027	2.455	.00077	.00699
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.17					
#1	183.58					
#2	184.75					

Method: 2010A Sample Name: K1004575-001 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 09:56 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.067	.0155	.0045	.15045	-.00003	.0046

#1	1.066	.0203	.0045	.14994	-.00002	.0042
#2	1.069	.0106	.0045	.15096	-.00004	.0050

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	58.02	.0017	.0053	.0015	2.066

#1	.0015	57.61	.0016	.0050	.0018	2.062
#2	.0010	58.42	.0018	.0055	.0012	2.069

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	22.78	.55958	.0065	.0040	7.219

#1	.0109	22.76	.55764	.0089	.0042	7.257
#2	.0001	22.79	.56152	.0040	.0038	7.181

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0361	.0014	31.92	.0046	.0043	.0064

#1	.0326	.0028	32.13	.0061	.0029	.0068
#2	.0395	.0000	31.71	.0031	.0057	.0059

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3200	32.82	.06479	-.0145	.01522	.28726

#1	.3240	32.80	.06468	-.0221	.01529	.28813
#2	.3159	32.84	.06491	-.0070	.01514	.28640

Int. Std.	Sc3572
Units	Cts/S
Avg	184.22

#1	183.88
#2	184.57

Method: 2010A Sample Name: K1004575-001D Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 09:59 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.079	-.0047	.0098	.15250	.00001	.0041
#1	1.077	-.0077	.0146	.15334	.00002	.0038
#2	1.080	-.0016	.0051	.15166	.00000	.0044
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	58.67	.0039	.0057	.0024	2.091
#1	.0011	58.47	.0044	.0063	.0020	2.100
#2	.0008	58.88	.0034	.0050	.0027	2.081
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	22.82	.56342	.0051	.0033	7.305
#1	.0134	22.89	.56517	.0041	.0032	7.294
#2	-.0020	22.74	.56167	.0060	.0034	7.315
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	-.0015	32.48	.0026	.0067	.0076
#1	.0009	.0012	32.75	.0000	.0073	.0085
#2	.0092	-.0042	32.21	.0052	.0060	.0067
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3207	33.10	.06770	.0012	.01565	.29003
#1	.3184	33.13	.06583	-.0036	.01567	.29145
#2	.3229	33.07	.06958	.0060	.01563	.28860
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.76					
#1	181.88					
#2	183.64					

Method: 2010A Sample Name: K1004575-001L Operator: JC
 Comment: 1/5 (202239) (052610A)
 Run Time: 05/26/10 10:01 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2163	.0022	-.0014	.03039	-.00006	.0006
#1	.2141	.0035	-.0030	.03036	-.00009	.0010
#2	.2185	.0009	.0001	.03041	-.00002	.0002
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	11.94	.0003	.0011	.0014	.4187
#1	.0001	11.93	.0001	.0016	.0017	.4198
#2	.0001	11.96	.0004	.0006	.0011	.4177
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	4.5129	.11294	-.0002	-.0004	1.405
#1	.0082	4.5285	.11325	.0000	-.0006	1.410
#2	.0005	4.4973	.11264	-.0005	-.0002	1.401
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097	.0028	6.035	-.0005	.0034	-.0001
#1	.0118	.0038	6.040	-.0004	.0032	.0002
#2	.0076	.0019	6.029	-.0006	.0037	-.0003
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0658	6.038	.01207	.0099	.00273	.05684
#1	.0670	6.042	.01111	-.0030	.00247	.05721
#2	.0645	6.034	.01304	.0228	.00298	.05648
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.31					
#1	187.67					
#2	188.94					

Method: 2010A Sample Name: K1004575-001S Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:04 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.262	.4694	1.023	2.1417	.04793	1.030
#1	3.257	.4747	1.011	2.1437	.04788	1.031
#2	3.268	.4642	1.036	2.1397	.04798	1.029
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0493	58.72	.2003	.4817	.2395	3.256
#1	.0492	58.94	.2015	.4822	.2403	3.259
#2	.0494	58.49	.1992	.4811	.2387	3.252
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4672	23.03	1.0688	1.011	.4794	7.366
#1	.4672	23.15	1.0644	1.010	.4836	7.353
#2	.4671	22.92	1.0733	1.011	.4752	7.379
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9960	.0462	32.82	.0053	.4936	.4896
#1	.9981	.0454	32.91	-.0010	.4910	.4891
#2	.9939	.0470	32.73	.0116	.4962	.4900
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3448	33.62	.06342	.9541	.01578	.29274
#1	.3409	33.62	.06230	.9683	.01604	.29266
#2	.3488	33.63	.06453	.9400	.01552	.29283
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.84					
#1	182.66					
#2	183.03					

Method: 2010A Sample Name: K1004575-002 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:07 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1323	.0092	.0145	.09900	-.00007	.0287
#1	.1302	.0018	.0101	.09869	-.00005	.0296
#2	.1344	.0166	.0189	.09931	-.00008	.0279
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	151.1	.0023	.0122	.0011	.1989
#1	.0009	150.6	.0022	.0117	.0012	.1996
#2	.0010	151.5	.0024	.0127	.0011	.1983
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0060	52.58	1.2011	.0384	.0132	14.73
#1	-.0069	52.80	1.1982	.0398	.0127	14.69
#2	-.0051	52.35	1.2040	.0370	.0136	14.77
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.0013	138.7	-.0005	.0046	.0010
#1	.0104	.0016	138.5	-.0045	.0012	.0009
#2	.0104	.0010	138.9	.0034	.0080	.0011
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3009	22.15	.00538	.0080	.01348	.85389
#1	.2972	22.25	.00537	-.0033	.01342	.85636
#2	.3046	22.06	.00540	.0194	.01355	.85143
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.26					
#1	182.04					
#2	182.47					

Method: 2010A Sample Name: K1004575-003 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:10 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1273	.0034	.0155	.09864	-.00011	.0305
#1	.1188	.0008	.0126	.09904	-.00004	.0311
#2	.1358	.0060	.0183	.09825	-.00017	.0298
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	151.7	.0004	.0130	-.0015	.1802
#1	.0013	150.9	.0005	.0131	-.0030	.1808
#2	.0016	152.6	.0003	.0129	.0000	.1795
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	52.96	1.2078	.0353	.0121	14.91
#1	.0028	52.95	1.2115	.0366	.0127	14.92
#2	-.0043	52.98	1.2042	.0340	.0116	14.90
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	.0032	140.2	.0102	.0058	.0014
#1	.0007	.0019	140.9	.0065	.0051	.0012
#2	.0159	.0044	139.6	.0139	.0064	.0015
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3066	22.14	.00507	.0033	.01358	.86630
#1	.2993	22.14	.00616	-.0015	.01393	.86881
#2	.3139	22.13	.00398	.0080	.01323	.86379
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.74					
#1	181.49					
#2	181.98					

Method: 2010A Sample Name: K1004575-004 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 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	.0156	-.0005	.0000	-.00008	.00004	-.0001
#1	.0064	-.0035	-.0085	-.00041	.00007	-.0001
#2	.0248	.0026	.0085	.00026	.00001	-.0001
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0877	.0011	-.0002	.0016	.0026
#1	.0001	.0859	.0010	-.0003	.0012	.0028
#2	.0003	.0894	.0013	.0000	.0021	.0024
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0066	.00746	.00012	-.0012	-.0007	.0079
#1	-.0092	.00822	.00023	-.0018	-.0011	.0174
#2	-.0041	.00670	.00001	-.0005	-.0003	-.0015
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159	.0022	.0257	.0033	.0009	.0001
#1	.0269	.0009	.0260	.0058	.0009	.0002
#2	.0048	.0035	.0255	.0009	.0010	.0000
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2300	.0109	-.00188	-.0001	-.00003	.00020
#1	.2347	.0112	-.00135	-.0114	.00000	.00024
#2	.2253	.0105	-.00242	.0111	-.00006	.00017
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.97					
#1	184.33					
#2	185.62					

Method: 2010A Sample Name: K1004635-001 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:16 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0081	-.0017	.06553	-.00003

#1	.0135	.0116	.0021	.06523	-.00004
#2	-.0149	.0046	-.0055	.06582	-.00002

Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0066	-.0003	104.8	.0014	.0021

#1	.0063	-.0002	104.5	.0006	.0017
#2	.0069	-.0003	105.0	.0021	.0026

Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0202	.0031	33.34	.17435

#1	-.0010	.0199	.0009	33.41	.17442
#2	-.0010	.0204	.0053	33.27	.17429

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0117	.0020	6.135	.0083	.0033

#1	.0119	.0022	6.148	.0104	.0038
#2	.0114	.0018	6.122	.0062	.0029

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	26.86	.0018	.0038	.0000	.2237

#1	27.04	-.0041	.0047	-.0001	.2178
#2	26.69	.0076	.0030	.0001	.2295

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	19.13	-.00136	-.0125	.01169	.39288

#1	19.13	-.00145	-.0182	.01151	.39355
#2	19.14	-.00127	-.0068	.01187	.39221

Int. Std.	Sc3572
Units	Cts/S
Avg	182.51

#1	182.29
#2	182.73

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 10:19 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.032	-.0002	-.0022	2.4912	.05012	-.0178
Stddev	.033	.0050	.0062	.0032	.00005	.0006
%RSD	.6459	2772.	280.8	.12878	.10238	3.426
#1	5.009	-.0037	.0022	2.4889	.05009	-.0182
#2	5.055	.0033	-.0066	2.4934	.05016	-.0174
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	25.34	.0021	-.0010	-.0011	25.13
Stddev	.0002	.06	.0005	.0023	.0005	.11
%RSD	7.610	.2278	24.60	221.3	49.67	.4193
#1	.0024	25.29	.0025	-.0026	-.0014	25.06
#2	.0021	25.38	.0017	.0006	-.0007	25.21
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	-.0060	25.12	4.957	-.0015	-.0038	9.956
Stddev	.0146	.22	.028	.0019	.0000	.059
%RSD	243.7	.8713	.5608	128.0	.8036	.5980
#1	.0043	24.96	4.937	-.0029	-.0038	9.998
#2	-.0163	25.27	4.977	-.0001	-.0038	9.914
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	-.0065	-.0008	9.780	.0102	.0044	.0003
Stddev	.0068	.0029	.041	.0009	.0021	.0005
%RSD	105.3	367.7	.4199	9.229	47.59	202.6
#1	-.0017	-.0028	9.810	.0109	.0059	-.0001
#2	-.0113	.0013	9.751	.0095	.0029	.0006
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/26/10 10:19

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.963	2.513	.00056	-.0145	.49425	.50331
Stddev	.023	.002	.00088	.0092	.00263	.00129
%RSD	.2305	.0720	157.01	63.47	.53248	.25665
#1	9.946	2.512	.00118	-.0210	.49611	.50240
#2	9.979	2.514	-.00006	-.0080	.49239	.50423
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	184.71					
Stddev	.23					
%RSD	.12372					
#1	184.88					
#2	184.55					

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 10:22 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4708	2.448	2.454	.45603	.52703	.4969
Stddev	.0031	.002	.001	.00143	.00120	.0010
%RSD	.6632	.0769	.0466	.31382	.22797	.2054
#1	.4685	2.447	2.454	.45704	.52788	.4976
#2	.4730	2.449	2.453	.45502	.52618	.4961
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	.4925	2.425	.4935	.4924	.5043	.5036
Stddev	.0006	.010	.0024	.0041	.0004	.0099
%RSD	.1118	.4204	.4812	.8295	.0713	1.964
#1	.4922	2.418	.4952	.4953	.5046	.5106
#2	.4929	2.432	.4918	.4895	.5041	.4966
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	2.459	1.9799	.96289	.9764	.4915	5.015
Stddev	.000	.0016	.01027	.0003	.0001	.017
%RSD	.0047	.08281	1.0668	.0292	.0273	.3294
#1	2.459	1.9810	.97015	.9766	.4914	5.004
#2	2.459	1.9787	.95563	.9762	.4916	5.027
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	2.442	.4894	.4720	2.391	.4944	.4901
Stddev	.035	.0015	.0036	.008	.0032	.0025
%RSD	1.454	.3109	.7668	.3485	.6395	.5029
#1	2.467	.4883	.4695	2.397	.4922	.4918
#2	2.417	.4904	.4746	2.385	.4967	.4884
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: 05/26/10 10:22

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0118	.2637	.49145	4.881	.00016	.00169
Stddev	.0030	.0043	.00246	.017	.00022	.00006
%RSD	25.82	1.649	.50083	.3469	138.22	3.3820

#1	-.0140	.2667	.48971	4.869	.00000	.00165
#2	-.0097	.2606	.49320	4.893	.00032	.00174

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	188.53
Stddev	.25
%RSD	.13027

#1	188.36
#2	188.71

Method: 2010A Sample Name: CCB Operator:
 Comment:
 Run Time: 05/26/10 10:25 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227	.0079	.0063	.00031	.00010	.0005
Stddev	.0130	.0136	.0022	.00015	.00006	.0002
%RSD	57.35	172.4	35.36	46.956	58.430	34.46

#1	.0135	.0175	.0047	.00042	.00006	.0004
#2	.0320	-.0017	.0079	.00021	.00014	.0006

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	-.0005	.0091	.0009	.0009	.0028	.0036
Stddev	.0004	.0047	.0002	.0003	.0006	.0005
%RSD	86.08	50.97	21.14	30.76	22.40	13.27

#1	-.0008	.0124	.0007	.0007	.0024	.0039
#2	-.0002	.0058	.0010	.0011	.0033	.0033

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	.0010	.00283	.00084	.0022	-.0011	.0047
Stddev	.0034	.00000	.00007	.0012	.0002	.0132
%RSD	349.5	.01673	8.1951	53.02	16.83	284.1

#1	.0033	.00283	.00089	.0030	-.0010	-.0047
#2	-.0014	.00283	.00079	.0014	-.0012	.0140

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	.0055	.0036	.0027	-.0024	.0019	-.0003
Stddev	.0088	.0025	.0016	.0063	.0012	.0001
%RSD	159.1	67.63	59.12	260.1	65.44	23.31

#1	-.0007	.0019	.0015	.0020	.0010	-.0004
#2	.0117	.0054	.0038	-.0068	.0028	-.0003

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: CCB Run Time: 05/26/10 10:25

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0032	.0000	-.00140	.0120	.00022	.00007
Stddev	.0014	.0037	.00130	.0066	.00022	.00004
%RSD	43.17	29510.	93.033	55.01	101.78	53.882
#1	-.0042	.0026	-.00231	.0167	.00038	.00010
#2	-.0022	-.0026	-.00048	.0073	.00006	.00005
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	184.67					
Stddev	.00					
%RSD	.00137					
#1	184.68					
#2	184.67					

Method: 2010A Sample Name: K1004635-002 Operator: JC
Comment: (202239) (052610A)
Run Time: 05/26/10 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	.0036	-.0018	.0094	.00014	-.00002	-.0003
#1	.0050	.0043	.0154	.00005	-.00002	-.0007
#2	.0021	-.0079	.0035	.00024	-.00002	.0002
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0761	.0010	.0003	.0018	.0040
#1	.0007	.0753	.0018	.0009	.0021	.0044
#2	.0004	.0769	.0002	-.0003	.0015	.0036
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0059	.01208	.00002	-.0020	.0016	.0077
#1	-.0040	.01216	-.00005	-.0009	.0011	.0128
#2	-.0079	.01200	.00009	-.0030	.0021	.0026
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	.0032	.0366	.0034	.0005	.0002
#1	.0007	.0016	.0391	.0060	.0006	.0003
#2	.0076	.0047	.0341	.0008	.0004	.0001
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2333	.0073	-.00003	.0101	-.00013	.00032
#1	.2329	.0075	-.00105	.0185	-.00033	.00036
#2	.2336	.0070	.00098	.0016	.00007	.00028
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.62					
#1	183.56					
#2	183.68					

Method: 2010A Sample Name: K1004635-003 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:31 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1744	.0016	.0015	.27913	-.00006	.0102
#1	.1901	-.0032	.0040	.27970	-.00004	.0106
#2	.1587	.0064	-.0011	.27857	-.00009	.0098
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	130.8	.0015	.0060	-.0007	.4401
#1	.0004	130.2	.0024	.0062	-.0009	.4424
#2	.0011	131.4	.0006	.0058	-.0006	.4378
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	47.20	.06285	.0151	.0033	7.987
#1	.0037	47.26	.06298	.0158	.0030	7.980
#2	-.0017	47.15	.06272	.0144	.0035	7.994
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166	.0005	127.3	-.0091	.0060	.0009
#1	.0242	.0022	127.7	-.0043	.0055	.0012
#2	.0090	-.0013	126.9	-.0140	.0064	.0007
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2674	21.70	.00716	.0095	.01938	.62964
#1	.2706	21.67	.00672	.0113	.01903	.63151
#2	.2642	21.73	.00761	.0077	.01973	.62777
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.89					
#1	181.22					
#2	182.56					

Method: 2010A Sample Name: RB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:34 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0107	-.0009	-.0006	-.00014	-.00001
#1	-.0149	.0000	-.0041	-.00045	-.00001
#2	-.0064	-.0018	.0028	.00018	.00000
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0013	-.0003	.0071	.0000	.0002
#1	.0009	-.0004	.0089	-.0014	.0006
#2	.0017	-.0002	.0053	.0013	-.0003
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0008	-.0064	.00059	-.00011
#1	.0009	-.0006	-.0178	.00089	-.00005
#2	-.0004	-.0010	.0049	.00029	-.00017
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0002	.0115	.0000	-.0003
#1	-.0008	.0005	-.0081	-.0035	-.0025
#2	-.0022	-.0001	.0310	.0035	.0019
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0156	.0054	.0023	-.0005	-.0006
#1	.0163	.0049	.0034	-.0012	-.0018
#2	.0149	.0059	.0012	.0002	.0006
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0016	-.00151	.0018	-.00045	.00000
#1	.0029	-.00133	.0129	-.00065	.00000
#2	.0004	-.00168	-.0093	-.00025	.00000
Int. Std.	Sc3572				
Units	Cts/S				
Avg	185.08				
#1	184.34				
#2	185.82				

Method: 2010A Sample Name: K1005150-001 Operator: JC
 Comment: RERUN (202239) (052610A)
 Run Time: 05/26/10 10:38 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.08	.0121	-.0045	.01760	.00051	.0010
#1	12.08	.0138	-.0114	.01748	.00051	.0010
#2	12.09	.0104	.0024	.01772	.00051	.0011
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1507	333.8	.0117	.1304	.4813	13.22
#1	.1505	331.3	.0125	.1289	.4828	13.21
#2	.1509	336.3	.0109	.1318	.4798	13.23
Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0079	28.02	5.985	-.0015	1.037	1.702
#1	-.0108	27.94	5.975	-.0018	1.034	1.693
#2	-.0050	28.11	5.995	-.0011	1.041	1.710
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0190	.0032	4.393	.0059	.0034	18.09
#1	.0252	.0028	4.383	.0065	.0045	18.05
#2	.0127	.0035	4.402	.0052	.0023	18.13
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1582	11.18	-.00087	-.0145	.06444	1.5672
#1	.1580	11.14	-.00082	-.0173	.06444	1.5611
#2	.1584	11.22	-.00093	-.0117	.06443	1.5733
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.35					
#1	181.63					
#2	181.07					

Method: 2010A Sample Name: K1005157-001 Operator: JC
 Comment: RERUN (202239) (052610A)
 Run Time: 05/26/10 10:41 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.37	.0086	.0080	.01802	.00057	-.0002
#1	12.50	.0043	.0115	.01845	.00052	.0005
#2	12.23	.0130	.0045	.01759	.00063	-.0009
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1541	340.2	.0106	.1355	.4800	15.03
#1	.1559	342.0	.0093	.1345	.4786	15.19
#2	.1523	338.3	.0118	.1365	.4814	14.87
Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0035	28.60	6.079	-.0014	1.064	1.720
#1	-.0067	28.90	6.081	-.0015	1.073	1.710
#2	-.0002	28.29	6.077	-.0013	1.054	1.730
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0232	.0033	4.383	.0008	.0054	18.48
#1	.0309	.0032	4.401	-.0064	.0031	18.64
#2	.0156	.0035	4.364	.0080	.0076	18.31
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1856	11.41	.00057	-.0380	.06543	1.5892
#1	.1916	11.48	.00196	-.0401	.06591	1.5915
#2	.1795	11.33	-.00082	-.0360	.06495	1.5869
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.01					
#1	180.39					
#2	181.63					

Method: 2010A Sample Name: RB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:43 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156	-.0044	.0047	-.00004	-.00004	.0008
#1	.0121	-.0140	.0091	-.00021	-.00006	.0008
#2	.0191	.0052	.0003	.00013	-.00002	.0007
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0101	.0005	.0003	.0018	.0047
#1	.0000	.0023	.0010	.0004	.0009	.0085
#2	.0008	.0180	.0000	.0002	.0027	.0010
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	.00030	.00035	-.0008	.0003	-.0076
#1	-.0070	.00048	.00069	-.0013	.0005	.0010
#2	.0025	.00013	.00001	-.0002	.0002	-.0162
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0025	.0160	-.0028	-.0004	.0005
#1	.0007	.0029	.0146	-.0096	-.0019	.0016
#2	.0021	.0022	.0174	.0040	.0011	-.0006
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	.0021	-.00215	-.0002	-.00005	-.00001
#1	.0112	.0018	-.00447	-.0039	.00010	.00002
#2	.0002	.0024	.00017	.0035	-.00019	-.00003
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.36					
#1	184.65					
#2	184.06					

Method: 2010A Sample Name: K1004814-MB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:47 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0078	-.0070	.0013	.00018	.00006
#1	-.0007	-.0097	.0041	-.00016	.00003
#2	-.0149	-.0044	-.0016	.00052	.00009
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0001	.0046	.0010	-.0004
#1	-.0008	.0001	.0069	.0015	-.0003
#2	-.0001	-.0002	.0023	.0004	-.0006
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0011	-.0009	-.0015	.00006	.00001
#1	.0013	-.0008	-.0040	.00008	.00007
#2	.0009	-.0011	.0011	.00003	-.00005
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	.0009	-.0067	.0152	.0033
#1	-.0026	.0014	-.0175	.0242	.0016
#2	-.0020	.0004	.0041	.0062	.0051
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0014	.0005	-.0004	.2214
#1	.0022	.0070	.0005	-.0004	.2149
#2	-.0002	-.0042	.0004	-.0005	.2280
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.00308	-.0010	-.00009	-.00002
#1	.0007	-.00178	.0018	.00000	.00000
#2	.0000	-.00438	-.0038	-.00017	-.00005
Int. Std.	Sc3572				
Units	Cts/S				
Avg	185.24				
#1	185.03				
#2	185.45				

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1004814 (202239) (052610A)
 Run Time: 05/26/10 10:50 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.084	2.835	2.585	5.3318	.12889	1.049
#1	5.094	2.826	2.572	5.3252	.12896	1.048
#2	5.074	2.844	2.598	5.3384	.12882	1.050
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.284	12.52	.5249	1.288	.6442	2.578
#1	1.287	12.49	.5257	1.293	.6442	2.585
#2	1.282	12.55	.5240	1.284	.6442	2.570
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.590	12.69	1.2478	1.031	1.284	13.05
#1	2.602	12.72	1.2506	1.026	1.289	13.10
#2	2.579	12.66	1.2450	1.036	1.280	13.01
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.612	.6304	13.03	.0013	1.288	1.285
#1	2.623	.6285	13.11	.0071	1.291	1.284
#2	2.601	.6323	12.95	-.0045	1.286	1.287
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2123	.0072	.00121	2.576	-.00011	.00706
#1	.2216	.0078	.00298	2.574	-.00037	.00713
#2	.2029	.0066	-.00057	2.579	.00014	.00699
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.34					
#1	182.51					
#2	184.17					

Method: 2010A Sample Name: K1004814-003 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:52 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0257	.0092	.0236	.12398	-.00007	.0143
#1	.0292	.0087	.0236	.12408	-.00006	.0137
#2	.0221	.0096	.0236	.12389	-.00008	.0149
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	93.40	.0029	.0005	.0057	.0873
#1	.0003	92.93	.0045	.0017	.0059	.0891
#2	.0003	93.86	.0013	-.0007	.0056	.0855
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0089	42.09	.00128	.0015	-.0005	7.043
#1	-.0065	42.18	.00136	.0021	-.0013	7.028
#2	-.0113	42.00	.00121	.0010	.0003	7.059
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131	.0005	42.76	-.0026	.0071	.0824
#1	.0076	.0019	42.66	-.0051	.0095	.0819
#2	.0186	-.0009	42.85	-.0001	.0047	.0828
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4004	16.33	.00206	-.0078	.02073	.56654
#1	.4016	16.33	.00278	-.0098	.02082	.56664
#2	.3991	16.32	.00134	-.0059	.02064	.56643
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.10					
#1	182.56					
#2	183.63					

Method: 2010A Sample Name: K1004814-003D Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 10:55 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0420	.0009	.0132	.12235	-.00002	.0147
#1	.0406	.0018	.0053	.12251	-.00006	.0150
#2	.0434	.0000	.0211	.12218	.00002	.0144
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	93.16	.0036	.0005	.0063	.1033
#1	.0006	92.90	.0035	.0004	.0071	.1028
#2	.0008	93.41	.0036	.0006	.0056	.1038
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0044	41.63	.00104	.0015	-.0007	6.936
#1	-.0100	41.69	.00103	.0021	-.0014	6.935
#2	.0013	41.57	.00106	.0008	.0000	6.938
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166	.0025	42.30	.0040	.0050	.0827
#1	.0076	.0032	42.37	.0009	.0040	.0833
#2	.0256	.0019	42.23	.0070	.0060	.0821
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4093	16.15	.00074	-.0059	.02060	.55942
#1	.4059	16.16	-.00083	.0072	.02083	.56066
#2	.4126	16.15	.00232	-.0191	.02037	.55817
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.28					
#1	183.33					
#2	183.24					

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 10:58 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.006	.0046	.0091	2.5154	.04997	-.0176
Stddev	.007	.0019	.0071	.0057	.00017	.0002
%RSD	.1359	40.32	77.76	.22758	.34141	1.297

#1	5.001	.0060	.0041	2.5195	.05009	-.0178
#2	5.010	.0033	.0142	2.5114	.04985	-.0175

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	.0016	25.53	.0022	-.0013	.0010	25.25
Stddev	.0003	.18	.0006	.0003	.0011	.14
%RSD	18.17	.7237	27.40	22.41	110.8	.5356

#1	.0019	25.40	.0027	-.0011	.0017	25.34
#2	.0014	25.66	.0018	-.0015	.0002	25.15

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	-.0086	25.14	4.966	-.0010	-.0038	9.917
Stddev	.0049	.04	.031	.0009	.0012	.011
%RSD	56.84	.1715	.6307	95.40	31.51	.1074

#1	-.0120	25.17	4.989	-.0003	-.0046	9.925
#2	-.0051	25.11	4.944	-.0016	-.0030	9.910

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	.0156	.0008	9.831	.0050	.0056	.0004
Stddev	.0068	.0016	.058	.0024	.0011	.0005
%RSD	43.80	198.4	.5938	47.74	20.21	109.2

#1	.0205	.0019	9.872	.0033	.0064	.0008
#2	.0108	-.0003	9.789	.0067	.0048	.0001

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

Sample Name: CCVB Run Time: 05/26/10 10:58

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.969	2.515	.00222	-.0212	.49483	.50498
Stddev	.011	.005	.00067	.0077	.00096	.00249
%RSD	.1064	.2014	30.062	36.22	.19475	.49373
#1	9.962	2.518	.00269	-.0158	.49551	.50675
#2	9.977	2.511	.00175	-.0266	.49415	.50322
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	183.98					
Stddev	1.06					
%RSD	.57489					
#1	183.23					
#2	184.73					

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 11:01 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4630	2.452	2.411	.45783	.53097	.4981
Stddev	.0020	.012	.004	.00015	.00219	.0004
%RSD	.4402	.4799	.1633	.03263	.41186	.0770

#1	.4644	2.460	2.408	.45772	.53252	.4983
#2	.4615	2.444	2.414	.45794	.52942	.4978

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	.4951	2.462	.4955	.4954	.5007	.5098
Stddev	.0005	.008	.0019	.0003	.0028	.0116
%RSD	.1017	.3377	.3848	.0650	.5530	2.281

#1	.4947	2.468	.4968	.4957	.5026	.5180
#2	.4954	2.456	.4941	.4952	.4987	.5016

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	2.453	1.9790	.96813	.9806	.4950	4.949
Stddev	.004	.0041	.00666	.0011	.0007	.043
%RSD	.1840	.20779	.68769	.1125	.1487	.8750

#1	2.456	1.9819	.96342	.9798	.4955	4.919
#2	2.449	1.9761	.97283	.9814	.4945	4.980

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	2.431	.4907	.4753	2.401	.4989	.4905
Stddev	.003	.0150	.0021	.018	.0005	.0036
%RSD	.1177	3.053	.4475	.7561	.1002	.7429

#1	2.429	.4801	.4738	2.414	.4986	.4880
#2	2.433	.5013	.4768	2.388	.4993	.4931

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: 05/26/10 11:01

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0072	.2584	.49676	4.883	.00014	.00173
Stddev	.0090	.0022	.00344	.010	.00028	.00001
%RSD	125.8	.8392	.69160	.2134	206.38	.62002

#1	-.0135	.2599	.49919	4.876	-.00006	.00173
#2	-.0008	.2569	.49433	4.891	.00033	.00174

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	187.66
Stddev	.54
%RSD	.29016

#1	187.28
#2	188.05

Method: 2010A

Sample Name: CCB

Operator:

Comment:

Run Time: 05/26/10 11:04 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085	.0061	.0047	-.00008	.00013	.0006
Stddev	.0071	.0050	.0036	.00014	.00006	.0009
%RSD	82.84	81.53	75.44	172.39	48.399	154.7
#1	.0035	.0097	.0022	-.00018	.00008	.0012
#2	.0135	.0026	.0072	.00002	.00017	-.0001
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	.0003	.0033	.0008	.0004	.0001	.0036
Stddev	.0002	.0007	.0008	.0004	.0010	.0002
%RSD	68.07	21.72	93.42	100.7	1296.	4.731
#1	.0005	.0038	.0003	.0001	-.0006	.0038
#2	.0002	.0028	.0014	.0007	.0007	.0035
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	-.0003	.00299	.00088	.0009	-.0010	-.0154
Stddev	.0009	.00001	.00013	.0025	.0002	.0209
%RSD	261.5	.38937	14.321	270.5	22.49	135.6
#1	-.0010	.00298	.00096	.0027	-.0008	-.0006
#2	.0003	.00299	.00079	-.0009	-.0011	-.0302
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	-.0014	.0027	.0029	-.0019	-.0016	-.0013
Stddev	.0088	.0007	.0019	.0109	.0009	.0007
%RSD	637.1	24.83	66.36	562.1	54.29	53.32
#1	.0048	.0022	.0043	.0058	-.0010	-.0008
#2	-.0076	.0032	.0015	-.0097	-.0022	-.0018
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: CCB Run Time: 05/26/10 11:04

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220	.0014	-.00018	.0073	-.00027	.00014
Stddev	.0058	.0003	.00112	.0132	.00025	.00001
%RSD	26.32	19.02	627.43	180.4	91.510	5.7173
#1	.0179	.0016	-.00097	-.0020	-.00010	.00014
#2	.0261	.0012	.00061	.0167	-.00044	.00015
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	184.71					
Stddev	.35					
%RSD	.19070					
#1	184.46					
#2	184.96					

Method: 2010A Sample Name: K1004814-003L Operator: JC
 Comment: 1/5 (202239) (052610A)
 Run Time: 05/26/10 11:07 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0228	-.0035	.0010	.02487	.00000	.0021
#1	.0263	-.0018	.0054	.02512	.00000	.0021
#2	.0192	-.0053	-.0034	.02461	.00000	.0022
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	19.02	.0013	.0001	.0034	.0206
#1	.0000	19.07	.0013	.0003	.0023	.0204
#2	.0006	18.96	.0013	-.0002	.0045	.0207
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	8.0253	.00036	-.0016	-.0027	1.402
#1	-.0018	7.9934	.00033	-.0017	-.0018	1.392
#2	-.0015	8.0573	.00039	-.0014	-.0036	1.412
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0009	8.299	-.0114	.0078	.0172
#1	-.0021	-.0022	8.337	-.0063	.0088	.0186
#2	.0007	.0041	8.261	-.0164	.0069	.0159
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0915	3.084	.00053	-.0067	.00415	.11199
#1	.0964	3.078	.00140	-.0013	.00441	.11241
#2	.0867	3.089	-.00034	-.0121	.00390	.11156
Int. Std.	Sc3572					
Units	Cts/S					
Avg	185.72					
#1	184.61					
#2	186.84					

Method: 2010A Sample Name: K1004814-003S Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:10 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.999	.4590	1.039	2.1191	.04847	1.046
#1	2.008	.4483	1.037	2.1003	.04855	1.044
#2	1.990	.4696	1.042	2.1378	.04839	1.048
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0489	93.77	.2026	.4763	.2367	1.080
#1	.0491	92.93	.2021	.4732	.2372	1.079
#2	.0488	94.61	.2030	.4793	.2362	1.081
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4802	42.07	.44869	1.019	.4733	6.941
#1	.4788	42.10	.44766	1.009	.4729	6.917
#2	.4815	42.03	.44972	1.029	.4738	6.965
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.009	.0426	42.72	.0077	.4907	.5724
#1	1.001	.0429	42.81	.0139	.4937	.5700
#2	1.017	.0423	42.63	.0014	.4876	.5748
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4570	16.42	-.00066	.9586	.02060	.56742
#1	.4270	16.47	.00005	.9435	.02087	.56834
#2	.4870	16.37	-.00136	.9737	.02033	.56650
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.10					
#1	180.72					
#2	181.48					

Method: 2010A Sample Name: K1004814-001 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:13 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0655	.0328	.0040	.09305	-.00008	.0096
#1	.0719	.0355	-.0017	.09817	-.00018	.0099
#2	.0591	.0301	.0097	.08792	.00001	.0094
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	68.57	.0005	.0015	-.0002	.0554
#1	.0003	68.57	.0004	.0017	-.0019	.0593
#2	-.0001	68.57	.0006	.0012	.0015	.0516
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0084	27.19	.06086	.0720	-.0012	5.645
#1	-.0116	27.17	.06453	.0770	-.0018	5.734
#2	-.0052	27.21	.05719	.0670	-.0006	5.557
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166	.0043	31.40	-.0025	.0225	.0014
#1	.0186	.0023	33.52	-.0058	.0267	.0024
#2	.0145	.0064	29.28	.0008	.0183	.0004
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2293	21.62	.00341	-.0014	.01129	.39882
#1	.2145	21.65	.00528	.0021	.01148	.42634
#2	.2441	21.60	.00154	-.0049	.01110	.37130
Int. Std.	Sc3572					
Units	Cts/S					
Avg	176.91					
#1	167.51					
#2	186.32					

Method: 2010A Sample Name: K1004814-002 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:16 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0280	.0060	.0025	.04514	-.00008	.0054
#1	.0195	.0029	.0050	.04525	-.00011	.0053
#2	.0365	.0091	-.0001	.04503	-.00005	.0055
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	99.36	.0017	.0088	-.0008	.6365
#1	.0010	98.97	.0019	.0085	.0006	.6375
#2	.0008	99.75	.0014	.0091	-.0022	.6355
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	37.41	.83305	.0585	.0080	5.878
#1	-.0033	37.45	.83054	.0569	.0076	5.873
#2	.0023	37.38	.83557	.0601	.0084	5.883
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070	.0026	35.44	.0032	.0029	.0366
#1	.0049	.0016	35.63	.0058	.0039	.0359
#2	.0090	.0035	35.25	.0007	.0019	.0373
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2840	18.58	-.00020	.0019	.00898	.52425
#1	.2789	18.60	-.00007	.0047	.00903	.52591
#2	.2892	18.56	-.00033	-.0008	.00892	.52260
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.33					
#1	180.43					
#2	182.22					

Method: 2010A Sample Name: K1004814-004 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:19 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086	-.0022	.0099	.13035	-.00002	.0102
#1	.0093	-.0061	.0058	.13030	.00002	.0096
#2	.0078	.0018	.0140	.13041	-.00006	.0109
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	91.18	.0031	.0010	.0044	.0114
#1	.0005	90.98	.0045	.0013	.0055	.0114
#2	.0008	91.38	.0017	.0007	.0033	.0115
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0069	47.25	-.00022	.0014	-.0001	7.259
#1	-.0113	47.20	-.00026	.0012	.0006	7.234
#2	-.0026	47.30	-.00019	.0016	-.0009	7.284
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0022	60.60	-.0005	.0053	.0253
#1	-.0090	.0013	60.23	.0059	.0035	.0250
#2	.0104	.0032	60.98	-.0068	.0071	.0256
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3744	15.96	-.00094	-.0161	.01821	.58092
#1	.3705	15.91	-.00196	-.0057	.01815	.58035
#2	.3784	16.00	.00009	-.0265	.01827	.58149
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.86					
#1	181.86					
#2	181.86					

Method: 2010A Sample Name: K1004814-005 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:22 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126	-.0009	.0001	.09913	.00000	.0018
#1	.0339	.0000	.0045	.09878	-.00013	.0015
#2	-.0088	-.0017	-.0043	.09947	.00012	.0021
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	43.44	.0001	.0005	.0119	1.172
#1	.0000	43.21	.0005	-.0004	.0119	1.172
#2	.0004	43.67	-.0004	.0013	.0120	1.171
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0035	16.71	.01028	.0010	-.0011	5.361
#1	-.0035	16.73	.01035	.0013	-.0010	5.355
#2	-.0036	16.68	.01021	.0007	-.0012	5.366
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153	.0005	22.65	-.0015	.0046	.1077
#1	.0132	.0003	22.71	.0013	.0054	.1074
#2	.0173	.0006	22.59	-.0044	.0038	.1081
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2615	31.61	.00083	-.0125	.00591	.20012
#1	.2637	31.58	.00281	-.0041	.00613	.20049
#2	.2593	31.63	-.00115	-.0209	.00569	.19975
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.07					
#1	183.70					
#2	184.45					

Method: 2010A Sample Name: K1004814-006 Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:25 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0095	.0000	-.0072	.10048	.00002
#1	-.0130	-.0035	-.0056	.10033	.00003
#2	-.0059	.0036	-.0087	.10063	.00001
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0003	44.10	.0017	.0005
#1	.0019	.0003	43.90	.0031	.0004
#2	.0020	.0004	44.31	.0004	.0005
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0113	1.186	-.0012	16.91	.01025
#1	.0122	1.186	-.0040	16.89	.01015
#2	.0104	1.187	.0016	16.93	.01035
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0029	-.0021	5.364	.0111	-.0003
#1	.0025	-.0027	5.344	.0159	.0000
#2	.0033	-.0015	5.384	.0063	-.0006
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	22.59	-.0037	.0064	.1095	.2546
#1	22.66	-.0053	.0048	.1087	.2674
#2	22.51	-.0021	.0080	.1104	.2419
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	31.90	.00081	-.0115	.00551	.20216
#1	31.82	.00026	-.0116	.00526	.20256
#2	31.98	.00137	-.0114	.00575	.20175
Int. Std.	Sc3572				
Units	Cts/S				
Avg	184.41				
#1	183.97				
#2	184.84				

Method:	2010A	Sample Name:	RB	Operator:	JC
Comment:		(202239)	(052610A)		
Run Time:	05/26/10	11:28	Type: Unk	Mode: CONC	Corr.Fact: 1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0050	-.0066	.0072	-.00024	-.00002
#1	.0163	-.0044	.0041	-.00036	.00002
#2	-.0263	-.0087	.0104	-.00011	-.00006
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0000	.0048	.0006	.0007
#1	.0007	-.0001	.0033	-.0004	.0002
#2	.0010	.0002	.0063	.0016	.0011
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0001	.0005	.00018	-.00005
#1	-.0001	.0004	-.0019	.00018	-.00005
#2	.0012	-.0007	.0028	.00018	-.00004
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.0004	-.0025	.0000	.0038
#1	-.0020	-.0006	-.0154	-.0062	.0035
#2	.0007	-.0003	.0104	.0062	.0041
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0137	.0005	.0010	-.0013	.0094
#1	.0137	.0014	.0019	-.0013	.0081
#2	.0136	-.0005	.0001	-.0014	.0106
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0062	-.00108	.0065	-.00029	-.00004
#1	.0084	-.00178	.0130	-.00047	.00000
#2	.0040	-.00039	.0000	-.00011	-.00007
Int. Std.	Sc3572				
Units	Cts/S				
Avg	185.41				
#1	185.12				
#2	185.69				

Method: 2010A Sample Name: K1004744-MB Operator: JC
 Comment: (202239) (052610A)
 Run Time: 05/26/10 11:31 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.0035	.0016	-.00025	-.00001
#1	-.0050	-.0001	-.0016	.00001	-.00002
#2	.0036	-.0070	.0047	-.00051	.00000
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0000	.0015	.0008	.0007
#1	.0014	.0002	.0084	.0019	.0018
#2	.0003	-.0002	-.0053	-.0002	-.0005
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0023	-.0011	-.0014	-.00005	-.00011
#1	.0028	-.0007	-.0039	-.00006	-.00006
#2	.0018	-.0015	.0012	-.00003	-.00016
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0026	.0004	.0059	.0200	.0006
#1	-.0034	.0003	.0046	.0214	.0035
#2	-.0018	.0004	.0072	.0186	-.0022
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0002	-.0004	-.0001	.1725
#1	.0046	.0005	-.0011	.0001	.1623
#2	-.0035	-.0008	.0002	-.0004	.1827
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0074	-.00166	-.0049	-.00024	-.00002
#1	.0085	-.00267	-.0060	-.00007	-.00003
#2	.0063	-.00065	-.0038	-.00040	-.00002
Int. Std.	Sc3572				
Units	Cts/S				
Avg	183.99				
#1	183.17				
#2	184.80				

Method: 2010A Sample Name: LCSW Operator: JC
 Comment: K1004744 (202239) (052610A)
 Run Time: 05/26/10 11:34 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.000	2.818	2.573	5.1759	.12598	1.033
#1	5.008	2.787	2.569	5.0807	.12603	1.030
#2	4.991	2.850	2.576	5.2711	.12593	1.035
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.270	12.45	.5205	1.269	.6298	2.531
#1	1.270	12.33	.5205	1.269	.6325	2.534
#2	1.270	12.58	.5206	1.269	.6271	2.529
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.553	12.57	1.2793	1.015	1.263	12.60
#1	2.548	12.56	1.2834	1.012	1.261	12.66
#2	2.557	12.58	1.2752	1.018	1.264	12.53
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.523	.6152	12.76	.0027	1.264	1.267
#1	2.510	.6130	12.84	.0009	1.265	1.267
#2	2.536	.6174	12.67	.0045	1.262	1.268
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1611	.0179	-.00010	2.521	.00014	.00718
#1	.1462	.0174	.00050	2.537	.00017	.00717
#2	.1760	.0184	-.00070	2.505	.00012	.00718
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.37					
#1	182.98					
#2	183.75					

Method: 2010A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/26/10 11:37 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.007	.0138	.0142	2.4995	.05018	-.0175
Stddev	.061	.0037	.0115	.0092	.00002	.0002
%RSD	1.222	26.99	81.41	.36604	.03327	.9480
#1	5.050	.0165	.0060	2.5060	.05019	-.0176
#2	4.964	.0112	.0223	2.4930	.05016	-.0174
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	.0017	25.38	.0018	-.0006	.0001	25.36
Stddev	.0001	.00	.0000	.0011	.0010	.08
%RSD	7.097	.0136	2.475	184.3	702.0	.3322
#1	.0016	25.38	.0017	-.0014	.0008	25.42
#2	.0018	25.37	.0018	.0002	-.0005	25.30
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	.0003	25.21	4.968	.0003	-.0031	9.959
Stddev	.0021	.15	.004	.0016	.0011	.029
%RSD	620.1	.5806	.0907	498.0	35.05	.2884
#1	-.0012	25.32	4.965	.0014	-.0039	9.980
#2	.0019	25.11	4.971	-.0008	-.0024	9.939
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	.0080	.0043	9.966	.0017	.0039	.0013
Stddev	.0020	.0007	.053	.0010	.0015	.0009
%RSD	24.39	15.67	.5312	60.35	39.14	64.12
#1	.0094	.0038	10.00	.0009	.0050	.0007
#2	.0066	.0047	9.929	.0024	.0029	.0019
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/26/10 11:37

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.03	2.514	-.00056	-.0280	.50009	.50826
Stddev	.00	.000	.00066	.0093	.00295	.00099
%RSD	.0326	.0153	117.04	33.44	.58890	.19447
#1	10.02	2.515	-.00103	-.0213	.50218	.50896
#2	10.03	2.514	-.00010	-.0346	.49801	.50756
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	183.37					
Stddev	.03					
%RSD	.01904					
#1	183.39					
#2	183.34					

Method: 2010A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/26/10 11:40 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4808	2.475	2.439	.46267	.53600	.5012
Stddev	.0069	.020	.007	.00332	.00137	.0013
%RSD	1.432	.8207	.2697	.71726	.25490	.2638
#1	.4759	2.489	2.434	.46502	.53696	.5021
#2	.4856	2.461	2.444	.46033	.53503	.5003
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	.4982	2.448	.5005	.4980	.4991	.5161
Stddev	.0042	.004	.0052	.0011	.0027	.0149
%RSD	.8455	.1441	1.037	.2226	.5343	2.891
#1	.5012	2.445	.5041	.4988	.5009	.5266
#2	.4953	2.450	.4968	.4972	.4972	.5055
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	2.473	1.9868	.97842	.9831	.4989	4.977
Stddev	.022	.0032	.00649	.0019	.0013	.019
%RSD	.9002	.16310	.66336	.1889	.2612	.3808
#1	2.488	1.9891	.98301	.9844	.4998	4.990
#2	2.457	1.9845	.97383	.9818	.4980	4.963
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	2.443	.4920	.4803	2.433	.4979	.4915
Stddev	.002	.0027	.0062	.006	.0058	.0037
%RSD	.0976	.5477	1.292	.2410	1.174	.7513
#1	2.441	.4939	.4847	2.437	.5021	.4941
#2	2.445	.4901	.4759	2.429	.4938	.4889
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: 05/26/10 11:40

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0026	.2628	.49454	4.946	.00025	.00173
Stddev	.0033	.0047	.00277	.008	.00027	.00000
%RSD	125.3	1.794	.56016	.1611	106.43	.21903

#1	-.0050	.2661	.49650	4.941	.00044	.00173
#2	-.0003	.2595	.49259	4.952	.00006	.00172

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	186.68
Stddev	1.04
%RSD	.55781

#1	185.95
#2	187.42

Method: 2010A Sample Name: CCB Operator:
 Comment:
 Run Time: 05/26/10 11:43 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156	.0048	.0088	.00017	.00016	.0003
Stddev	.0071	.0067	.0013	.00024	.00004	.0000
%RSD	45.37	140.5	15.17	142.79	22.678	11.40

#1	.0206	.0000	.0098	.00034	.00018	.0003
#2	.0106	.0096	.0079	.00000	.00013	.0004

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	.0002	.0064	.0016	.0006	.0020	.0039
Stddev	.0001	.0043	.0000	.0007	.0012	.0002
%RSD	57.36	67.59	2.959	123.3	57.57	6.055

#1	.0001	.0094	.0016	.0010	.0012	.0041
#2	.0002	.0033	.0015	.0001	.0028	.0037

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	.0099	.00364	.00116	.0006	-.0005	.0082
Stddev	.0024	.00025	.00002	.0025	.0003	.0007
%RSD	24.78	6.7815	1.6882	451.2	69.13	8.861

#1	.0116	.00347	.00118	.0024	-.0007	.0077
#2	.0081	.00382	.00115	-.0012	-.0002	.0087

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	.0035	.0005	.0023	.0056	.0022	.0003
Stddev	.0098	.0025	.0031	.0043	.0009	.0004
%RSD	282.3	521.9	137.0	76.26	39.14	135.1

#1	.0104	-.0013	.0001	.0086	.0029	.0000
#2	-.0034	.0022	.0045	.0026	.0016	.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: CCB Run Time: 05/26/10 11:43

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0175	.0012	-.00015	.0045	-.00005	.00009
Stddev	.0034	.0003	.00037	.0040	.00028	.00002
%RSD	19.53	22.59	241.93	88.43	600.07	23.245
#1	.0200	.0014	.00011	.0073	.00015	.00010
#2	.0151	.0010	-.00042	.0017	-.00025	.00007
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	184.23					
Stddev	.19					
%RSD	.10191					
#1	184.36					
#2	184.09					

Service Request # K1004814
 Calibration 052110CMS03
 QC in calibration 052110CMS03
 QC Service Request # K1004814
 STARLIMS run # 201869

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. Cd Correction Applied	<u> </u>	<u> X </u>	<u> </u>
15. ICSA and ICSAB in control	<u> </u>	<u> </u>	<u> X </u>
16. Serial dilution run	<u> </u>	<u> </u>	<u> X </u>
17. Post spike in control	<u> </u>	<u> </u>	<u> X </u>

Comments:

Primary Review by JOB Date 5/21/10
 Secondary Review by Date 5/24/10

R:\icp\misc\data review forms\icpms review form

Sample List

No	Label	Type	Weight	Rack	Row	Col	Height
1	Cal. Blk	Blank	1.000	0	1	1	150
2	Cal. Stn	Fully Quant Standard	1.000	0	1	2	150
3	ICV1	Unknown	1.000	0	1	3	150
4	CCV1	Unknown	1.000	0	1	2	150
5	ICB1	Unknown	1.000	0	1	1	150
6	CCB1	Unknown	1.000	0	1	1	150
7	CCB1	Unknown	1.000	0	1	1	150
8	CRA	Unknown	1.000	0	1	4	150
9	CRA Soil	Unknown	1.000	0	1	5	150
10	K1004294-MB 1/5	Unknown	1.000	1	1	1	150
11	LCS 1/5	Unknown	1.000	1	1	2	150
12	K1004294-001 1/5	Unknown	1.000	1	1	3	150
13	K1004294-001 1/5D	Unknown	1.000	1	1	4	150
14	K1004294-001 1/5S	Unknown	1.000	1	1	5	150
15	CCV2	Unknown	1.000	0	1	2	150
16	CCB2	Unknown	1.000	0	1	1	150
17	K1008414-MB	Unknown	1.000	1	1	6	150
18	LCSW	Unknown	1.000	1	1	7	150
19	K1008414-001	Unknown	1.000	1	1	8	150
20	K1008414-002	Unknown	1.000	1	1	9	150
21	K1008414-003	Unknown	1.000	1	1	10	150
22	K1008414-003D	Unknown	1.000	1	1	11	150
23	K1008414-003S	Unknown	1.000	1	1	12	150
24	K1008414-004	Unknown	1.000	1	2	1	150
25	K1008414-005	Unknown	1.000	1	2	2	150
26	K1008414-006	Unknown	1.000	1	2	3	150
27	50ppb Mo Std	Unknown	1.000	0	1	6	150
28	CCV3	Unknown	1.000	0	1	2	150
29	CCB3	Unknown	1.000	0	1	1	150

Dilution Corrected Concentrations

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	51V ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb
1	13:41:59	99.8%	-0.0013	0.0615	0.0186	-0.1137	0.0000	-0.0051	0.2393
2	13:42:50	100.1%	0.0002	-0.0301	-0.0050	-0.0030	0.0000	0.0015	-0.5188
3	13:43:40	100.1%	0.0011	-0.0313	-0.0136	0.1167	-0.0000	0.0036	0.2795
x		100.0%	0.0000	0.0000	0.0000	-0.0000	-0.0000	0.0000	0.0000
σ		0.2%	0.0012	0.0532	0.0167	0.1153	0.0000	0.0046	0.4498
%RSD		0.2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Run	Time	62Ni ppb	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb
1	13:41:59	-0.0528	0.0215	0.0155	-0.0103	0.0371	0.0064	99.7%	-0.0621
2	13:42:50	-0.0006	0.0053	0.0095	0.0119	-0.0726	0.0215	99.9%	0.0016
3	13:43:40	0.0534	-0.0268	-0.0249	-0.0016	0.0355	-0.0279	100.3%	0.0605
x		0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000	100.0%	-0.0000
σ		0.0531	0.0246	0.0218	0.0112	0.0629	0.0253	0.3%	0.0614
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3	0.0000
Run	Time	77Se ppb	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	103Rh ppb	107Ag ppb
1	13:41:59	0.2023	0.1100	-0.0485	-0.0137	-0.0211	-0.0208	99.5%	-0.0017
2	13:42:50	-0.1596	-0.1453	-0.1364	0.0101	0.0093	0.0104	100.2%	0.0006
3	13:43:40	-0.0426	0.0353	0.1850	0.0036	0.0118	0.0104	100.3%	0.0011
x		-0.0000	-0.0000	0.0000	0.0000	0.0000	-0.0000	100.0%	-0.0000
σ		0.1847	0.1313	0.1661	0.0123	0.0183	0.0180	0.4%	0.0015
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4	0.0000
Run	Time	109Ag ppb	111Cd ppb	112Cd ppb	114Cd ppb	115In ppb	121Sb ppb	123Sb ppb	175Lu ppb
1	13:41:59	-0.0005	0.0000	-0.0012	-0.0012	98.3%	-0.0016	-0.0024	98.8%
2	13:42:50	0.0000	-0.0018	0.0025	0.0025	99.7%	0.0000	0.0030	100.2%
3	13:43:40	0.0005	0.0018	-0.0013	-0.0013	102.0%	0.0016	-0.0006	100.9%
x		-0.0000	0.0000	-0.0000	0.0000	100.0%	0.0000	0.0000	100.0%
σ		0.0005	0.0018	0.0022	0.0021	1.9%	0.0016	0.0028	1.1%
%RSD		0.0000	0.0000	0.0000	0.0000	1.9	0.0000	0.0000	1.1
Run	Time	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb			
1	13:41:59	0.0018	-0.0007	0.0012	0.0006	0.0002			
2	13:42:50	0.0003	-0.0006	-0.0008	-0.0007	0.0002			
3	13:43:40	-0.0021	0.0014	-0.0005	0.0001	-0.0004			
x		0.0000	0.0000	0.0000	-0.0000	0.0000			
σ		0.0020	0.0012	0.0011	0.0007	0.0003			
%RSD		0.0000	0.0000	0.0000	0.0000	0.0000			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:46:03	100.0%	25.3614	25.1710	25.1809	25.2468	24.9775	25.0092	24.0498
2	13:46:53	98.9%	24.9442	24.8350	25.1493	24.8598	25.2012	24.9966	26.0409
3	13:47:43	98.8%	24.6943	24.9940	24.6697	24.8934	24.8213	24.9942	24.9093
x		99.3%	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	25.0000
σ		0.7%	0.3370	0.1681	0.2864	0.2144	0.1910	0.0081	0.9987
%RSD		0.7	1.3481	0.6724	1.1458	0.8576	0.7639	0.0322	3.9947
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:46:03	25.3001	25.2972	25.5878	25.2657	25.5882	25.0828	99.9%	25.0502
2	13:46:53	24.6171	24.6634	24.4369	24.6811	25.0537	24.4858	101.3%	24.9785
3	13:47:43	25.0828	25.0394	24.9753	25.0532	24.3581	25.4314	100.0%	24.9713
x		25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	100.4%	25.0000
σ		0.3489	0.3187	0.5758	0.2959	0.6168	0.4782	0.8%	0.0437
%RSD		1.3957	1.2749	2.3034	1.1837	2.4671	1.9128	0.8	0.1746
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:46:03	24.7673	25.6647	23.7386	24.8530	24.5798	25.0831	99.5%	25.0442
2	13:46:53	24.9166	24.7422	25.3207	25.3926	25.3616	24.9882	100.2%	24.9950
3	13:47:43	25.3161	24.5931	25.9407	24.7544	25.0586	24.9287	101.5%	24.9608
x		25.0000	25.0000	25.0000	25.0000	25.0000	25.0000	100.4%	25.0000
σ		0.2837	0.5804	1.1355	0.3435	0.3942	0.0779	1.0%	0.0420
%RSD		1.1350	2.3217	4.5421	1.3741	1.5766	0.3115	1.0	0.1678
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:46:03	25.0024	25.3752	24.8912	24.9677	97.8%	24.9220	24.8422	97.0%
2	13:46:53	25.2929	24.5748	25.0614	24.9658	99.8%	25.0439	24.9586	100.1%
3	13:47:43	24.7047	25.0500	25.0474	25.0665	100.6%	25.0341	25.1992	101.9%
x		25.0000	25.0000	25.0000	25.0000	99.4%	25.0000	25.0000	99.7%
σ		0.2941	0.4026	0.0945	0.0576	1.5%	0.0677	0.1820	2.5%
%RSD		1.1764	1.6102	0.3779	0.2305	1.5	0.2709	0.7281	2.5
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	13:46:03	24.8410	25.0090	25.2096	24.9735	25.0948			
2	13:46:53	25.0323	24.9943	24.9696	25.1731	25.0182			
3	13:47:43	25.1267	24.9967	24.8208	24.8534	24.8871			
x		25.0000	25.0000	25.0000	25.0000	25.0000			
σ		0.1455	0.0079	0.1962	0.1615	0.1050			
%RSD		0.5822	0.0315	0.7846	0.6458	0.4201			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:12	99.9%	2.5952	25.3047	10.0059	10.1917	24.6114	24.6819	24.2353
2	13:55:02	97.9%	2.4823	25.3303	9.9609	9.7754	25.2859	24.6453	26.4746
3	13:55:51	100.4%	2.4411	25.5371	10.0718	9.4969	24.8706	24.9792	26.1335
x		99.4%	2.5062	25.3907	10.0129	9.8213	24.9226	24.7688	25.6145
σ		1.3%	0.0798	0.1275	0.0557	0.3497	0.3402	0.1831	1.2065
%RSD		1.3	3.1827	0.5020	0.5567	3.5602	1.3652	0.7393	4.7103
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:12	24.8953	12.6828	12.3829	25.3017	28.2059	27.1923	98.3%	24.8202
2	13:55:02	25.8416	12.4039	12.6012	25.7666	27.0479	27.3362	98.8%	24.2836
3	13:55:51	24.5219	12.2188	12.4438	25.4987	27.1041	27.2822	99.6%	24.6501
x		25.0863	12.4352	12.4759	25.5224	27.4526	27.2702	98.9%	24.5846
σ		0.6803	0.2336	0.1127	0.2334	0.6529	0.0727	0.7%	0.2742
%RSD		2.7117	1.8783	0.9031	0.9143	2.3783	0.2667	0.7	1.1155
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:12	27.0191	24.6668	25.4554	24.4962	24.1253	24.1260	100.1%	12.4048
2	13:55:02	26.1316	24.8560	25.6887	24.6916	24.8244	24.4422	100.1%	12.8032
3	13:55:51	26.4826	26.3780	25.7402	24.9832	25.1982	25.4036	97.7%	13.0062
x		26.5445	25.3003	25.6281	24.7237	24.7160	24.6573	99.3%	12.7381
σ		0.4470	0.9381	0.1518	0.2451	0.5446	0.6654	1.4%	0.3060
%RSD		1.6838	3.7078	0.5921	0.9912	2.2036	2.6986	1.4	2.4020
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:54:12	12.5582	12.4762	12.5028	12.3623	97.0%	24.1016	23.7849	96.8%
2	13:55:02	12.8584	12.4442	12.6420	12.3733	98.5%	24.0248	24.3219	99.4%
3	13:55:51	12.8857	12.6646	12.6602	12.4127	99.8%	24.2222	24.1847	100.0%
x		12.7674	12.5283	12.6017	12.3828	98.4%	24.1162	24.0971	98.8%
σ		0.1817	0.1191	0.0861	0.0265	1.4%	0.0995	0.2790	1.7%
%RSD		1.4231	0.9508	0.6834	0.2140	1.4	0.4125	1.1579	1.7
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	13:54:12	25.4637	25.4488	22.9856	25.6592	24.5196			
2	13:55:02	25.5234	25.6506	23.4989	26.1072	24.9351			
3	13:55:51	25.8903	26.0141	23.6148	26.3208	25.0963			
x		25.6258	25.7045	23.3664	26.0291	24.8504			
σ		0.2310	0.2865	0.3349	0.3376	0.2975			
%RSD		0.9014	1.1145	1.4331	1.2971	1.1973			

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	51V ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb
1	14:02:41	98.1%	24.5414	24.3606	24.4719	24.5834	24.7609	24.9698	22.9168
2	14:03:31	97.4%	24.6318	24.9379	25.0330	24.4717	24.3938	24.3603	26.4104
3	14:04:20	96.8%	24.9297	25.6346	25.3044	24.8587	25.2835	24.5625	26.7386
x		97.4%	24.7010	24.9777	24.9365	24.6379	24.8127	24.6308	25.3553
σ		0.6%	0.2032	0.6379	0.4246	0.1991	0.4471	0.3105	2.1181
%RSD		0.7	0.8226	2.5540	1.7026	0.8083	1.8020	1.2605	8.3538
Run	Time	62Ni ppb	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb
1	14:02:41	25.0747	24.8112	24.6331	24.4881	24.1226	24.6420	97.1%	24.1949
2	14:03:31	25.3276	24.6999	24.6586	25.2003	25.2783	24.9792	97.4%	25.6822
3	14:04:20	24.5863	24.2360	24.7585	25.4988	25.6798	25.3154	96.1%	24.5590
x		24.9962	24.5823	24.6834	25.0624	25.0269	24.9789	96.9%	24.8120
σ		0.3768	0.3051	0.0663	0.5193	0.8085	0.3367	0.7%	0.7753
%RSD		1.5075	1.2411	0.2684	2.0719	3.2304	1.3479	0.7	3.1246
Run	Time	77Se ppb	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	103Rh ppb	107Ag ppb
1	14:02:41	26.2599	25.5964	25.1890	23.9841	24.1002	24.1422	97.9%	24.0771
2	14:03:31	24.1977	25.9092	25.4902	24.5304	24.8508	24.1681	98.7%	24.6674
3	14:04:20	25.9626	26.7904	24.3241	24.9221	25.1667	25.2239	97.6%	24.9272
x		25.4734	26.0987	25.0011	24.4789	24.7059	24.5114	98.1%	24.5572
σ		1.1147	0.6192	0.6053	0.4711	0.5479	0.6172	0.6%	0.4356
%RSD		4.3761	2.3724	2.4213	1.9246	2.2175	2.5179	0.6	1.7740
Run	Time	109Ag ppb	111Cd ppb	112Cd ppb	114Cd ppb	115In ppb	121Sb ppb	123Sb ppb	175Lu ppb
1	14:02:41	24.4461	24.5204	24.8106	24.2481	95.3%	24.3321	24.2857	95.8%
2	14:03:31	24.6801	24.7970	24.7339	24.5754	97.1%	24.6780	24.5848	99.4%
3	14:04:20	24.9408	25.3540	25.2780	24.4730	98.6%	24.7174	24.6850	99.7%
x		24.6890	24.8905	24.9408	24.4322	97.0%	24.5758	24.5185	98.3%
σ		0.2475	0.4246	0.2945	0.1674	1.7%	0.2120	0.2077	2.2%
%RSD		1.0024	1.7060	1.1809	0.6852	1.7	0.8626	0.8473	2.2
Run	Time	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb			
1	14:02:41	24.1024	24.0639	24.3309	24.2879	24.3691			
2	14:03:31	24.2842	24.6031	24.4038	24.5156	24.5197			
3	14:04:20	25.0545	24.9647	24.9495	24.7610	24.8793			
x		24.4803	24.5439	24.5614	24.5215	24.5894			
σ		0.5054	0.4533	0.3381	0.2366	0.2622			
%RSD		2.0647	1.8468	1.3765	0.9649	1.0661			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:08	98.1%	-0.0013	0.0079	0.0089	-0.2541	-0.0011	0.0202	0.6672
2	14:11:58	98.6%	0.0007	0.0771	-0.0097	-0.7157	0.0007	0.0086	0.0754
3	14:12:47	97.7%	0.0063	0.0220	0.0050	-0.4971	0.0053	0.0040	1.1506
x		98.1%	0.0019	0.0357	0.0014	-0.4890	0.0016	0.0109	0.6311
σ		0.5%	0.0039	0.0366	0.0098	0.2309	0.0033	0.0083	0.5385
%RSD		0.5	204.0067	102.5022	703.3275	47.2169	199.8944	76.0778	85.3400
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:08	0.1130	0.1222	0.0021	-0.0044	0.0190	0.0232	96.0%	0.0766
2	14:11:58	-0.0039	0.0687	0.0475	-0.0093	0.0592	-0.0158	96.8%	0.0557
3	14:12:47	0.1343	0.0456	0.0428	-0.0209	0.0298	-0.0004	97.3%	-0.1645
x		0.0811	0.0788	0.0308	-0.0116	0.0360	0.0023	96.7%	-0.0107
σ		0.0744	0.0393	0.0250	0.0085	0.0208	0.0197	0.7%	0.1336
%RSD		91.7148	49.8621	81.0920	73.2923	57.7585	841.9861	0.7	1244.7193
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:08	-0.3820	0.4379	0.0113	0.0169	0.0087	0.0060	97.6%	0.0018
2	14:11:58	-0.0558	0.0257	0.1619	0.0498	0.0588	0.0515	97.3%	0.0032
3	14:12:47	0.0619	-0.0250	-0.4693	0.0734	0.0551	0.0657	98.3%	0.0089
x		-0.1253	0.1462	-0.0987	0.0467	0.0409	0.0411	97.8%	0.0046
σ		0.2300	0.2539	0.3297	0.0284	0.0279	0.0312	0.5%	0.0037
%RSD		183.5572	173.6716	334.0745	60.8336	68.2820	75.9842	0.5	80.2843
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:08	0.0051	0.0039	-0.0030	-0.0003	94.5%	0.0036	0.0022	95.1%
2	14:11:58	0.0006	0.0038	0.0037	-0.0011	96.7%	0.0023	0.0055	97.4%
3	14:12:47	0.0127	0.0019	0.0035	0.0047	99.2%	0.0077	0.0024	99.4%
x		0.0061	0.0032	0.0014	0.0011	96.8%	0.0045	0.0033	97.3%
σ		0.0061	0.0011	0.0039	0.0032	2.4%	0.0028	0.0019	2.1%
%RSD		99.9666	36.0394	274.8724	287.5791	2.5	61.2983	55.5368	2.2
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	14:11:08	0.0074	0.0040	0.0024	0.0008	0.0023			
2	14:11:58	0.0097	0.0092	0.0068	0.0015	0.0033			
3	14:12:47	0.0173	0.0140	0.0066	0.0047	0.0076			
x		0.0115	0.0091	0.0053	0.0024	0.0044			
σ		0.0052	0.0050	0.0025	0.0021	0.0028			
%RSD		44.9678	55.4404	47.0628	88.0748	63.4012			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:15:10	100.0%	0.0022	-0.0519	-0.0029	-0.3475	-0.0012	0.0175	0.3366
2	14:16:01	98.5%	0.0022	-0.0793	-0.0274	-0.5260	-0.0026	0.0174	0.2569
3	14:16:52	98.0%	0.0028	0.0043	-0.0250	-0.6468	0.0017	0.0178	0.6649
x		98.8%	0.0024	-0.0423	-0.0185	-0.5068	-0.0007	0.0175	0.4195
σ		1.1%	0.0003	0.0426	0.0135	0.1505	0.0022	0.0002	0.2162
%RSD		1.1	14.1947	100.7672	73.1395	29.7058	307.7989	1.1829	51.5542
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:15:10	0.0844	0.0740	0.0073	-0.0096	-0.0410	-0.0259	97.6%	0.1703
2	14:16:01	-0.0485	0.0319	-0.0183	0.0016	0.1110	0.0144	98.1%	0.0989
3	14:16:52	-0.0233	0.0495	-0.0046	-0.0069	0.0458	0.0003	96.6%	0.2306
x		0.0042	0.0518	-0.0052	-0.0050	0.0386	-0.0037	97.4%	0.1666
σ		0.0706	0.0212	0.0128	0.0058	0.0762	0.0204	0.8%	0.0659
%RSD		1685.9226	40.9099	246.3989	117.0828	197.3770	546.1858	0.8	39.5792
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:15:10	-0.2248	0.0501	0.4007	-0.0130	-0.0257	0.0057	97.9%	-0.0007
2	14:16:01	-0.3885	-0.2687	-0.0498	0.0141	0.0308	0.0424	95.8%	0.0033
3	14:16:52	-0.1791	0.0380	0.6443	0.0131	0.0109	0.0287	98.3%	0.0007
x		-0.2642	-0.0602	0.3318	0.0047	0.0053	0.0256	97.3%	0.0011
σ		0.1101	0.1807	0.3521	0.0154	0.0286	0.0185	1.4%	0.0020
%RSD		41.6783	300.0017	106.1451	324.3517	537.3831	72.3933	1.4	180.8656
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:15:10	0.0045	-0.0018	-0.0021	-0.0011	97.1%	0.0023	0.0033	96.8%
2	14:16:01	0.0021	0.0001	-0.0050	0.0012	96.5%	0.0052	0.0027	97.5%
3	14:16:52	0.0039	0.0074	-0.0022	-0.0019	99.1%	0.0011	0.0031	99.2%
x		0.0035	0.0019	-0.0031	-0.0006	97.6%	0.0029	0.0030	97.9%
σ		0.0013	0.0048	0.0017	0.0016	1.4%	0.0021	0.0003	1.2%
%RSD		35.7169	257.4976	53.5282	252.4766	1.4	71.9325	11.0028	1.3
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	14:15:10	0.0032	-0.0006	0.0007	0.0024	0.0012			
2	14:16:01	0.0049	0.0035	0.0010	-0.0002	0.0014			
3	14:16:52	0.0056	0.0045	0.0015	-0.0002	0.0016			
x		0.0046	0.0025	0.0010	0.0007	0.0014			
σ		0.0012	0.0027	0.0004	0.0015	0.0002			
%RSD		26.5037	108.2389	41.0855	225.5290	12.4559			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:19:18	97.8%	0.0023	-0.0188	-0.0058	-0.5135	-0.0006	0.0065	2.3644
2	14:20:07	98.1%	0.0002	-0.0481	-0.0169	-0.5172	-0.0039	0.0087	0.6088
3	14:20:58	97.6%	0.0008	0.0373	-0.0140	-0.7938	-0.0008	0.0128	-0.5842
x		97.8%	0.0011	-0.0099	-0.0122	-0.6082	-0.0017	0.0093	0.7963
σ		0.2%	0.0011	0.0434	0.0057	0.1608	0.0018	0.0032	1.4832
%RSD		0.2	96.3795	439.8792	46.8466	26.4391	105.0647	34.4605	186.2541
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:19:18	0.0304	0.0908	0.0121	-0.0137	0.1613	-0.0118	95.9%	0.0249
2	14:20:07	0.0901	0.0586	0.0012	0.0230	-0.0248	-0.0156	96.6%	0.1301
3	14:20:58	-0.0152	-0.0188	-0.0305	-0.0099	0.0538	-0.0081	98.8%	0.0770
x		0.0351	0.0436	-0.0057	-0.0002	0.0634	-0.0118	97.1%	0.0773
σ		0.0528	0.0563	0.0221	0.0202	0.0934	0.0038	1.5%	0.0526
%RSD		150.4115	129.3435	385.4642	9759.3327	147.3398	31.8473	1.5	68.0387
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:19:18	-0.3801	-0.0444	-0.0498	-0.0089	-0.0062	-0.0076	95.7%	0.0014
2	14:20:07	-0.2601	0.0561	0.2837	0.0154	0.0354	0.0194	97.0%	0.0037
3	14:20:58	-0.3133	0.0881	0.1883	0.0123	0.0255	0.0001	99.3%	0.0045
x		-0.3178	0.0333	0.1407	0.0063	0.0182	0.0040	97.3%	0.0032
σ		0.0601	0.0691	0.1717	0.0132	0.0218	0.0139	1.8%	0.0016
%RSD		18.9125	207.7746	122.0411	210.5180	119.3224	350.2214	1.9	50.5009
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:19:18	0.0001	0.0001	-0.0031	0.0012	95.6%	0.0001	-0.0001	94.9%
2	14:20:07	0.0065	0.0075	-0.0031	-0.0004	97.0%	0.0023	0.0026	98.1%
3	14:20:58	0.0044	0.0110	-0.0031	0.0062	99.1%	0.0022	0.0017	99.1%
x		0.0037	0.0062	-0.0031	0.0023	97.2%	0.0016	0.0014	97.4%
σ		0.0033	0.0056	0.0000	0.0034	1.8%	0.0012	0.0014	2.2%
%RSD		88.8460	89.7368	1.1379	146.4974	1.8	78.6222	97.8551	2.3
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	14:19:18	-0.0014	0.0004	0.0034	0.0004	0.0004			
2	14:20:07	0.0040	0.0076	0.0035	-0.0010	0.0010			
3	14:20:58	0.0071	0.0023	0.0060	0.0069	0.0032			
x		0.0032	0.0034	0.0043	0.0021	0.0015			
σ		0.0043	0.0038	0.0015	0.0042	0.0015			
%RSD		133.9979	110.5657	33.7319	202.5128	98.2815			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:23:30	95.4%	0.0221	0.1480	0.1917	-0.3724	0.0185	0.2367	1.2407
2	14:24:20	96.7%	0.0223	0.1772	0.2027	-0.5109	0.0166	0.2073	0.2238
3	14:25:10	99.0%	0.0252	0.2156	0.1693	-0.6561	0.0141	0.2294	-0.5922
x		97.1%	0.0232	0.1803	0.1879	-0.5131	0.0164	0.2245	0.2907
σ		1.8%	0.0017	0.0339	0.0171	0.1419	0.0022	0.0153	0.9183
%RSD		1.9	7.4307	18.8095	9.0731	27.6537	13.4871	6.8058	315.8435
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:23:30	0.2385	0.1341	0.0735	0.6301	0.6034	0.5488	95.9%	0.5739
2	14:24:20	0.2759	0.1318	0.0963	0.5559	0.7272	0.6276	97.7%	0.4953
3	14:25:10	0.1533	0.0939	0.0822	0.6378	0.5517	0.6796	98.6%	0.6974
x		0.2226	0.1199	0.0840	0.6079	0.6274	0.6187	97.4%	0.5889
σ		0.0628	0.0226	0.0115	0.0452	0.0902	0.0658	1.4%	0.1019
%RSD		28.2211	18.8207	13.6897	7.4392	14.3774	10.6430	1.5	17.3015
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:23:30	0.7017	1.1394	0.8672	0.0128	-0.0062	0.0099	95.8%	0.0217
2	14:24:20	1.2442	1.4143	1.2710	0.0331	0.0611	0.0321	97.4%	0.0202
3	14:25:10	0.6235	1.2068	1.2073	0.0417	0.0644	0.0499	96.6%	0.0174
x		0.8565	1.2535	1.1152	0.0292	0.0398	0.0306	96.6%	0.0198
σ		0.3380	0.1433	0.2171	0.0148	0.0399	0.0200	0.8%	0.0022
%RSD		39.4690	11.4286	19.4681	50.6931	100.2441	65.3880	0.9	11.0380
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:23:30	0.0182	0.0191	0.0138	0.0205	95.1%	0.0492	0.0500	94.1%
2	14:24:20	0.0237	0.0056	0.0143	0.0139	97.6%	0.0490	0.0449	97.5%
3	14:25:10	0.0208	0.0224	0.0162	0.0236	97.8%	0.0432	0.0572	99.9%
x		0.0209	0.0157	0.0148	0.0193	96.8%	0.0471	0.0507	97.2%
σ		0.0027	0.0089	0.0013	0.0050	1.5%	0.0034	0.0062	2.9%
%RSD		13.0895	56.5335	8.8092	25.7058	1.5	7.2233	12.2437	3.0
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	14:23:30	0.0245	0.0165	0.0220	0.0224	0.0206			
2	14:24:20	0.0186	0.0250	0.0168	0.0291	0.0214			
3	14:25:10	0.0232	0.0218	0.0230	0.0183	0.0206			
x		0.0221	0.0211	0.0206	0.0233	0.0209			
σ		0.0031	0.0043	0.0033	0.0054	0.0005			
%RSD		13.9725	20.5408	15.9706	23.3155	2.3100			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:12	96.9%	0.0346	0.3654	0.3901	-0.3799	0.0356	0.3849	2.0134
2	14:32:02	99.0%	0.0397	0.3252	0.3911	-0.3229	0.0267	0.4313	2.9067
3	14:32:52	100.6%	0.0366	0.4236	0.3711	-0.6424	0.0346	0.3899	2.0186
x		98.8%	0.0369	0.3714	0.3841	-0.4484	0.0323	0.4020	2.3129
σ		1.9%	0.0026	0.0495	0.0112	0.1704	0.0049	0.0255	0.5142
%RSD		1.9	7.0190	13.3234	2.9280	38.0092	15.0598	6.3432	22.2338
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:12	0.3788	0.2308	0.1951	1.0555	1.2463	1.0425	94.6%	1.3639
2	14:32:02	0.4213	0.2416	0.1629	1.1255	0.8012	0.9560	97.2%	1.2042
3	14:32:52	0.3223	0.1349	0.1988	0.9329	1.0430	0.9917	99.1%	1.1573
x		0.3741	0.2024	0.1856	1.0380	1.0302	0.9967	96.9%	1.2418
σ		0.0497	0.0587	0.0197	0.0975	0.2228	0.0435	2.2%	0.1083
%RSD		13.2751	29.0129	10.6355	9.3939	21.6277	4.3616	2.3	8.7229
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:12	0.9690	2.0074	2.4751	0.0430	0.0579	0.0498	96.1%	0.0405
2	14:32:02	1.7016	2.0507	2.7144	0.0916	0.0762	0.0799	98.2%	0.0472
3	14:32:52	1.4152	1.9818	2.0784	0.0687	0.0822	0.0872	99.3%	0.0504
x		1.3619	2.0133	2.4226	0.0677	0.0721	0.0723	97.9%	0.0460
σ		0.3692	0.0348	0.3212	0.0243	0.0127	0.0198	1.6%	0.0050
%RSD		27.1089	1.7287	13.2585	35.8922	17.5660	27.3922	1.7	10.9343
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:31:12	0.0476	0.0593	0.0526	0.0323	94.4%	0.1002	0.0869	93.4%
2	14:32:02	0.0375	0.0392	0.0521	0.0412	96.9%	0.0963	0.0864	97.1%
3	14:32:52	0.0433	0.0422	0.0417	0.0346	98.5%	0.0892	0.0926	98.8%
x		0.0428	0.0469	0.0488	0.0360	96.6%	0.0952	0.0886	96.4%
σ		0.0050	0.0108	0.0061	0.0046	2.0%	0.0056	0.0034	2.7%
%RSD		11.7674	23.0819	12.5697	12.8704	2.1	5.8486	3.8686	2.8
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	14:31:12	0.0456	0.0418	0.0979	0.0916	0.0953			
2	14:32:02	0.0361	0.0376	0.1133	0.0999	0.1041			
3	14:32:52	0.0368	0.0381	0.1093	0.0965	0.1002			
x		0.0395	0.0392	0.1068	0.0960	0.0999			
σ		0.0053	0.0023	0.0080	0.0042	0.0044			
%RSD		13.3574	5.7786	7.4855	4.3464	4.4182			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:35:18	101.4%	-0.0013	-0.0731	0.1654	-0.3164	-0.0040	0.0305	1.7408
2	14:36:07	99.3%	-0.0018	0.0113	0.1635	-0.5586	-0.0030	0.0222	0.9627
3	14:36:57	100.0%	0.0002	-0.0383	0.1743	-0.3793	-0.0016	0.0199	1.4653
x		100.2%	-0.0010	-0.0334	0.1677	-0.4181	-0.0028	0.0242	1.3896
σ		1.1%	0.0010	0.0424	0.0058	0.1257	0.0012	0.0056	0.3945
%RSD		1.1	104.2246	127.0872	3.4426	30.0544	41.7786	23.0075	28.3892
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:35:18	-0.0455	0.1131	0.0377	1.2459	1.2946	1.1842	98.7%	0.1142
2	14:36:07	0.0223	0.0511	0.0200	1.3322	1.1408	1.2906	96.9%	-0.0407
3	14:36:57	0.0529	0.0427	-0.0013	1.3718	1.3244	1.3390	96.8%	0.1160
x		0.0099	0.0690	0.0188	1.3166	1.2533	1.2713	97.5%	0.0632
σ		0.0503	0.0384	0.0195	0.0644	0.0985	0.0792	1.1%	0.0900
%RSD		508.6992	55.7347	103.9190	4.8902	7.8616	6.2324	1.1	142.4430
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:35:18	-0.3947	0.3731	0.0396	-0.0235	-0.0341	-0.0249	100.5%	-0.0007
2	14:36:07	-0.0571	0.0352	-0.2306	-0.0277	-0.0046	-0.0113	97.7%	-0.0011
3	14:36:57	-0.5084	0.3206	0.1318	-0.0029	-0.0229	-0.0162	97.4%	-0.0006
x		-0.3201	0.2429	-0.0197	-0.0180	-0.0205	-0.0175	98.5%	-0.0008
σ		0.2348	0.1818	0.1883	0.0132	0.0149	0.0069	1.7%	0.0003
%RSD		73.3458	74.8373	955.2646	73.3868	72.6731	39.4729	1.7	32.4809
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:35:18	0.0015	-0.0018	-0.0031	0.0004	95.3%	0.0013	-0.0008	94.9%
2	14:36:07	0.0006	0.0001	-0.0011	-0.0011	95.9%	0.0007	-0.0016	94.7%
3	14:36:57	0.0011	-0.0018	-0.0021	-0.0019	95.1%	0.0013	-0.0008	96.5%
x		0.0011	-0.0012	-0.0021	-0.0008	95.4%	0.0011	-0.0010	95.4%
σ		0.0005	0.0011	0.0010	0.0012	0.4%	0.0003	0.0004	1.0%
%RSD		44.5431	92.1596	46.9503	139.1850	0.4	30.9403	41.5277	1.1
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	14:35:18	0.0050	0.0055	-0.0006	0.0004	0.0004			
2	14:36:07	0.0160	0.0145	0.0004	0.0004	-0.0001			
3	14:36:57	0.0087	0.0083	0.0023	0.0020	0.0014			
x		0.0099	0.0094	0.0007	0.0009	0.0006			
σ		0.0056	0.0046	0.0015	0.0009	0.0008			
%RSD		56.7647	48.8815	202.3013	98.7207	144.7930			

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	51V ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb
1	14:39:23	99.1%	18.3670	190.6213	74.6376	74.5069	189.7985	187.0067	188.1945
2	14:40:12	94.8%	19.1851	205.2132	80.3859	78.2911	199.4859	198.8364	198.5810
3	14:41:03	93.1%	18.6455	200.7592	78.9449	78.4495	197.0859	192.5671	186.1619
x		95.7%	18.7325	198.8646	77.9894	77.0825	195.4568	192.8034	190.9791
σ		3.1%	0.4159	7.4781	2.9909	2.2320	5.0450	5.9184	6.6614
%RSD		3.2	2.2205	3.7604	3.8350	2.8955	2.5811	3.0697	3.4880
Run	Time	62Ni ppb	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb
1	14:39:23	189.1398	94.5820	94.6357	174.3481	197.2294	191.1609	97.0%	352.3712
2	14:40:12	199.0767	99.6132	100.3027	187.7062	208.0487	204.7977	92.9%	377.6864
3	14:41:03	193.3658	97.5737	97.5524	184.5256	204.7196	201.3584	93.4%	368.9782
x		193.8608	97.2563	97.4969	182.1933	203.3326	199.1057	94.4%	366.3453
σ		4.9869	2.5306	2.8339	6.9778	5.5414	7.0920	2.2%	12.8613
%RSD		2.5724	2.6020	2.9066	3.8299	2.7253	3.5619	2.4	3.5107
Run	Time	77Se ppb	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	103Rh ppb	107Ag ppb
1	14:39:23	341.7686	340.0951	336.9131	370.5682	369.3356	368.5961	96.6%	18.7473
2	14:40:12	354.2597	362.0512	359.5063	400.2373	401.5571	398.1346	93.2%	19.8788
3	14:41:03	347.3852	350.2877	345.9660	394.7986	399.5224	395.6654	93.9%	19.7173
x		347.8045	350.8114	347.4618	388.5347	390.1384	387.4654	94.6%	19.4478
σ		6.2561	10.9874	11.3706	15.7953	18.0444	16.3878	1.8%	0.6120
%RSD		1.7987	3.1320	3.2725	4.0653	4.6251	4.2295	1.9	3.1470
Run	Time	109Ag ppb	111Cd ppb	112Cd ppb	114Cd ppb	115In ppb	121Sb ppb	123Sb ppb	175Lu ppb
1	14:39:23	18.7695	18.3777	18.1764	18.0302	96.3%	176.2003	175.6538	95.4%
2	14:40:12	19.8866	19.6758	19.6821	19.2934	93.3%	189.9461	191.1067	94.9%
3	14:41:03	19.5609	19.7716	19.4698	19.4861	92.6%	190.8966	191.3346	95.7%
x		19.4057	19.2750	19.1094	18.9366	94.1%	185.6810	186.0317	95.3%
σ		0.5745	0.7786	0.8150	0.7908	2.0%	8.2243	8.9883	0.4%
%RSD		2.9603	4.0394	4.2649	4.1763	2.1	4.4293	4.8316	0.4
Run	Time	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb			
1	14:39:23	388.7545	393.7345	168.4750	204.2133	189.2293			
2	14:40:12	417.3209	421.0086	179.3683	216.5321	201.8372			
3	14:41:03	419.4152	420.8050	178.2342	217.9521	202.4619			
x		408.4968	411.8493	175.3592	212.8992	197.8428			
σ		17.1295	15.6882	5.9888	7.5556	7.4661			
%RSD		4.1933	3.8092	3.4151	3.5489	3.7737			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:50	96.5%	0.0008	0.0305	0.3252	-0.0597	-0.0027	0.0686	2.4754
2	14:48:41	95.4%	0.0009	0.0613	0.3002	-0.0784	0.0150	0.1139	1.3007
3	14:49:31	95.6%	0.0019	0.0599	0.3270	-0.1609	0.0308	0.1067	0.2317
x		95.8%	0.0012	0.0506	0.3174	-0.0997	0.0144	0.0964	1.3359
σ		0.6%	0.0006	0.0174	0.0150	0.0538	0.0168	0.0244	1.1223
%RSD		0.6	50.3274	34.3726	4.7151	54.0054	116.7355	25.2952	84.0084
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:50	0.1740	0.5428	0.4035	0.8035	0.8671	0.7402	92.5%	0.1507
2	14:48:41	0.1800	0.4900	0.3765	0.8634	1.1794	0.7420	92.3%	0.1988
3	14:49:31	0.0348	0.4296	0.4553	0.7688	0.8687	0.8508	92.4%	0.2081
x		0.1296	0.4875	0.4118	0.8119	0.9718	0.7777	92.4%	0.1859
σ		0.0822	0.0567	0.0401	0.0478	0.1799	0.0633	0.1%	0.0308
%RSD		63.4158	11.6251	9.7266	5.8932	18.5080	8.1449	0.1	16.5838
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:50	-0.3241	0.4869	0.3871	0.4407	0.3471	0.3845	96.5%	-0.0001
2	14:48:41	-0.0639	0.2440	0.5155	0.6716	0.7058	0.6293	94.8%	0.0025
3	14:49:31	-0.3641	0.0324	0.2332	0.6085	0.6902	0.6404	93.8%	0.0020
x		-0.2507	0.2544	0.3786	0.5736	0.5810	0.5514	95.0%	0.0015
σ		0.1630	0.2275	0.1413	0.1193	0.2027	0.1447	1.3%	0.0014
%RSD		65.0286	89.3945	37.3315	20.7993	34.8923	26.2332	1.4	91.4536
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:50	0.0032	0.0001	0.0000	-0.0034	92.1%	0.0067	0.0062	92.2%
2	14:48:41	0.0048	0.0060	0.0000	0.0085	92.5%	0.0172	0.0209	94.3%
3	14:49:31	0.0063	0.0021	0.0010	0.0060	94.1%	0.0358	0.0285	95.3%
x		0.0048	0.0027	0.0003	0.0037	92.9%	0.0199	0.0185	93.9%
σ		0.0015	0.0030	0.0005	0.0063	1.1%	0.0147	0.0113	1.6%
%RSD		32.3663	109.4149	158.0665	168.9059	1.2	74.0457	61.2459	1.7
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	14:47:50	0.0560	0.0531	0.0167	0.0113	0.0130			
2	14:48:41	0.0845	0.0854	0.0249	0.0307	0.0287			
3	14:49:31	0.1054	0.0949	0.0415	0.0459	0.0447			
x		0.0820	0.0778	0.0277	0.0293	0.0288			
σ		0.0248	0.0219	0.0127	0.0173	0.0159			
%RSD		30.2309	28.1866	45.7069	59.1798	55.1454			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:56:21	97.2%	-0.0023	-0.0409	0.2020	-0.0354	0.0039	0.0914	1.1210
2	14:57:11	94.9%	-0.0001	0.0550	0.2137	-0.2901	-0.0014	0.0723	0.2893
3	14:58:02	96.0%	-0.0028	0.0178	0.2360	-0.2495	0.0014	0.0790	1.4947
x		96.0%	-0.0017	0.0107	0.2172	-0.1917	0.0013	0.0809	0.9683
σ		1.1%	0.0014	0.0484	0.0173	0.1368	0.0026	0.0097	0.6170
%RSD		1.2	80.7664	453.9688	7.9492	71.3929	200.6948	11.9831	63.7170
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:56:21	0.0560	0.2612	0.1253	1.2828	1.1505	1.2595	93.2%	0.1948
2	14:57:11	0.1377	0.1731	0.1035	1.2856	1.2998	1.2620	94.1%	0.2161
3	14:58:02	0.0432	0.1289	0.0987	1.2625	1.0928	1.3458	94.3%	0.1033
x		0.0790	0.1877	0.1092	1.2769	1.1810	1.2891	93.9%	0.1714
σ		0.0512	0.0673	0.0142	0.0126	0.1068	0.0491	0.6%	0.0599
%RSD		64.8665	35.8654	12.9855	0.9869	9.0433	3.8097	0.6	34.9659
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:56:21	-0.4960	0.3633	0.2937	0.0871	0.1062	0.0818	94.4%	-0.0015
2	14:57:11	-0.3290	0.4142	0.4480	0.1550	0.1769	0.1894	94.2%	-0.0005
3	14:58:02	-0.2038	-0.1474	0.0739	0.1896	0.2164	0.1903	94.7%	0.0020
x		-0.3429	0.2100	0.2719	0.1439	0.1665	0.1538	94.4%	-0.0000
σ		0.1466	0.3106	0.1880	0.0521	0.0558	0.0624	0.3%	0.0018
%RSD		42.7454	147.8760	69.1615	36.2188	33.5243	40.5615	0.3	11054.3670
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:56:21	-0.0003	0.0060	-0.0030	-0.0026	93.0%	0.0037	0.0009	92.3%
2	14:57:11	0.0012	0.0001	-0.0040	-0.0034	93.6%	0.0042	0.0030	95.5%
3	14:58:02	-0.0014	0.0020	-0.0020	0.0013	94.1%	0.0019	0.0015	96.2%
x		-0.0002	0.0027	-0.0030	-0.0016	93.5%	0.0033	0.0018	94.7%
σ		0.0013	0.0030	0.0010	0.0025	0.5%	0.0012	0.0011	2.1%
%RSD		710.6888	109.6193	33.0093	160.6068	0.6	37.2982	61.7049	2.2
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	14:56:21	0.0107	0.0105	0.0050	0.0041	0.0044			
2	14:57:11	0.0080	0.0182	-0.0003	0.0077	0.0045			
3	14:58:02	0.0157	0.0157	0.0053	0.0115	0.0073			
x		0.0114	0.0148	0.0033	0.0078	0.0054			
σ		0.0039	0.0040	0.0031	0.0037	0.0017			
%RSD		34.2622	26.7352	93.5557	47.3600	30.7184			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:37	94.9%	18.8050	196.1911	76.4045	75.9987	194.8227	190.3018	193.3718
2	15:02:26	90.9%	19.7498	204.8533	80.1494	79.9230	204.3973	201.1283	197.3917
3	15:03:17	89.3%	19.2623	202.9767	78.9781	80.3776	202.7637	197.5511	200.5268
x		91.7%	19.2724	201.3404	78.5107	78.7665	200.6612	196.3270	197.0967
σ		2.9%	0.4725	4.5571	1.9157	2.4077	5.1219	5.5160	3.5866
%RSD		3.1	2.4515	2.2634	2.4401	3.0567	2.5525	2.8096	1.8197
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:37	194.9984	98.0971	97.4103	186.4569	208.2445	202.4678	93.5%	373.6134
2	15:02:26	201.5259	98.8018	100.4573	193.8647	215.8546	211.9552	91.1%	386.4394
3	15:03:17	198.5693	96.5507	97.7881	196.3383	212.1605	209.2621	90.3%	381.6036
x		198.3645	97.8165	98.5519	192.2200	212.0865	207.8950	91.6%	380.5522
σ		3.2686	1.1515	1.6609	5.1419	3.8056	4.8892	1.7%	6.4773
%RSD		1.6478	1.1772	1.6853	2.6750	1.7944	2.3518	1.8	1.7021
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:37	350.4137	354.4300	356.2662	380.5101	375.8798	379.7396	94.8%	19.0943
2	15:02:26	357.1547	371.3944	369.5404	410.6067	408.9148	410.0069	90.4%	20.1821
3	15:03:17	360.3506	365.2183	362.4817	408.0045	408.1483	408.5437	91.1%	20.2320
x		355.9730	363.6809	362.7628	399.7071	397.6476	399.4301	92.1%	19.8361
σ		5.0727	8.5860	6.6416	16.6759	18.8554	17.0682	2.3%	0.6430
%RSD		1.4250	2.3609	1.8308	4.1720	4.7417	4.2731	2.5	3.2413
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:37	19.4117	18.6464	19.0578	18.6812	94.1%	181.9641	182.4114	94.7%
2	15:02:26	20.3106	20.6661	20.2340	19.8074	91.6%	194.1528	194.5400	95.5%
3	15:03:17	19.8472	20.5474	20.2981	19.9499	91.3%	197.0897	196.0141	95.6%
x		19.8565	19.9533	19.8633	19.4795	92.3%	191.0689	190.9885	95.3%
σ		0.4495	1.1334	0.6983	0.6950	1.5%	8.0205	7.4645	0.5%
%RSD		2.2638	5.6801	3.5156	3.5678	1.7	4.1977	3.9083	0.5
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	15:01:37	405.4347	408.8746	172.1263	210.1475	194.6376			
2	15:02:26	423.0031	424.1689	180.4970	219.9159	204.1825			
3	15:03:17	425.1605	425.2849	183.1722	221.6675	206.4396			
x		417.8661	419.4428	178.5985	217.2437	201.7533			
σ		10.8198	9.1693	5.7625	6.2075	6.2648			
%RSD		2.5893	2.1861	3.2265	2.8574	3.1052			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:10:06	91.7%	25.4863	24.7461	24.8232	24.0032	24.8166	24.9537	26.4817
2	15:10:55	92.3%	25.2121	25.4756	25.4252	23.6777	24.9919	24.6349	25.1813
3	15:11:45	93.0%	24.7164	24.7836	24.6801	24.0777	25.1375	24.6590	22.4743
x		92.3%	25.1383	25.0018	24.9762	23.9195	24.9820	24.7492	24.7124
σ		0.6%	0.3903	0.4108	0.3954	0.2127	0.1607	0.1775	2.0444
%RSD		0.7	1.5524	1.6430	1.5831	0.8892	0.6432	0.7172	8.2729
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:10:06	24.9450	24.8886	24.5145	24.6419	25.1471	24.9848	92.7%	26.1207
2	15:10:55	24.8559	24.3991	24.4306	24.8894	25.0947	25.2765	93.5%	23.9682
3	15:11:45	24.7904	25.1165	25.0500	25.5189	26.0075	25.1221	93.0%	24.2404
x		24.8638	24.8014	24.6650	25.0167	25.4164	25.1278	93.1%	24.7764
σ		0.0776	0.3666	0.3360	0.4521	0.5126	0.1459	0.4%	1.1721
%RSD		0.3122	1.4780	1.3623	1.8074	2.0166	0.5808	0.4	4.7307
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:10:06	23.2262	25.9426	25.9680	24.5351	24.8649	24.6922	93.3%	24.6820
2	15:10:55	27.3962	25.9121	25.4202	25.3492	25.3470	25.2668	93.6%	24.7281
3	15:11:45	24.7326	25.9226	25.3228	25.7878	25.9076	25.8731	94.1%	24.6929
x		25.1183	25.9257	25.5703	25.2240	25.3732	25.2774	93.6%	24.7010
σ		2.1116	0.0155	0.3478	0.6357	0.5218	0.5905	0.4%	0.0241
%RSD		8.4065	0.0597	1.3602	2.5202	2.0567	2.3362	0.4	0.0975
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:10:06	24.4045	24.2883	24.5801	24.3086	91.7%	24.2114	24.4535	92.6%
2	15:10:55	24.7281	24.7266	24.8170	24.2745	93.5%	24.7471	24.4866	94.4%
3	15:11:45	25.0303	25.0455	25.1468	24.7469	94.9%	24.7515	24.6473	96.4%
x		24.7210	24.6868	24.8480	24.4433	93.4%	24.5700	24.5292	94.5%
σ		0.3130	0.3802	0.2846	0.2634	1.6%	0.3106	0.1037	1.9%
%RSD		1.2660	1.5400	1.1455	1.0778	1.7	1.2640	0.4227	2.0
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	15:10:06	24.3286	24.3770	24.6729	24.1803	24.4531			
2	15:10:55	25.0500	25.1862	25.1621	25.1432	25.1321			
3	15:11:45	25.1686	25.2656	25.1545	24.7019	24.9546			
x		24.8491	24.9429	24.9965	24.6751	24.8466			
σ		0.4546	0.4917	0.2803	0.4820	0.3522			
%RSD		1.8296	1.9713	1.1214	1.9533	1.4175			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:26:59	92.8%	0.0026	0.0266	-0.0033	-1.2938	-0.0008	0.0143	1.0036
2	15:27:48	94.6%	0.0009	-0.0147	-0.0118	-1.2772	-0.0013	0.0187	0.6686
3	15:28:38	94.2%	0.0015	-0.1020	-0.0147	-1.1173	0.0010	0.0068	-0.5412
x		93.9%	0.0017	-0.0300	-0.0099	-1.2295	-0.0004	0.0133	0.3770
σ		1.0%	0.0009	0.0657	0.0059	0.0975	0.0012	0.0060	0.8126
%RSD		1.0	51.9379	218.7223	59.5009	7.9272	330.9309	45.1666	215.5584
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:26:59	0.0494	0.1985	0.0264	0.0163	-0.0154	-0.0019	92.6%	0.2056
2	15:27:48	0.0188	0.0664	-0.0258	0.0133	-0.0031	0.0300	93.5%	0.1047
3	15:28:38	0.0208	0.0597	0.0214	0.0106	-0.0336	0.0454	94.2%	0.1020
x		0.0297	0.1082	0.0074	0.0134	-0.0174	0.0245	93.4%	0.1374
σ		0.0171	0.0783	0.0288	0.0029	0.0154	0.0241	0.8%	0.0590
%RSD		57.5395	72.3454	391.7122	21.3865	88.5475	98.3359	0.9	42.9625
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:26:59	-0.2797	-0.1211	0.6409	0.0378	0.0545	0.0296	94.6%	-0.0005
2	15:27:48	-0.3682	0.2033	0.1689	0.1052	0.1074	0.0880	93.5%	0.0026
3	15:28:38	-0.2890	-0.1637	0.1971	0.0967	0.1410	0.1198	96.0%	0.0029
x		-0.3123	-0.0272	0.3357	0.0799	0.1010	0.0791	94.7%	0.0017
σ		0.0486	0.2007	0.2648	0.0367	0.0436	0.0458	1.3%	0.0019
%RSD		15.5656	738.1014	78.8815	45.9014	43.1943	57.8501	1.4	112.8460
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:26:59	-0.0003	0.0002	-0.0020	-0.0042	91.9%	0.0008	-0.0005	91.9%
2	15:27:48	0.0022	-0.0018	-0.0020	-0.0002	93.3%	0.0049	0.0008	94.3%
3	15:28:38	0.0016	0.0020	-0.0001	0.0028	94.5%	0.0065	0.0043	97.0%
x		0.0012	0.0001	-0.0013	-0.0005	93.2%	0.0041	0.0015	94.4%
σ		0.0013	0.0019	0.0011	0.0035	1.3%	0.0029	0.0025	2.5%
%RSD		114.2803	1599.1178	82.4332	664.6163	1.4	71.3107	163.2678	2.7
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	15:26:59	0.0048	0.0033	0.0037	0.0033	0.0029			
2	15:27:48	0.0121	0.0117	0.0068	0.0057	0.0053			
3	15:28:38	0.0122	0.0105	0.0085	0.0024	0.0060			
x		0.0097	0.0085	0.0063	0.0038	0.0047			
σ		0.0043	0.0046	0.0024	0.0017	0.0016			
%RSD		43.9240	53.8496	38.7133	44.6754	34.2737			

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 User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:31:09	95.4%	-0.0002	0.0146	0.0176	-1.2196	-0.0014	0.0207	-0.0362
2	15:32:00	95.2%	-0.0033	0.0030	0.0173	-1.3464	-0.0024	0.0136	0.4828
3	15:32:50	95.9%	0.0009	0.0234	0.0153	-1.4516	-0.0020	0.0042	1.0150
x		95.5%	-0.0009	0.0136	0.0168	-1.3392	-0.0019	0.0128	0.4872
σ		0.3%	0.0021	0.0102	0.0013	0.1162	0.0005	0.0083	0.5256
%RSD		0.4	249.7351	75.0805	7.4956	8.6732	25.1841	64.5836	107.8837
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:31:09	0.0726	0.0654	-0.0433	-0.0038	-0.0204	-0.0106	94.7%	0.1386
2	15:32:00	-0.0155	0.0460	-0.0438	-0.0181	0.0214	0.0147	95.2%	0.1947
3	15:32:50	-0.0022	0.0134	-0.0296	0.0070	-0.1233	-0.0313	96.5%	0.0055
x		0.0183	0.0416	-0.0389	-0.0050	-0.0408	-0.0091	95.5%	0.1129
σ		0.0475	0.0263	0.0081	0.0126	0.0744	0.0230	0.9%	0.0972
%RSD		259.6070	63.0932	20.8004	253.3737	182.6171	253.9892	1.0	86.0589
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:31:09	-0.4593	0.5645	0.2582	-0.0004	0.0126	0.0007	95.8%	-0.0026
2	15:32:00	-0.4618	-0.1428	0.4398	0.0656	0.0730	0.0685	96.8%	-0.0011
3	15:32:50	-0.4245	-0.2896	-0.2012	0.0834	0.0885	0.0785	96.8%	-0.0026
x		-0.4485	0.0440	0.1656	0.0495	0.0581	0.0492	96.5%	-0.0021
σ		0.0209	0.4566	0.3304	0.0441	0.0401	0.0423	0.6%	0.0008
%RSD		4.6525	1037.1873	199.4850	89.1242	69.0887	85.9459	0.6	40.5798
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:31:09	-0.0019	-0.0018	-0.0050	-0.0011	94.5%	-0.0004	-0.0007	95.3%
2	15:32:00	-0.0014	0.0001	-0.0001	-0.0026	95.4%	0.0007	0.0020	97.9%
3	15:32:50	0.0001	0.0019	-0.0031	-0.0026	96.8%	0.0035	-0.0009	99.3%
x		-0.0011	0.0001	-0.0027	-0.0021	95.6%	0.0013	0.0001	97.5%
σ		0.0010	0.0019	0.0025	0.0009	1.1%	0.0020	0.0017	2.0%
%RSD		96.1556	2486.5843	90.4262	43.1052	1.2	158.2436	1410.3419	2.1
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	15:31:09	-0.0039	-0.0041	-0.0006	-0.0009	-0.0012			
2	15:32:00	0.0016	0.0017	0.0003	0.0057	0.0022			
3	15:32:50	0.0044	0.0026	-0.0014	-0.0023	-0.0007			
x		0.0007	0.0001	-0.0006	0.0008	0.0001			
σ		0.0042	0.0036	0.0008	0.0043	0.0018			
%RSD		586.8773	6517.8952	149.3805	521.3776	1415.3786			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:35:14	95.7%	19.7535	19.5363	19.7993	18.3845	19.5177	19.9047	20.8062
2	15:36:04	94.8%	19.7167	20.0081	20.3617	18.7625	19.8658	20.1646	19.2725
3	15:36:55	95.1%	19.0538	19.7651	19.6736	17.9345	19.4194	18.7509	22.1740
x		95.2%	19.5080	19.7698	19.9449	18.3605	19.6009	19.6067	20.7509
σ		0.5%	0.3937	0.2360	0.3664	0.4145	0.2346	0.7525	1.4515
%RSD		0.5	2.0184	1.1936	1.8370	2.2578	1.1966	3.8380	6.9951
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:35:14	19.7035	19.8063	19.7357	19.7262	19.8031	19.5789	95.3%	19.6923
2	15:36:04	20.0771	19.4333	19.7774	20.4242	20.0933	19.9864	94.8%	19.2090
3	15:36:55	19.6446	18.9876	19.1815	19.4364	19.9122	19.5626	96.7%	19.1538
x		19.8084	19.4091	19.5649	19.8623	19.9362	19.7093	95.6%	19.3517
σ		0.2346	0.4099	0.3327	0.5078	0.1466	0.2401	1.0%	0.2963
%RSD		1.1842	2.1119	1.7003	2.5565	0.7351	1.2182	1.0	1.5310
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:35:14	18.6988	19.0789	19.6628	19.3235	18.6006	19.4381	96.5%	19.6946
2	15:36:04	20.7796	20.7327	19.1287	19.7236	19.7082	19.3473	96.7%	20.0680
3	15:36:55	19.5117	20.3544	21.1599	20.0128	19.6224	19.6641	95.0%	19.5441
x		19.6633	20.0553	19.9838	19.6866	19.3104	19.4832	96.1%	19.7689
σ		1.0486	0.8665	1.0530	0.3461	0.6162	0.1631	0.9%	0.2697
%RSD		5.3330	4.3207	5.2690	1.7583	3.1911	0.8374	1.0	1.3644
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:35:14	19.6720	19.3153	19.6589	19.2109	95.0%	19.2292	19.2857	96.2%
2	15:36:04	19.9775	19.7026	19.8857	19.2357	96.5%	19.4917	19.6751	97.9%
3	15:36:55	19.9572	19.9305	19.9806	19.7224	96.8%	19.6577	19.7032	99.1%
x		19.8689	19.6495	19.8417	19.3897	96.1%	19.4595	19.5547	97.7%
σ		0.1708	0.3110	0.1653	0.2884	1.0%	0.2161	0.2334	1.5%
%RSD		0.8598	1.5829	0.8330	1.4874	1.0	1.1104	1.1935	1.5
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	15:35:14	20.0673	20.0345	19.6261	19.4478	19.4812			
2	15:36:04	20.4095	20.4934	19.9236	19.8310	19.8778			
3	15:36:55	20.3753	20.2884	19.8361	19.7647	19.7758			
x		20.2840	20.2721	19.7953	19.6812	19.7116			
σ		0.1885	0.2299	0.1529	0.2048	0.2059			
%RSD		0.9292	1.1340	0.7725	1.0406	1.0447			

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Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:43:43	102.6%	0.0122	16.7758	0.2249	3.0898	1.2909	2.4375	78.4279
2	15:44:34	99.1%	0.0212	17.3090	0.2361	2.8897	1.2308	2.3678	67.8927
3	15:45:22	99.2%	0.0197	17.0393	0.2171	3.1518	1.1612	2.1027	65.3564
x		100.3%	0.0177	17.0414	0.2260	3.0438	1.2276	2.3027	70.5590
σ		2.0%	0.0048	0.2666	0.0095	0.1370	0.0649	0.1767	6.9316
%RSD		2.0	27.3776	1.5643	4.2146	4.4994	5.2846	7.6722	9.8239
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:43:43	1.2133	0.4599	0.6721	1.3510	5.2828	3.4703	97.3%	3.1485
2	15:44:34	1.0800	0.3420	0.5811	1.4329	5.7911	3.7107	97.4%	3.2657
3	15:45:22	0.9727	0.3350	0.5659	1.4267	5.2815	3.6956	96.2%	2.9540
x		1.0886	0.3790	0.6064	1.4035	5.4518	3.6255	97.0%	3.1227
σ		0.1205	0.0702	0.0575	0.0456	0.2938	0.1347	0.7%	0.1574
%RSD		11.0711	18.5155	9.4751	3.2489	5.3898	3.7144	0.7	5.0407
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:43:43	3.0432	2.5506	2.9447	70.2071	70.6815	70.8605	98.8%	0.0022
2	15:44:34	3.5869	2.7712	3.2347	72.8799	72.9793	72.9987	96.8%	0.0013
3	15:45:22	3.2004	8.6039	2.5601	74.7481	75.1182	73.9046	93.8%	0.0069
x		3.2769	4.6419	2.9132	72.6117	72.9263	72.5879	96.5%	0.0035
σ		0.2798	3.4330	0.3384	2.2823	2.2188	1.5631	2.5%	0.0030
%RSD		8.5383	73.9563	11.6172	3.1432	3.0425	2.1533	2.6	86.9332
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:43:43	0.0064	0.1763	0.1157	0.1189	97.1%	29.0738	29.2423	97.0%
2	15:44:34	0.0100	0.1478	0.1213	0.1359	96.9%	30.4147	30.1942	99.8%
3	15:45:22	0.0077	0.1926	0.1036	0.1315	97.1%	29.9970	29.7451	100.0%
x		0.0080	0.1722	0.1135	0.1288	97.0%	29.8285	29.7272	98.9%
σ		0.0018	0.0227	0.0091	0.0088	0.1%	0.6862	0.4762	1.7%
%RSD		22.5712	13.1631	8.0020	6.8603	0.1	2.3003	1.6018	1.7
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	15:43:43	0.0391	0.0250	0.0886	0.1026	0.0942			
2	15:44:34	0.0401	0.0314	0.0872	0.0971	0.0942			
3	15:45:22	0.0296	0.0291	0.0802	0.0957	0.0932			
x		0.0363	0.0285	0.0853	0.0984	0.0939			
σ		0.0058	0.0033	0.0045	0.0037	0.0006			
%RSD		16.0197	11.4970	5.3252	3.7361	0.6264			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:52:13	101.0%	-0.0023	0.1274	0.0359	1.8409	7.8458	10.8980	116.5740
2	15:53:02	98.9%	0.0012	0.1650	0.0605	1.9420	7.8540	11.1911	109.3255
3	15:53:51	97.8%	-0.0028	0.1222	0.0619	2.2197	7.7618	10.7214	93.4192
x		99.2%	-0.0013	0.1382	0.0528	2.0009	7.8205	10.9368	106.4396
σ		1.6%	0.0022	0.0234	0.0146	0.1961	0.0510	0.2372	11.8441
%RSD		1.6	169.5626	16.9123	27.7097	9.8010	0.6525	2.1690	11.1275
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:52:13	9.1057	0.5613	0.9557	36.3106	36.7016	36.5932	97.4%	0.0634
2	15:53:02	9.1315	0.4609	0.8881	37.1135	36.7718	38.7574	94.1%	0.2222
3	15:53:51	9.2730	0.3981	0.7430	37.1387	36.3499	37.6203	94.8%	0.2397
x		9.1701	0.4734	0.8622	36.8543	36.6078	37.6570	95.5%	0.1751
σ		0.0900	0.0824	0.1087	0.4710	0.2261	1.0826	1.8%	0.0971
%RSD		0.9819	17.3945	12.6066	1.2781	0.6175	2.8749	1.8	55.4711
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:52:13	1.7878	0.5598	0.0712	59.9780	59.9468	59.9856	96.1%	-0.0011
2	15:53:02	1.5796	0.6152	0.1676	61.3954	61.2000	61.4078	93.7%	-0.0010
3	15:53:51	1.3159	0.3947	0.3544	61.6955	62.3022	61.9854	92.7%	-0.0025
x		1.5611	0.5232	0.1977	61.0230	61.1497	61.1263	94.2%	-0.0015
σ		0.2365	0.1147	0.1440	0.9173	1.1785	1.0292	1.8%	0.0008
%RSD		15.1487	21.9187	72.8212	1.5032	1.9273	1.6837	1.9	53.8943
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	15:52:13	0.0026	0.1431	0.0849	0.0826	96.4%	0.2226	0.2218	96.8%
2	15:53:02	0.0022	0.1068	0.0622	0.0903	95.8%	0.2168	0.2241	98.1%
3	15:53:51	0.0037	0.1287	0.0945	0.0799	95.3%	0.2158	0.2463	99.1%
x		0.0028	0.1262	0.0805	0.0843	95.8%	0.2184	0.2307	98.0%
σ		0.0008	0.0183	0.0166	0.0053	0.5%	0.0036	0.0135	1.1%
%RSD		28.6695	14.4643	20.5777	6.3465	0.6	1.6703	5.8592	1.2
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	15:52:13	0.0026	0.0029	0.0180	0.0148	0.0180			
2	15:53:02	0.0046	0.0066	0.0148	0.0175	0.0162			
3	15:53:51	0.0071	0.0056	0.0216	0.0177	0.0161			
x		0.0048	0.0051	0.0181	0.0167	0.0168			
σ		0.0022	0.0019	0.0034	0.0016	0.0011			
%RSD		46.7545	38.4537	18.8514	9.6849	6.3833			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:00:41	105.9%	0.0004	3.3346	3.2305	5.6566	0.4138	2.4225	108.6991
2	16:01:30	104.9%	0.0024	3.1789	3.2854	6.0650	0.3727	2.2512	89.8691
3	16:02:22	103.9%	0.0005	3.2460	3.2143	5.5889	0.3470	2.1577	85.4254
x		104.9%	0.0011	3.2532	3.2434	5.7702	0.3778	2.2772	94.6645
σ		1.0%	0.0011	0.0781	0.0373	0.2576	0.0337	0.1343	12.3557
%RSD		1.0	99.7823	2.4000	1.1496	4.4639	8.9152	5.8973	13.0521
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:00:41	0.5149	6.9912	7.2456	83.2857	80.8921	85.4087	99.0%	19.9881
2	16:01:30	0.4743	6.8061	7.1767	83.7846	81.4645	86.2803	97.9%	19.6169
3	16:02:22	0.4089	6.6827	7.2391	83.7162	81.7170	85.7896	99.2%	19.9498
x		0.4660	6.8266	7.2204	83.5955	81.3578	85.8262	98.7%	19.8516
σ		0.0535	0.1553	0.0380	0.2705	0.4227	0.4369	0.7%	0.2042
%RSD		11.4780	2.2745	0.5265	0.3236	0.5195	0.5091	0.7	1.0285
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:00:41	1.9381	1.1394	1.3984	2.0377	2.0360	2.0073	99.4%	0.0136
2	16:01:30	1.8500	0.4392	0.5493	2.1386	2.0953	2.0894	97.8%	0.0094
3	16:02:22	1.5740	0.6977	0.6007	2.0349	2.3141	2.2232	99.1%	0.0155
x		1.7873	0.7588	0.8494	2.0704	2.1485	2.1066	98.8%	0.0128
σ		0.1900	0.3541	0.4761	0.0591	0.1465	0.1090	0.9%	0.0031
%RSD		10.6286	46.6695	56.0495	2.8552	6.8186	5.1718	0.9	24.1703
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:00:41	0.0088	0.0587	0.0512	0.0405	98.5%	0.3681	0.3694	99.5%
2	16:01:30	0.0127	0.0624	0.0379	0.0395	99.2%	0.3729	0.3719	101.3%
3	16:02:22	0.0121	0.0511	0.0490	0.0586	99.4%	0.3571	0.3445	101.9%
x		0.0112	0.0574	0.0460	0.0462	99.1%	0.3660	0.3619	100.9%
σ		0.0021	0.0058	0.0072	0.0107	0.5%	0.0081	0.0151	1.3%
%RSD		19.0351	10.0720	15.5749	23.2221	0.5	2.2102	4.1834	1.3
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	16:00:41	-0.0014	-0.0030	0.6422	0.7371	0.7044			
2	16:01:30	0.0007	0.0005	0.6795	0.7277	0.7036			
3	16:02:22	0.0007	-0.0010	0.6511	0.7225	0.7065			
x		0.0000	-0.0012	0.6576	0.7291	0.7049			
σ		0.0012	0.0017	0.0195	0.0074	0.0015			
%RSD		55773.6310	150.2023	2.9606	1.0193	0.2102			

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User Pre-dilution: 1.000

Run	Time	6Li ppb	9Be ppb	51V ppb	52Cr ppb	53Cr ppb	59Co ppb	60Ni ppb	61Ni ppb
1	16:08:09	107.3%	0.0013	3.4407	3.3352	6.1193	0.4259	2.4776	97.8882
2	16:08:59	104.8%	-0.0009	3.2908	3.4022	6.6986	0.3882	2.1057	89.0284
3	16:09:48	105.5%	0.0004	3.3718	3.2409	6.1025	0.3361	2.1208	86.1409
x		105.9%	0.0003	3.3678	3.3261	6.3068	0.3834	2.2347	91.0192
σ		1.3%	0.0011	0.0750	0.0811	0.3394	0.0451	0.2105	6.1215
%RSD		1.2	429.0692	2.2282	2.4375	5.3822	11.7518	9.4205	6.7255
Run	Time	62Ni ppb	63Cu ppb	65Cu ppb	66Zn ppb	67Zn ppb	68Zn ppb	71Ga ppb	75As ppb
1	16:08:09	0.4021	7.0502	7.1811	83.2971	81.0515	84.7354	99.7%	20.0758
2	16:08:59	0.3472	7.0288	7.2910	85.7120	82.4534	87.3828	98.0%	20.6891
3	16:09:48	0.2469	6.8120	7.3198	84.5101	81.1599	87.1958	98.0%	20.3204
x		0.3321	6.9636	7.2640	84.5064	81.5549	86.4380	98.6%	20.3618
σ		0.0787	0.1318	0.0732	1.2075	0.7800	1.4775	1.0%	0.3087
%RSD		23.6974	1.8928	1.0077	1.4288	0.9564	1.7093	1.0	1.5162
Run	Time	77Se ppb	78Se ppb	82Se ppb	95Mo ppb	97Mo ppb	98Mo ppb	103Rh ppb	107Ag ppb
1	16:08:09	1.9956	1.2891	0.2732	1.7974	2.0141	1.8725	100.7%	0.0096
2	16:08:59	2.1770	0.7334	0.9695	1.9812	2.0702	2.0150	97.3%	0.0095
3	16:09:48	1.7626	0.4968	0.2783	2.0758	1.9582	2.0612	98.6%	0.0117
x		1.9784	0.8398	0.5070	1.9514	2.0142	1.9829	98.9%	0.0103
σ		0.2077	0.4067	0.4005	0.1416	0.0560	0.0984	1.7%	0.0013
%RSD		10.4998	48.4336	79.0012	7.2538	2.7817	4.9603	1.8	12.1930
Run	Time	109Ag ppb	111Cd ppb	112Cd ppb	114Cd ppb	115In ppb	121Sb ppb	123Sb ppb	175Lu ppb
1	16:08:09	0.0077	0.0308	0.0572	0.0473	99.7%	0.3479	0.3428	98.3%
2	16:08:59	0.0124	0.0612	0.0469	0.0579	98.1%	0.3698	0.3977	100.2%
3	16:09:48	0.0146	0.0384	0.0453	0.0402	99.4%	0.3800	0.3929	100.8%
x		0.0115	0.0435	0.0498	0.0485	99.1%	0.3659	0.3778	99.8%
σ		0.0035	0.0158	0.0064	0.0089	0.8%	0.0164	0.0304	1.3%
%RSD		30.5877	36.3402	12.9478	18.4538	0.8	4.4784	8.0485	1.3
Run	Time	203Tl ppb	205Tl ppb	206Pb ppb	207Pb ppb	208Pb ppb			
1	16:08:09	-0.0031	-0.0034	0.6417	0.7324	0.7047			
2	16:08:59	-0.0000	-0.0013	0.6994	0.7508	0.7183			
3	16:09:48	0.0005	-0.0009	0.6535	0.7401	0.7177			
x		-0.0009	-0.0019	0.6649	0.7411	0.7136			
σ		0.0020	0.0013	0.0305	0.0092	0.0077			
%RSD		221.6375	71.1595	4.5855	1.2461	1.0788			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:19	107.3%	20.0199	23.5610	23.4129	26.8814	20.2650	21.7188	116.2699
2	16:14:09	105.2%	19.8748	24.0926	23.7876	27.9713	20.7671	22.0369	109.7776
3	16:15:00	105.3%	19.6136	24.2910	23.6223	27.0306	20.3665	21.6457	111.7823
x		105.9%	19.8361	23.9815	23.6076	27.2944	20.4662	21.8004	112.6099
σ		1.2%	0.2059	0.3775	0.1877	0.5909	0.2655	0.2080	3.3244
%RSD		1.1	1.0381	1.5740	0.7953	2.1648	1.2973	0.9540	2.9521
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:19	20.3074	26.5689	26.7192	100.0656	100.3077	103.2521	101.0%	39.8775
2	16:14:09	20.3493	25.8226	26.9075	103.1565	102.0614	105.8449	98.6%	40.8539
3	16:15:00	20.1334	26.0501	26.3864	103.0504	101.4874	104.2526	98.2%	41.1641
x		20.2633	26.1472	26.6710	102.0909	101.2855	104.4499	99.3%	40.6318
σ		0.1145	0.3825	0.2638	1.7547	0.8941	1.3076	1.6%	0.6715
%RSD		0.5650	1.4629	0.9892	1.7188	0.8828	1.2519	1.6	1.6525
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:19	21.3441	20.6566	20.1200	22.3235	22.5675	22.0330	99.9%	19.1812
2	16:14:09	23.0514	21.0683	19.6051	22.6322	23.5075	23.1448	97.9%	19.6095
3	16:15:00	20.7604	20.3727	20.6557	23.2699	22.8545	22.7216	97.4%	19.7971
x		21.7187	20.6992	20.1270	22.7418	22.9765	22.6331	98.4%	19.5293
σ		1.1905	0.3498	0.5253	0.4827	0.4817	0.5612	1.3%	0.3157
%RSD		5.4817	1.6897	2.6100	2.1224	2.0965	2.4794	1.3	1.6165
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:13:19	19.1248	19.2040	19.3276	18.8128	98.6%	19.9227	19.9953	99.1%
2	16:14:09	19.5948	19.6554	19.8309	19.4166	98.1%	20.4049	20.1844	99.5%
3	16:15:00	19.5522	19.4918	19.6722	19.4385	98.7%	20.4440	20.3554	100.3%
x		19.4239	19.4504	19.6102	19.2226	98.5%	20.2572	20.1784	99.6%
σ		0.2600	0.2285	0.2573	0.3551	0.3%	0.2903	0.1801	0.6%
%RSD		1.3384	1.1750	1.3121	1.8473	0.3	1.4331	0.8926	0.6
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	16:13:19	19.5728	19.6868	19.4290	19.5230	19.4413			
2	16:14:09	19.9568	19.9897	19.8664	19.8171	19.9713			
3	16:15:00	19.8284	19.9693	20.0514	20.0138	20.0072			
x		19.7860	19.8819	19.7823	19.7846	19.8066			
σ		0.1955	0.1693	0.3196	0.2470	0.3169			
%RSD		0.9881	0.8516	1.6155	1.2487	1.5999			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:21:29	106.0%	-0.0014	2.5440	2.9171	7.3117	0.3720	2.2277	98.6470
2	16:22:20	104.6%	0.0010	2.4586	2.8506	7.6485	0.3670	1.9867	93.3480
3	16:23:08	103.2%	0.0015	2.4874	2.9050	7.1426	0.2877	1.8675	80.4516
x		104.6%	0.0003	2.4966	2.8909	7.3676	0.3423	2.0273	90.8155
σ		1.4%	0.0016	0.0435	0.0354	0.2576	0.0473	0.1835	9.3583
%RSD		1.3	467.1678	1.7406	1.2250	3.4960	13.8151	9.0525	10.3048
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:21:29	0.4578	6.8560	6.9894	26.5478	28.3557	29.8980	97.9%	11.6891
2	16:22:20	0.3546	6.6721	6.8920	26.2768	29.3931	29.9056	96.9%	11.9545
3	16:23:08	0.3209	6.5688	7.0283	27.3164	29.5144	29.2659	96.5%	12.0676
x		0.3777	6.6990	6.9699	26.7137	29.0877	29.6898	97.1%	11.9037
σ		0.0713	0.1454	0.0702	0.5393	0.6369	0.3672	0.7%	0.1943
%RSD		18.8797	2.1710	1.0075	2.0187	2.1894	1.2366	0.7	1.6323
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:21:29	1.6840	1.0456	0.5476	2.2291	2.1214	2.2130	98.5%	0.0075
2	16:22:20	1.9963	0.4970	0.8848	2.3434	2.3433	2.4017	97.7%	0.0134
3	16:23:08	2.1852	0.9970	1.0170	2.4348	2.3846	2.3422	95.3%	0.0176
x		1.9551	0.8465	0.8165	2.3358	2.2831	2.3190	97.2%	0.0129
σ		0.2531	0.3037	0.2420	0.1031	0.1415	0.0965	1.6%	0.0051
%RSD		12.9467	35.8746	29.6417	4.4131	6.1998	4.1597	1.7	39.5117
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:21:29	0.0153	0.0075	0.0114	0.0208	96.8%	0.2060	0.2208	97.1%
2	16:22:20	0.0159	0.0300	0.0222	0.0293	96.5%	0.2529	0.2703	98.2%
3	16:23:08	0.0196	0.0282	0.0115	0.0253	97.2%	0.2573	0.2500	98.5%
x		0.0169	0.0219	0.0151	0.0251	96.8%	0.2387	0.2470	98.0%
σ		0.0023	0.0125	0.0062	0.0042	0.4%	0.0284	0.0249	0.7%
%RSD		13.5823	57.0895	41.1638	16.8284	0.4	11.9135	10.0629	0.8
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	16:21:29	-0.0016	-0.0020	0.3875	0.4090	0.4075			
2	16:22:20	-0.0019	0.0009	0.3915	0.4452	0.4231			
3	16:23:08	0.0016	0.0010	0.4030	0.4597	0.4217			
x		-0.0006	-0.0000	0.3940	0.4380	0.4175			
σ		0.0019	0.0017	0.0081	0.0261	0.0086			
%RSD		298.7928	6925.9129	2.0471	5.9623	2.0645			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:26:31	97.5%	-0.0013	3.3219	0.2247	0.7460	0.1842	1.1930	50.7168
2	16:27:21	95.0%	-0.0012	3.2681	0.2029	1.0020	0.1471	1.1942	41.2498
3	16:28:12	95.1%	-0.0017	3.1829	0.1870	0.9921	0.1436	1.1027	36.9133
x		95.8%	-0.0014	3.2576	0.2049	0.9133	0.1583	1.1633	42.9600
σ		1.4%	0.0003	0.0701	0.0189	0.1450	0.0225	0.0524	7.0589
%RSD		1.5	20.6042	2.1523	9.2286	15.8787	14.1971	4.5085	16.4313
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:26:31	0.4778	12.9017	12.8983	108.1679	106.0153	109.5890	95.5%	0.8422
2	16:27:21	0.2652	12.7742	12.9401	110.5602	105.4362	110.8812	93.9%	0.6043
3	16:28:12	0.2071	12.6938	12.5440	108.2484	104.3506	110.7790	93.7%	0.5756
x		0.3167	12.7899	12.7942	108.9922	105.2674	110.4164	94.4%	0.6740
σ		0.1425	0.1048	0.2176	1.3585	0.8451	0.7183	1.0%	0.1463
%RSD		44.9966	0.8198	1.7010	1.2464	0.8028	0.6506	1.1	21.7114
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:26:31	0.1229	0.3158	0.1954	1.4972	1.4852	1.4434	95.3%	0.0004
2	16:27:21	0.7319	0.2177	-0.6115	1.5675	1.6154	1.5457	94.2%	0.0010
3	16:28:12	0.9078	0.1191	-0.1449	1.6634	1.5199	1.5409	93.5%	0.0030
x		0.5875	0.2175	-0.1870	1.5760	1.5402	1.5100	94.3%	0.0015
σ		0.4119	0.0983	0.4050	0.0834	0.0674	0.0577	0.9%	0.0013
%RSD		70.1000	45.1963	216.6232	5.2929	4.3767	3.8218	0.9	92.1004
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:26:31	0.0022	0.0173	0.0079	0.0113	94.8%	0.0195	0.0369	96.7%
2	16:27:21	0.0037	0.0135	0.0129	0.0128	95.0%	0.0223	0.0230	97.6%
3	16:28:12	0.0027	0.0306	0.0137	0.0096	95.9%	0.0238	0.0292	97.4%
x		0.0028	0.0204	0.0115	0.0113	95.3%	0.0219	0.0297	97.2%
σ		0.0008	0.0090	0.0032	0.0016	0.6%	0.0022	0.0069	0.5%
%RSD		27.6509	43.8988	27.5754	14.2205	0.6	9.9042	23.3413	0.5
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	16:26:31	-0.0033	-0.0059	0.1157	0.1328	0.1224			
2	16:27:21	-0.0049	-0.0044	0.1286	0.1448	0.1315			
3	16:28:12	-0.0055	-0.0037	0.1132	0.1280	0.1234			
x		-0.0046	-0.0047	0.1191	0.1352	0.1258			
σ		0.0011	0.0011	0.0083	0.0086	0.0050			
%RSD		23.9509	23.8460	6.9365	6.3907	3.9535			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:12	94.9%	0.0025	3.4292	0.2019	0.8157	0.1832	1.3817	50.2747
2	16:32:02	93.7%	0.0041	3.3984	0.1574	0.8074	0.1755	1.1132	43.3314
3	16:32:52	93.2%	0.0005	3.2853	0.1702	1.2298	0.1505	1.1581	36.3768
x		93.9%	0.0024	3.3710	0.1765	0.9510	0.1697	1.2177	43.3277
σ		0.8%	0.0018	0.0758	0.0229	0.2415	0.0171	0.1438	6.9489
%RSD		0.9	78.1596	2.2479	12.9628	25.3986	10.0863	11.8078	16.0381
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:12	0.4042	12.5839	12.4594	107.3296	103.6226	108.3713	92.4%	0.8055
2	16:32:02	0.2494	12.4937	12.5747	108.0964	105.1717	110.4643	91.3%	0.7442
3	16:32:52	0.3515	12.4685	12.4231	108.5023	105.2683	109.1436	91.2%	0.5934
x		0.3350	12.5154	12.4858	107.9761	104.6875	109.3264	91.6%	0.7144
σ		0.0787	0.0607	0.0792	0.5955	0.9235	1.0584	0.7%	0.1091
%RSD		23.4975	0.4849	0.6340	0.5515	0.8822	0.9681	0.8	15.2767
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:12	0.3709	0.2819	0.1393	1.4349	1.5902	1.4318	92.1%	-0.0014
2	16:32:02	0.2538	-0.0756	-0.4042	1.4618	1.5123	1.5128	91.6%	-0.0014
3	16:32:52	0.5181	0.4746	-0.4375	1.5277	1.5436	1.5153	91.0%	0.0017
x		0.3810	0.2270	-0.2341	1.4748	1.5487	1.4866	91.6%	-0.0004
σ		0.1324	0.2792	0.3238	0.0477	0.0392	0.0475	0.6%	0.0018
%RSD		34.7633	122.9908	138.3300	3.2351	2.5300	3.1949	0.6	453.0127
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:31:12	-0.0003	0.0160	0.0114	0.0110	91.6%	0.0280	0.0197	93.0%
2	16:32:02	0.0028	0.0041	0.0052	0.0134	92.1%	0.0272	0.0284	94.9%
3	16:32:52	0.0023	0.0061	0.0113	0.0125	92.7%	0.0259	0.0216	95.7%
x		0.0016	0.0087	0.0093	0.0123	92.2%	0.0270	0.0232	94.5%
σ		0.0017	0.0064	0.0035	0.0012	0.5%	0.0011	0.0046	1.4%
%RSD		104.4145	72.9289	38.0892	9.5539	0.6	4.0149	19.8192	1.4
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	16:31:12	-0.0063	-0.0063	0.1181	0.1299	0.1244			
2	16:32:02	-0.0048	-0.0041	0.1216	0.1363	0.1278			
3	16:32:52	-0.0036	-0.0054	0.1209	0.1318	0.1321			
x		-0.0049	-0.0052	0.1202	0.1327	0.1281			
σ		0.0013	0.0011	0.0019	0.0033	0.0039			
%RSD		27.5086	21.3065	1.5705	2.5033	3.0254			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:27	95.0%	-0.0012	-0.0332	0.0308	0.6194	-0.0014	0.0092	1.9623
2	16:36:16	95.8%	-0.0028	-0.0644	0.0146	0.3933	-0.0025	0.0179	-0.2182
3	16:37:06	96.5%	-0.0007	0.0677	0.0020	-0.0410	-0.0043	0.0040	-0.4023
x		95.8%	-0.0016	-0.0100	0.0158	0.3239	-0.0027	0.0104	0.4472
σ		0.8%	0.0011	0.0690	0.0144	0.3356	0.0015	0.0070	1.3153
%RSD		0.8	68.8536	691.2442	91.4866	103.6245	55.1959	67.3824	294.0869
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:27	0.0147	0.1243	-0.0005	0.0059	0.2276	-0.0002	94.0%	0.1024
2	16:36:16	0.0710	0.0505	-0.0317	0.0139	0.1449	0.0035	96.6%	-0.1109
3	16:37:06	0.0370	-0.0007	-0.0114	0.0134	0.1978	0.0877	97.4%	0.1100
x		0.0409	0.0580	-0.0145	0.0111	0.1901	0.0304	96.0%	0.0338
σ		0.0283	0.0628	0.0158	0.0045	0.0419	0.0497	1.8%	0.1254
%RSD		69.2460	108.2555	109.0763	40.3190	22.0194	163.6843	1.9	370.8412
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:27	-0.1194	0.4054	0.0736	48.7783	48.3969	48.8278	96.1%	-0.0031
2	16:36:16	0.1108	-0.0474	-0.2919	49.2011	50.0380	50.0673	97.0%	-0.0021
3	16:37:06	-0.1827	-0.2781	0.2517	50.0093	50.1225	50.0068	97.3%	-0.0016
x		-0.0638	0.0266	0.0111	49.3296	49.5191	49.6340	96.8%	-0.0023
σ		0.1545	0.3477	0.2771	0.6255	0.9727	0.6988	0.6%	0.0007
%RSD		242.2351	1306.2893	2491.1706	1.2680	1.9644	1.4080	0.7	31.9748
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:35:27	0.0042	0.0769	0.0580	0.0569	93.6%	0.0031	-0.0014	94.0%
2	16:36:16	0.0026	0.0770	0.0438	0.0697	96.3%	0.0041	0.0005	96.9%
3	16:37:06	0.0045	0.0729	0.0561	0.0571	97.0%	0.0057	0.0005	97.9%
x		0.0038	0.0756	0.0526	0.0612	95.6%	0.0043	-0.0001	96.3%
σ		0.0010	0.0024	0.0077	0.0074	1.8%	0.0013	0.0011	2.0%
%RSD		27.7536	3.1366	14.6325	12.0129	1.9	30.5608	892.1443	2.1
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	16:35:27	-0.0041	-0.0058	0.0001	0.0005	-0.0006			
2	16:36:16	-0.0037	-0.0055	0.0010	0.0003	0.0007			
3	16:37:06	-0.0028	-0.0069	0.0026	0.0024	0.0009			
x		-0.0035	-0.0061	0.0012	0.0010	0.0003			
σ		0.0007	0.0007	0.0012	0.0011	0.0008			
%RSD		19.1284	11.9764	100.4347	110.9930	228.4731			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:43:56	92.3%	25.5389	25.1016	24.8921	25.0054	25.0617	24.7711	25.4545
2	16:44:45	93.2%	25.2664	24.9875	25.2132	25.0737	24.8527	24.8967	24.0842
3	16:45:34	93.0%	25.0448	24.5617	24.5043	24.6581	24.6968	24.2346	25.6456
x		92.8%	25.2834	24.8836	24.8699	24.9124	24.8704	24.6341	25.0615
σ		0.5%	0.2475	0.2845	0.3550	0.2229	0.1831	0.3516	0.8517
%RSD		0.5	0.9788	1.1435	1.4273	0.8946	0.7363	1.4274	3.3985
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:43:56	25.4787	24.9656	25.2944	24.8122	23.8486	24.6301	92.4%	24.6163
2	16:44:45	25.0753	25.2018	24.9886	25.1543	24.9644	25.7885	92.6%	25.3055
3	16:45:34	25.3587	24.5467	24.3827	24.9331	25.2914	25.0084	93.8%	24.6835
x		25.3042	24.9047	24.8886	24.9665	24.7015	25.1423	93.0%	24.8684
σ		0.2071	0.3317	0.4640	0.1735	0.7565	0.5907	0.8%	0.3800
%RSD		0.8186	1.3320	1.8643	0.6949	3.0625	2.3493	0.8	1.5280
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:43:56	24.3073	25.6747	22.7669	24.5257	24.4783	24.1529	92.4%	24.6782
2	16:44:45	25.8422	26.6034	25.7515	24.6029	24.9601	24.6669	93.7%	25.2145
3	16:45:34	25.9319	25.4232	25.5643	25.7184	25.0878	25.0523	93.0%	24.7349
x		25.3605	25.9004	24.6942	24.9490	24.8420	24.6240	93.0%	24.8759
σ		0.9131	0.6216	1.6717	0.6675	0.3214	0.4513	0.7%	0.2946
%RSD		3.6006	2.4000	6.7698	2.6753	1.2940	1.8326	0.7	1.1844
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:43:56	24.7355	23.6195	24.5915	24.2311	92.7%	24.1037	24.2591	92.0%
2	16:44:45	24.5621	24.7101	25.3024	24.5912	93.8%	24.7620	24.6578	95.1%
3	16:45:34	25.1933	25.1889	25.1070	24.9051	94.4%	24.7493	24.7906	96.8%
x		24.8303	24.5062	25.0003	24.5758	93.6%	24.5383	24.5691	94.6%
σ		0.3261	0.8044	0.3673	0.3373	0.9%	0.3764	0.2766	2.4%
%RSD		1.3135	3.2822	1.4691	1.3725	0.9	1.5340	1.1259	2.5
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	16:43:56	24.5870	24.6924	24.5156	24.6185	24.5799			
2	16:44:45	25.0100	24.9437	25.0734	24.9819	25.0316			
3	16:45:34	25.0382	25.0931	25.1688	24.8749	25.0599			
x		24.8784	24.9097	24.9193	24.8251	24.8904			
σ		0.2527	0.2025	0.3528	0.1868	0.2693			
%RSD		1.0159	0.8129	1.4159	0.7523	1.0821			

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User Pre-dilution: 1.000

Run	Time	6Li	9Be	51V	52Cr	53Cr	59Co	60Ni	61Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:52:21	92.3%	0.0010	-0.0582	0.0046	-0.3773	-0.0001	0.0147	1.4362
2	16:53:11	92.7%	0.0005	0.0095	0.0122	-0.7041	-0.0002	0.0026	2.3238
3	16:54:00	92.4%	0.0053	-0.0507	0.0097	-0.5550	0.0007	0.0120	0.0270
x		92.5%	0.0023	-0.0331	0.0088	-0.5454	0.0002	0.0098	1.2623
σ		0.2%	0.0026	0.0371	0.0039	0.1636	0.0005	0.0064	1.1583
%RSD		0.2	116.0460	112.0456	44.3205	29.9949	336.1437	65.4067	91.7548
Run	Time	62Ni	63Cu	65Cu	66Zn	67Zn	68Zn	71Ga	75As
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:52:21	-0.0081	0.1732	-0.0115	0.0004	0.0643	-0.0133	90.6%	0.0173
2	16:53:11	0.0131	0.0854	0.0234	0.0076	0.0187	-0.0000	90.8%	0.2779
3	16:54:00	-0.0514	0.0693	-0.0172	0.0096	0.0459	0.0659	91.8%	0.1874
x		-0.0154	0.1093	-0.0018	0.0059	0.0430	0.0175	91.1%	0.1609
σ		0.0329	0.0559	0.0220	0.0048	0.0230	0.0424	0.6%	0.1323
%RSD		213.0644	51.1667	1243.7236	82.5567	53.4917	242.1360	0.7	82.2600
Run	Time	77Se	78Se	82Se	95Mo	97Mo	98Mo	103Rh	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:52:21	-0.2221	0.1293	-0.1160	0.0162	0.0416	0.0224	91.1%	0.0017
2	16:53:11	-0.2684	0.1613	0.7831	0.0956	0.1045	0.0954	92.3%	0.0032
3	16:54:00	-0.4467	-0.1260	0.2677	0.1059	0.0794	0.0943	92.1%	0.0021
x		-0.3124	0.0549	0.3116	0.0726	0.0752	0.0707	91.8%	0.0023
σ		0.1186	0.1574	0.4511	0.0491	0.0317	0.0418	0.6%	0.0008
%RSD		37.9671	286.9675	144.7919	67.6454	42.1522	59.1272	0.7	33.2351
Run	Time	109Ag	111Cd	112Cd	114Cd	115In	121Sb	123Sb	175Lu
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	16:52:21	0.0061	0.0042	0.0002	-0.0025	90.8%	-0.0003	-0.0027	91.3%
2	16:53:11	0.0028	-0.0018	-0.0030	-0.0001	91.0%	-0.0003	0.0025	94.0%
3	16:54:00	0.0074	0.0078	0.0010	-0.0011	95.1%	0.0047	-0.0001	95.5%
x		0.0054	0.0034	-0.0006	-0.0012	92.3%	0.0014	-0.0001	93.6%
σ		0.0023	0.0049	0.0021	0.0012	2.4%	0.0029	0.0026	2.1%
%RSD		42.8396	142.9887	337.2689	97.4105	2.6	212.6854	2976.7421	2.2
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb			
		ppb	ppb	ppb	ppb	ppb			
1	16:52:21	0.0007	0.0018	0.0030	-0.0021	0.0012			
2	16:53:11	0.0088	0.0071	0.0015	0.0026	0.0019			
3	16:54:00	0.0070	0.0081	0.0060	0.0017	0.0043			
x		0.0055	0.0056	0.0035	0.0007	0.0025			
σ		0.0043	0.0034	0.0023	0.0025	0.0016			
%RSD		76.8522	60.2952	66.0726	341.2487	66.5744			

July 1, 2010

Analytical Report for Service Request No: K1004870

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 14, 2010. For your reference, these analyses have been assigned our service request number K1004870.

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 3

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Exponent
Project: Heglar - Kronquist
Sample Matrix: Water

Service Request No.: K1004870
Date Received: 05/14/10

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

Five water samples were received for analysis at Columbia Analytical Services on 05/14/10. 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

A field filtered 1L plastic container was used for the analysis of Chloride, Sulfate, Nitrate, Nitrite, Fluoride and Ortho Phosphate for samples BH-6, BH-7 and BH-15. A field filtered container was used for the analysis of Ortho Phosphate for samples 4aad and SW-8.

No anomalies associated with the analysis of these samples were observed.

Total and Dissolved Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Zinc for the Batch QC were not applicable. The analyte 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.

Approved by  Date 06/30/10

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	0.031	0.013	1	05/14/10 12:50	0.114	
BH-7	K1004870-002	0.031	0.013	1	05/14/10 12:50	0.095	
BH-15	K1004870-003	0.031	0.013	1	05/14/10 12:50	0.196	
4aad	K1004870-004	0.031	0.013	1	05/14/10 12:50	0.292	
SW-8	K1004870-005	0.031	0.013	1	05/14/10 12:50	0.298	
Method Blank	K1004870-MB	0.031	0.013	1	05/14/10 12:50	ND	

June 10, 2010

Analytical Report for Service Request No: K1004870

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 14, 2010. For your reference, these analyses have been assigned our service request number K1004870.

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.caslabs.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@caslabs.com.

Respectfully submitted,

Columbia Analytical Services, Inc.



Pradeep Divvela
Project Chemist

PD/rh

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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.: K1004870
Date Received: 05/14/10

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

Five water samples were received for analysis at Columbia Analytical Services on 05/14/10. 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

A field filtered 1L plastic container was used for the analysis of Chloride, Sulfate, Nitrate, Nitrite, Fluoride and Ortho Phosphate for samples BH-6, BH-7 and BH-15.

No anomalies associated with the analysis of these samples were observed.


Total and Dissolved Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Zinc for the Batch QC were not applicable. The analyte 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.

Approved by _____ Date _____

 06/10/10

Chain of Custody

PROJECT NAME: Heqar - Kronquist PROJECT NUMBER: 0907194.000.0601 PROJECT MANAGER: melissa kleven COMPANY ADDRESS: 153755E 30th Pl Suite 250 CITY/STATE/ZIP: Bellevue, WA 98007 E-MAIL ADDRESS: mkleven@exponent.com PHONE #: 425-519-8774 FAX #: 425-519-8799 SAMPLER'S SIGNATURE: [Signature] / Keri Whetter		NUMBER OF CONTAINERS	
SAMPLE I.D.	DATE	TIME	LAB I.D. MATRIX
BH-6	5.12.10	1920	L 5
BH-7	5.13.10	1240	L 5
BH-15	5.13.10	1700	L 5
SEMI-VOLATILE ORGANICS BY GC/MS <input type="checkbox"/> 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270LL <input type="checkbox"/> 824 <input type="checkbox"/> 8260 Volatile Organics <input type="checkbox"/> 8021 <input type="checkbox"/> 8021 Hydrocarbons (*see below) <input type="checkbox"/> Oil <input type="checkbox"/> Fuel Fingerprnt (FIO) <input type="checkbox"/> Oil & Grease/TRPH <input type="checkbox"/> 1664 SGT PCBs <input type="checkbox"/> Aroclors Pesticides/Herbicides <input type="checkbox"/> 608 <input type="checkbox"/> 8081A <input type="checkbox"/> 8141A <input type="checkbox"/> 8151A Chlorophenolics - 8151M <input type="checkbox"/> Tetra <input type="checkbox"/> PAHS 8310 <input type="checkbox"/> SIM Metals, Total or Dissolved (See list below) <input type="checkbox"/> Hex-Chrom <input type="checkbox"/> Cyanide PH Cond. Cl. SO ₄ PO ₄ F. NO ₃ BOD TSS TDS (circle) <input type="checkbox"/> NH ₃ -N COD Total P, TKN, TOC, DOC (circle) NO ₂ +NO ₃ <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506 akkalmity phosphate phosphate			
REMARKS			
BH-6 nun			
BH-7 NO ₃ , NO ₂ , and ortho-P04			
BH-15 ASAP within 48 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> as above
TURNAROUND REQUIREMENTS <input type="checkbox"/> 24 hr. _____ 48 hr. <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/> Standard (10-15 working days) Provide FAX Results Requested Report Date _____	RECEIVED BY: Signature: <u>[Signature]</u> Date/Time: <u>5/14/10 0900</u> Printed Name: <u>Les Kennedy</u> Firm: <u>CAS</u>
RECEIVED BY: Signature: <u>[Signature]</u> Date/Time: _____ Printed Name: _____ Firm: _____	RECEIVED BY: Signature: _____ Date/Time: _____ Printed Name: _____ 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 w/ H₂SO₄, and 1 L unpreserved, and 500 mL w/ HNO₃ are field-filtered
 Sample Shipment contains USDA regulated soil samples (check box if applicable) Bar code # T022894

PROJECT NAME Heglar-Kronquist		NUMBER OF CONTAINERS																																			
PROJECT NUMBER 0907194.000.0601																																					
PROJECT MANAGER Melissa Kleven																																					
COMPANY ADDRESS 15375 SE 30th PI SUITE 250 Bellevue, WA 98007																																					
CITY/STATE/ZIP																																					
E-MAIL ADDRESS mkleven@exponent.com																																					
PHONE # 425-519-8774 FAX # 425-519-8799																																					
SAMPLER'S SIGNATURE Keri Whetter																																					
SAMPLE I.D.	DATE	TIME	LAB I.D. MATRIX																																		
4aad	5-13-10	1305	L S																																		
<table border="1"> <tr> <td><input type="checkbox"/> Volatile Organics by GC/MS 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270LL <input type="checkbox"/></td> <td><input type="checkbox"/> Semivolatile Organics 624 <input type="checkbox"/> 8260 <input type="checkbox"/></td> <td><input type="checkbox"/> Hydrocarbons ("see below") Gas <input type="checkbox"/> 8021 <input type="checkbox"/></td> <td><input type="checkbox"/> Fuel Fingerprints (FIO) Oil & Grease/TRPH <input type="checkbox"/> 1664 SGT <input type="checkbox"/></td> <td><input type="checkbox"/> PCB's Aroclors <input type="checkbox"/></td> <td><input type="checkbox"/> Pesticides/Herbicides 608 <input type="checkbox"/> 8081A <input type="checkbox"/></td> <td><input type="checkbox"/> Chlorophenolics - 8151M <input type="checkbox"/> 8141A <input type="checkbox"/> 8151A <input type="checkbox"/></td> <td><input type="checkbox"/> PAHS 8310 <input type="checkbox"/> SIM <input type="checkbox"/></td> <td><input type="checkbox"/> Metals (Total or Dissolved) (See list below)</td> <td><input type="checkbox"/> Cyanide <input type="checkbox"/></td> <td><input type="checkbox"/> Hex-Chrom <input type="checkbox"/></td> <td><input type="checkbox"/> pH Cond. (Cl, SO₄, PO₄, F, NO₂, NO₃, BOD, TSS, TDS) <input type="checkbox"/></td> <td><input type="checkbox"/> DOC (circle) NO₂+NO₃ <input type="checkbox"/></td> <td><input type="checkbox"/> NH₃-N, COD, Total P, TKN, TOC, <input type="checkbox"/></td> <td><input type="checkbox"/> Alkalinity <input type="checkbox"/></td> <td><input type="checkbox"/> Phosphate as Orthophosphate <input type="checkbox"/></td> <td><input type="checkbox"/> TOX 9020 <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				<input type="checkbox"/> Volatile Organics by GC/MS 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270LL <input type="checkbox"/>	<input type="checkbox"/> Semivolatile Organics 624 <input type="checkbox"/> 8260 <input type="checkbox"/>	<input type="checkbox"/> Hydrocarbons ("see below") Gas <input type="checkbox"/> 8021 <input type="checkbox"/>	<input type="checkbox"/> Fuel Fingerprints (FIO) Oil & Grease/TRPH <input type="checkbox"/> 1664 SGT <input type="checkbox"/>	<input type="checkbox"/> PCB's Aroclors <input type="checkbox"/>	<input type="checkbox"/> Pesticides/Herbicides 608 <input type="checkbox"/> 8081A <input type="checkbox"/>	<input type="checkbox"/> Chlorophenolics - 8151M <input type="checkbox"/> 8141A <input type="checkbox"/> 8151A <input type="checkbox"/>	<input type="checkbox"/> PAHS 8310 <input type="checkbox"/> SIM <input type="checkbox"/>	<input type="checkbox"/> Metals (Total or Dissolved) (See list below)	<input type="checkbox"/> Cyanide <input type="checkbox"/>	<input type="checkbox"/> Hex-Chrom <input type="checkbox"/>	<input type="checkbox"/> pH Cond. (Cl, SO ₄ , PO ₄ , F, NO ₂ , NO ₃ , BOD, TSS, TDS) <input type="checkbox"/>	<input type="checkbox"/> DOC (circle) NO ₂ +NO ₃ <input type="checkbox"/>	<input type="checkbox"/> NH ₃ -N, COD, Total P, TKN, TOC, <input type="checkbox"/>	<input type="checkbox"/> Alkalinity <input type="checkbox"/>	<input type="checkbox"/> Phosphate as Orthophosphate <input type="checkbox"/>	<input type="checkbox"/> TOX 9020 <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/>																	
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REMARKS run NO ₃ , NO ₂ , and ortho- PO ₄ ASAP, within 48-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> as above																																					
TURNAROUND REQUIREMENTS 24 hr. _____ 48 hr. _____ 5 Day _____ Standard (10-15 working days) <input checked="" type="checkbox"/> Provide FAX Results _____ Requested Report Date _____																																					
SPECIAL INSTRUCTIONS/COMMENTS: - 500 ml unfiltered in field-filtered																																					
*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)																																					
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																																					
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		RECEIVED BY: Signature: <u>Keri Whetter</u> Date/Time: <u>5-13-10/1815</u> Printed Name: <u>Keri Whetter</u> Firm: <u>Exponent</u>																																			
REINQUISHED BY: Signature: <u>Keri Whetter</u> Date/Time: <u>5/14/10 0900</u> Printed Name: <u>Keri Whetter</u> Firm: <u>Exponent</u>		RECEIVED BY: Signature: _____ Date/Time: _____ Printed Name: _____ Firm: _____																																			

Sample Shipment contains USDA regulated soil samples (check box if applicable)

CHAIN OF CUSTODY

SR#: K1904870

PAGE 3 OF 3 COC # _____

PROJECT NAME: Heglar-Kronquist
 PROJECT NUMBER: 0907194.0000 0601
 PROJECT MANAGER: Melissa Kleven
 COMPANY ADDRESS: 15375 SE 30th PI
 CITY/STATE/ZIP: Suite 250
 E-MAIL ADDRESS: Bellevue, WA 98007
 PHONE # (425)519-8774 FAX: mkleven@exponent.com
 SAMPLER'S SIGNATURE: (425)519-8774

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SW-8	5-13-10	1135		L	5	run NO3, NO2, and ortho- PO4 ASAP, within 18hr 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

I. II. III. IV. V.

INVOICE INFORMATION

P.O. # _____
 Bill To: same
as above

TURNAROUND REQUIREMENTS

24 hr. _____ 48 hr. _____
 5 Day _____
 Standard (10-15 working days)
 Provide FAX Results _____

Requested Report Date _____

RELIQUISHED BY:

Signature: Keri Whetter Date/Time: 5.13.10/1815
 Printed Name: Keri Whetter Firm: Exponent

RECEIVED BY:

Signature: Les Kennedy Date/Time: 5/14/10 0900
 Printed Name: Les Kennedy Firm: CAI

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 unpreserved is field filtered

Sample Shipment contains USDA regulated soil samples (check box if applicable)

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC PD

Client / Project: Exponent Service Request K10 04870

Received: 5/14/10 Opened: 5/14/10 By: WA

- Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
- Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
- Were custody seals on coolers? *NA* *Y* *N* If yes, how many and where? _____
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
0.7	1.9	276					✓
0.5	—	276					

- Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
- Were custody papers properly filled out (ink, signed, etc.)? *NA* *Y* *N*
- Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* *NA* *Y* *N*
- Were all sample labels complete (i.e analysis, preservation, etc.)? *NA* *Y* *N*
- Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* *NA* *Y* *N*
- Were appropriate bottles/containers and volumes received for the tests indicated? *NA* *Y* *N*
- Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* *NA* *Y* *N*
- Were VOA vials received without headspace? *Indicate in the table below.* *NA* *Y* *N*
- 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

SHORT HOLD 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 : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	0.20	0.06	2	06/02/10	1.77	
BH-7	K1004870-002	0.20	0.06	2	06/02/10	6.42	
BH-15	K1004870-003	1.0	0.2	5	06/02/10	30.3	
4aad	K1004870-004	0.20	0.06	2	06/02/10	2.35	
SW-8	K1004870-005	10	2	50	06/02/10	239	
Method Blank	K1004870-MB	0.20	0.03	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 : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 06/02/10

Duplicate Summary
Inorganic Parameters

Sample Name : BH-7
Lab Code : K1004870-002DUP
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	6.42	6.58	6.50	2	

COLUMBIA ANALYTICAL SERVICES, INC.
QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 06/02/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : BH-7 Units : mg/L
 Lab Code : K1004870-002MS K1004870-002DMS 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	6.42	9.58	9.59	106	106	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 : K1004870
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 : K1004870-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	4.85	97	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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
CCB8 Result	6/3/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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
CCV8 Result	6/3/2010	5.00	4.92	98

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	0.20	0.01	2	06/02/10	0.38	
BH-7	K1004870-002	0.20	0.01	2	06/02/10	0.30	
BH-15	K1004870-003	0.20	0.01	2	06/02/10	0.54	
4aad	K1004870-004	0.20	0.01	2	06/02/10	0.43	
SW-8	K1004870-005	0.20	0.01	2	06/02/10	0.26	
Method Blank	K1004870-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 : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 06/02/10

Duplicate Summary
Inorganic Parameters

Sample Name : BH-7
Lab Code : K1004870-002DUP
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	0.30	0.30	0.30	<1	

COLUMBIA ANALYTICAL SERVICES, INC.
QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 06/02/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : BH-7 Units : mg/L
 Lab Code : K1004870-002MS K1004870-002DMS 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	0.30	3.43	3.37	104	102	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 : K1004870
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 : K1004870-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	13.3	99	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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 : K1004870
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 : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	0.20	0.02	2	06/02/10	3.40	
BH-7	K1004870-002	0.20	0.02	2	06/02/10	9.51	
BH-15	K1004870-003	1.0	0.1	5	06/02/10	31.7	
4aad	K1004870-004	0.20	0.02	2	06/02/10	2.19	
SW-8	K1004870-005	2.0	0.1	10	06/02/10	32.4	
Method Blank	K1004870-MB	0.20	0.01	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 : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 06/02/10

Duplicate Summary
Inorganic Parameters

Sample Name : BH-7
Lab Code : K1004870-002DUP
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	9.51	9.51	9.51	<1	

COLUMBIA ANALYTICAL SERVICES, INC.
QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 06/02/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : BH-7 Units : mg/L
 Lab Code : K1004870-002MS K1004870-002DMS 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	9.51	12.9	12.9	114	112	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 : K1004870
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 : K1004870-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	4.87	97	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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
CCV8 Result	6/3/2010	5.00	5.08	102

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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
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 : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

Ammonia as Nitrogen, Dissolved

Analysis Method : 350.1
Test Notes :

Units : mg/L
Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
BH-6	K1004870-001	0.050	0.020	1	05/20/10	0.064	
BH-7	K1004870-002	0.050	0.020	1	05/20/10	0.069	
BH-15	K1004870-003	0.050	0.020	1	05/20/10	0.031	J
Method Blank	K1004870-MB	0.050	0.020	1	05/20/10	0.041	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 5/12/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/20/10

Duplicate Summary
Inorganic Parameters

Sample Name : BH-6
Lab Code : K1004870-001DUP
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, Dissolved	350.1	0.050	0.064	0.062	0.063	3	

COLUMBIA ANALYTICAL SERVICES, INC.
QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 5/12/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/20/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : BH-6 Units : mg/L
 Lab Code : K1004870-001MS K1004870-001DMS 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, Dissolved	NONE	350.1	0.050	2.00	2.00	0.064	2.08	2.13	101	103	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 : K1004870
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/20/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004870-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
Ammonia as Nitrogen	NONE	350.1	14.3	14.7	103	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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	5/20/2010	2.00	1.91	96
CCV2 Result	5/20/2010	2.00	1.91	96
CCV3 Result	5/20/2010	2.00	1.90	95
CCV4 Result	5/20/2010	2.00	1.91	96
CCV5 Result	5/20/2010	2.00	1.90	95
CCV6 Result	5/20/2010	2.00	1.90	95
CCV7 Result	5/20/2010	2.00	1.90	95
CCV8 Result	5/20/2010	2.00	1.89	95
CCV9 Result	5/20/2010	2.00	1.89	95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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	5/20/2010	0.050	0.030 J
CCB2 Result	5/20/2010	0.050	0.025 J
CCB3 Result	5/20/2010	0.050	0.033 J
CCB4 Result	5/20/2010	0.050	0.036 J
CCB5 Result	5/20/2010	0.050	ND
CCB6 Result	5/20/2010	0.050	ND
CCB7 Result	5/20/2010	0.050	ND
CCB8 Result	5/20/2010	0.050	ND
CCB9 Result	5/20/2010	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 : K1004870
Date Collected : 05/13/10
Date Received : 05/14/10

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
4aad	K1004870-004	0.050	0.020	1	05/20/10	ND	
SW-8	K1004870-005	0.050	0.020	1	05/20/10	ND	
Method Blank	K1004870-MB	0.050	0.020	1	05/20/10	0.041	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/20/10

Duplicate Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1004814-001DUP
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	0.046	0.049	0.048	6	J

COLUMBIA ANALYTICAL SERVICES, INC.
QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/20/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : Batch QC Units : mg/L
 Lab Code : K1004814-001MS K1004814-001DMS 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	0.046	2.07	2.07	101	101	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 : K1004870
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/20/10

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004870-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 : K1004870
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	5/20/2010	2.00	1.91	96
CCV2 Result	5/20/2010	2.00	1.91	96
CCV3 Result	5/20/2010	2.00	1.90	95
CCV4 Result	5/20/2010	2.00	1.91	96
CCV5 Result	5/20/2010	2.00	1.90	95
CCV6 Result	5/20/2010	2.00	1.90	95
CCV7 Result	5/20/2010	2.00	1.90	95
CCV8 Result	5/20/2010	2.00	1.89	95
CCV9 Result	5/20/2010	2.00	1.89	95

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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	5/20/2010	0.050	0.030 J
CCB2 Result	5/20/2010	0.050	0.025 J
CCB3 Result	5/20/2010	0.050	0.033 J
CCB4 Result	5/20/2010	0.050	0.036 J
CCB5 Result	5/20/2010	0.050	ND
CCB6 Result	5/20/2010	0.050	ND
CCB7 Result	5/20/2010	0.050	ND
CCB8 Result	5/20/2010	0.050	ND
CCB9 Result	5/20/2010	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 : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	0.050	0.005	1	05/14/10 12:07	0.006	J
BH-7	K1004870-002	0.050	0.005	1	05/14/10 12:07	0.024	J
BH-15	K1004870-003	0.050	0.005	1	05/14/10 12:07	0.007	J
4aad	K1004870-004	0.050	0.005	1	05/14/10 12:07	0.005	J
SW-8	K1004870-005	0.050	0.005	1	05/14/10 12:07	0.010	J
Method Blank	K1004870-MB	0.050	0.005	1	05/14/10 12:07	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 5/12/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/14/10

Duplicate Summary
Inorganic Parameters

Sample Name : BH-6
Lab Code : K1004870-001DUP
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	0.006	0.006	<1	J

COLUMBIA ANALYTICAL SERVICES, INC.
QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 5/12/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/14/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : BH-6 Units : mg/L
 Lab Code : K1004870-001MS K1004870-001DMS 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	1.98	100	99	90-110	1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/14/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004870-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	4.01	100	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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	5/14/2010	2.00	1.95	98
CCV2 Result	5/14/2010	2.00	1.96	98
CCV3 Result	5/14/2010	2.00	1.96	98

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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	5/14/2010	0.050	ND
CCB2 Result	5/14/2010	0.050	ND
CCB3 Result	5/14/2010	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 : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	0.050	0.009	1	05/18/10	0.052	
BH-7	K1004870-002	0.050	0.009	1	05/18/10	3.22	
BH-15	K1004870-003	0.050	0.009	1	05/18/10	0.061	
4aad	K1004870-004	0.050	0.009	1	05/18/10	0.036	J
SW-8	K1004870-005	0.050	0.009	10	05/18/10	10.8	
Method Blank	K1004870-MB	0.050	0.009	1	05/18/10	0.024	J

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 5/12/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/18/10

Duplicate Summary
Inorganic Parameters

Sample Name : BH-6
Lab Code : K1004870-001DUP
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	0.050	0.052	0.063	0.058	19	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 5/12/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/18/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : BH-6 Units : mg/L
 Lab Code : K1004870-001MS K1004870-001DMS 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	2.00	2.00	0.052	2.10	2.05	102	100	86-117	2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
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 : K1004870-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	14.9	101	88-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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 : K1004870
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 : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	0.010	0.004	1	05/14/10 12:50	0.037	
BH-7	K1004870-002	0.010	0.004	1	05/14/10 12:50	0.031	
BH-15	K1004870-003	0.010	0.004	1	05/14/10 12:50	0.064	
4aad	K1004870-004	0.010	0.004	1	05/14/10 12:50	0.095	
SW-8	K1004870-005	0.010	0.004	1	05/14/10 12:50	0.097	
Method Blank	K1004870-MB	0.010	0.004	1	05/14/10 12:50	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/14/10

Duplicate Summary
Inorganic Parameters

Sample Name : BH-7
Lab Code : K1004870-002DUP
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	0.031	0.031	0.031	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/14/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : BH-7 Units : mg/L
 Lab Code : K1004870-002MS K1004870-002DMS 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	0.031	0.218	0.415	94	96	81-119	2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/14/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1004870-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	
Orthophosphate as Phosphorus	NONE	365.3	3.57	3.44	96	89-118	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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	5/14/2010	0.500	0.488	98
CCV2 Result	5/14/2010	0.500	0.486	97

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1004870
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	5/14/2010	0.010	ND
CCB2 Result	5/14/2010	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 : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	9.0	3.0	1	05/18/10	223	
BH-7	K1004870-002	9.0	3.0	1	05/18/10	214	
BH-15	K1004870-003	9.0	3.0	1	05/18/10	360	
4aad	K1004870-004	9.0	3.0	1	05/18/10	118	
SW-8	K1004870-005	9.0	3.0	1	05/21/10	230	
Method Blank	K1004870-MB	9.0	3.0	1	05/18/10	ND	
Method Blank	K1004870-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 : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/21/10

Duplicate Summary
 Inorganic Parameters

Sample Name : SW-8
 Lab Code : K1004870-005DUP
 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	230	233	232	1	

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 : K1004870
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 : K1004870-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	70.1	103	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 : K1004870
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 : K1004870-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
Alkalinity as CaCO ₃ , 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.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : WATER

Service Request : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	9.0	3.0	1	05/18/10	223	
BH-7	K1004870-002	9.0	3.0	1	05/18/10	214	
BH-15	K1004870-003	9.0	3.0	1	05/18/10	360	
4aad	K1004870-004	9.0	3.0	1	05/18/10	118	
SW-8	K1004870-005	9.0	3.0	1	05/21/10	230	
Method Blank	K1004870-MB	9.0	3.0	1	05/21/10	ND	
Method Blank	K1004870-MB	9.0	3.0	1	05/18/10	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 : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/21/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-8
Lab Code : K1004870-005DUP
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 CaCO3	SM 2320 B	9.0	230	233	232	1	

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 : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	9.0	3.0	1	05/18/10	ND	
BH-7	K1004870-002	9.0	3.0	1	05/18/10	ND	
BH-15	K1004870-003	9.0	3.0	1	05/18/10	ND	
4aad	K1004870-004	9.0	3.0	1	05/18/10	ND	
SW-8	K1004870-005	9.0	3.0	1	05/21/10	ND	
Method Blank	K1004870-MB	9.0	3.0	1	05/21/10	ND	
Method Blank	K1004870-MB	9.0	3.0	1	05/18/10	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 : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/21/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-8
Lab Code : K1004870-005DUP
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 : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	9.0	3.0	1	05/18/10	ND	
BH-7	K1004870-002	9.0	3.0	1	05/18/10	ND	
BH-15	K1004870-003	9.0	3.0	1	05/18/10	ND	
4aad	K1004870-004	9.0	3.0	1	05/18/10	ND	
SW-8	K1004870-005	9.0	3.0	1	05/21/10	ND	
Method Blank	K1004870-MB	9.0	3.0	1	05/21/10	ND	
Method Blank	K1004870-MB	9.0	3.0	1	05/18/10	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 : K1004870
Date Collected : 5/13/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/21/10

Duplicate Summary
Inorganic Parameters

Sample Name : SW-8
Lab Code : K1004870-005DUP
Test Notes :

Units : mg/L
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Duplicate Sample 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 : K1004870
Date Collected : 05/12,13/10
Date Received : 05/14/10

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
BH-6	K1004870-001	5.0	5.0	1	05/18/10	210	
BH-7	K1004870-002	5.0	5.0	1	05/18/10	230	
BH-15	K1004870-003	5.0	5.0	1	05/18/10	465	
4aad	K1004870-004	5.0	5.0	1	05/18/10	198	
SW-8	K1004870-005	5.0	5.0	1	05/18/10	759	
Method Blank	K1004870-MB	5.0	5.0	1	05/18/10	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 : K1004870
Date Collected : 5/12/2010
Date Received : 5/14/2010
Date Prepared : NA
Date Analyzed : 05/18/10

Duplicate Summary
Inorganic Parameters

Sample Name : BH-6
Lab Code : K1004870-001DUP
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	210	219	215	4	

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 : K1004870
Date Collected : NA
Date Received : NA
Date Prepared : NA
Date Analyzed : 05/18/10

Laboratory Control Sample Summary
Inorganic Parameters

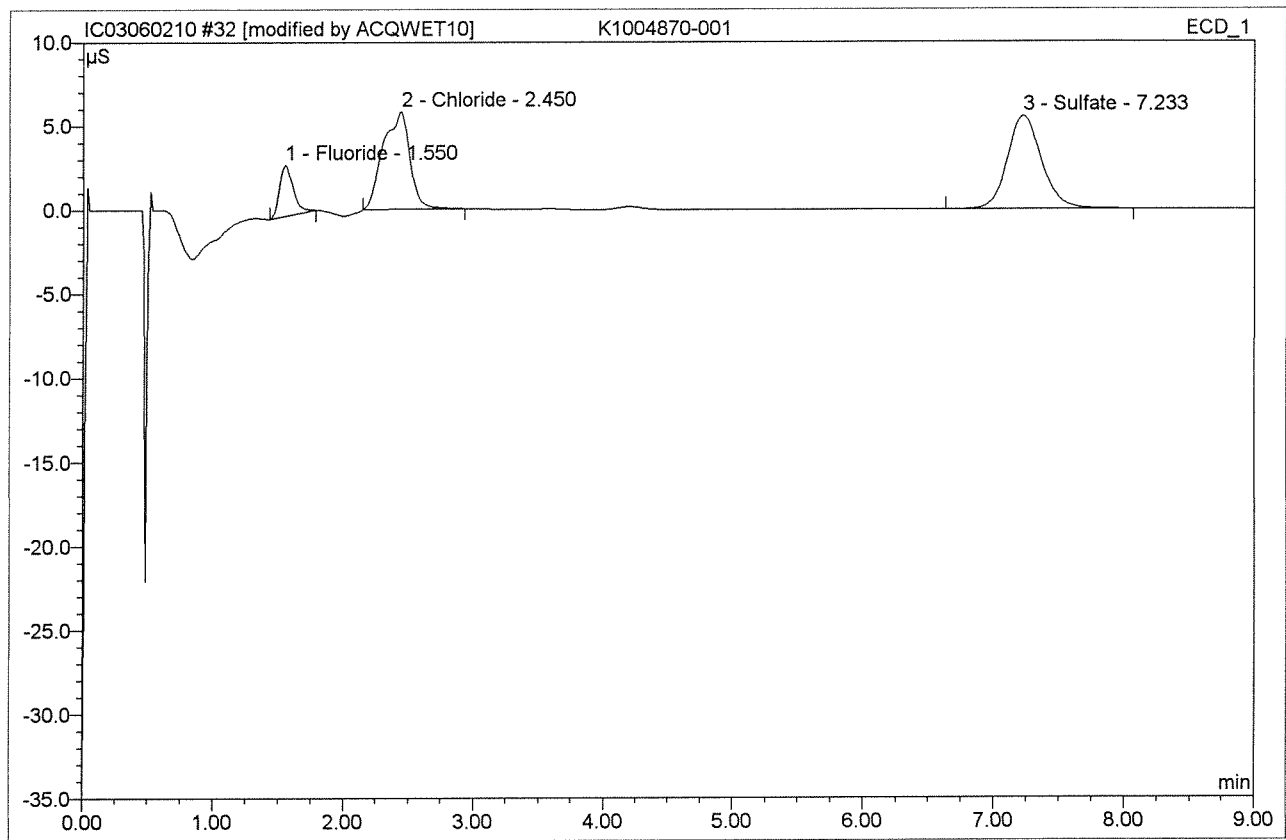
Sample Name : Lab Control Sample
Lab Code : K1004870-LCS
Test Notes :

Units : mg/L
Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Solids, Total Dissolved	NONE	SM 2540 C	750	730	97	83-117	

SM Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998.

32 K1004870-001			
Sample Name:	K1004870-001	Injection Volume:	200.0
Vial Number:	30	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 13:41	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	1.55	Fluoride	3.033	0.366	10.70	0.383	BMB*
2	2.45	Chloride	5.775	1.379	40.34	1.769	BMB*
3	7.23	Sulfate	5.541	1.674	48.95	3.402	BMB
Total:			14.349	3.419	100.00	5.553	

After Initials MB

JUN 02 2010

Handwritten signature and date: MB 6/4/10

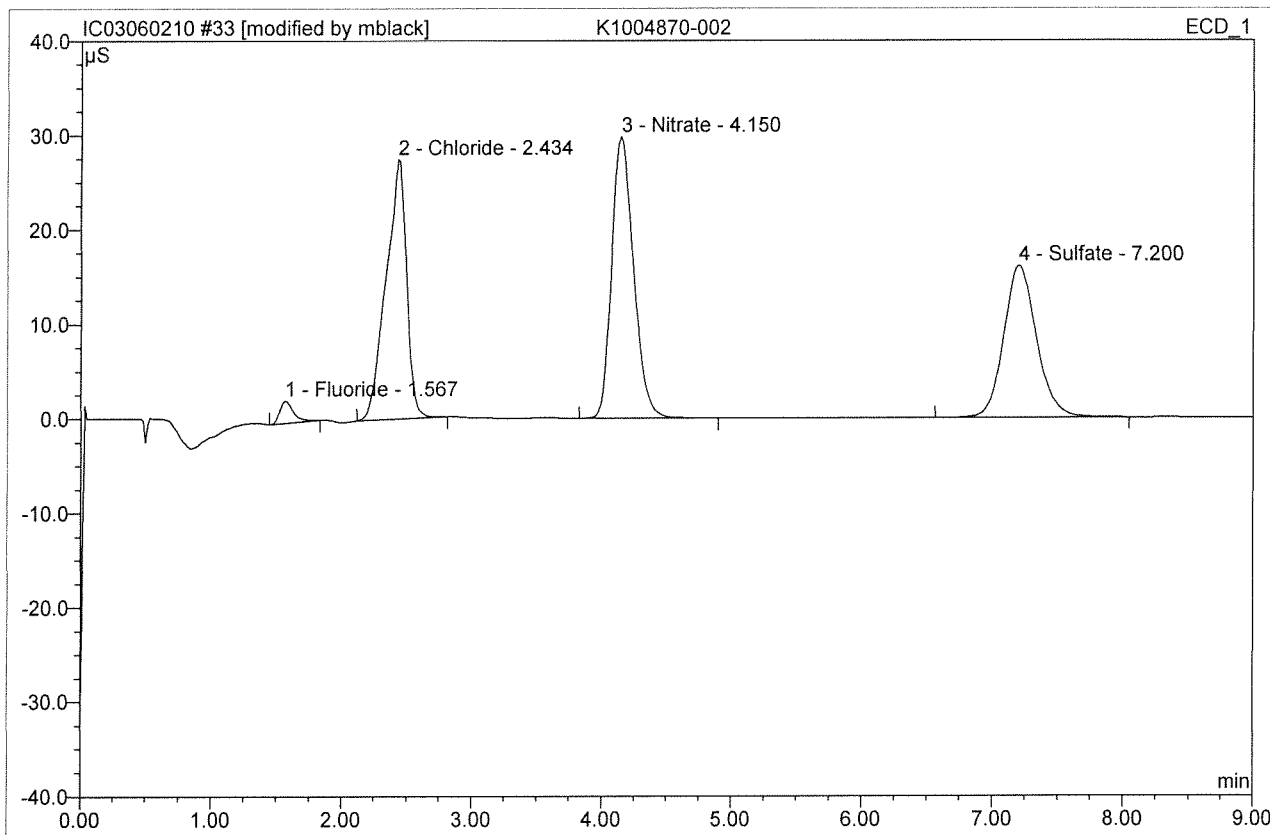
default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other _____

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

33 K1004870-002

Sample Name:	K1004870-002	Injection Volume:	200.0
Vial Number:	31	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 13:53	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	1.57	Fluoride $\bar{x}=0.30$ $RD < 1\%$	2.400	0.289	1.83	0.302	BMB*
2	2.43	Chloride $\bar{x}=6.50$ $RD > 2\%$	27.441	5.004	31.70	6.417	BMB*
3	4.15	Nitrate	29.812	5.816	36.84	3.158	BMB
4	7.20	Sulfate $\bar{x}=9.51$ $RD < 1\%$	16.090	4.677	29.63	9.506	BMB
Total:			75.743	15.786	100.00	19.383	

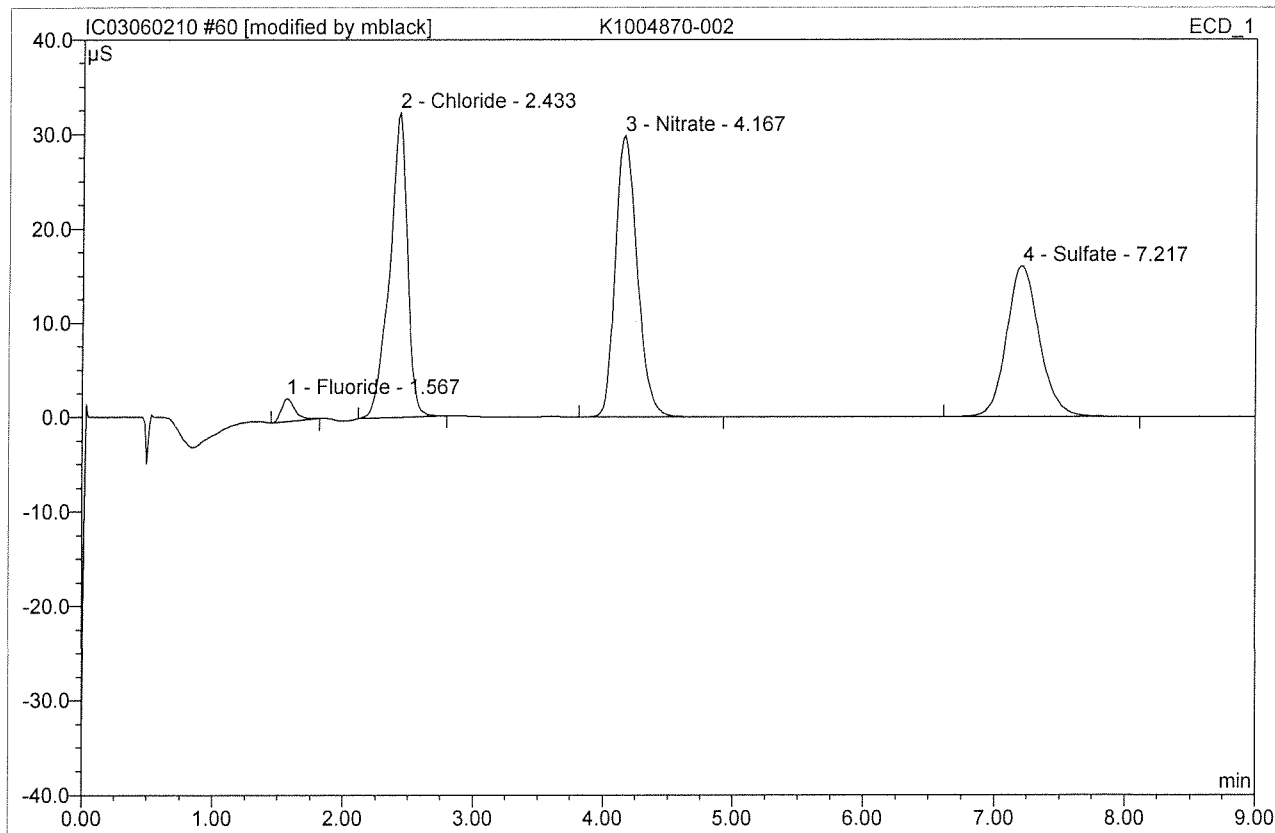
After Initials

MB

JUN 02 2010

MB 6/4/10

60 K1004870-002			
4870-2D			
Sample Name:	K1004870-002	Injection Volume:	200.0
Vial Number:	58	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 19:22	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



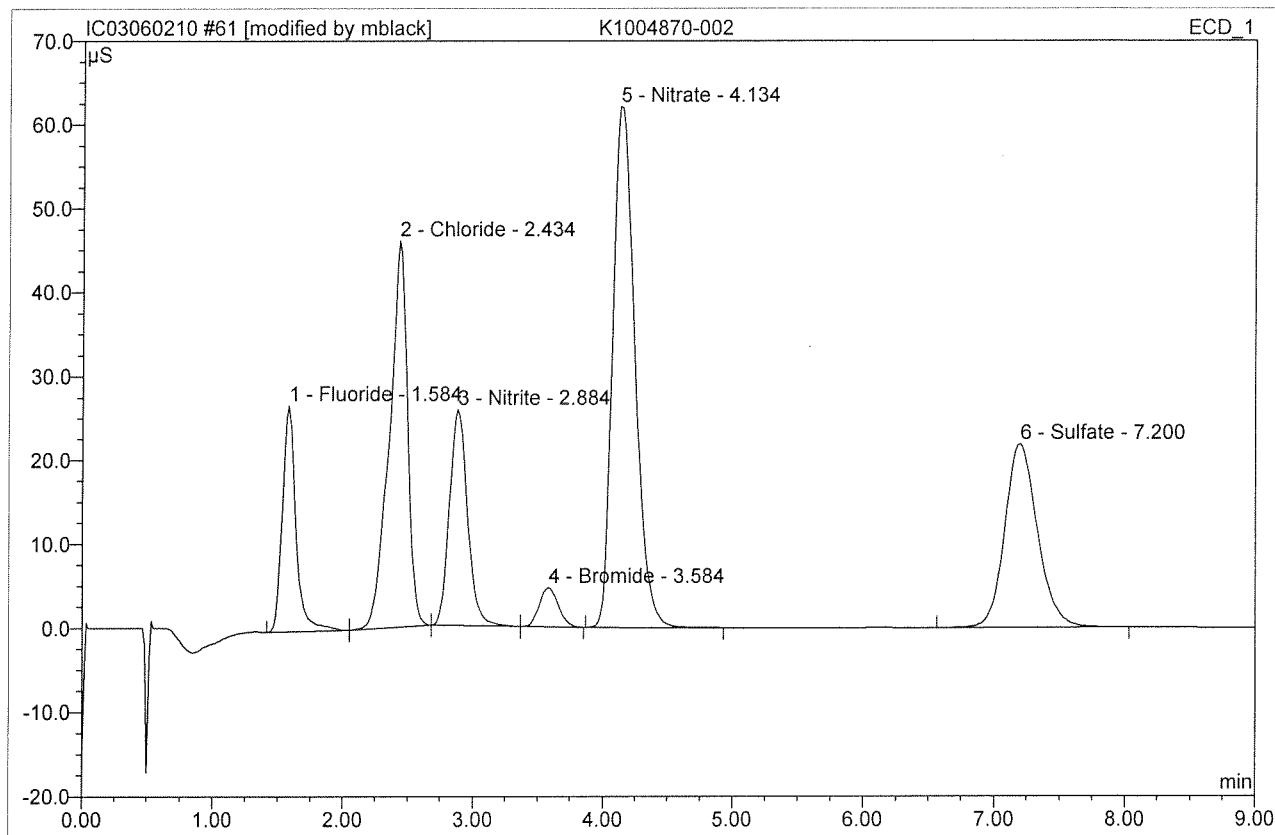
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.57	Fluoride	2.449	0.288	1.81	0.301	BMB*
2	2.43	Chloride	32.300	5.129	32.17	6.577	BMB*
3	4.17	Nitrate	29.867	5.845	36.67	3.173	BMB
4	7.22	Sulfate	16.014	4.678	29.35	9.507	BMB
Total:			80.629	15.940	100.00	19.559	

After Initials MB

Handwritten signature 6/4/10

JUN 03 2010

61 K1004870-002			
4870-2MS			
Sample Name:	K1004870-002	Injection Volume:	200.0
Vial Number:	59	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 19:34	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	26.956	3.280	9.55	3.428164?	BMb*
2	2.43	Chloride	46.022	7.473	21.76	9.583105?	bMb*
3	2.88	Nitrite	25.715	4.168	12.14	2.88796?	bMb
4	3.58	Bromide	4.664	0.789	2.30	2.94698?	bMB
5	4.13	Nitrate	62.111	12.282	35.76	6.668117?	BMB
6	7.20	Sulfate	21.901	6.356	18.50	12.917113?	BMB
Total:			187.369	34.348	100.00	38.429	

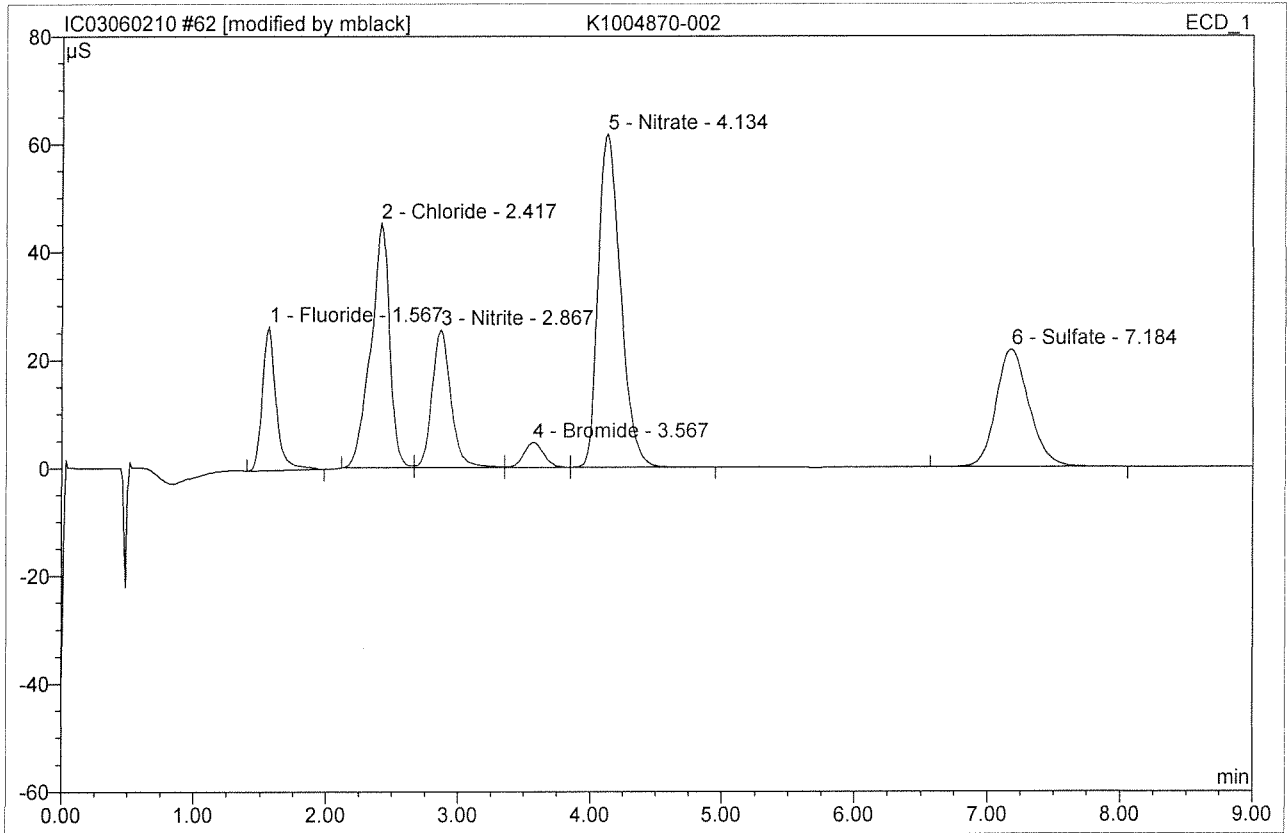
TV=3.00

After Initials MB

JUN 03 2010

MB 6/4/10

62 K1004870-002			
4870-2MSD			
Sample Name:	K1004870-002	Injection Volume:	200.0
Vial Number:	60	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 19:45	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	1.57	Fluoride	26.544	3.224	9.37	3.370162%	BMB*
2	2.42	Chloride	45.312	7.475	21.72	9.586166%	BM *
3	2.87	Nitrite	25.513	4.288	12.46	2.97099%	M *
4	3.57	Bromide	4.712	0.838	2.44	3.129104%	M *
5	4.13	Nitrate	61.879	12.248	35.60	6.650116%	MB*
6	7.18	Sulfate	21.818	6.335	18.41	12.876113%	BMB
Total:			185.778	34.408	100.00	38.580	

TV=3.00

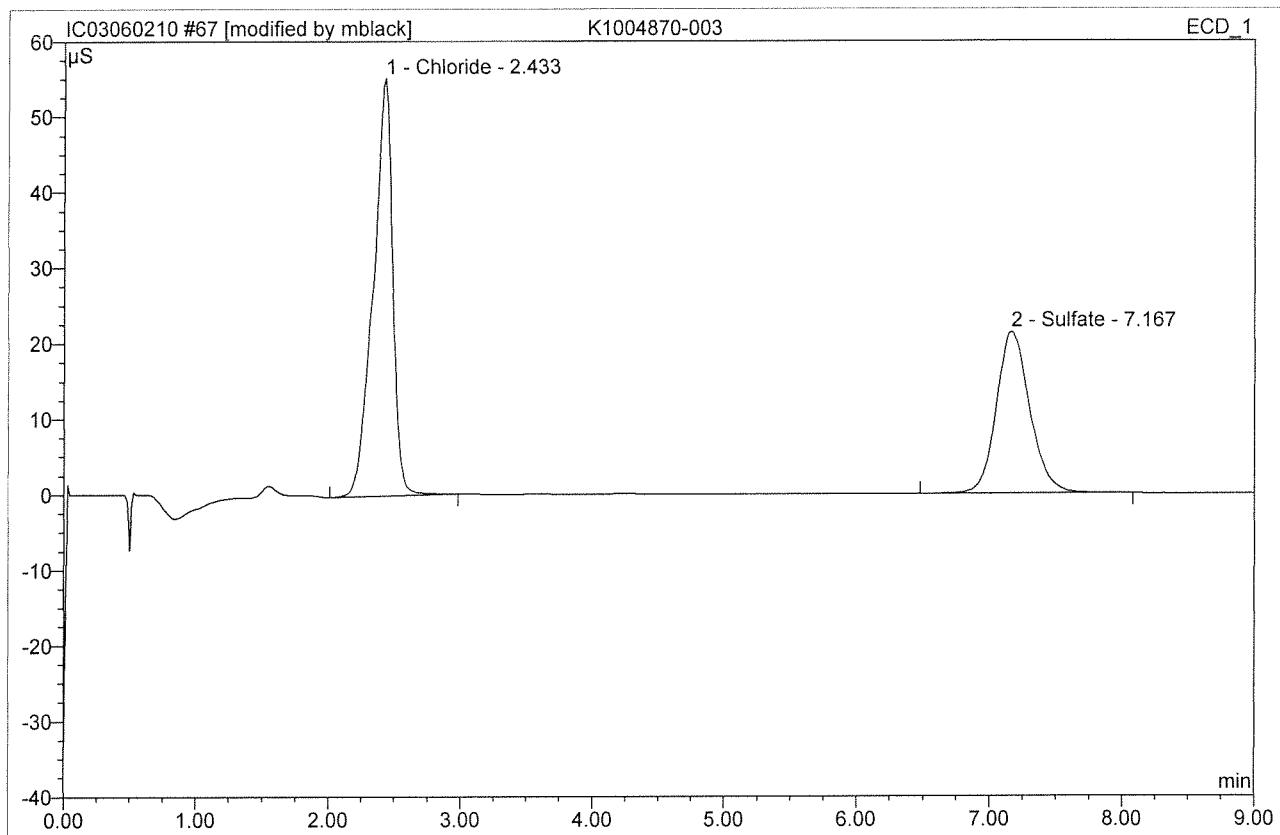
After Initials

MB

6/4/10

JUN 03 2010

67 K1004870-003			
Sample Name:	K1004870-003	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:	5.0000
Recording Time:	6/2/2010 20:43	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



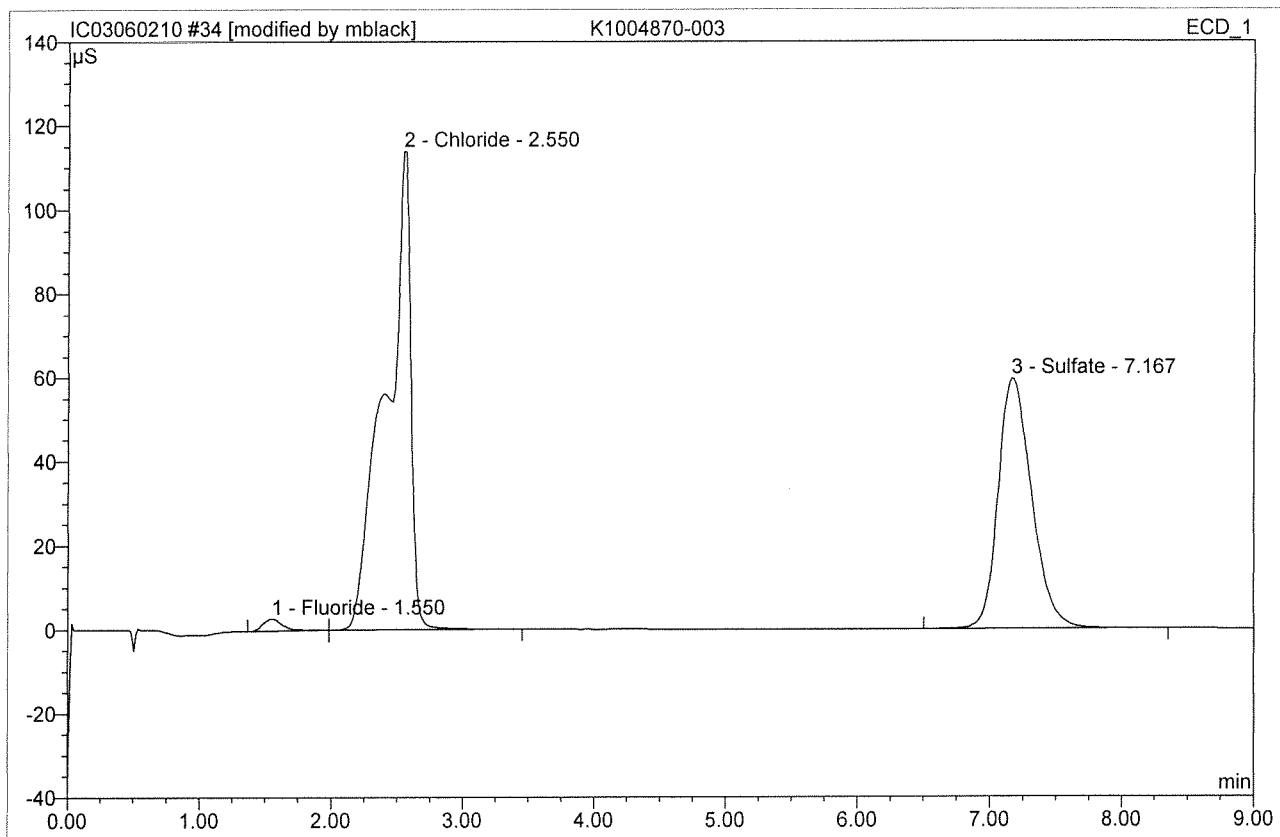
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.43	Chloride	55.253	9.453	60.22	30.307	BMB*
2	7.17	Sulfate	21.400	6.244	39.78	31.725	BMB
Total:			76.653	15.697	100.00	62.031	

After Initials MB

MB 6/4/10

JUN 03 2010

34 K1004870-003			
Sample Name:	K1004870-003	Injection Volume:	200.0
Vial Number:	32	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 14:04	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	2.904	0.520	1.20	0.543	BMb*
2	2.55	Chloride	113.869	25.130	58.14	32.227	bMB*
3	7.17	Sulfate	59.592	17.574	40.66	35.718	BMB
Total:			176.366	43.224	100.00	68.488	

After Initials

MB

6/4/10

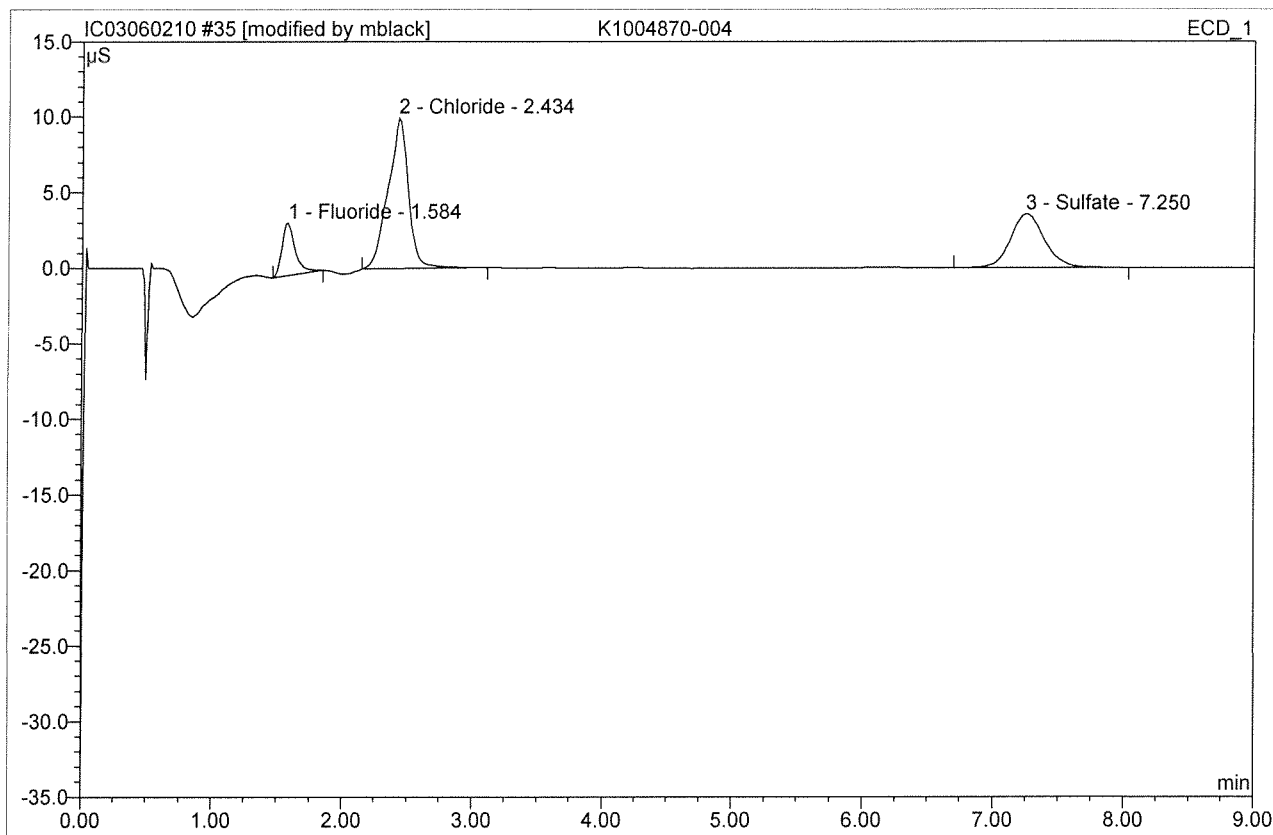
JUN 02 2010

default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other

80

35 K1004870-004			
Sample Name:	K1004870-004	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:	6/2/2010 14:16	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



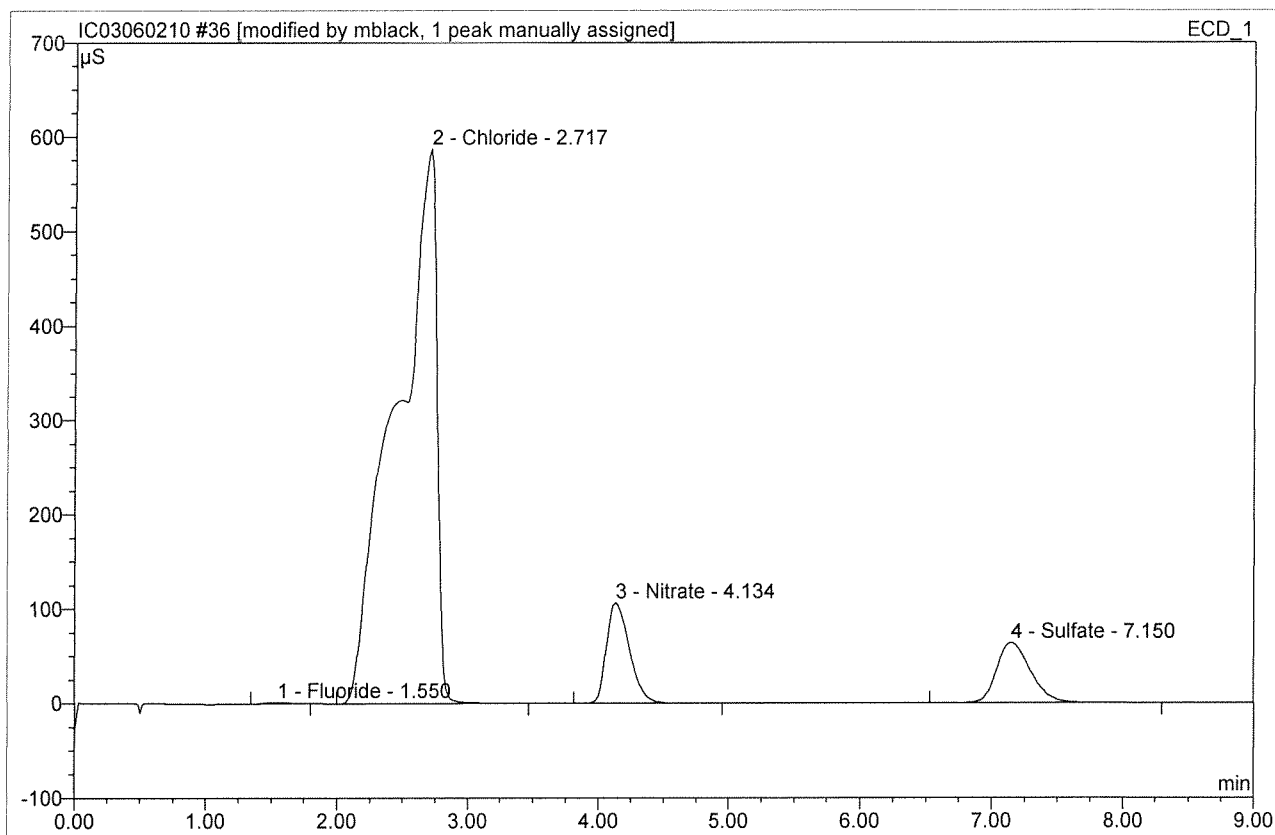
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	3.464	0.407	12.28	0.425	BMB*
2	2.43	Chloride	9.935	1.829	55.20	2.345	BMB*
3	7.25	Sulfate	3.564	1.077	32.51	2.189	BMB
Total:			16.962	3.313	100.00	4.960	

After Initials MB

BL 6/4/10

JUN 02 2010

36 K1004870-005			
Sample Name:	K1004870-005	Injection Volume:	200.0
Vial Number:	34	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 14:27	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	1.55	Fluoride	1.301	0.252	0.10	0.264	BMB*
2	2.72	Chloride	586.820	208.518	83.66	267.410	BMB^
3	4.13	Nitrate	105.941	21.521	8.63	11.684	BMB
4	7.15	Sulfate	63.619	18.962	7.61	38.538	BMB
Total:			757.681	249.253	100.00	317.895	

After Initials MB

8/6/4/10

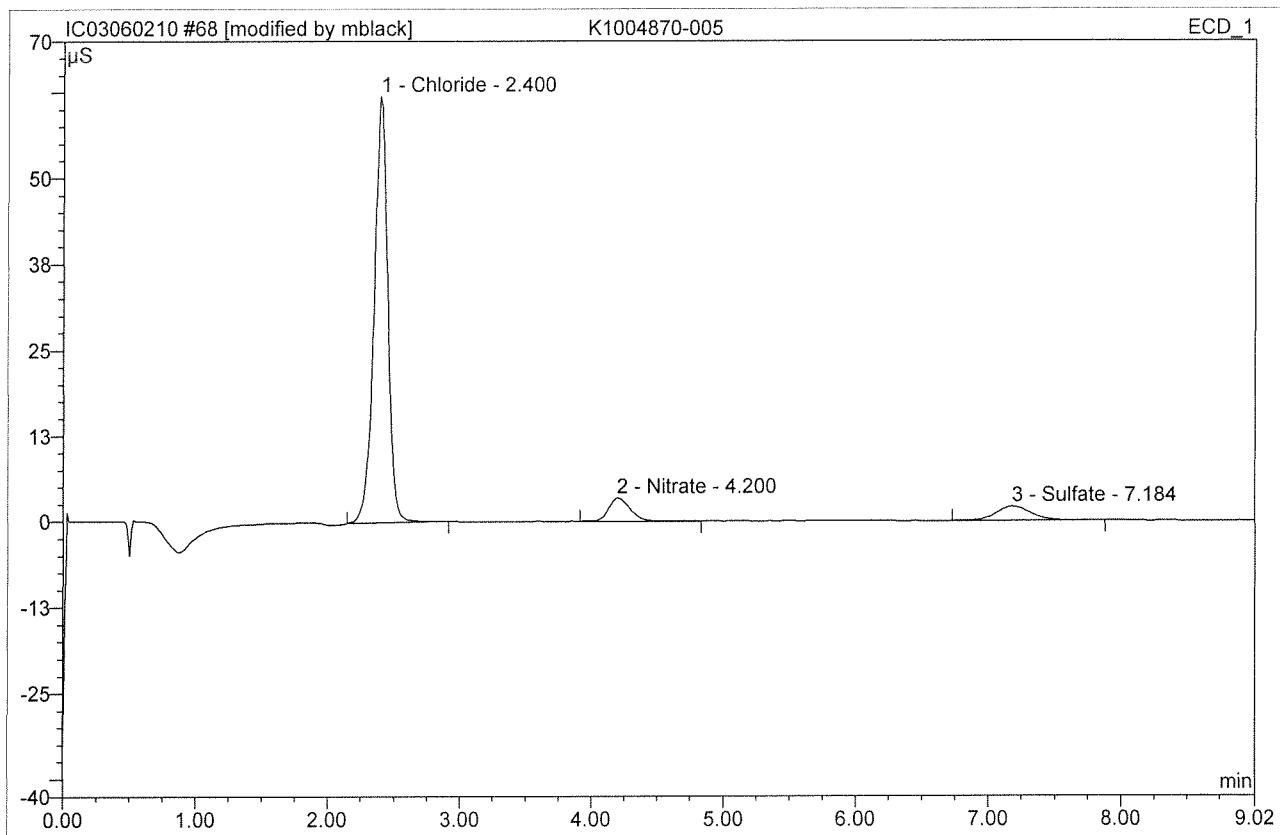
JUN 02 2010

default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect
 Other _____

Chromeleon (c) Dionex 1996-2001
Version 6.80 SP1 Build 2238

68 K1004870-005			
Sample Name:	K1004870-005	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:	50.0000
Recording Time:	6/2/2010 20:54	Sample Weight:	1.0000
Run Time (min):	9.02	Sample Amount:	1.0000



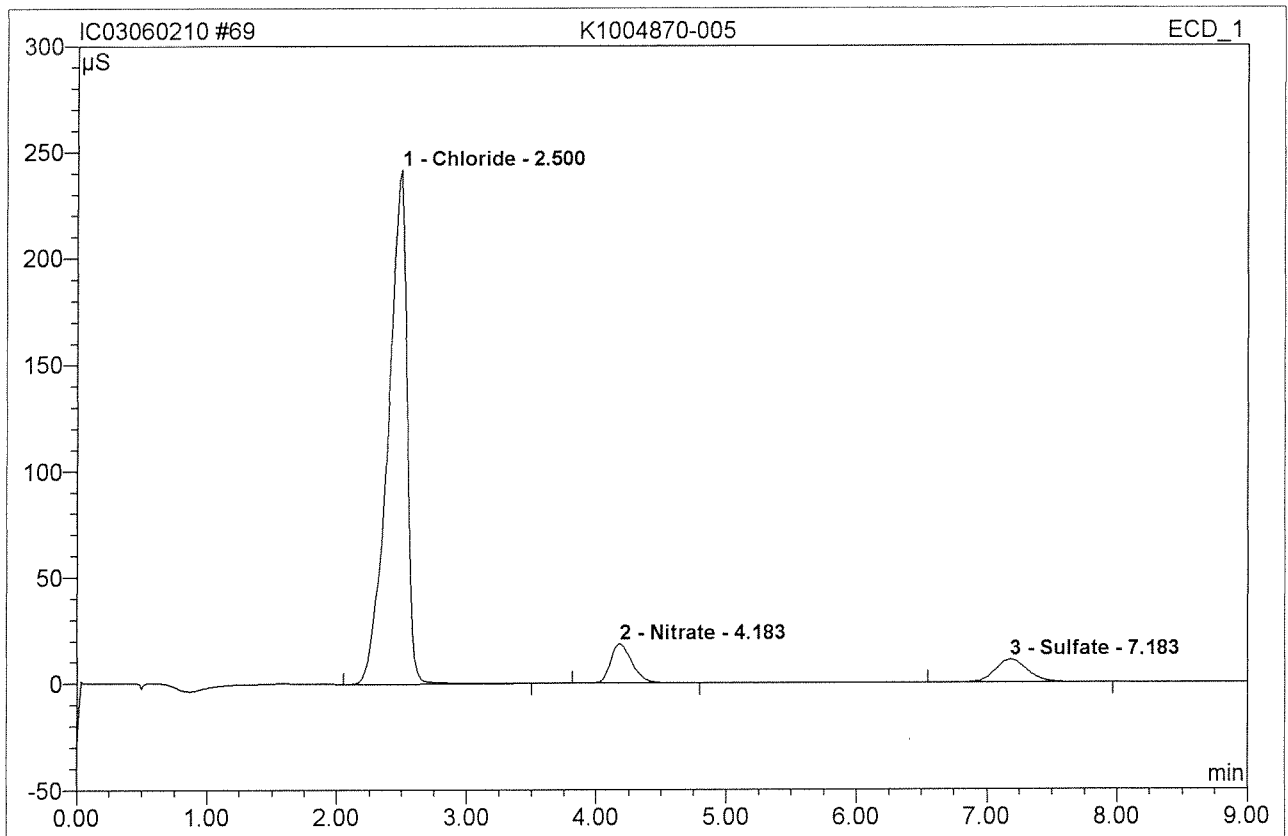
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.40	Chloride	62.152	7.457	85.48	239.081	BMB*
2	4.20	Nitrate	3.397	0.638	7.31	8.659	BMB*
3	7.18	Sulfate	2.083	0.628	7.20	31.925	BMB
Total:			67.632	8.723	100.00	279.666	

After Initials MB

6/4/10

JUN 03 2010

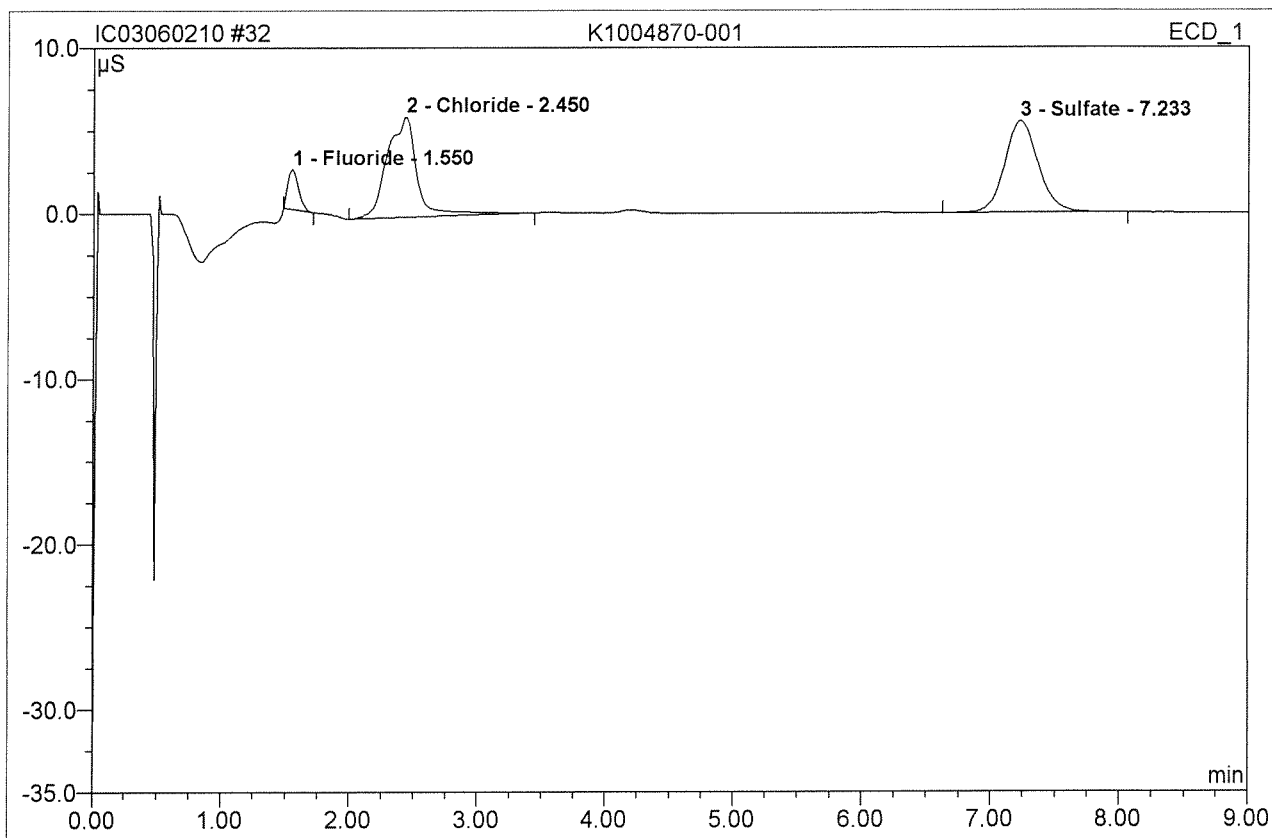
69 K1004870-005			
Sample Name:	K1004870-005	Injection Volume:	200.0
Vial Number:	67	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	6/2/2010 21:06	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.50	Chloride	241.763	40.781	85.90	261.496	BMB
2	4.18	Nitrate	18.512	3.503	7.38	9.510	BMB
3	7.18	Sulfate	10.864	3.193	6.73	32.447	BMB
Total:			271.139	47.478	100.00	303.453	

6/4/10

32 K1004870-001			
<i>Sample Name:</i>	K1004870-001	<i>Injection Volume:</i>	200.0
<i>Vial Number:</i>	30	<i>Channel:</i>	ECD_1
<i>Sample Type:</i>	unknown	<i>Wavelength:</i>	n.a.
<i>Control Program:</i>	epa300	<i>Bandwidth:</i>	n.a.
<i>Quantif. Method:</i>	epa300	<i>Dilution Factor:</i>	2.0000
<i>Recording Time:</i>	6/2/2010 13:41	<i>Sample Weight:</i>	1.0000
<i>Run Time (min):</i>	9.00	<i>Sample Amount:</i>	1.0000

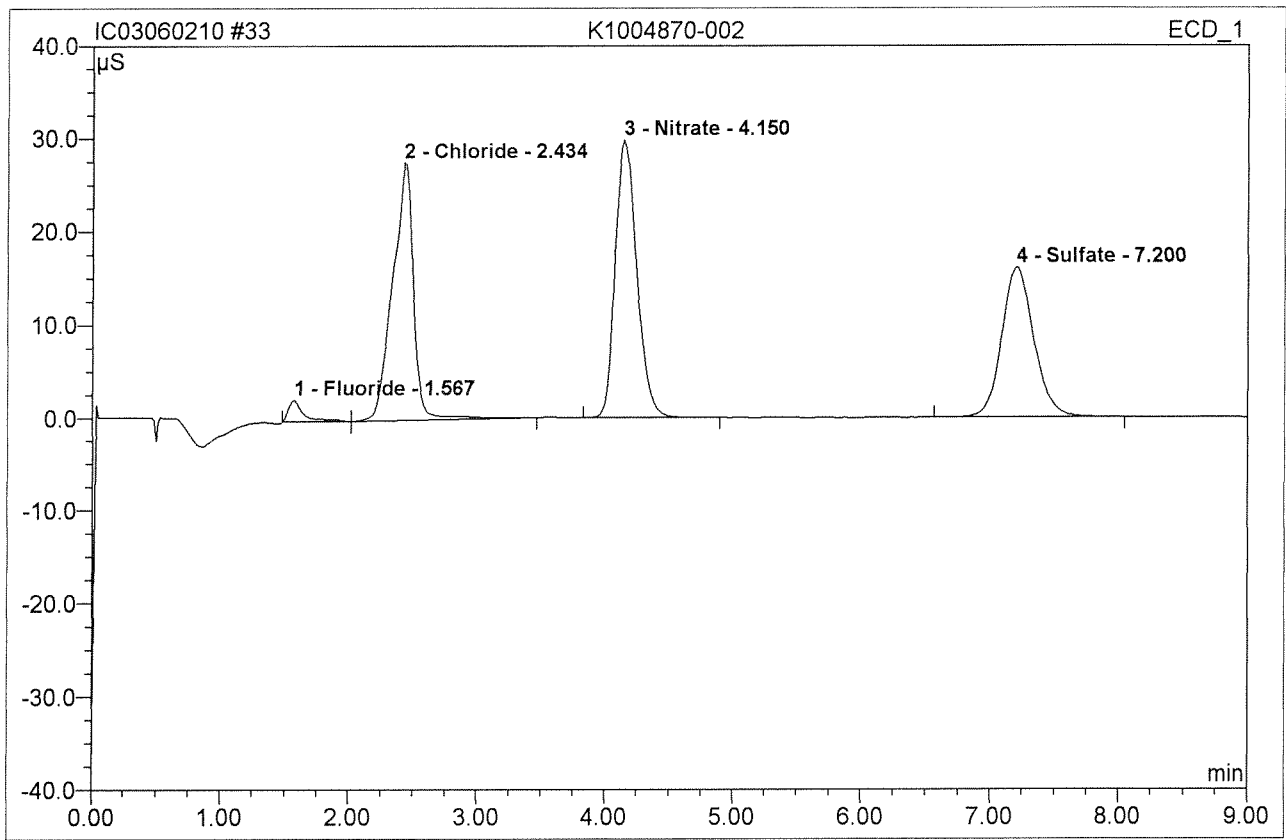


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.55	Fluoride	2.405	0.234	6.57	0.244	BMB
2	2.45	Chloride	6.056	1.647	46.33	2.112	BMB
3	7.23	Sulfate	5.541	1.674	47.09	3.402	BMB
Total:			14.003	3.554	100.00	5.758	

Before

JUN 02 2010

33 K1004870-002			
Sample Name:	K1004870-002	Injection Volume:	200.0
Vial Number:	31	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 13:53	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000



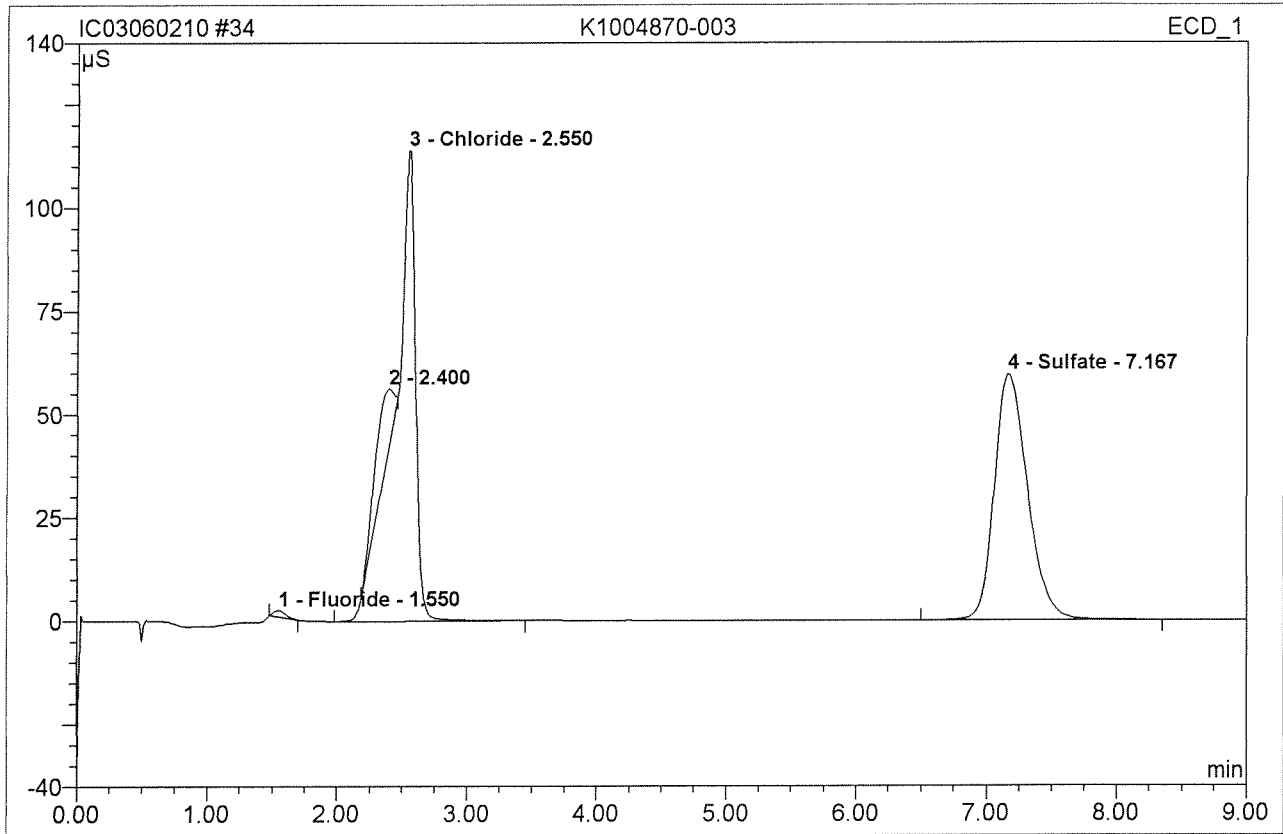
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.57	Fluoride	2.349	0.337	2.09	0.353	BMB
2	2.43	Chloride	27.702	5.285	32.80	6.778	bMB
3	4.15	Nitrate	29.812	5.816	36.09	3.158	BMB
4	7.20	Sulfate	16.090	4.677	29.02	9.506	BMB
Total:			75.953	16.116	100.00	19.794	

Before

JUN 02 2010

34 K1004870-003

Sample Name:	K1004870-003	Injection Volume:	200.0
Vial Number:	32	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 14:04	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

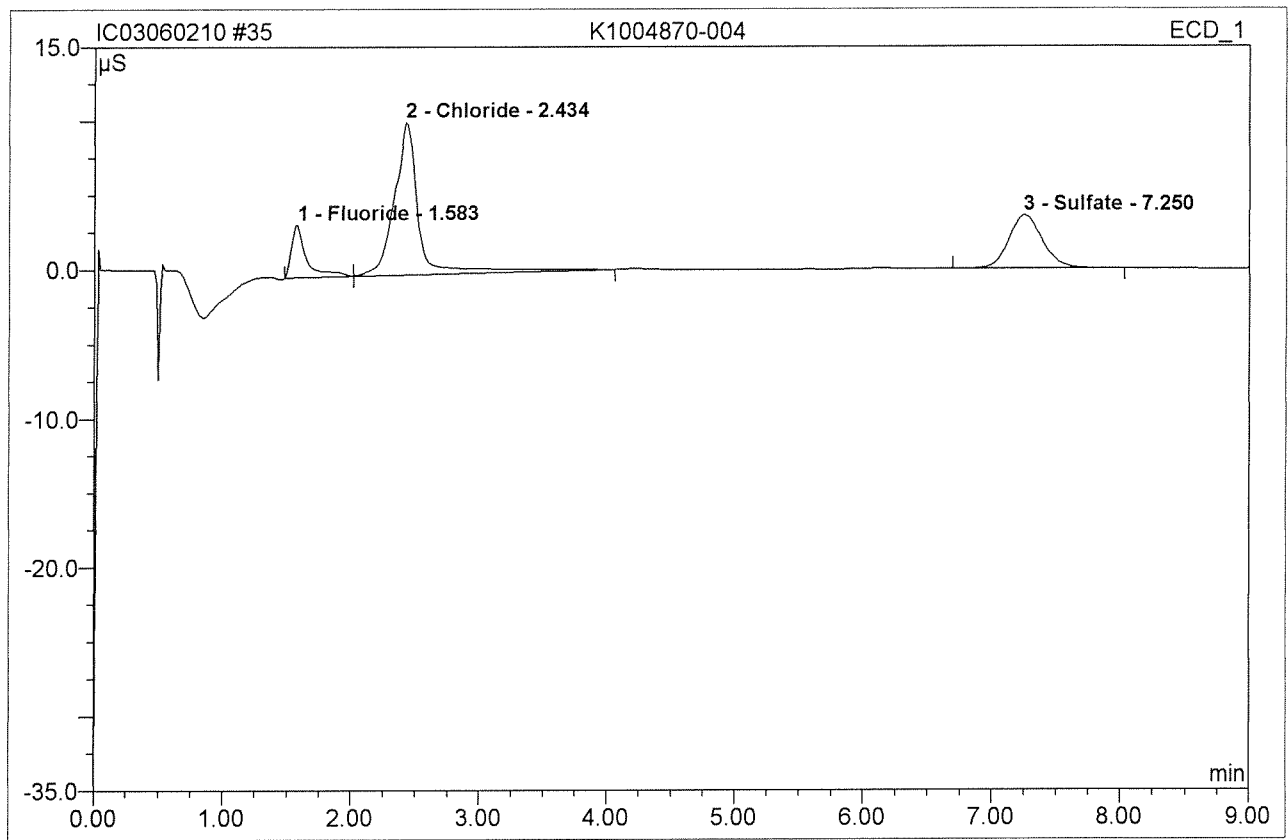


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.55	Fluoride	1.506	0.164	0.38	0.172	BMB
2	2.40	n.a.	13.462	2.853	6.66	n.a.	Ru
3	2.55	Chloride	113.869	22.277	51.97	28.568	BMB
4	7.17	Sulfate	59.592	17.574	41.00	35.718	BMB
Total:			188.429	42.869	100.00	64.458	

Before

JUN 02 2010

35 K1004870-004			
Sample Name:	K1004870-004	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:	6/2/2010 14:16	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

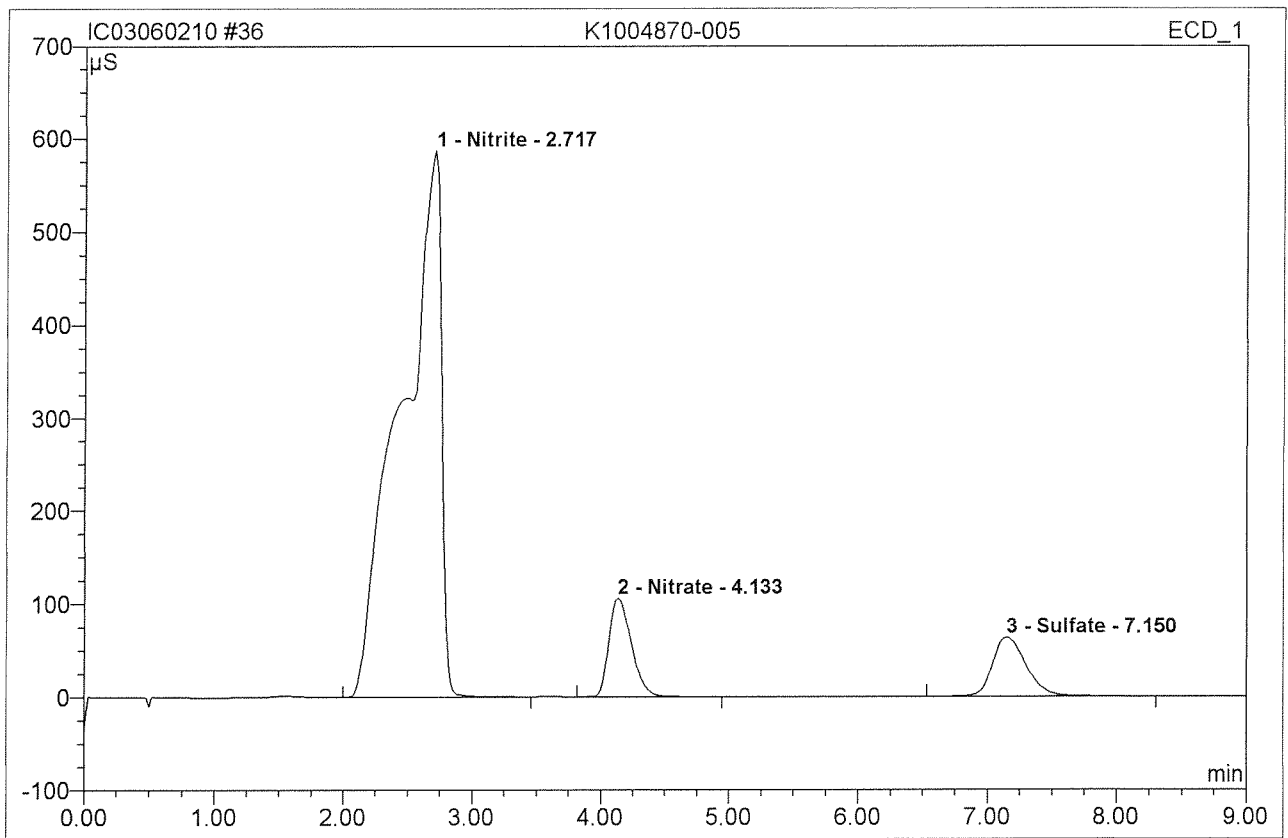


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.58	Fluoride	3.487	0.478	12.63	0.500	BM
2	2.43	Chloride	10.242	2.234	58.95	2.864	MB
3	7.25	Sulfate	3.564	1.077	28.43	2.189	BMB
Total:			17.292	3.789	100.00	5.554	

Before

JUN 02 2010

36 K1004870-005			
Sample Name:	K1004870-005	Injection Volume:	200.0
Vial Number:	34	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 14:27	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

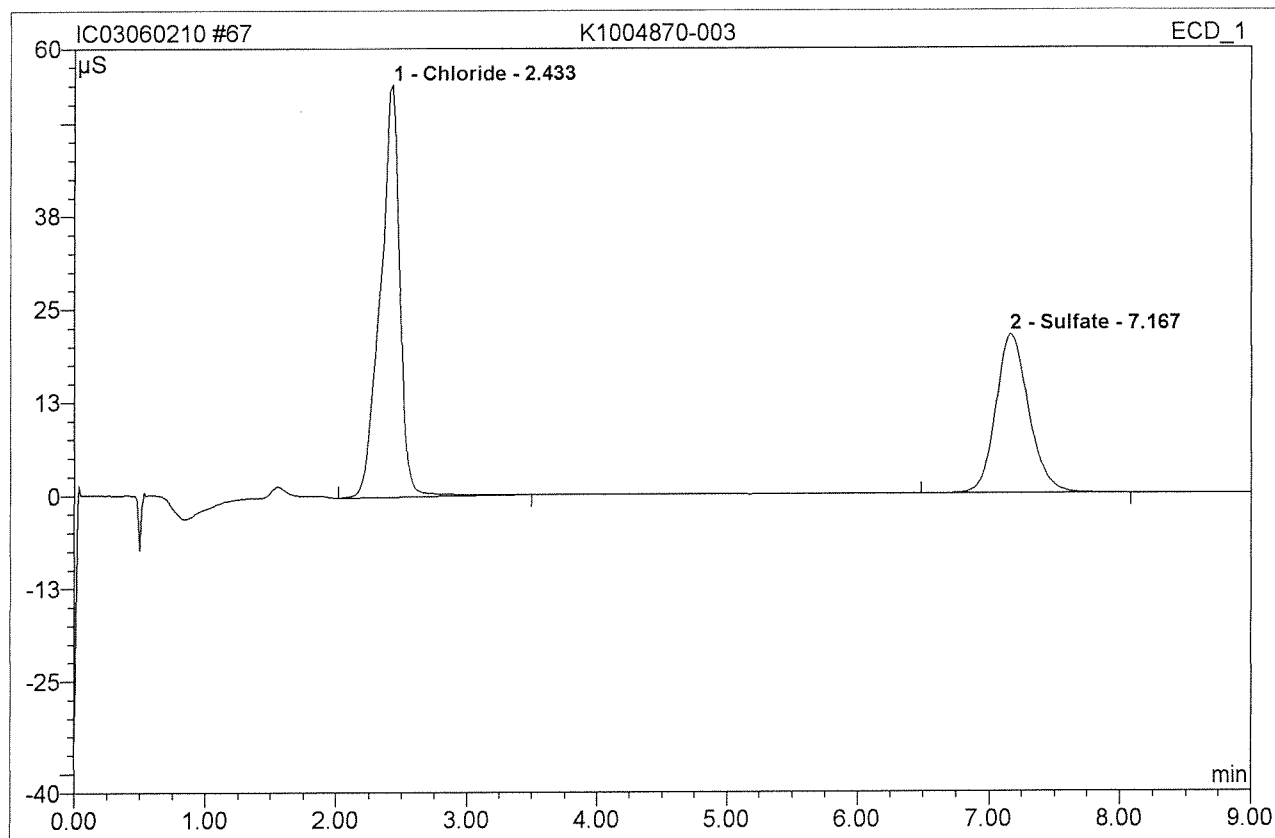


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.72	Nitrite	586.820	208.518	83.74	144.437	BMB
2	4.13	Nitrate	105.941	21.521	8.64	11.684	BMB
3	7.15	Sulfate	63.619	18.962	7.62	38.538	BMB
Total:			756.380	249.001	100.00	194.658	

Before

JUN 02 2010

67 K1004870-003			
Sample Name:	K1004870-003	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:	5.0000
Recording Time:	6/2/2010 20:43	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

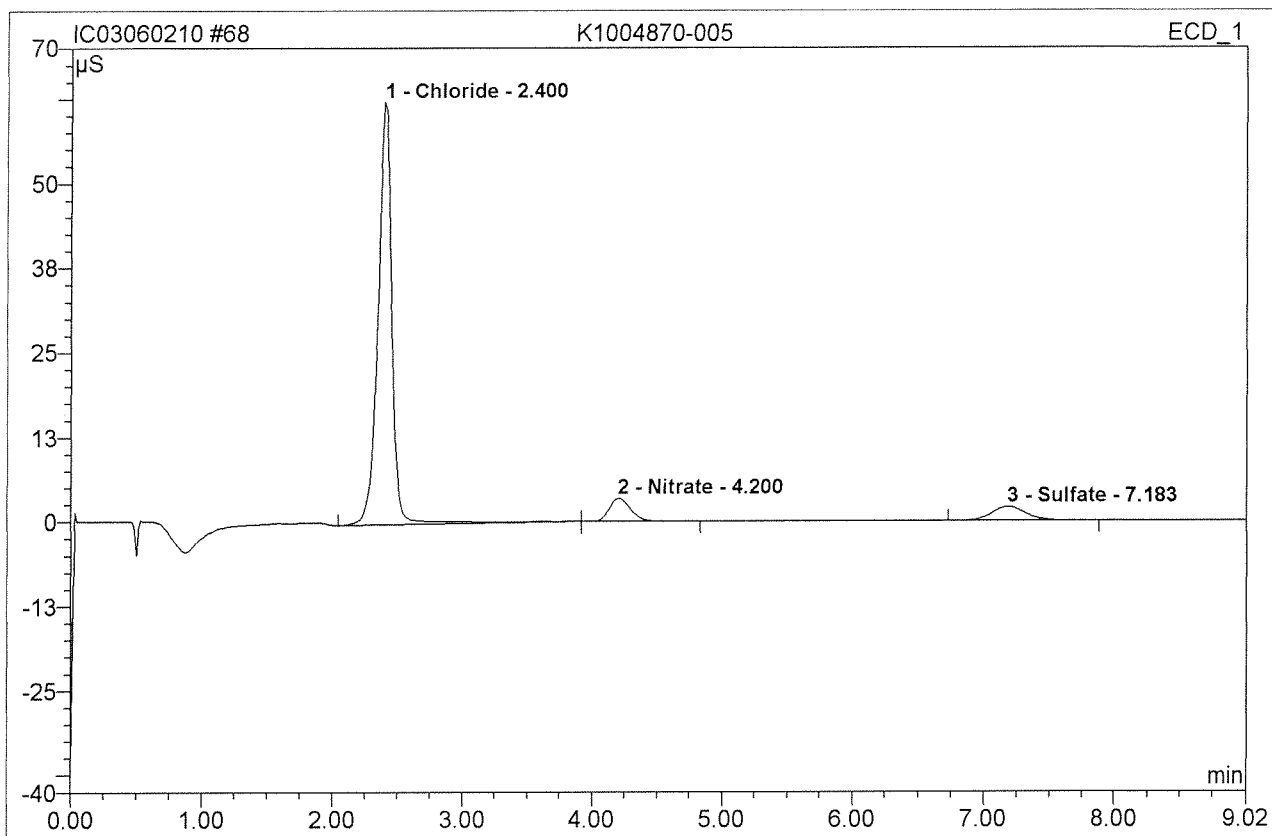


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.43	Chloride	55.333	9.580	60.54	30.715	BMB
2	7.17	Sulfate	21.400	6.244	39.46	31.725	BMB
Total:			76.733	15.824	100.00	62.440	

Before

JUN 03 2010

68 K1004870-005			
Sample Name:	K1004870-005	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:	50.0000
Recording Time:	6/2/2010 20:54	Sample Weight:	1.0000
Run Time (min):	9.02	Sample Amount:	1.0000

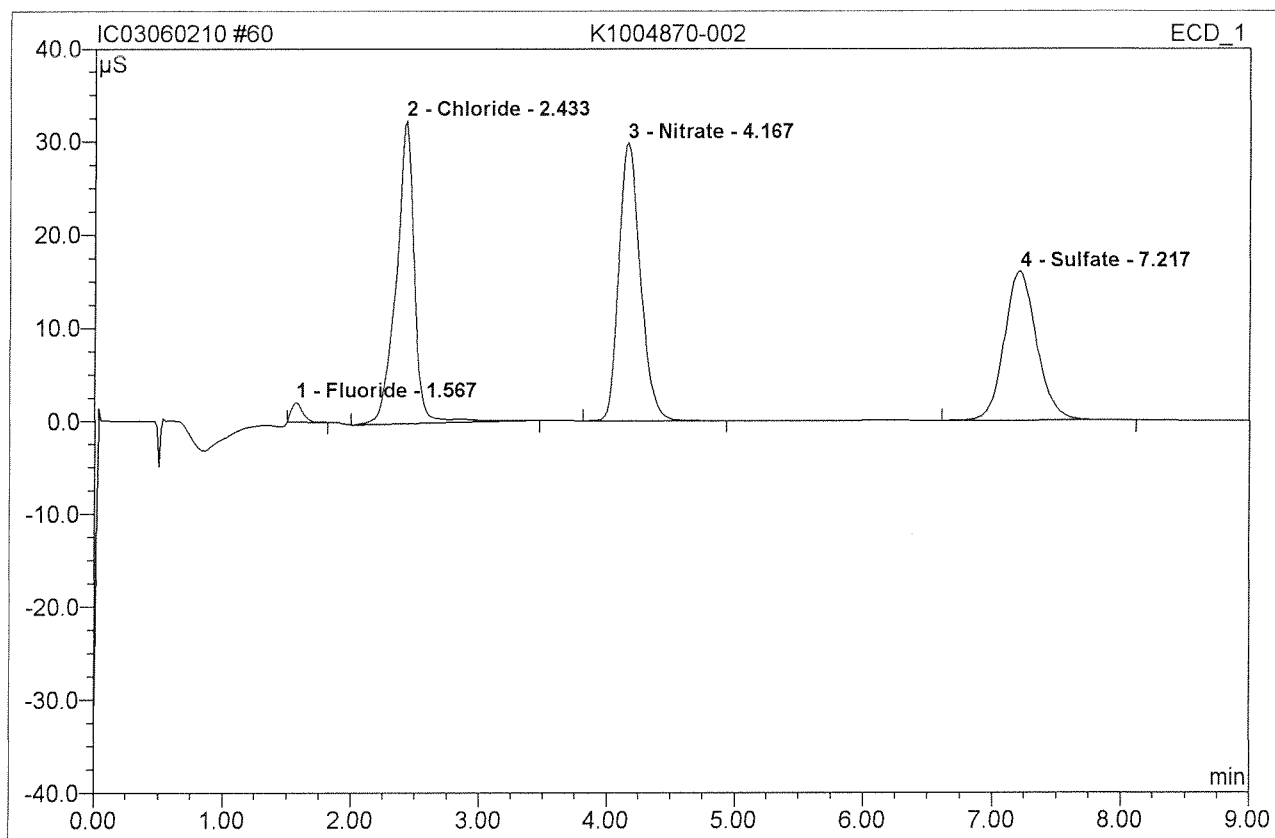


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.40	Chloride	62.433	7.833	86.08	251.128	BMB
2	4.20	Nitrate	3.397	0.638	7.01	8.659	bMB
3	7.18	Sulfate	2.083	0.628	6.91	31.925	BMB
Total:			67.913	9.099	100.00	291.713	

Before

JUN 03 2010

60 K1004870-002			
4870-2D			
Sample Name:	K1004870-002	Injection Volume:	200.0
Vial Number:	58	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 19:22	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

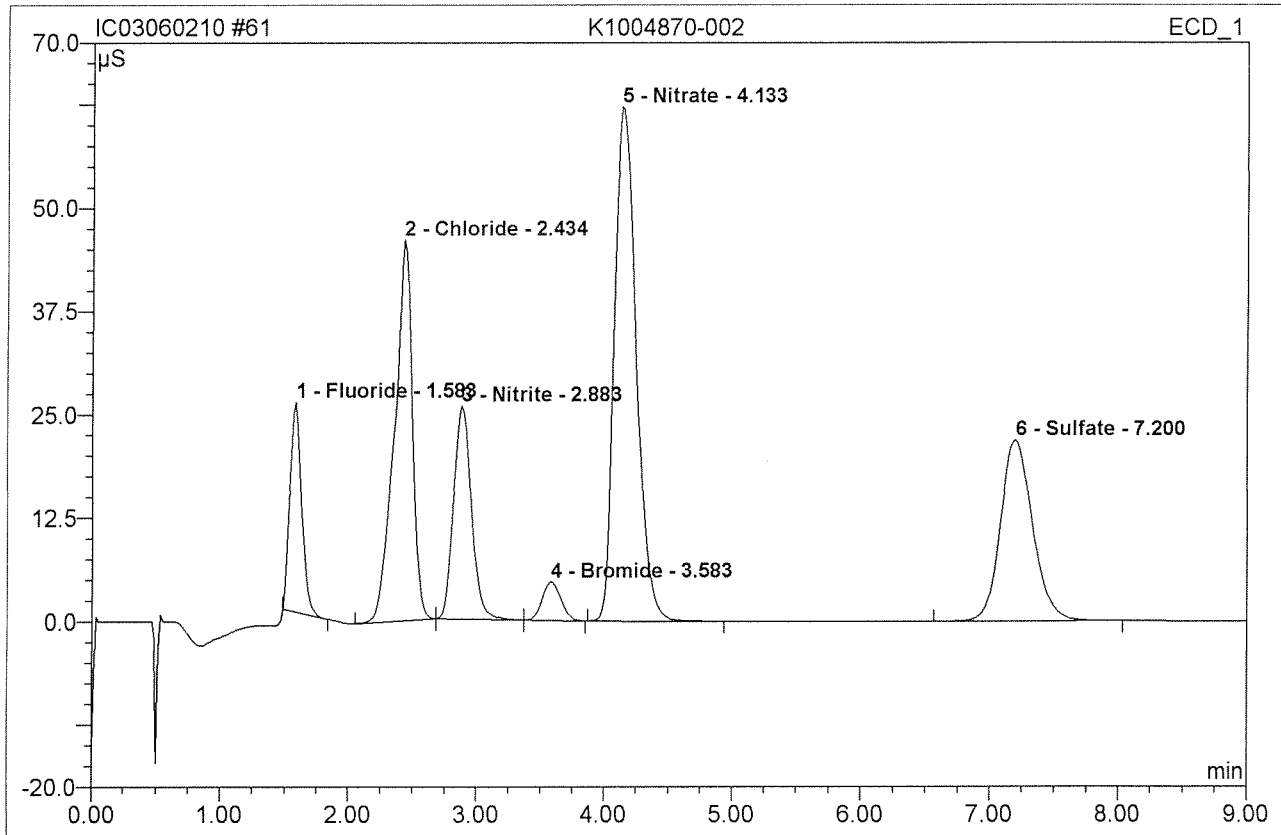


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.57	Fluoride	2.090	0.210	1.30	0.220	BMB
2	2.43	Chloride	32.576	5.425	33.57	6.957	BMB
3	4.17	Nitrate	29.867	5.845	36.18	3.173	BMB
4	7.22	Sulfate	16.014	4.678	28.95	9.507	BMB
Total:			80.547	16.158	100.00	19.857	

Before

JUN 03 2010

61 K1004870-002			
4870-2MS			
Sample Name:	K1004870-002	Injection Volume:	200.0
Vial Number:	59	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 19:34	Sample Weight:	1.0000
Run Time (min):	9.00	Sample Amount:	1.0000

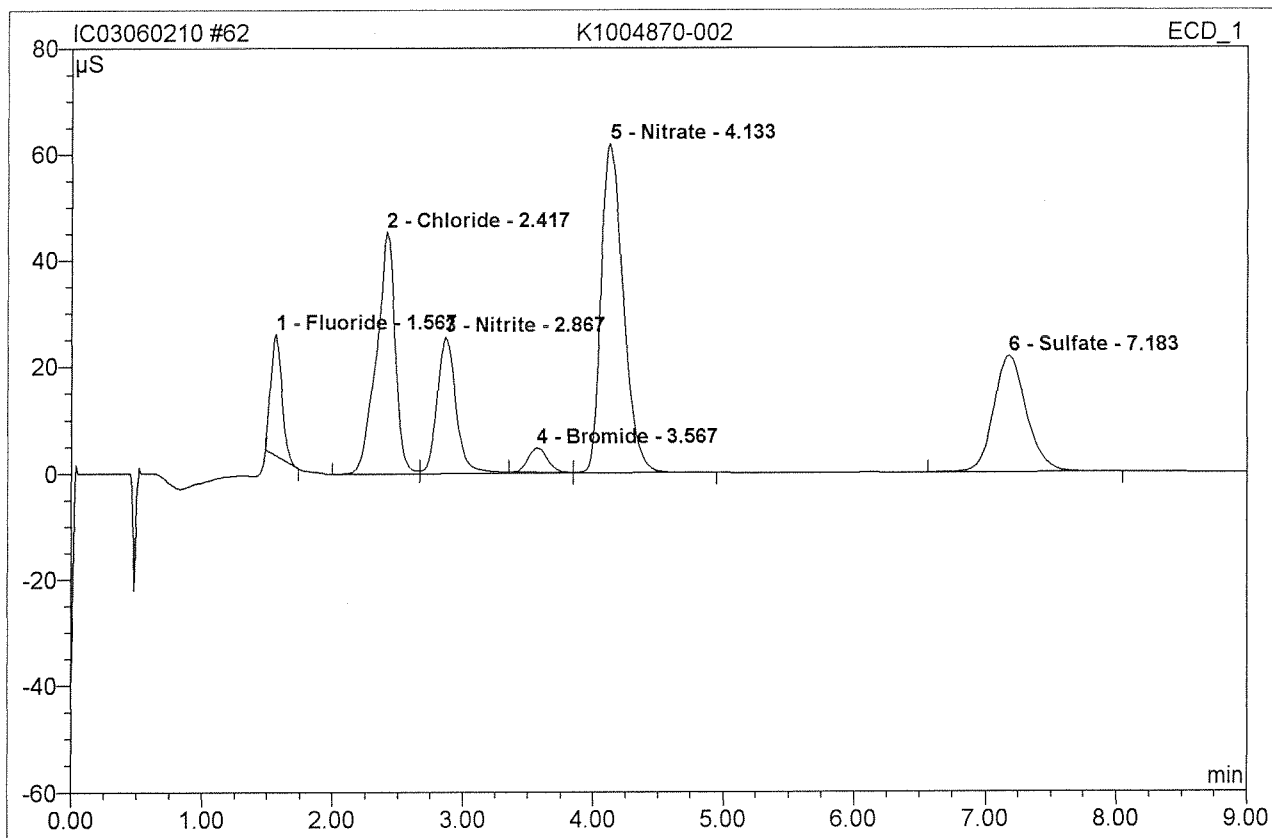


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	25.318	2.721	8.05	2.844	BMB
2	2.43	Chloride	46.022	7.473	22.12	9.583	BMB
3	2.88	Nitrite	25.715	4.168	12.34	2.887	bMb
4	3.58	Bromide	4.664	0.789	2.34	2.946	bMB
5	4.13	Nitrate	62.111	12.282	36.35	6.668	BMB
6	7.20	Sulfate	21.901	6.356	18.81	12.917	BMB
Total:			185.731	33.789	100.00	37.845	

Before

JUN 03 2010

62 K1004870-002			
4870-2MSD			
Sample Name:	K1004870-002	Injection Volume:	200.0
Vial Number:	60	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 19:45	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	1.57	Fluoride	22.831	2.231	6.61	2.332	BMB
2	2.42	Chloride	45.513	7.595	22.51	9.741	BM
3	2.87	Nitrite	25.679	4.513	13.37	3.126	M
4	3.57	Bromide	4.574	0.773	2.29	2.884	Rd
5	4.13	Nitrate	61.944	12.297	36.44	6.676	MB
6	7.18	Sulfate	21.818	6.335	18.78	12.876	BMB
Total:			182.360	33.743	100.00	37.634	

Before

JUN 03 2010

12

Sequence # IL03060210

Ion Chromatography Data Quality Report
Inorganics

Run # 203208

- 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>10/25/10</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>10/25/10</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>10/25/10</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-20-DD</u>	Expires: <u>6/2/10</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 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: (MS) Date: 6/2/10

First Review: (MS) Date: 6/2/10

Final Review: _____ Date: 6/4/10

t:\wetlic\icdqs.xls

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K4814-3	III				F				
Exponent					CL		0.25/5		✓
					NO2				
					Br				
					NO3				
					SO4				
K5600-1	I		6/3	6/13	F				
Dale McGhee					CL				
					NO2				
					Br				
					NO3	2.5/5			✓
					SO4				
K5112-1	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				✓
K4870-1	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		1/5		✓

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K 4870-4	III			6/5	F	2.5/5			✓
(MIX) -5					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4				
					F	2.5/5			✓
					CL	}	0.1/5.		✓
					NO2				
					Br				
					NO3				
					SO4			0.5/5.	
K 4348-1					F	2.5/5			✓
P.G.E					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4				
K 7934-1	III			6/6	F	2.5/5			✓
Exponent (MIX)					CL	}	0.5/5.		✓
					NO2				
					Br				
					NO3				
					SO4			0.5/5.	
					F	2.5/5			✓
					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4			0.5/5.	
					F	2.5/5			✓
					CL	}	0.1/5.		✓
					NO2				
					Br				
					NO3				
					SO4			0.5/5.	
					F	2.5/5			✓
					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4				
					F	2.5/5			✓
					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4				
					F	2.5/5			✓
					CL	}			✓
					NO2				
					Br				
					NO3				
					SO4				

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			✓
					(F) (CL) NO2 Br (NO3) SO4	2.5/5			✓
					(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			✓
					(F) (CL) NO2 Br (NO3) SO4	2.5/5			✓
K5251-2	III			6/7	F (CL) NO2 Br NO3 SO4		0.5/5		✓
					(F) (CL) NO2 Br NO3 SO4		0.5/5		✓

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K 5214-1	I			5/28	F CL NO2 Br NO3 SO4	0.5/5			
CAL Portland (Rash)									
K 5249-1	II			6/7	F CL NO2 Br NO3 SO4	2.5/5			✓
Alcon									
					F CL NO2 Br NO3 SO4	2.5/5			✓
K 5533-1	II			6/8	F CL NO2 Br NO3 SO4	1/5			✓
Barr									
					F CL NO2 Br NO3 SO4	1/5			✓
					F CL NO2 Br NO3 SO4	1/200			✓
					F CL NO2 Br NO3 SO4	1/5			
					F CL NO2 Br NO3 SO4	2.5/5			✗
K 4856-1					F CL NO2 Br NO3 SO4				
Confirmation only									
					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: IC03060210
 Operator: mblack

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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

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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/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-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

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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

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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

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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

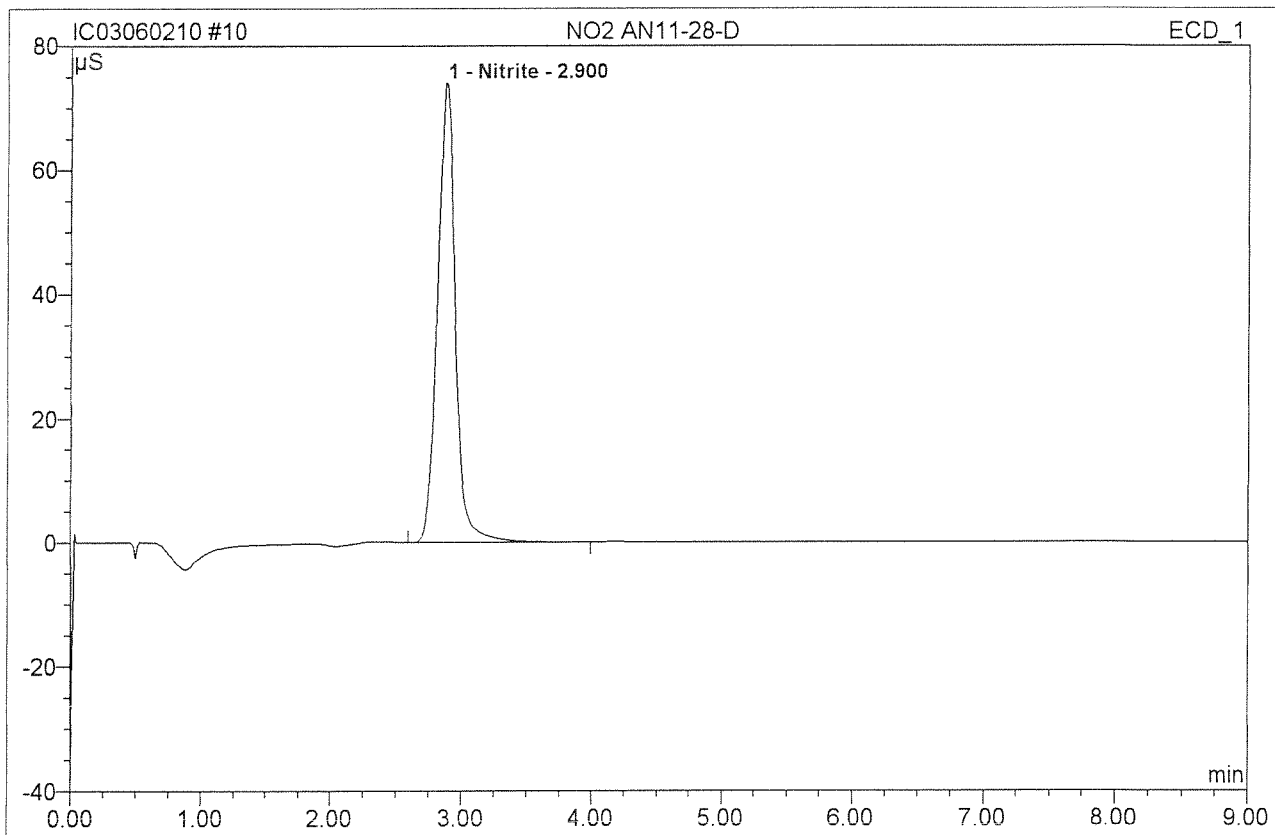
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Printed: 6/3/2010 9:47:35 AM

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

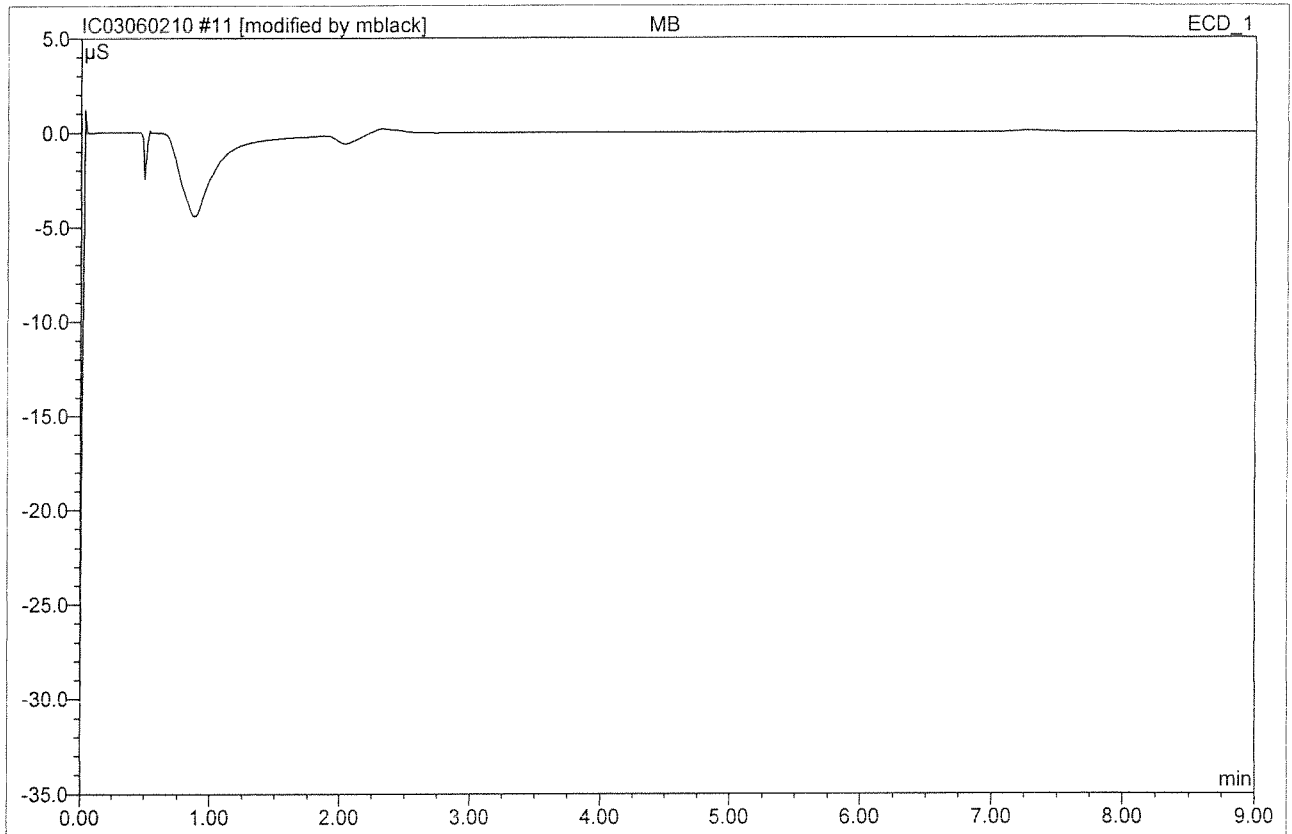
No.	Name	Dil. Factor	Comment
85	 K1005533-002	200.0000	
86	 K1005533-002	5.0000	
87	 RB	1.0000	
88	 CCV8	1.0000	CCV8
89	 CCB8	1.0000	CCB8
90	 SHUTDOWN	1.0000	

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	

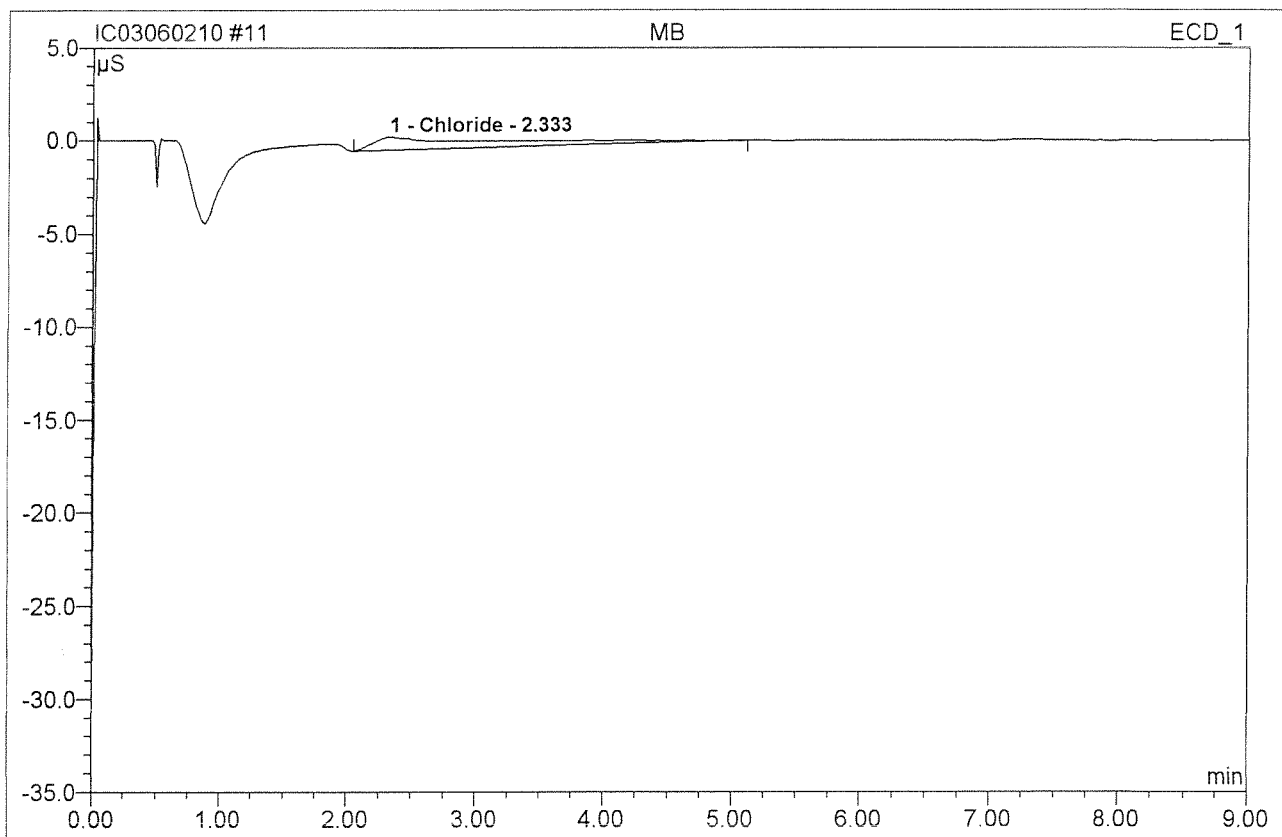
After Initials

MB

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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

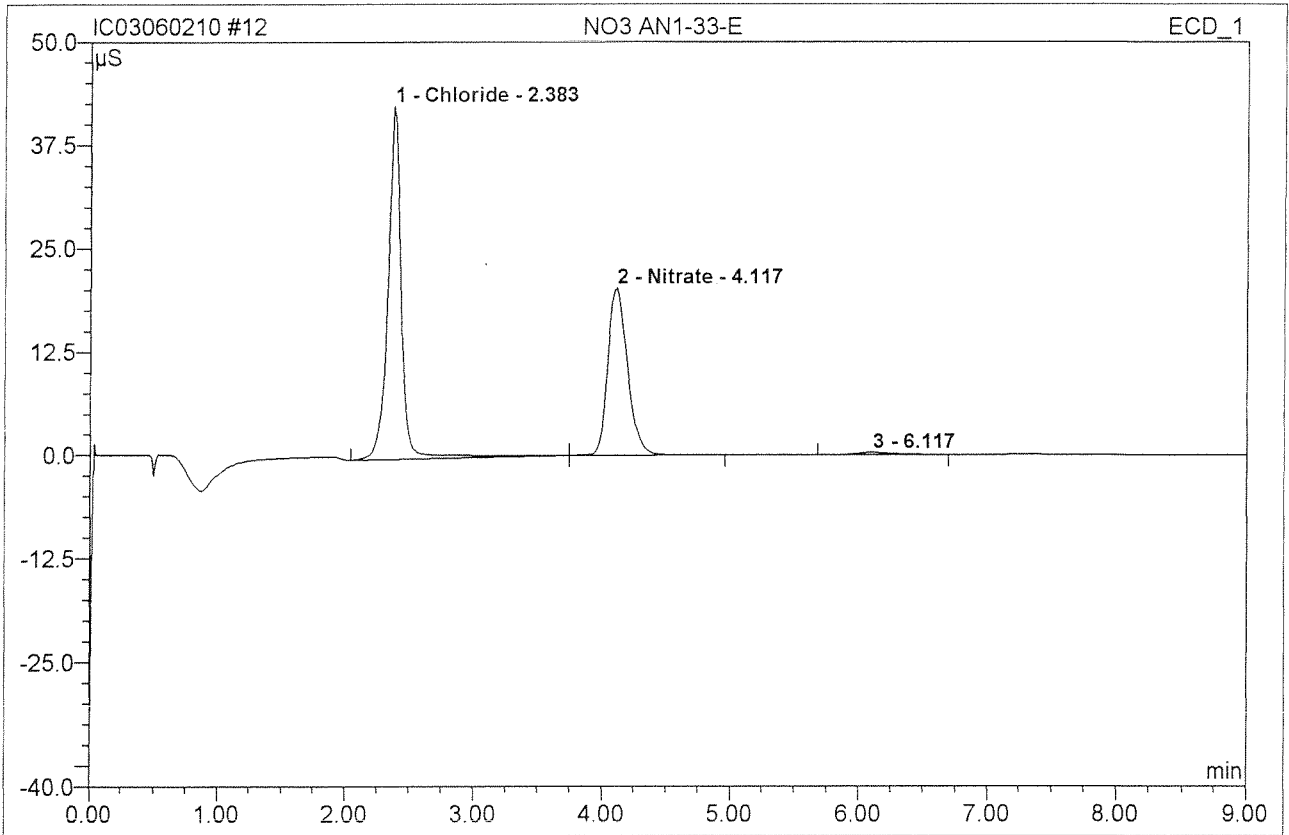


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.722	0.850	100.00	0.545	BMB
Total:			0.722	0.850	100.00	0.545	

Before

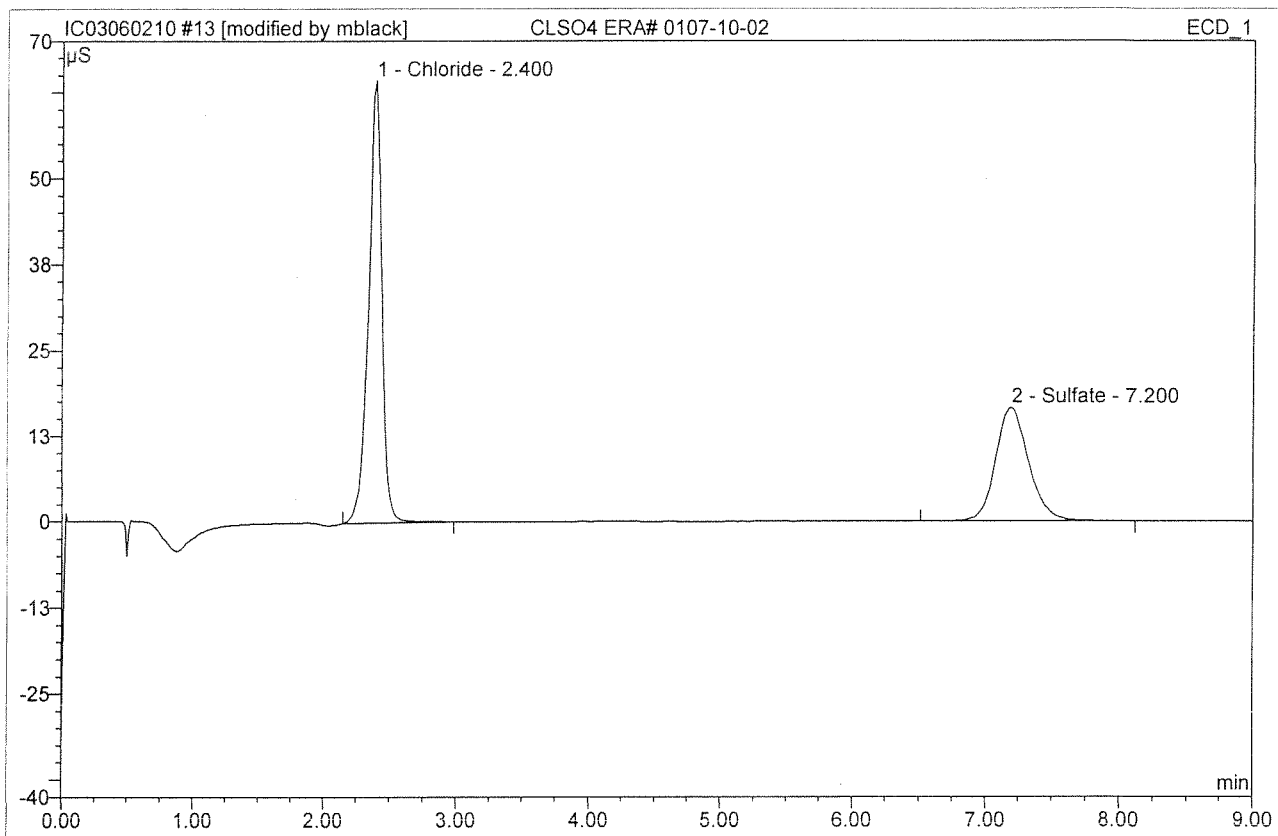
JUN 02 2010

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	19.402	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	4.86597%	BMB
Total:			80.952	12.349	100.00	9.714	

After Initials

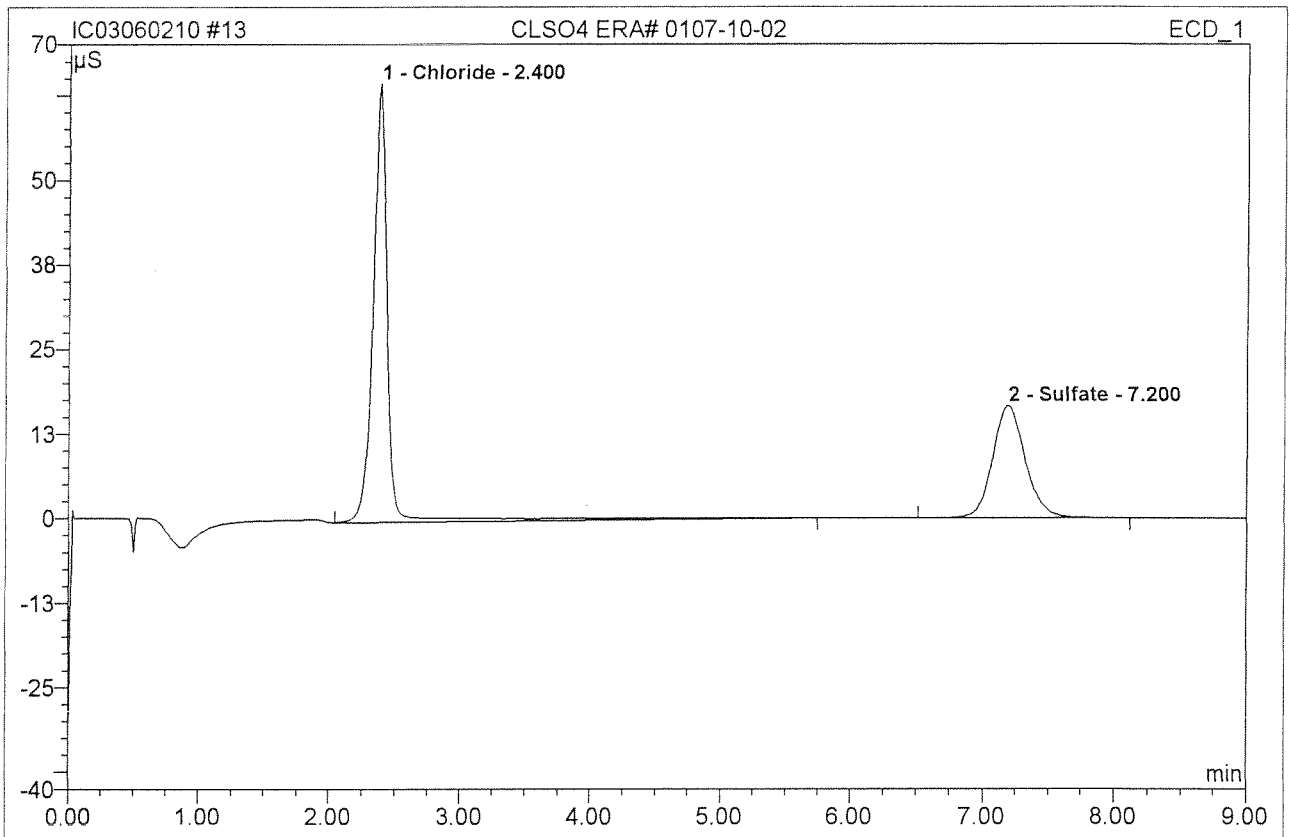
MB

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JUN 02 2010

Where Peak not Found
 Sample Method - Corrected
 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

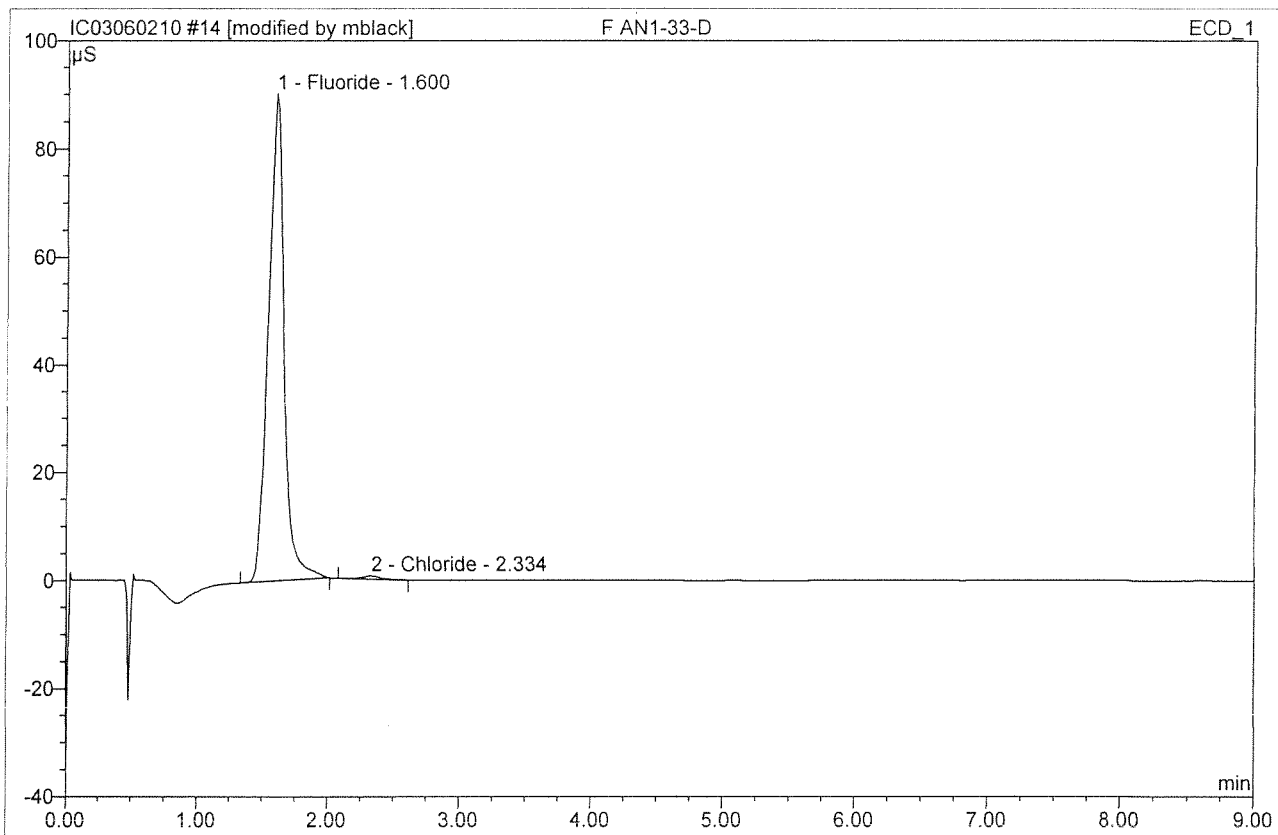


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.40	Chloride	64.746	8.467	63.88	5.429	BMB
2	7.20	Sulfate	16.556	4.788	36.12	4.865	BMB
Total:			81.303	13.255	100.00	10.295	

Before

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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	

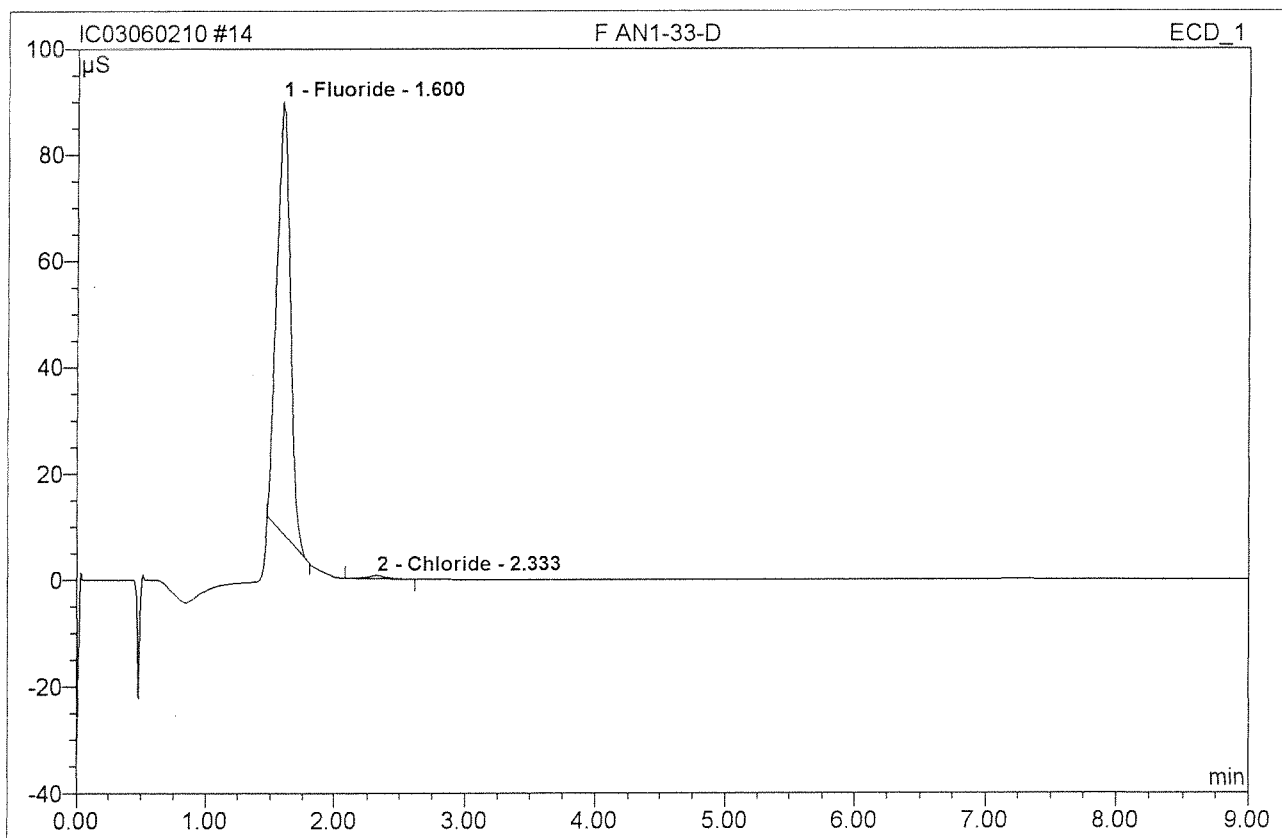
After
Initials

MB

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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

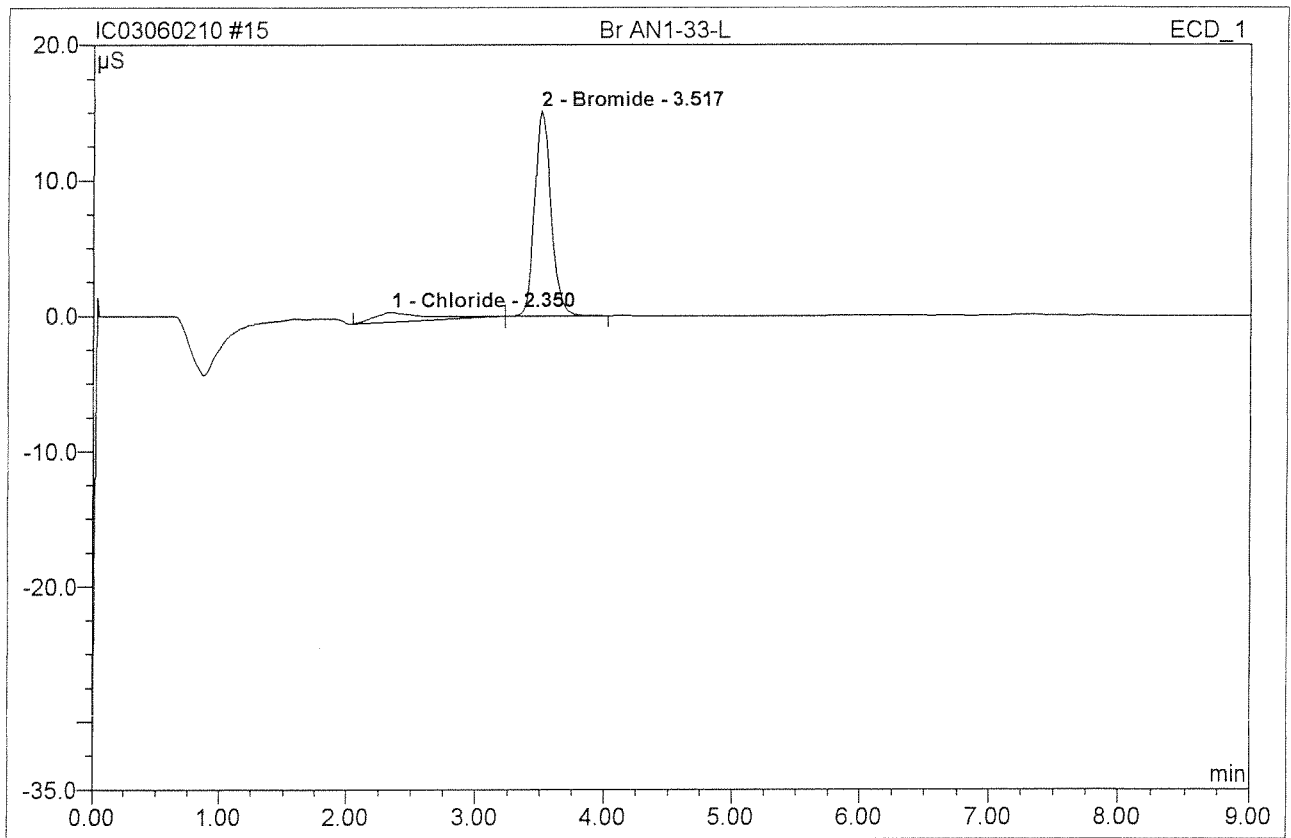


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.60	Fluoride	81.246	9.718	98.96	10.158	BMB
2	2.33	Chloride	0.627	0.102	1.04	0.131	BMB
Total:			81.873	9.820	100.00	10.288	

Before

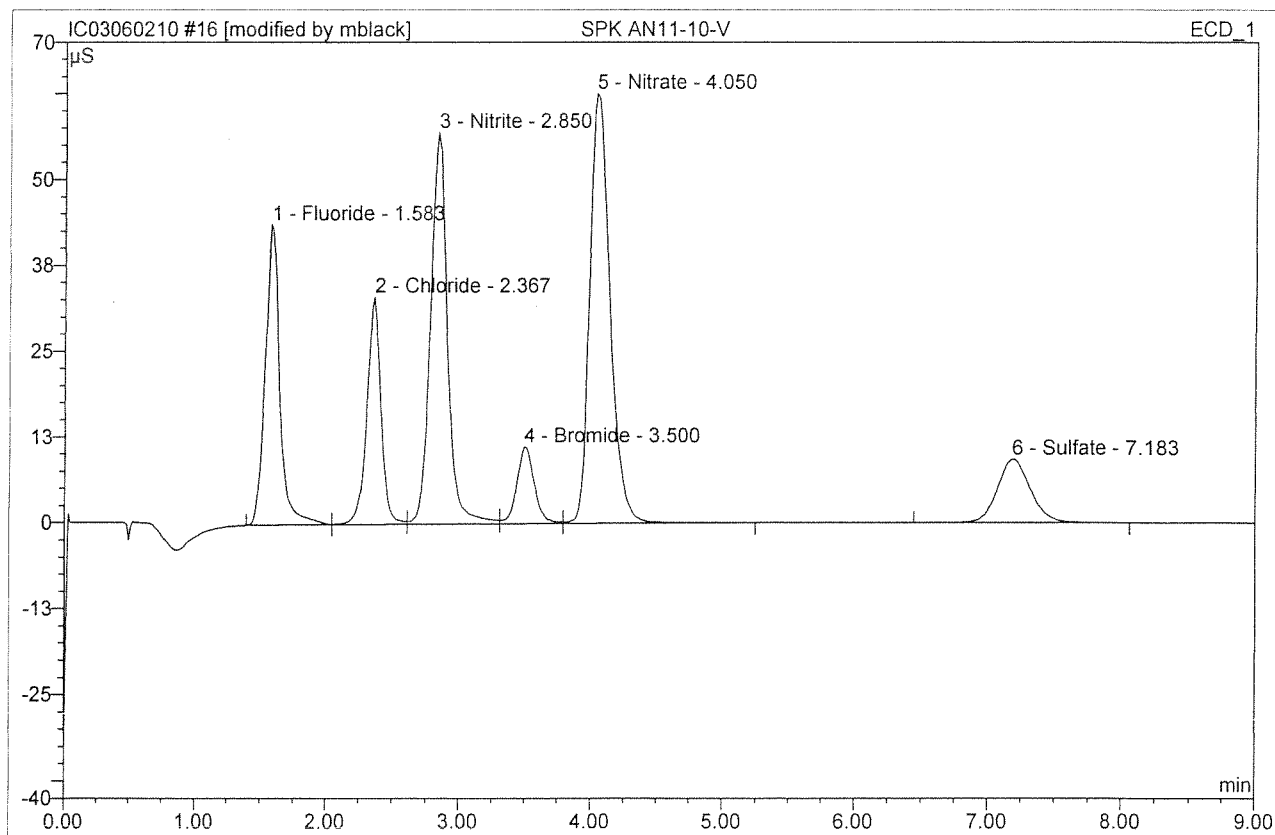
JUN 02 2010

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	4.211/105	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	

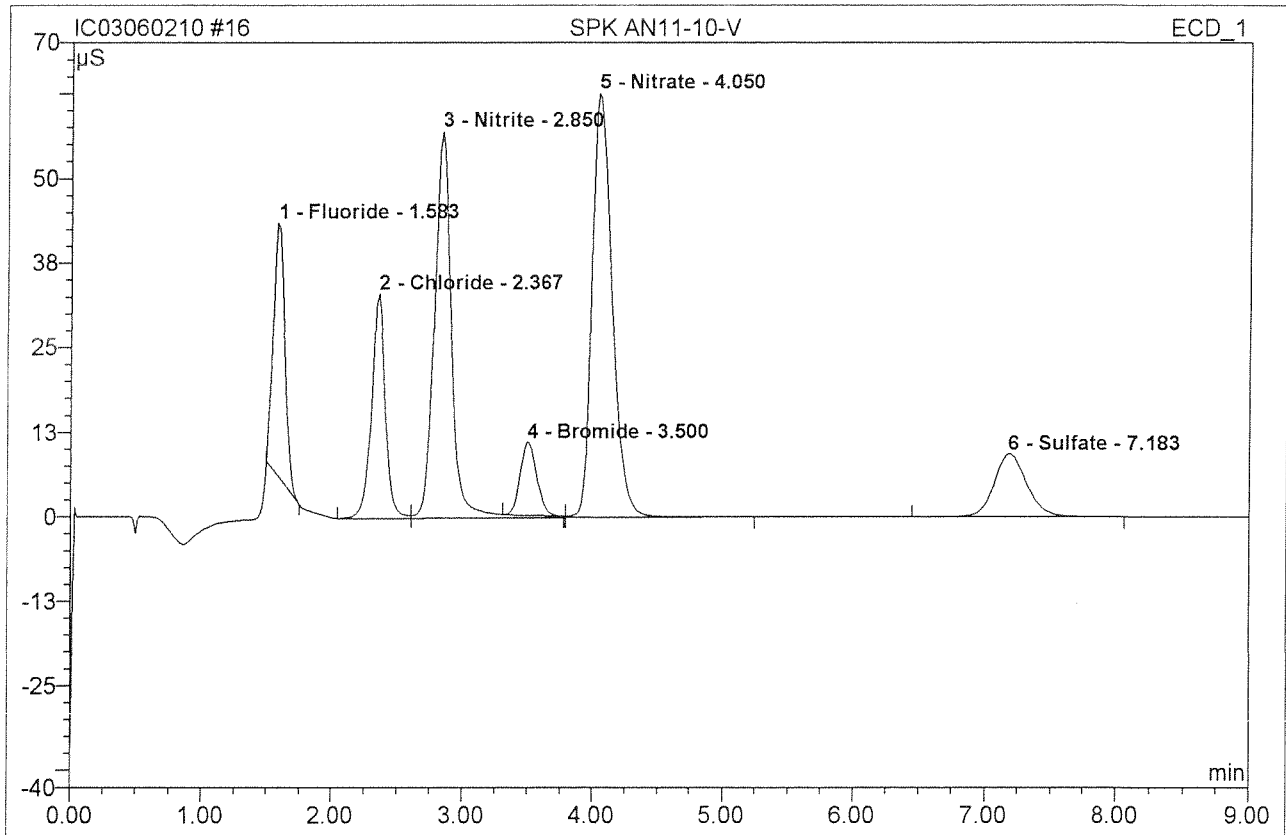
n = 3.00

After Initials MB

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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

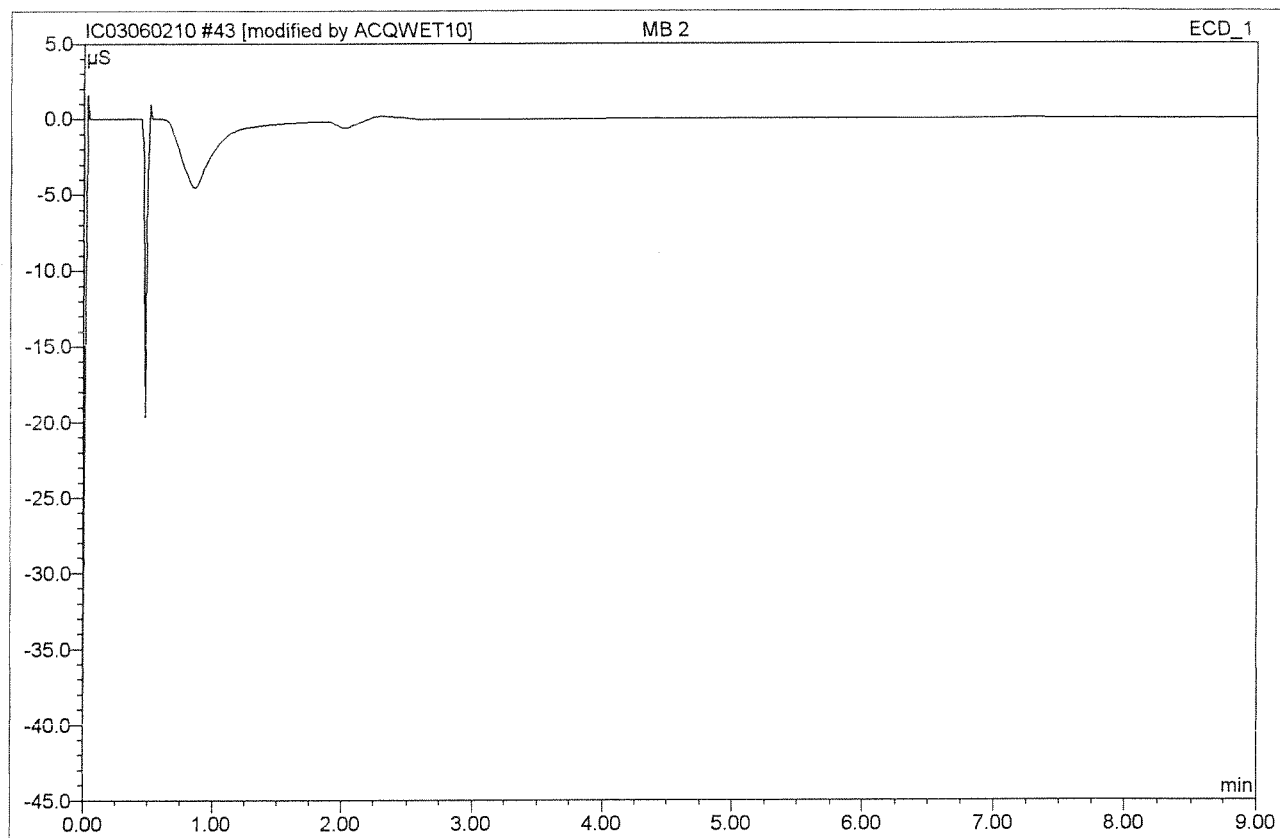


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.58	Fluoride	37.279	3.789	11.84	1.980	BMB
2	2.37	Chloride	33.117	4.036	12.61	2.588	BM
3	2.85	Nitrite	57.048	8.726	27.25	3.022	M
4	3.50	Bromide	10.744	1.570	4.90	2.930	Rd
5	4.05	Nitrate	62.608	11.216	35.03	3.044	MB
6	7.18	Sulfate	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	

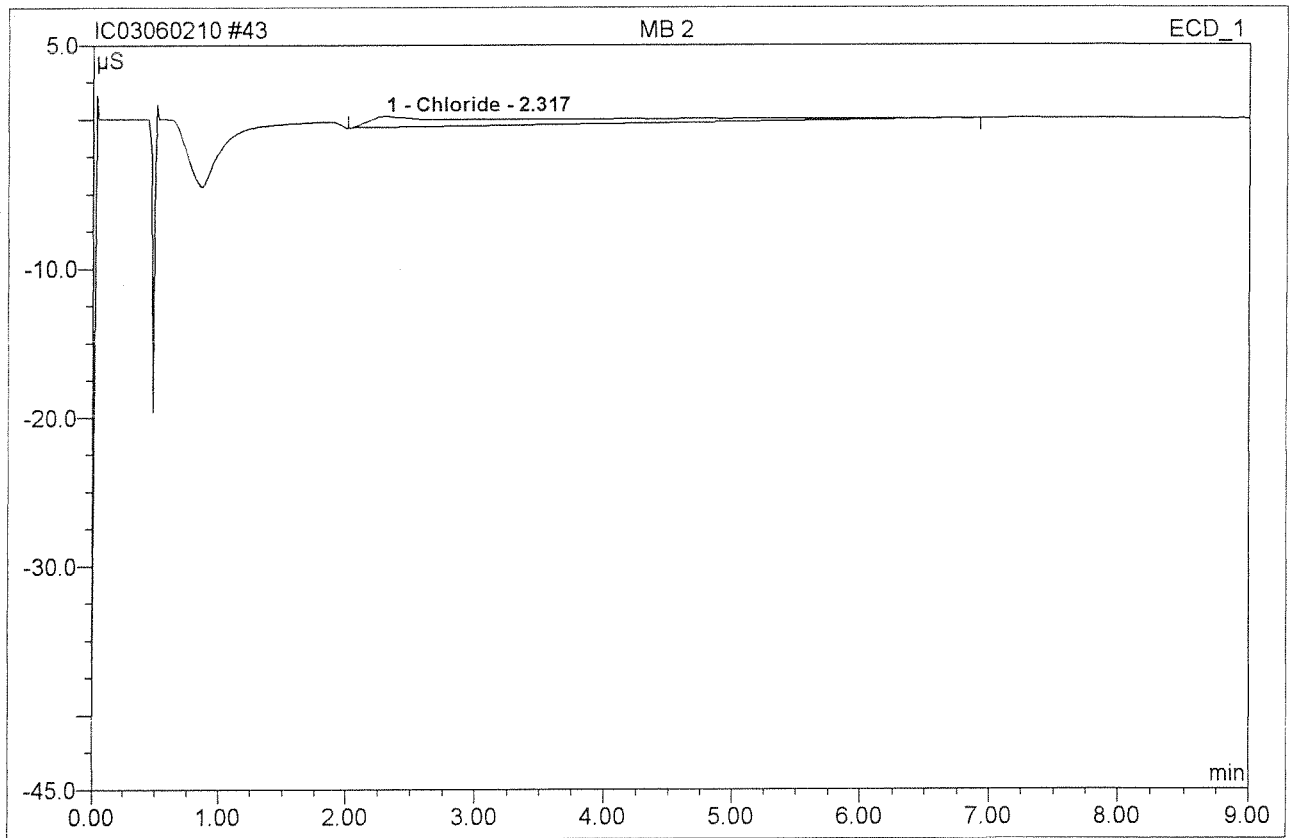
After
Initials

43

ACQWET10

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

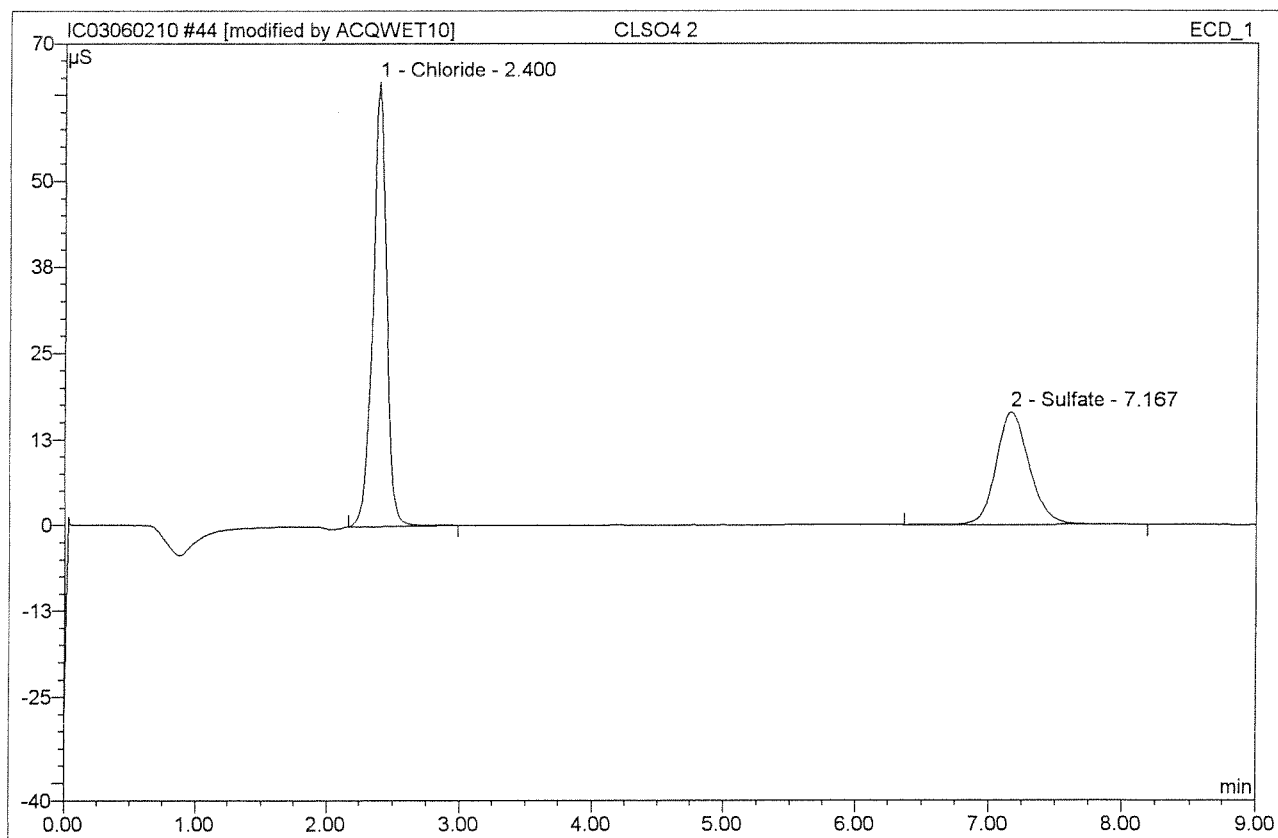


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.32	Chloride	0.742	1.401	100.00	0.898	BMB
Total:			0.742	1.401	100.00	0.898	

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

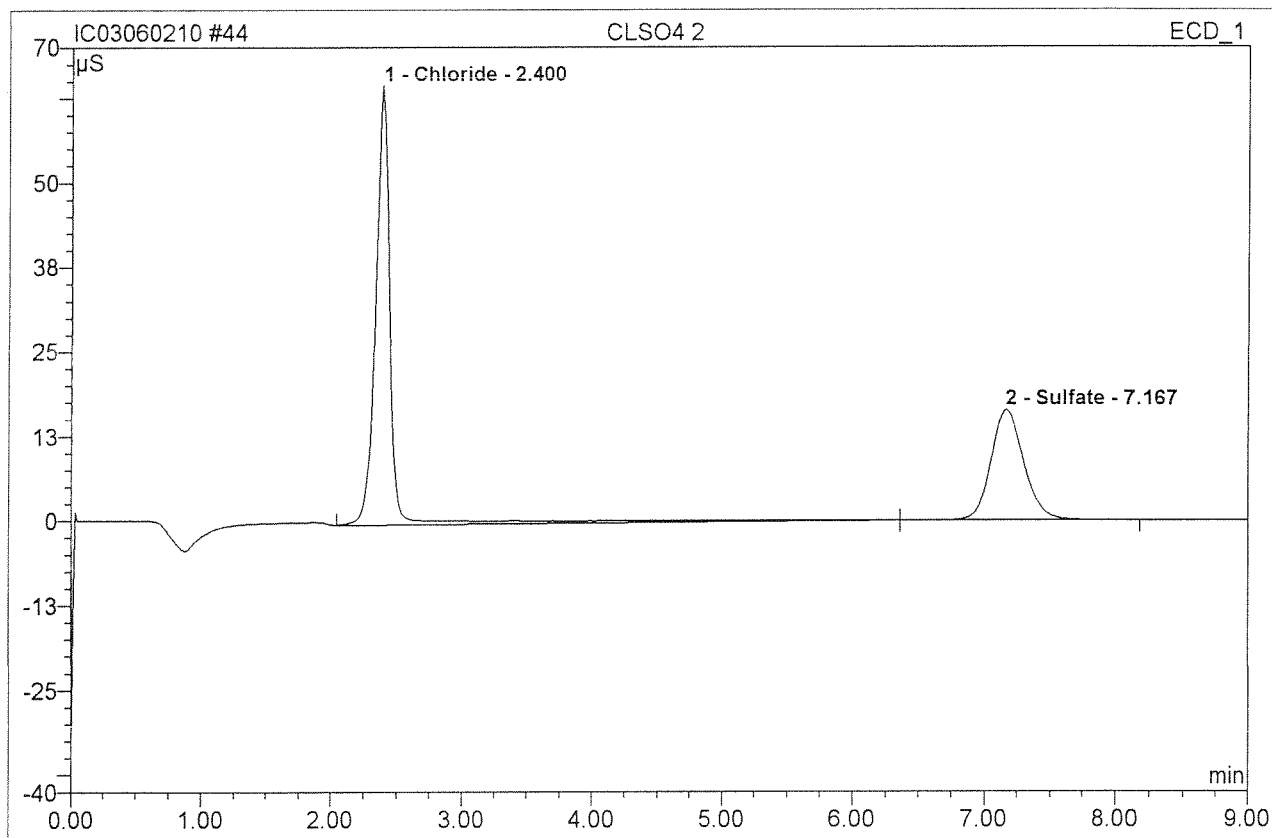
CA 6/4/10

JUN 02 2010

Wrong Peak/Peak not found
No value change incorrect

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

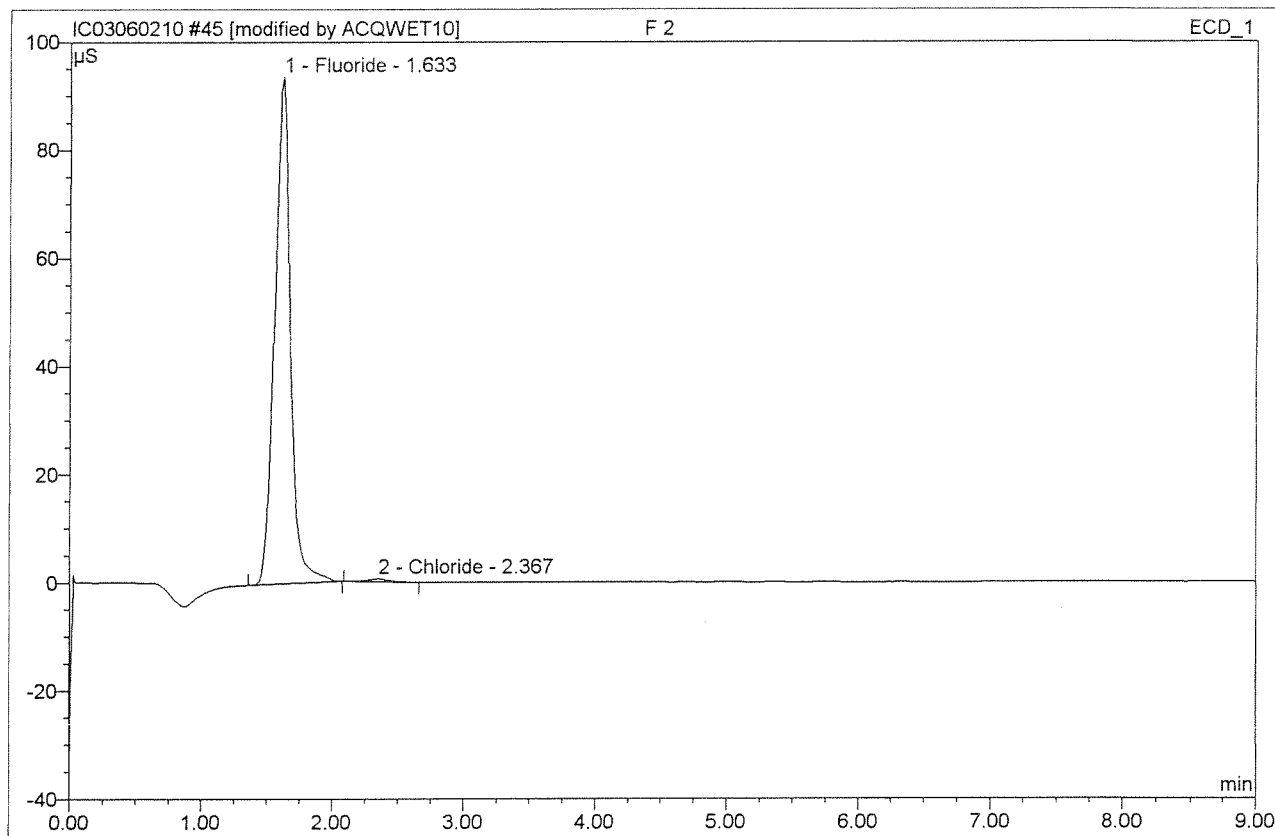


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.40	Chloride	64.958	8.761	64.91	5.618	BMB
2	7.17	Sulfate	16.384	4.736	35.09	4.813	bMB
Total:			81.342	13.497	100.00	10.430	

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 $\mu\text{S}\cdot\text{min}$	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

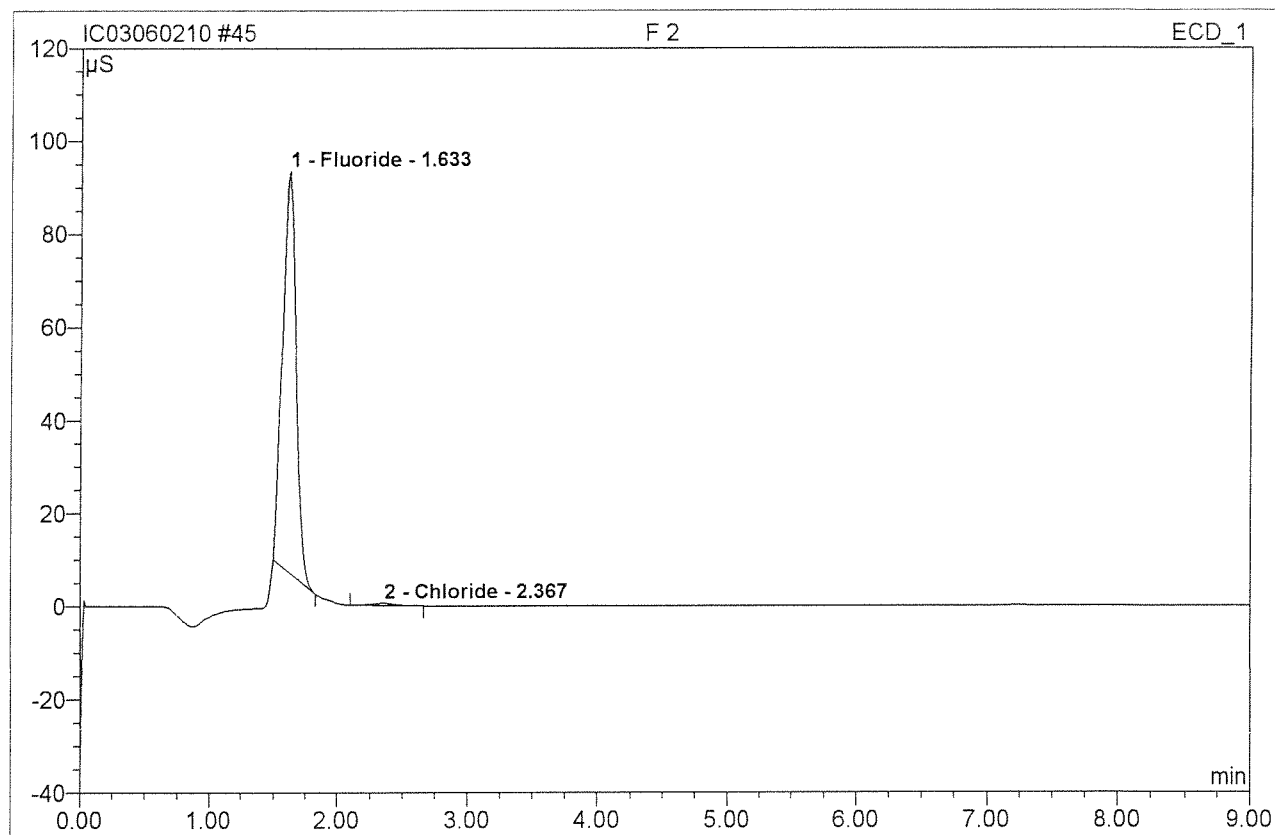
[Handwritten Signature]

[Handwritten Date: 6/4/10]

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	

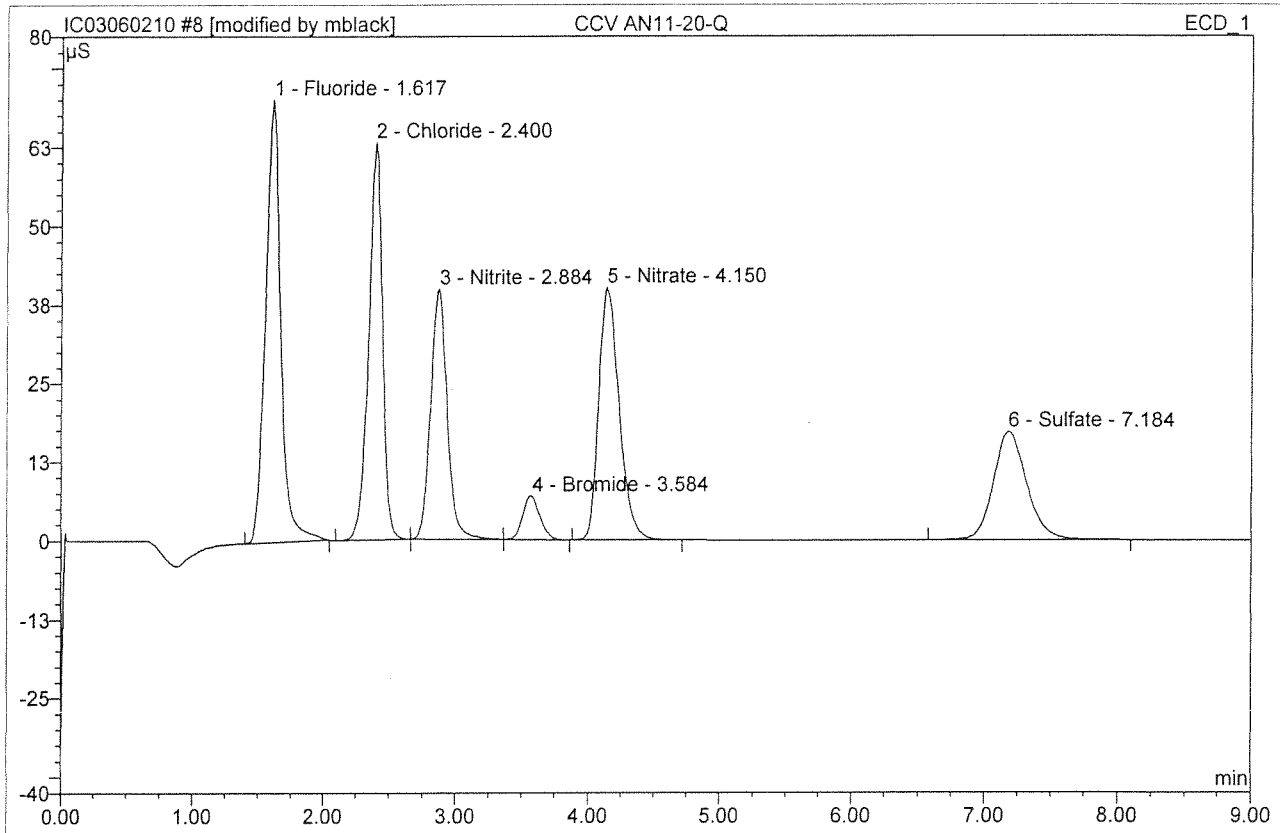
Before

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	4.93899%	BMB*
2	2.40	Chloride	63.085	7.604	21.13	4.87648%	BMB
3	2.88	Nitrite	39.753	5.709	15.86	1.97749%	bMB
4	3.58	Bromide	6.884	1.046	2.91	1.95248%	bMB
5	4.15	Nitrate	40.152	7.208	20.02	1.95798%	BMB
6	7.18	Sulfate	17.246	4.982	13.84	5.06361%	BMB
Total:			237.461	35.997	100.00	20.762	

After Initials

MB

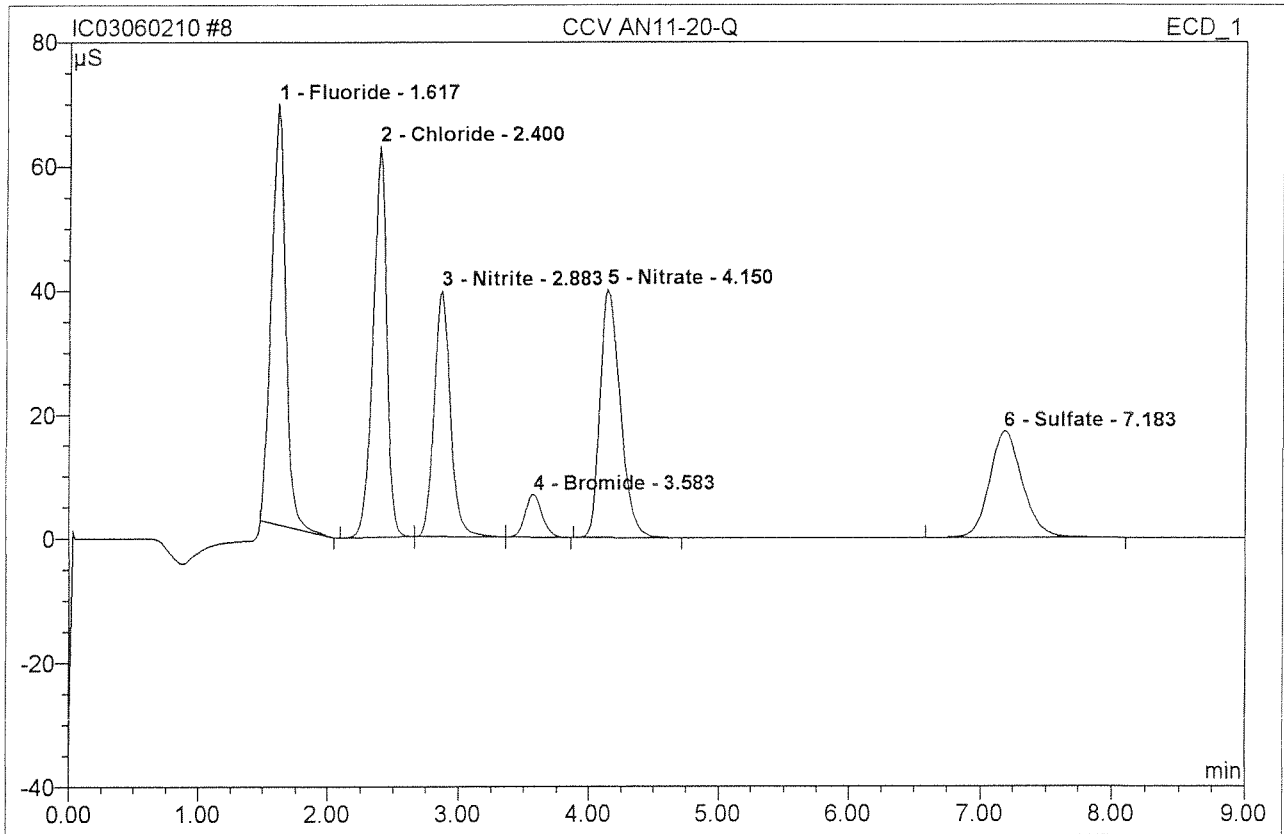
6/4/10

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

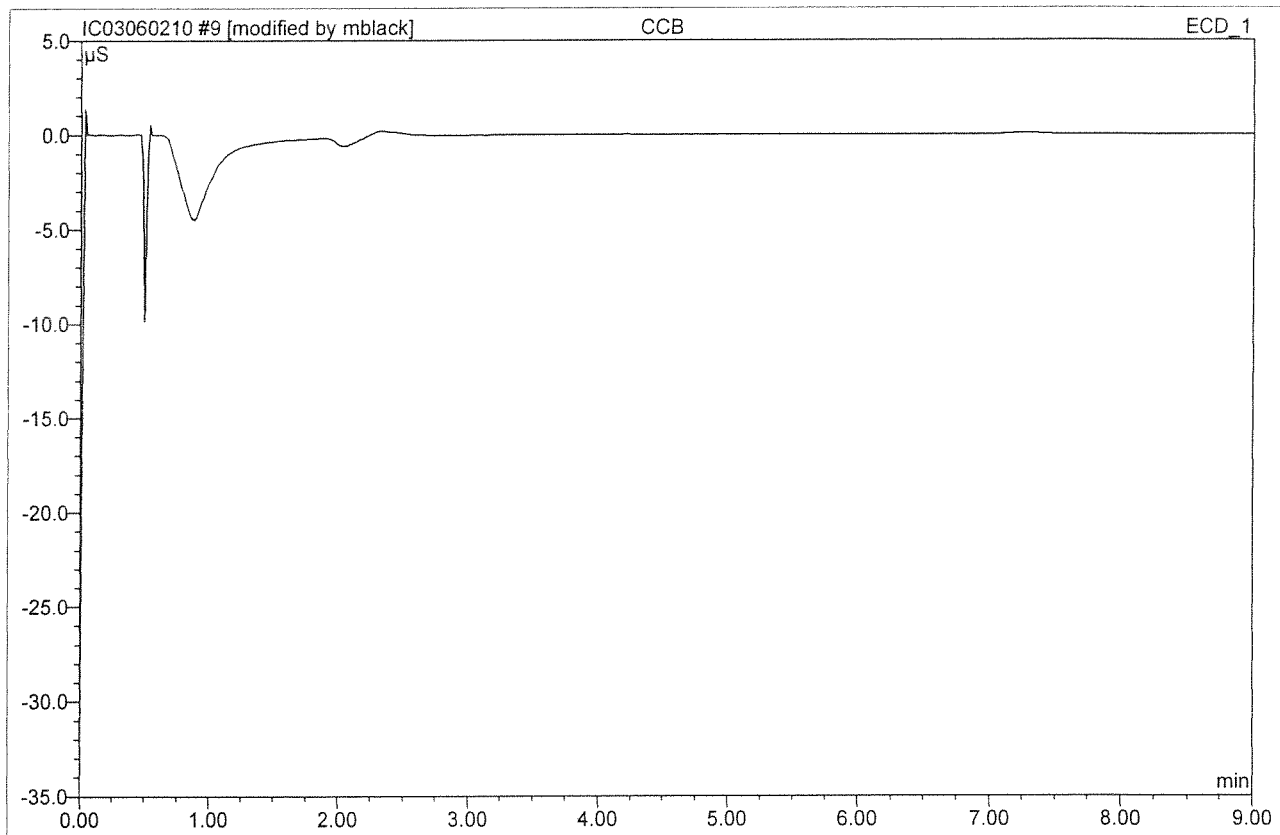


No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount	Type
1	1.62	Fluoride	67.886	8.483	24.22	4.434	BMB
2	2.40	Chloride	63.085	7.604	21.71	4.876	BMB
3	2.88	Nitrite	39.753	5.709	16.30	1.977	bMB
4	3.58	Bromide	6.884	1.046	2.99	1.952	bMB
5	4.15	Nitrate	40.152	7.208	20.57	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	

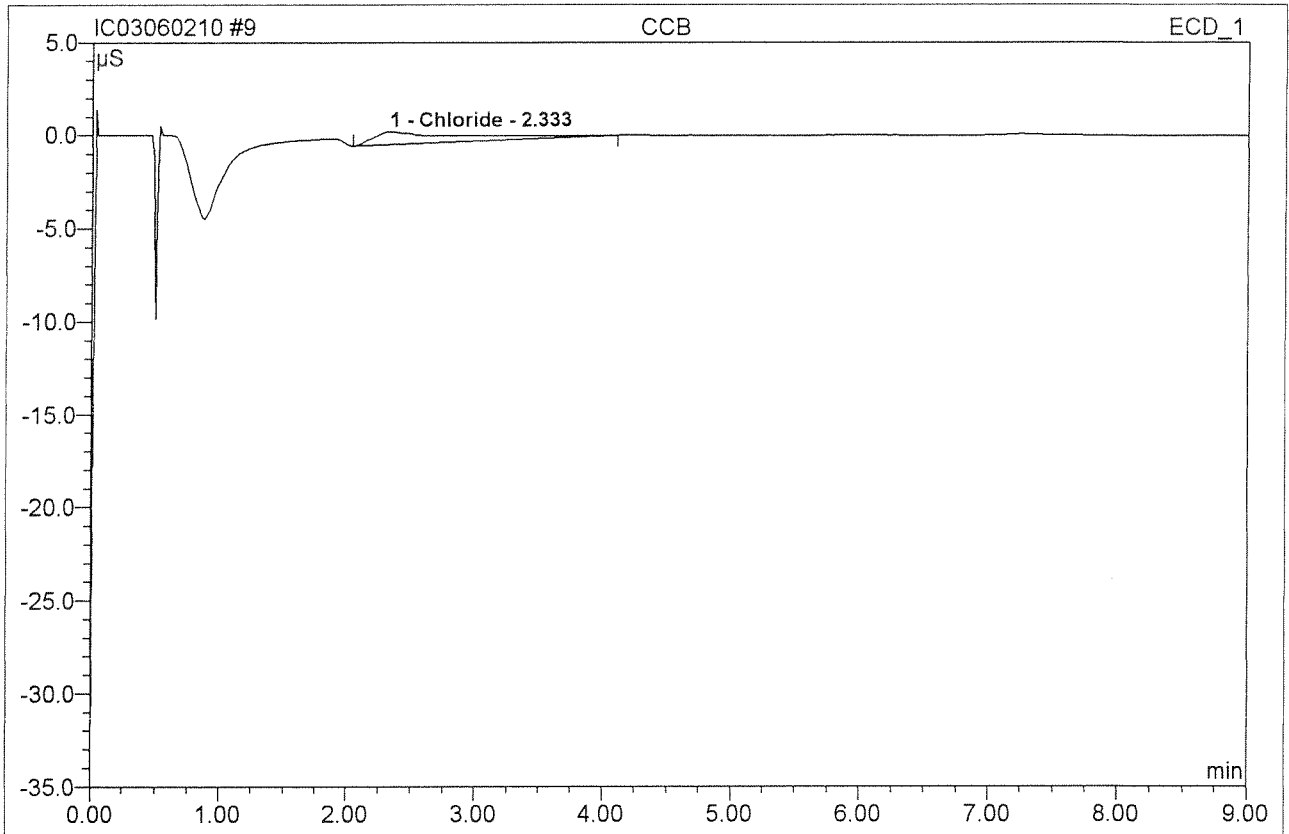
After Initials MB

MB 6/4/10

JUN 02 2010

Wrong Peak/Peak not Found
 Injection Spreader 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

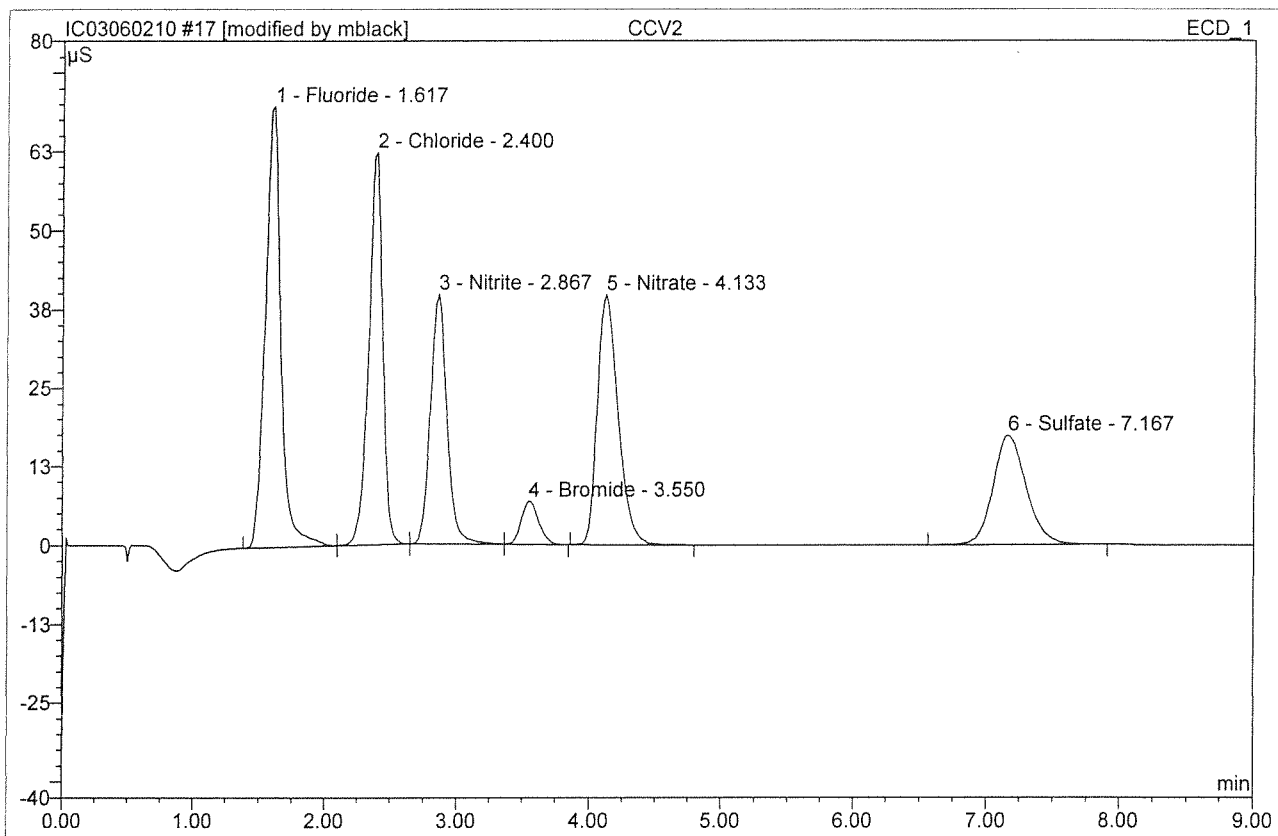


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.706	0.563	100.00	0.361	BMB
Total:			0.706	0.563	100.00	0.361	

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 ^{99%}	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	

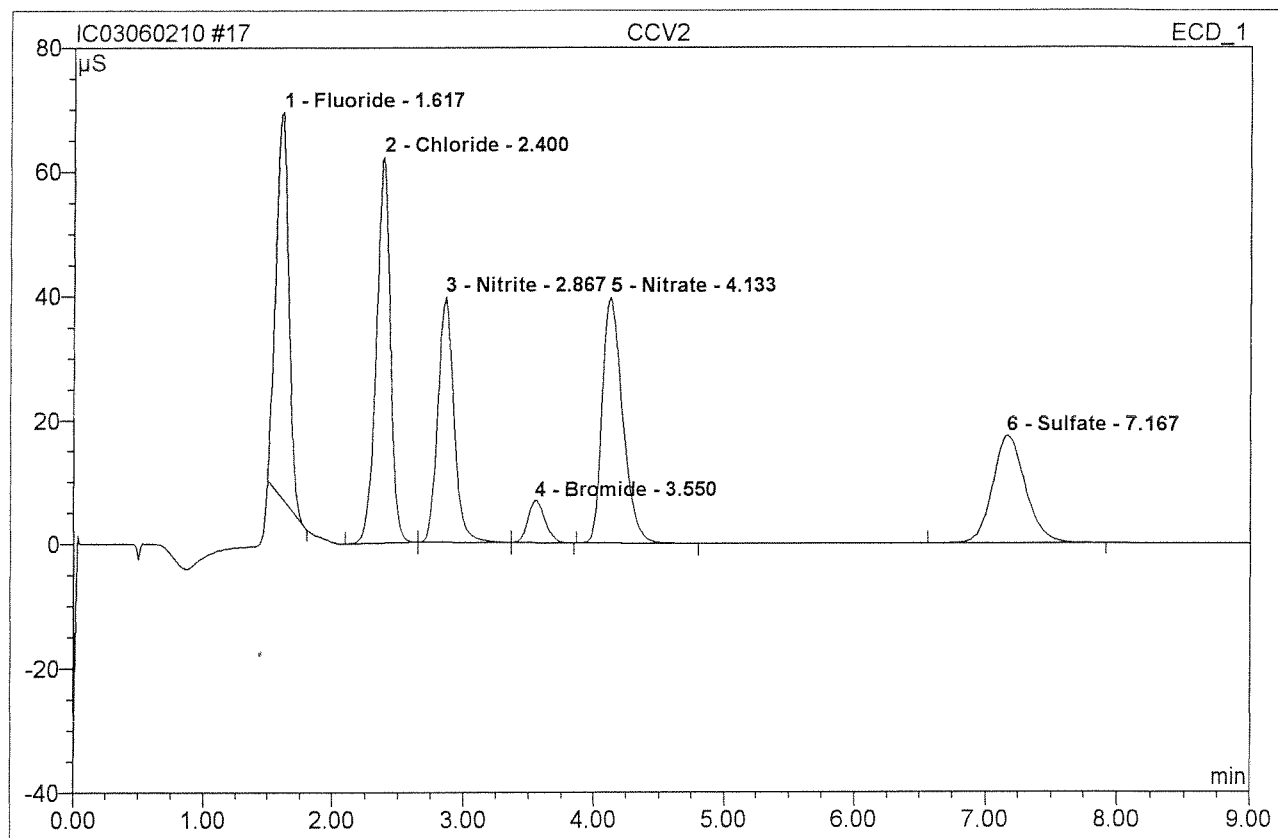
After Initials MS

JUN 02 2010

MS 6/4/10

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	

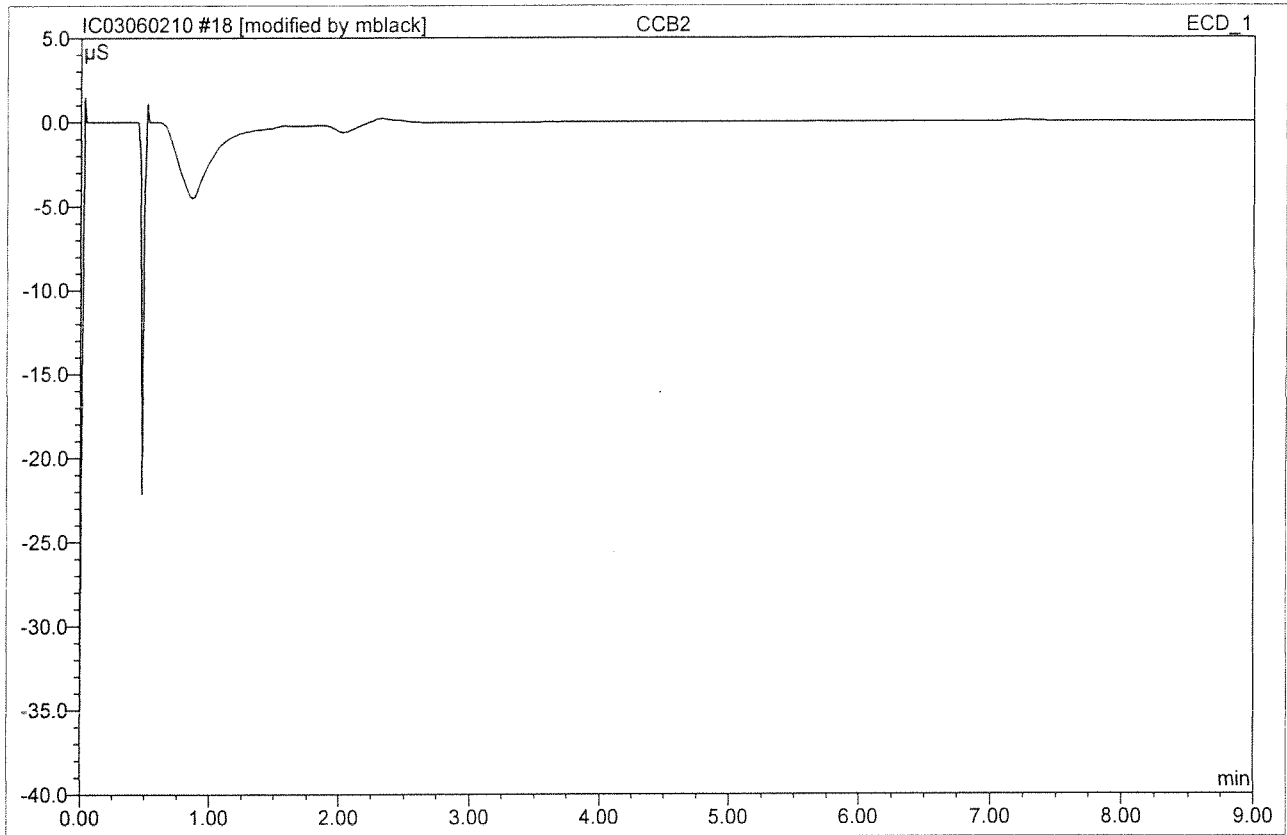
Before

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	

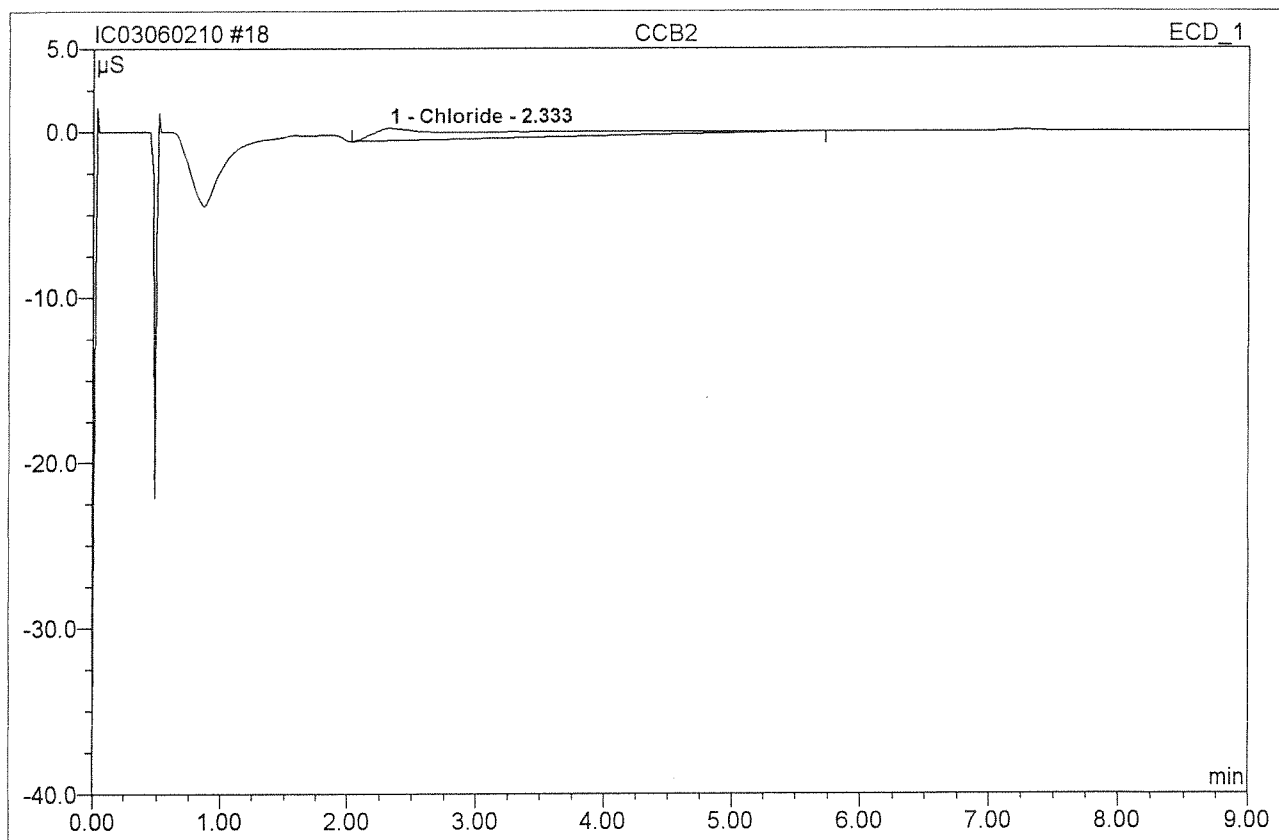
After Initials MB

6/4/10

JUN 02 2010

Wrong 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

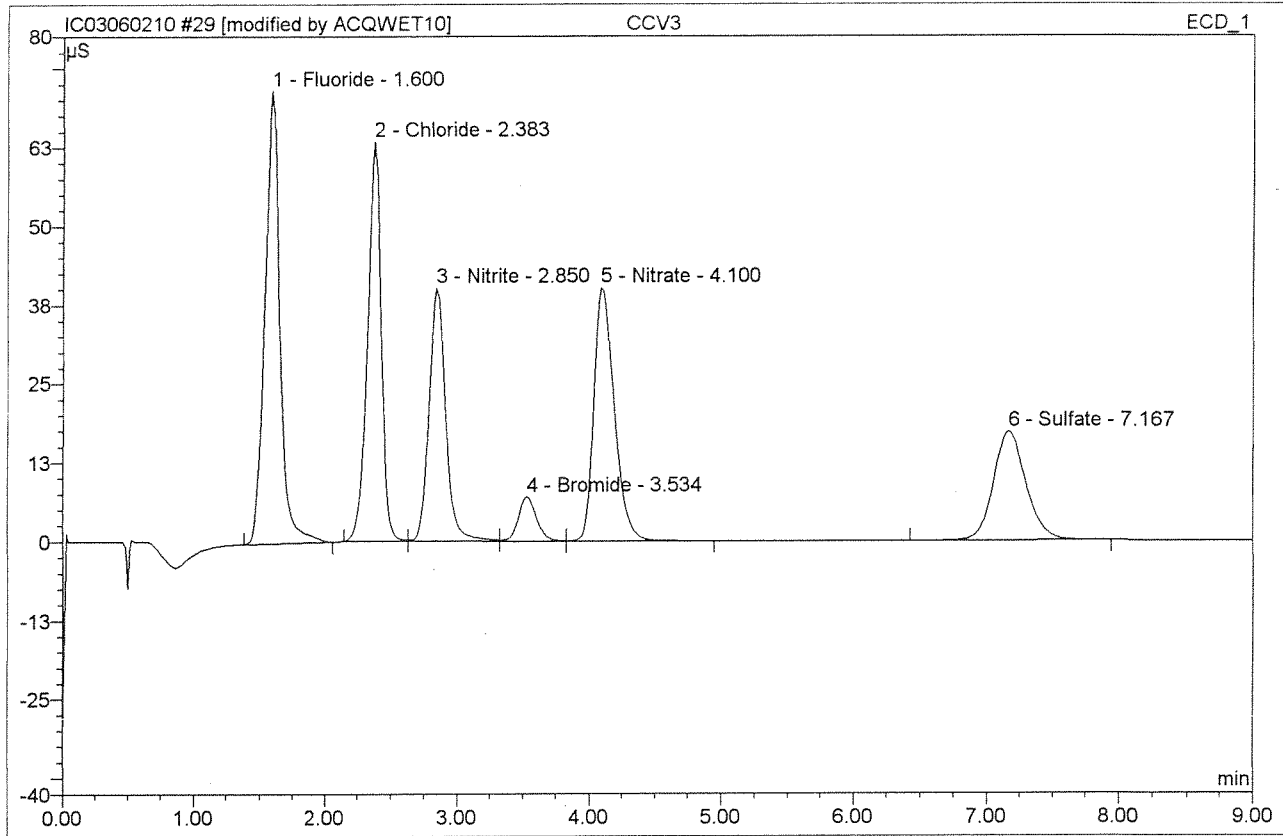


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.769	1.047	100.00	0.671	BMB
Total:			0.769	1.047	100.00	0.671	

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 ^{47%}	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 ^{18%}	MB*
6	7.17	Sulfate	17.270	4.933	13.65	5.012 ^{100%}	BMB
Total:			239.544	36.125	100.00	20.835	

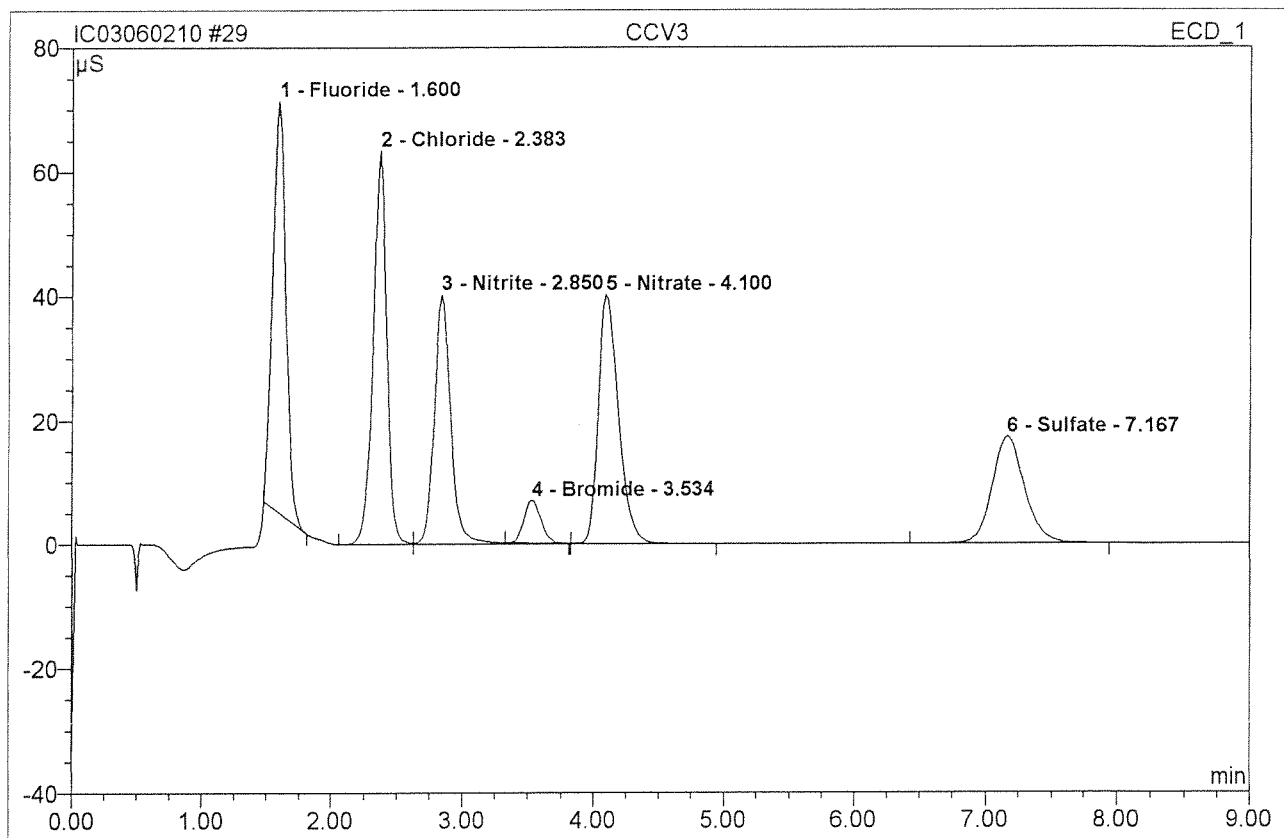
After Initials

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

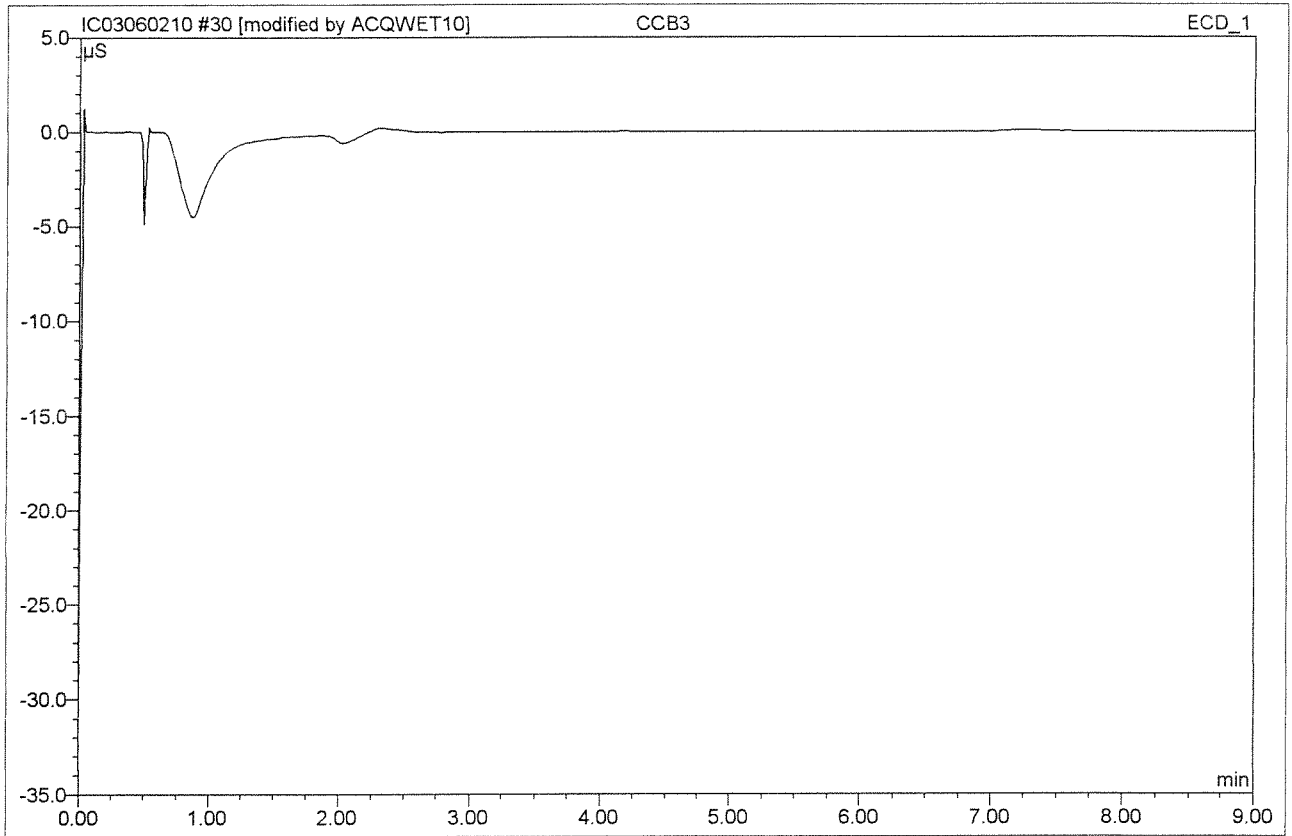


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	66.245	7.700	22.34	4.024	BMB
2	2.38	Chloride	63.474	7.621	22.11	4.887	BM
3	2.85	Nitrite	40.223	5.946	17.25	2.059	M
4	3.53	Bromide	6.941	1.040	3.02	1.940	Rd
5	4.10	Nitrate	40.172	7.231	20.98	1.963	MB
6	7.17	Sulfate	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



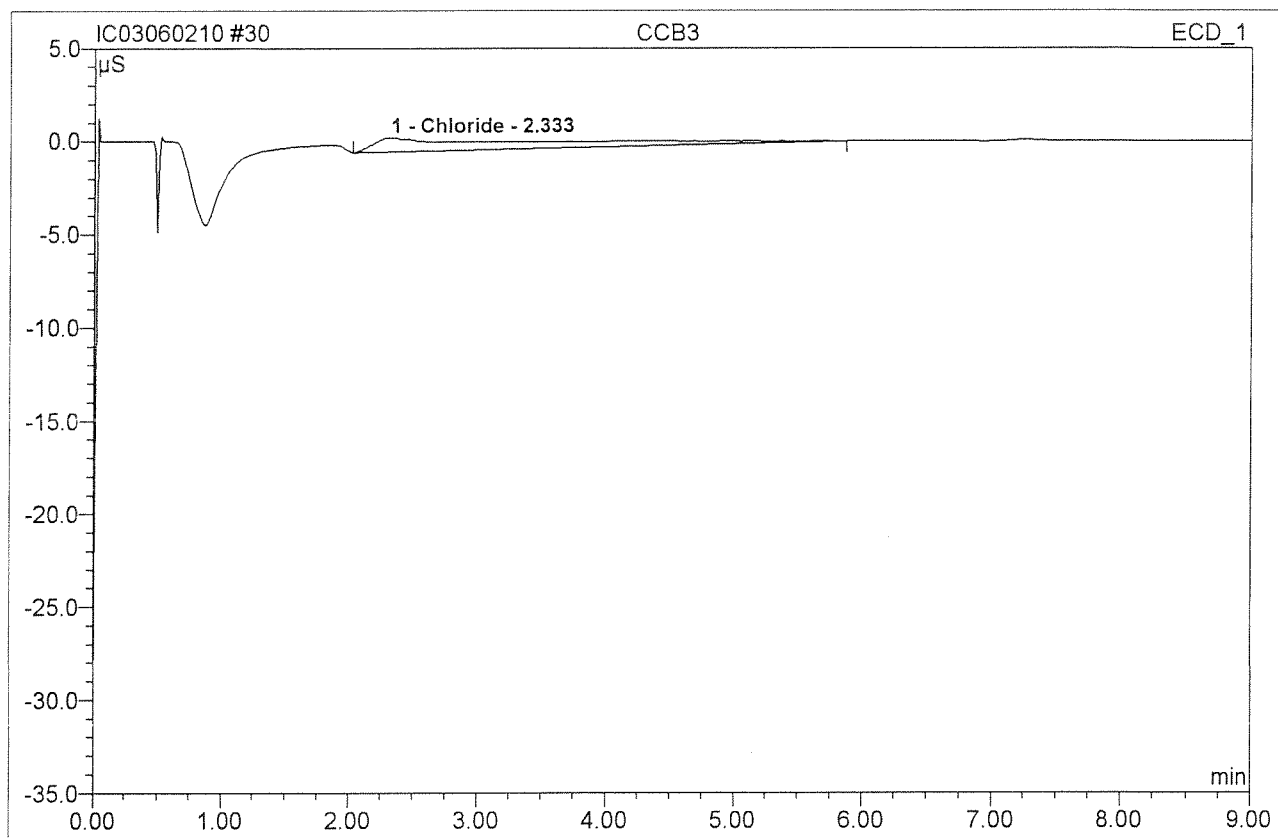
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

After Initials AB

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

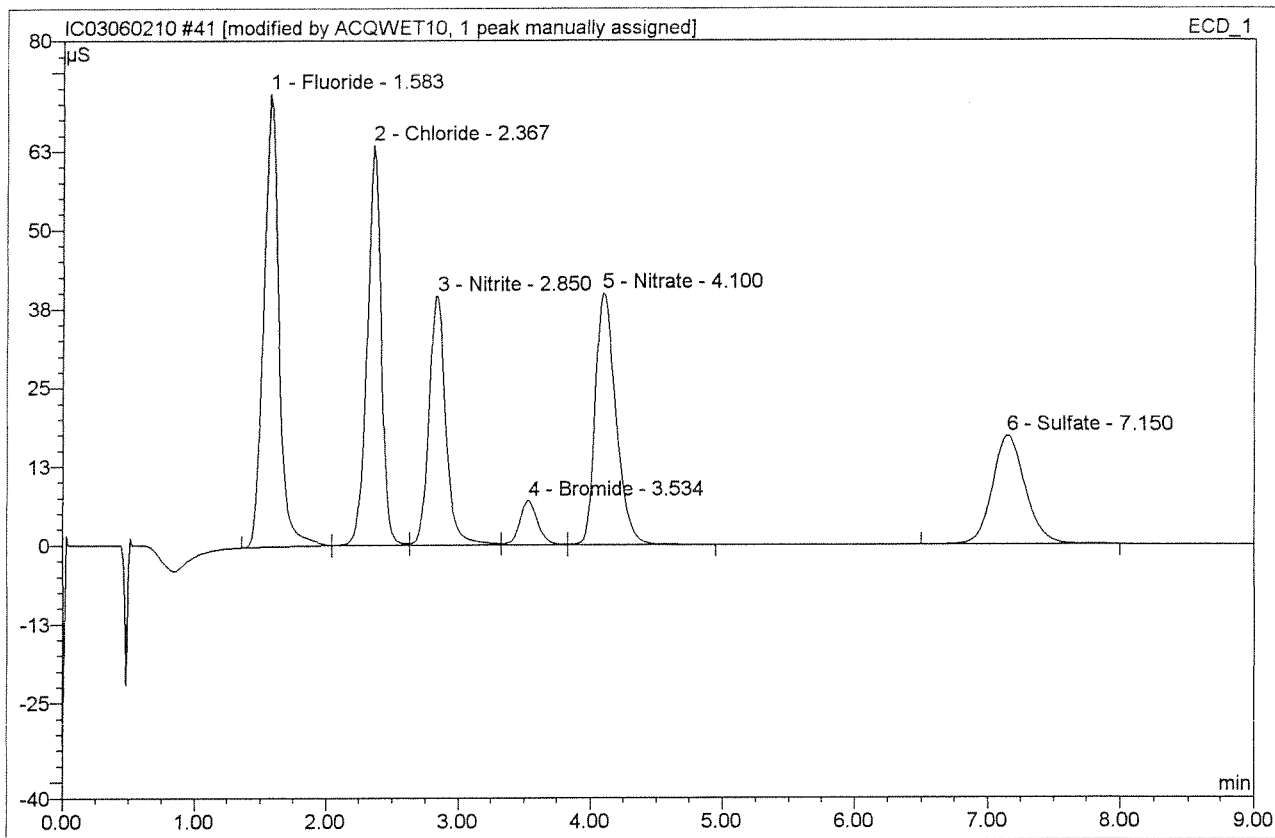


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.754	1.117	100.00	0.716	BMB
Total:			0.754	1.117	100.00	0.716	

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	5.039161%	BMb*
2	2.37	Chloride	63.476	7.717	21.12	4.949992%	bM **^
3	2.85	Nitrite	39.516	5.857	16.02	2.028162%	M *
4	3.53	Bromide	7.096	1.125	3.08	2.100165%	M *
5	4.10	Nitrate	39.967	7.247	19.83	1.967992%	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

EB 6/4/10

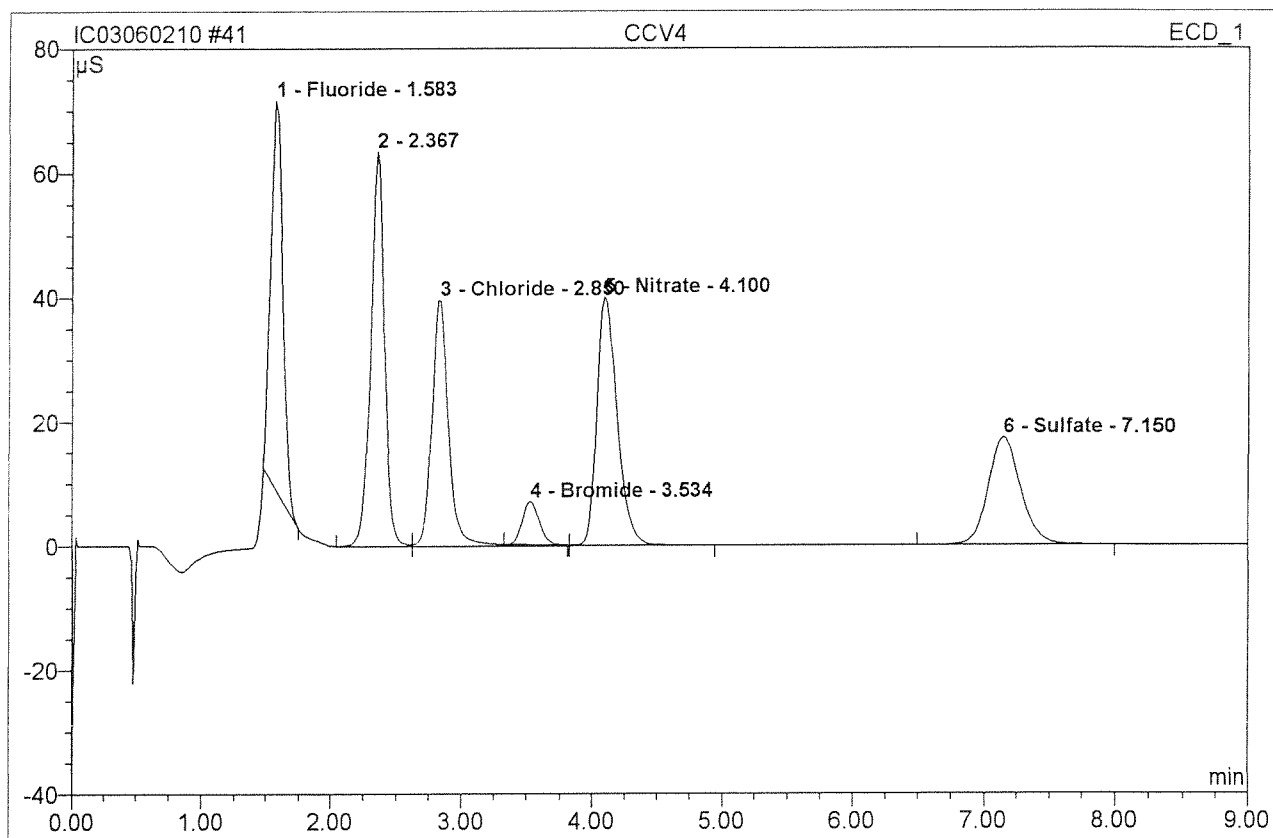
JUN 02 2010

default/Integration

Wrong Peak/peak not found
 Baseline/shoulder incorrect
 Other

135

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

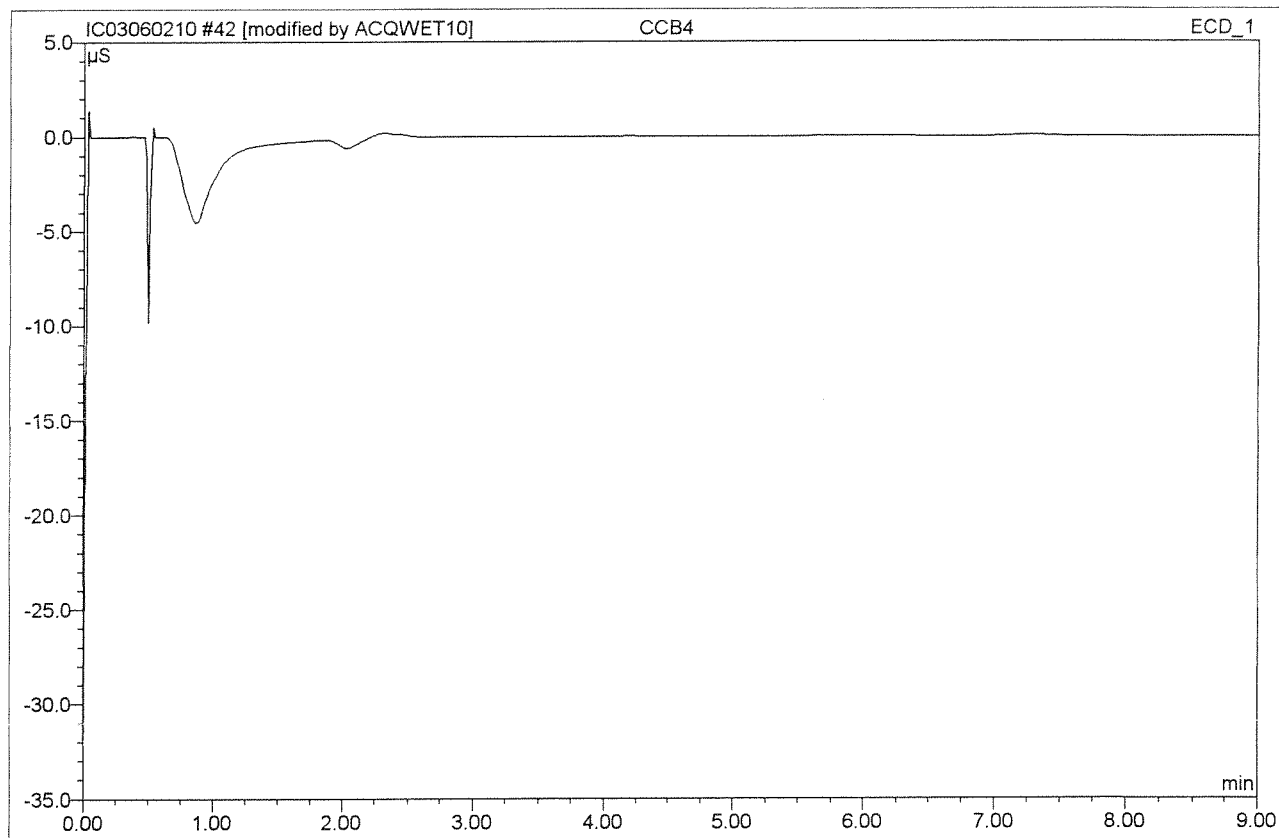


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	62.622	6.880	20.36	3.596	BMB
2	2.37	n.a.	63.476	7.717	22.84	n.a.	BM
3	2.85	Chloride	39.516	5.939	17.58	3.808	M
4	3.53	Bromide	6.916	1.044	3.09	1.948	Rd
5	4.10	Nitrate	39.967	7.247	21.45	1.967	MB
6	7.15	Sulfate	17.285	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



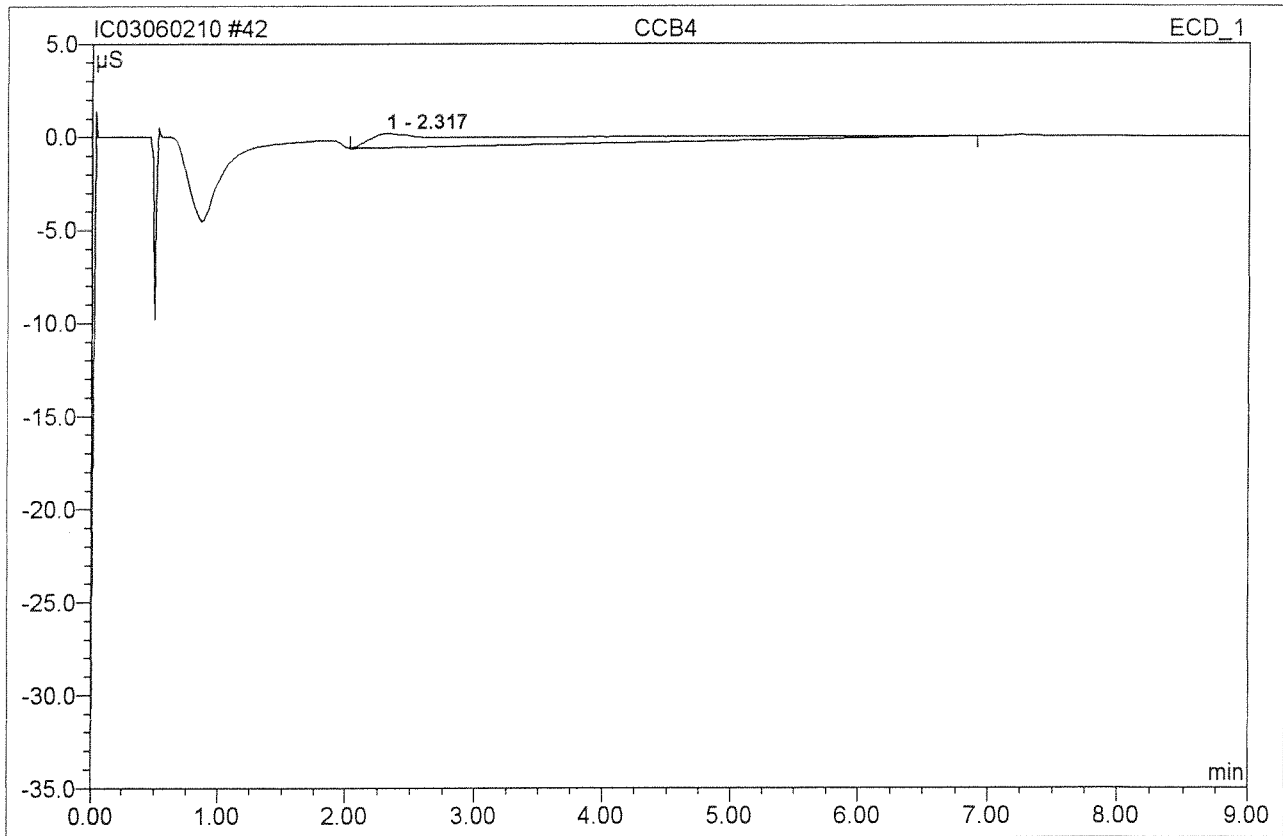
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

Handwritten signature/initials
6/4/10

After Initials MB

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

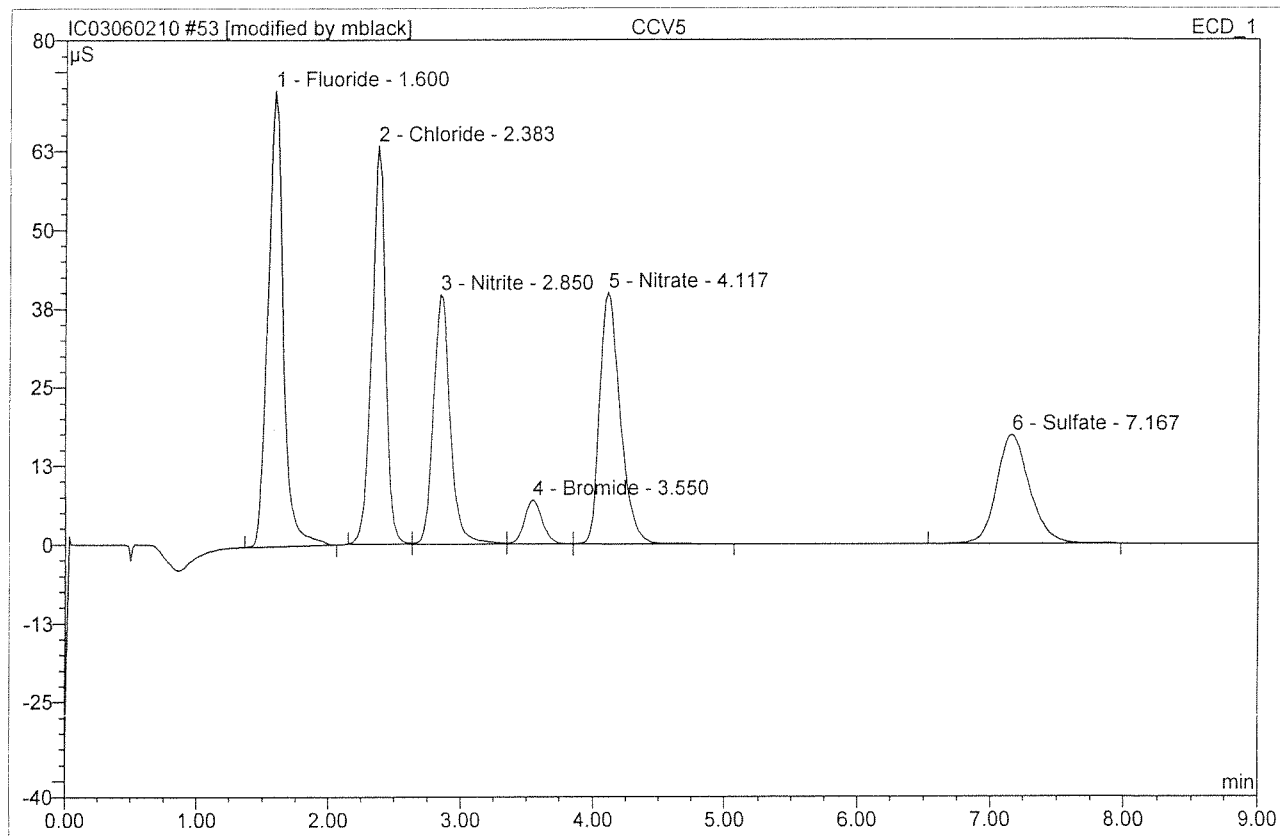


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.32	n.a.	0.750	1.435	100.00	n.a.	BMB
Total:			0.750	1.435	100.00	0.000	

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

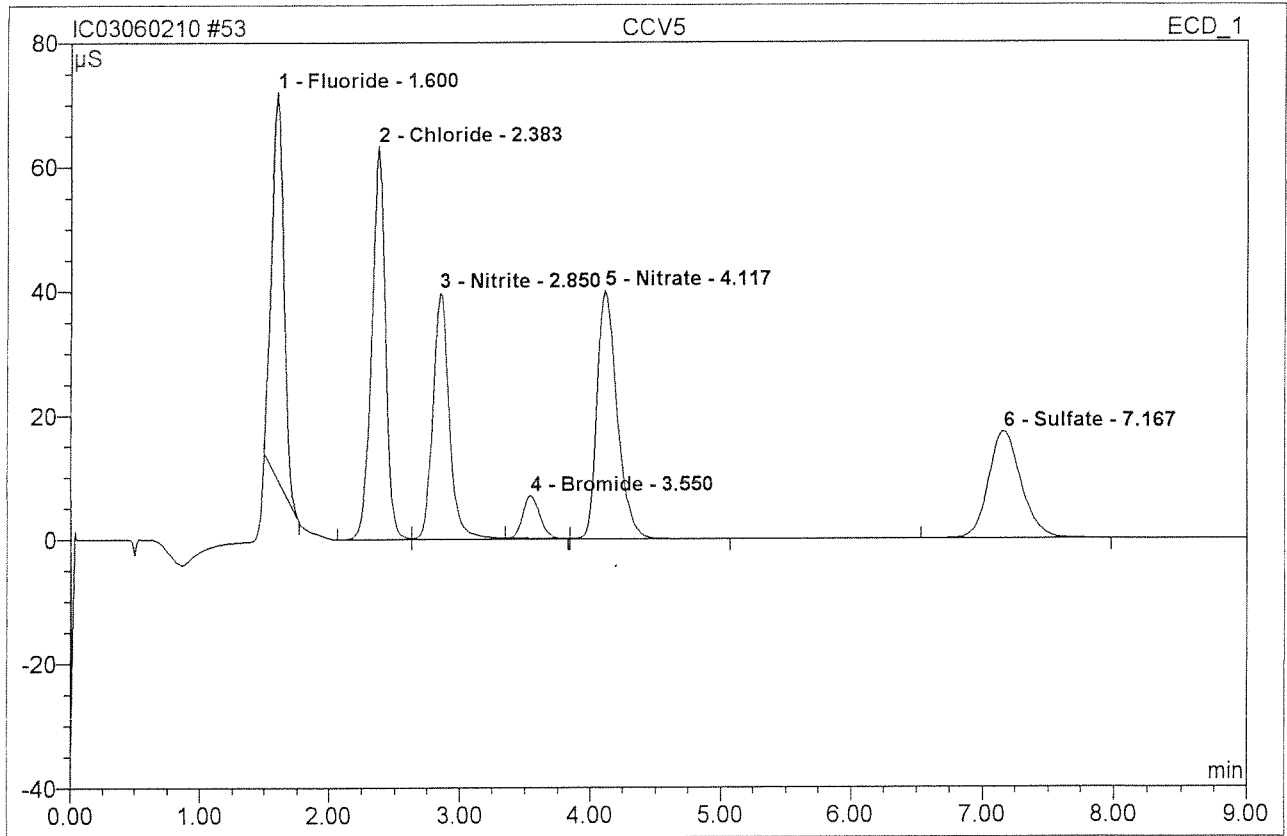


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	72.348	9.664	26.61	5.051101%	BMB*
2	2.38	Chloride	63.211	7.572	20.85	4.85647%	BM *
3	2.85	Nitrite	39.580	5.797	15.97	2.008101%	M *
4	3.55	Bromide	6.988	1.085	2.99	2.024101%	M *
5	4.12	Nitrate	39.978	7.220	19.88	1.96048%	MB*
6	7.17	Sulfate	17.269	4.973	13.69	5.053101%	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

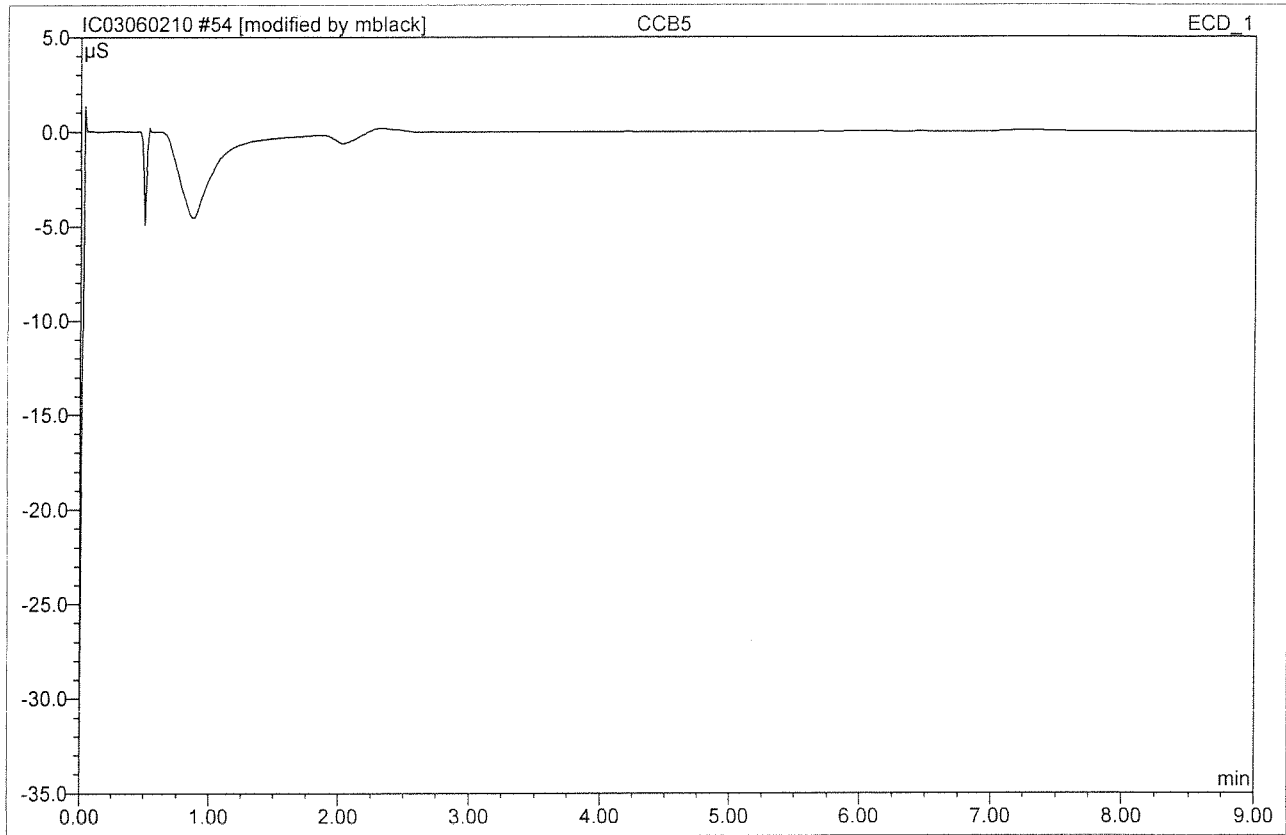


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	62.238	6.696	19.95	3.499	BMB
2	2.38	Chloride	63.350	7.644	22.77	4.901	BM
3	2.85	Nitrite	39.695	5.954	17.74	2.062	M
4	3.55	Bromide	6.892	1.043	3.11	1.947	Rd
5	4.12	Nitrate	40.027	7.259	21.62	1.970	MB
6	7.17	Sulfate	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

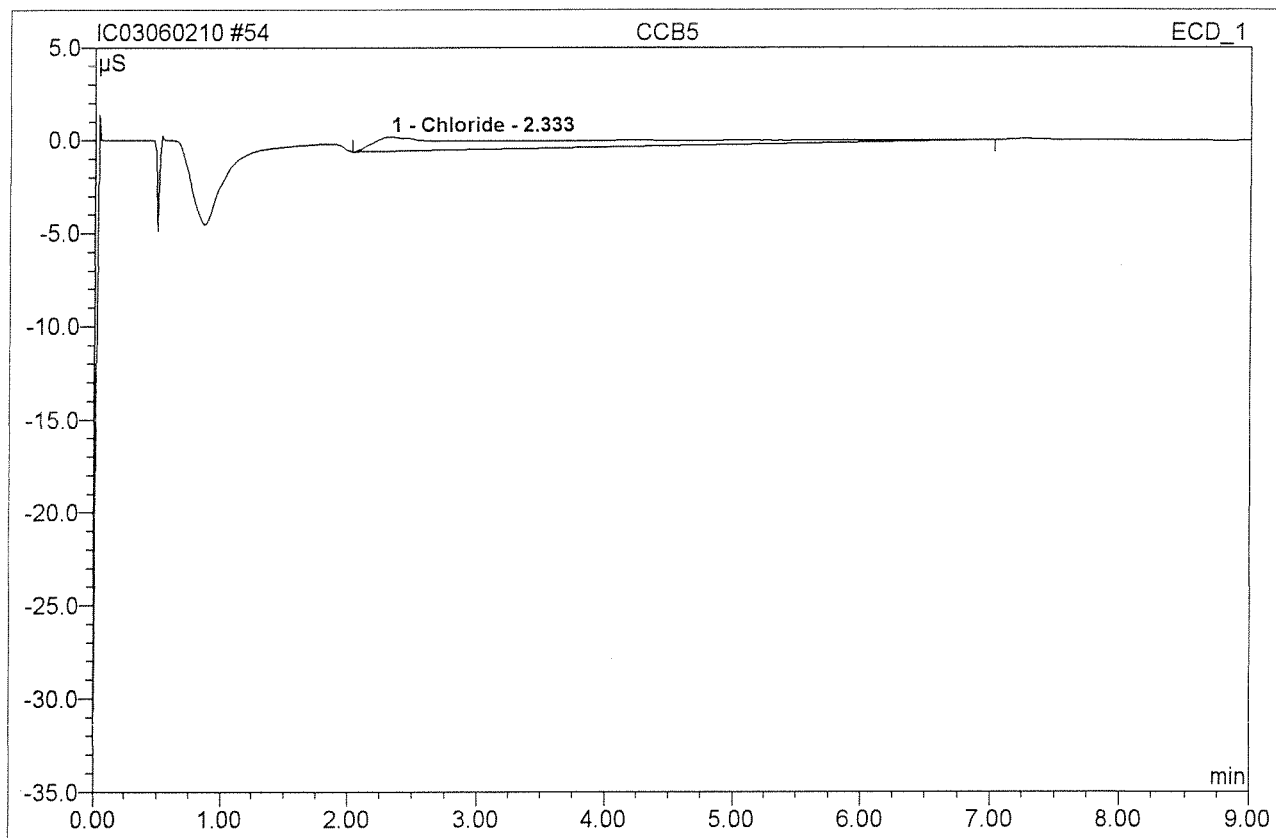


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	


 07103 779
 07103 779

6/4/10

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

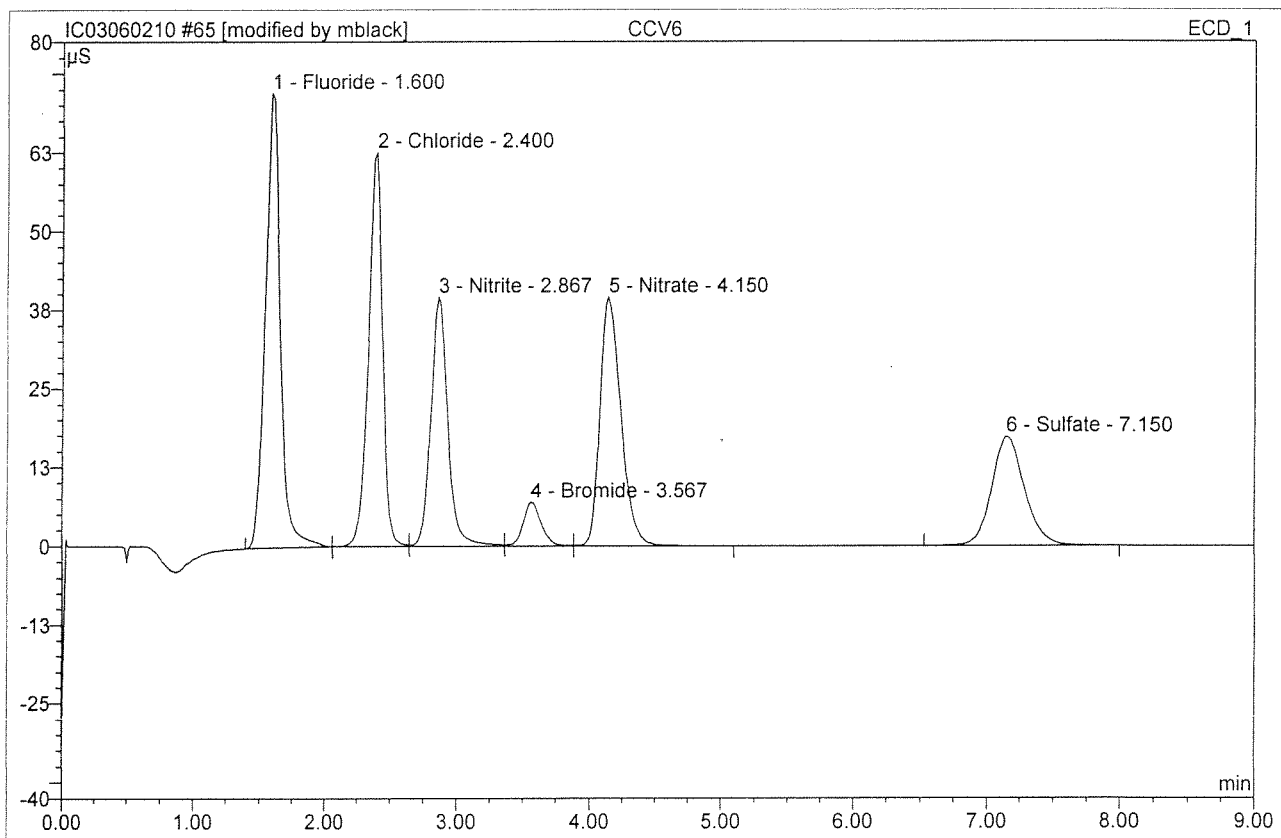


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.762	1.465	100.00	0.939	BMB
Total:			0.762	1.465	100.00	0.939	

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

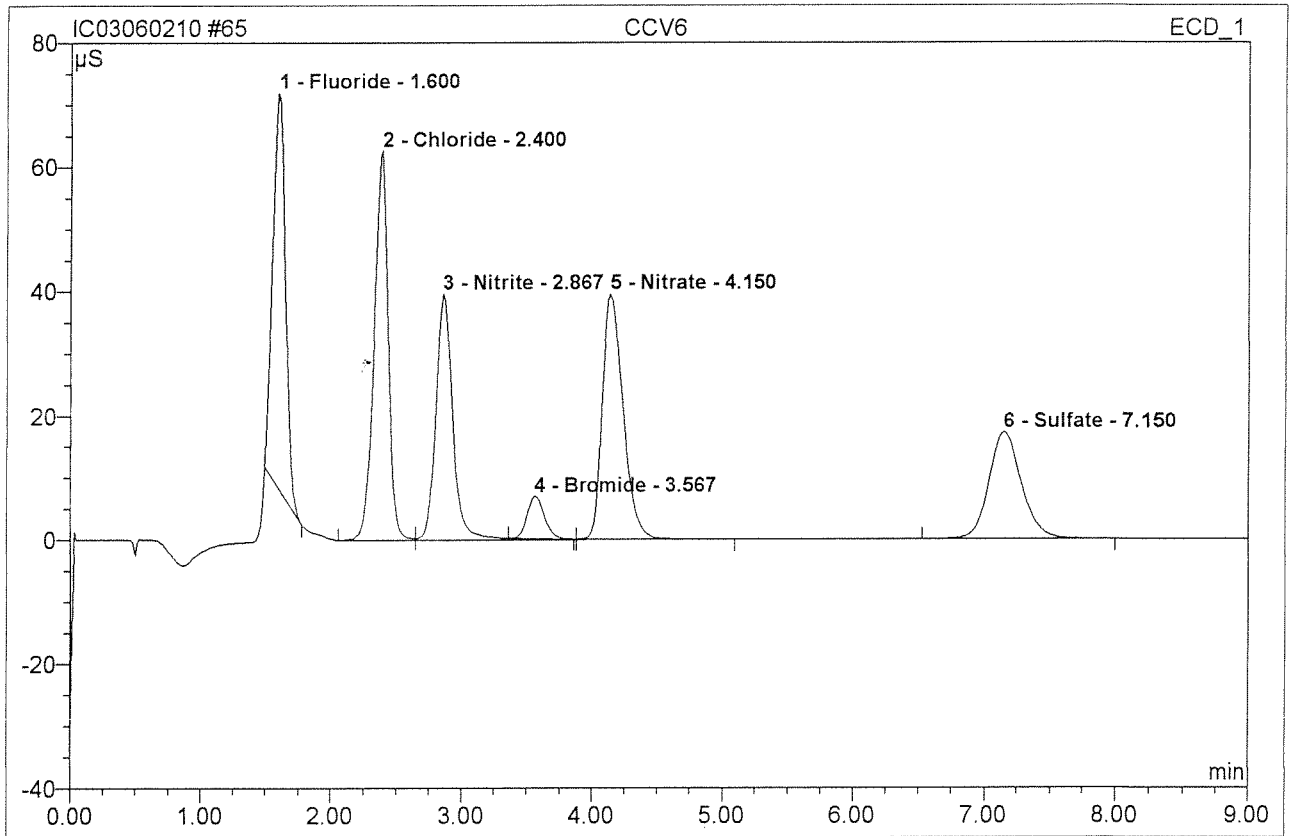


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	72.239	9.735	26.44	5.0881029	BMb*
2	2.40	Chloride	62.648	7.743	21.03	4.965992	bM *
3	2.87	Nitrite	39.566	5.910	16.05	2.0471032	M *
4	3.57	Bromide	7.034	1.127	3.06	2.1041052	M *
5	4.15	Nitrate	39.528	7.311	19.86	1.9851002	MB
6	7.15	Sulfate	17.281	4.990	13.55	5.0711019	BMB
Total:			238.294	36.816	100.00	21.259	

MS

JL 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

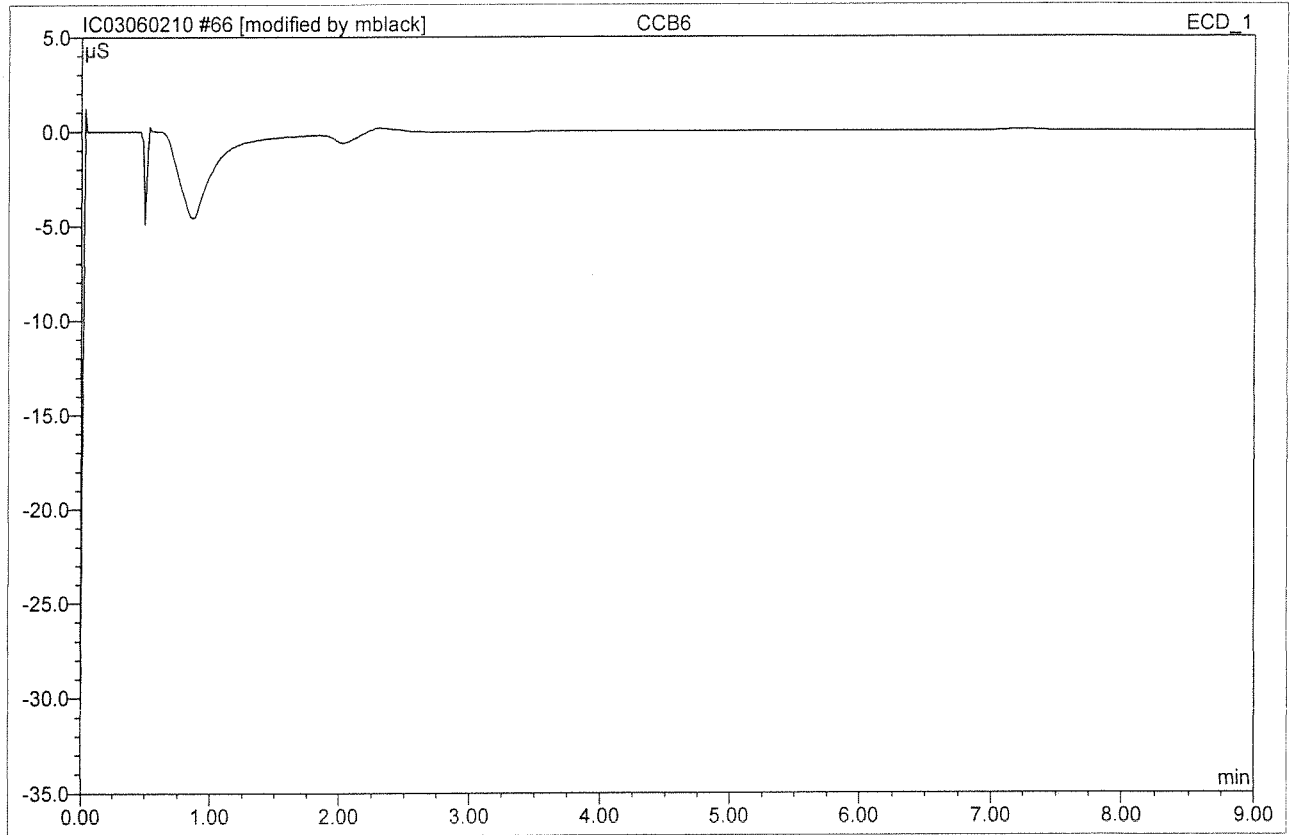


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	63.470	7.102	20.78	3.712	BMB
2	2.40	Chloride	62.648	7.743	22.65	4.965	BM
3	2.87	Nitrite	39.566	5.997	17.54	2.077	M
4	3.57	Bromide	6.847	1.040	3.04	1.942	Rd
5	4.15	Nitrate	39.528	7.311	21.39	1.985	MB
6	7.15	Sulfate	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

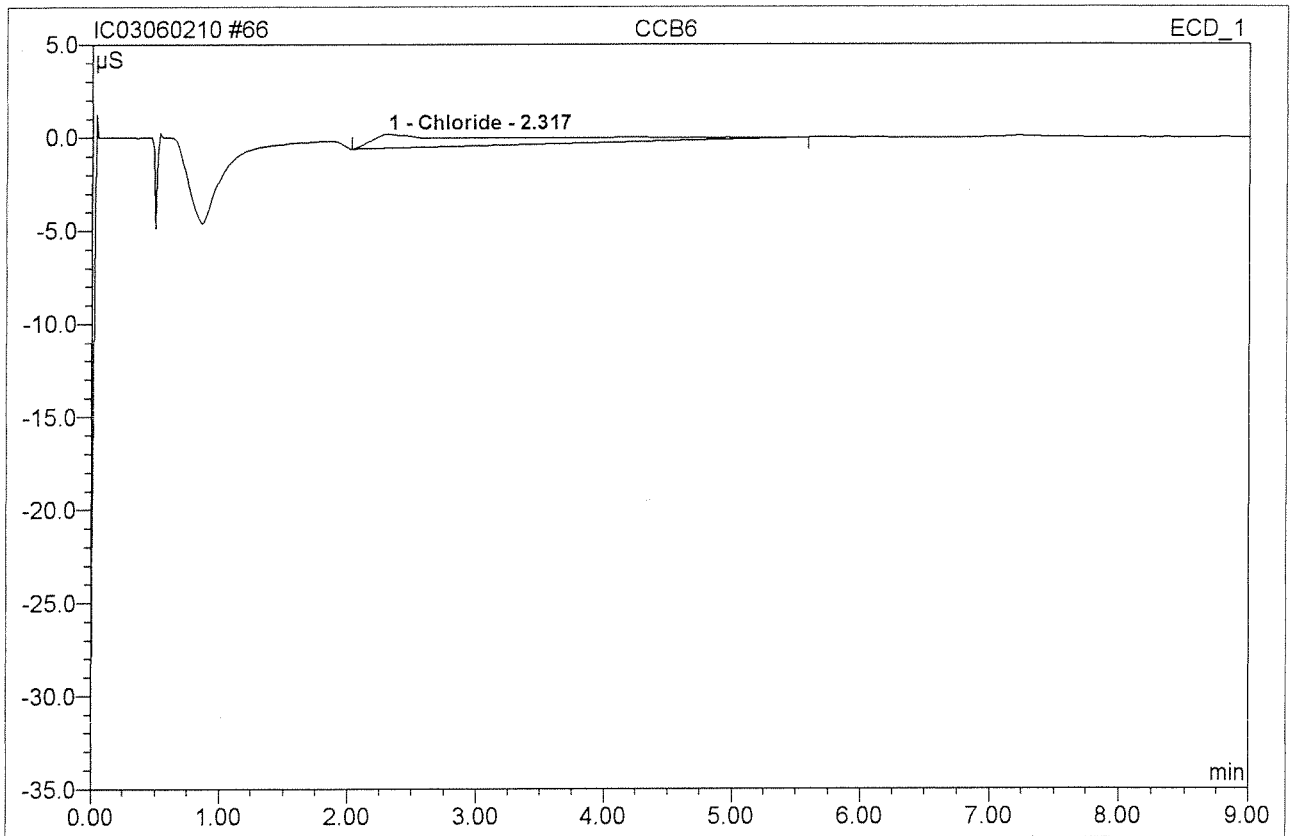


No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

JUN 03 2010

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

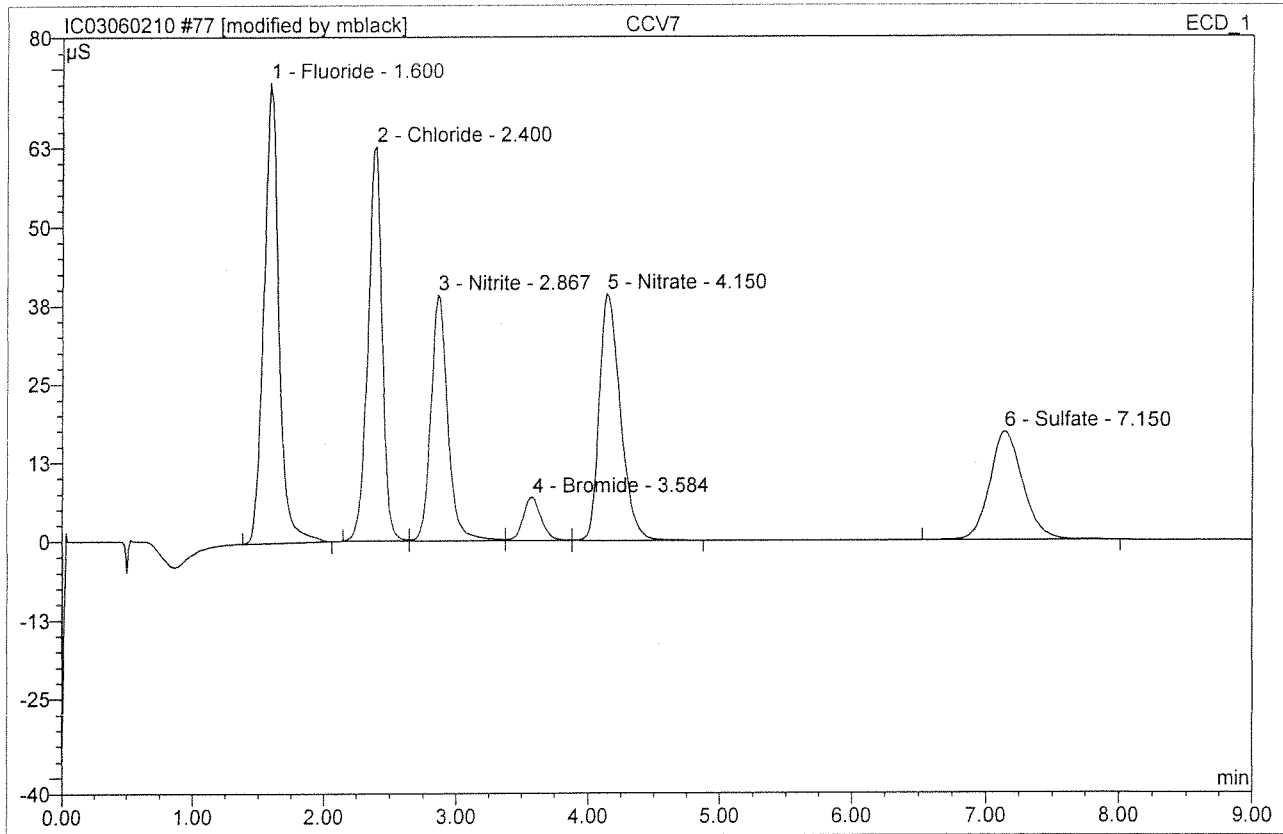


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.32	Chloride	0.744	1.015	100.00	0.651	BMB
Total:			0.744	1.015	100.00	0.651	

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

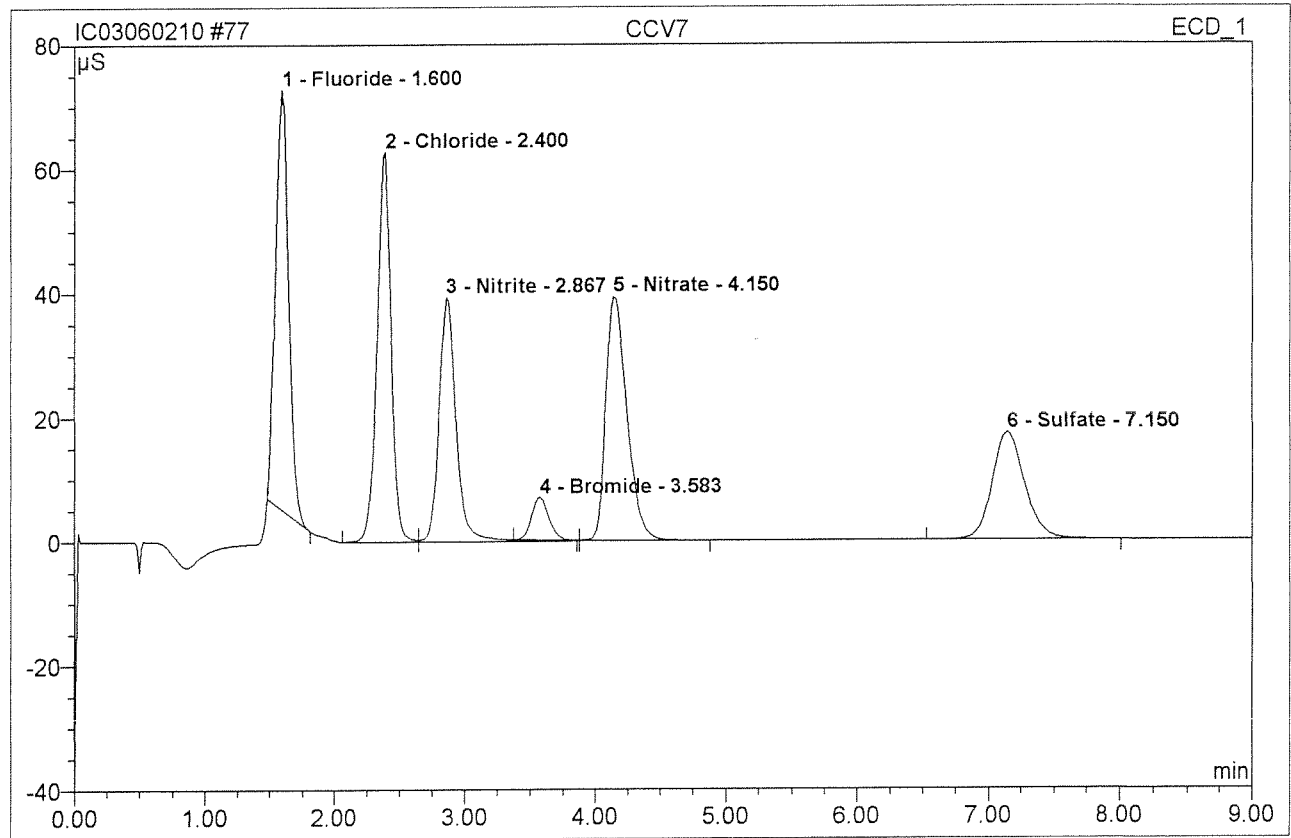


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	73.104	9.783	26.69	5.113/027	BMB*
2	2.40	Chloride	62.614	7.699	21.00	4.936/997	BM *
3	2.87	Nitrite	39.177	5.834	15.91	2.021/1017	M *
4	3.58	Bromide	6.912	1.103	3.01	2.058/1037	M *
5	4.15	Nitrate	39.225	7.275	19.85	1.975/997	MB*
6	7.15	Sulfate	17.276	4.966	13.55	5.046/1012	BMB
Total:			238.308	36.660	100.00	21.149	

MB

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

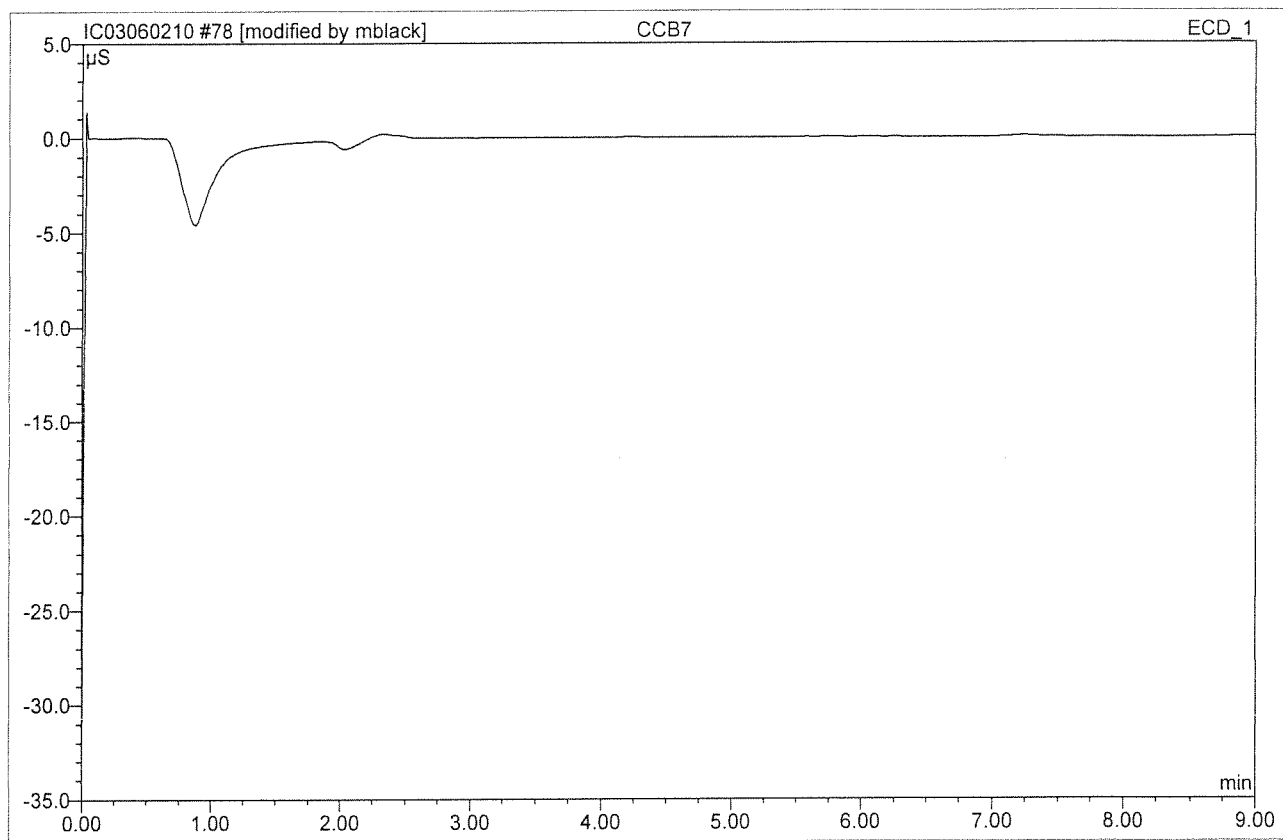


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	67.665	7.902	22.60	4.130	BMB
2	2.40	Chloride	62.733	7.762	22.20	4.977	BM
3	2.87	Nitrite	39.274	5.984	17.11	2.072	M
4	3.58	Bromide	6.792	1.049	3.00	1.958	Rd
5	4.15	Nitrate	39.260	7.299	20.88	1.981	MB
6	7.15	Sulfate	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

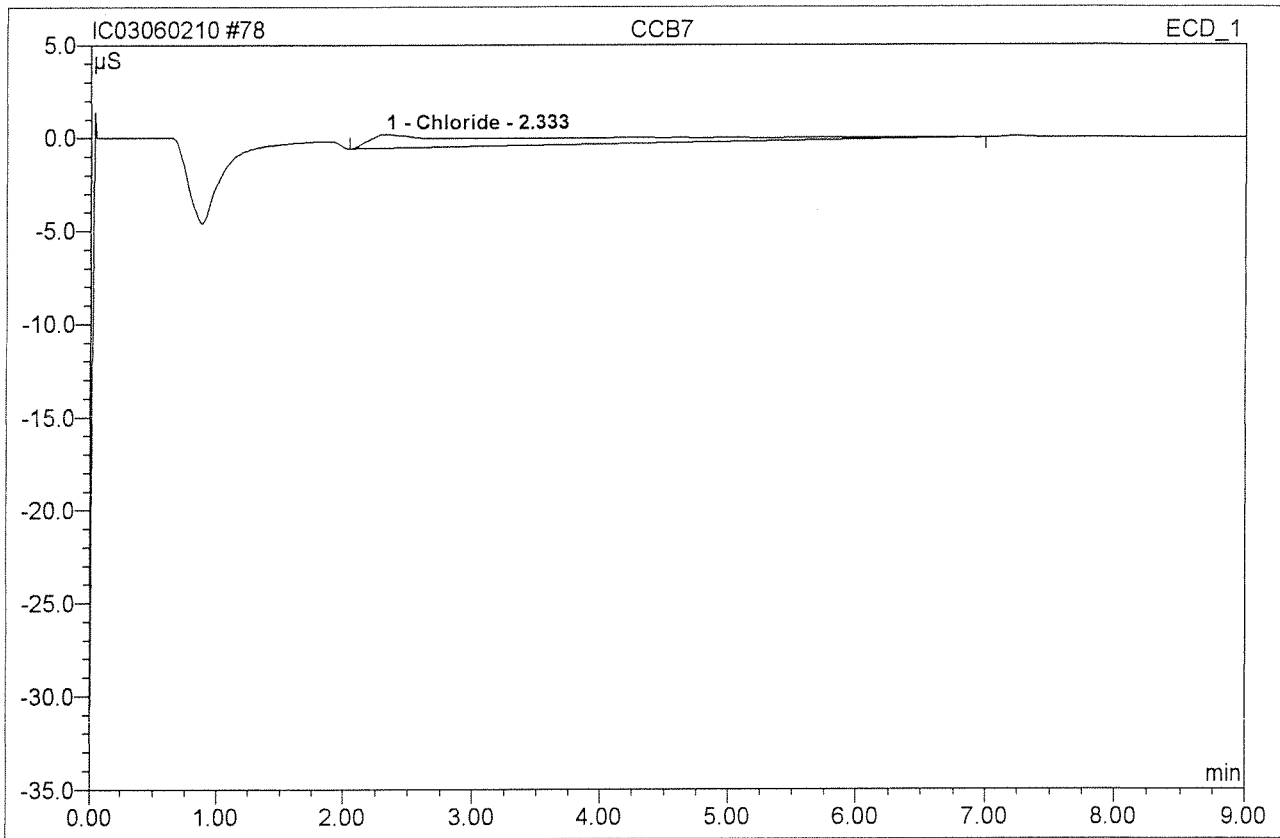


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

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

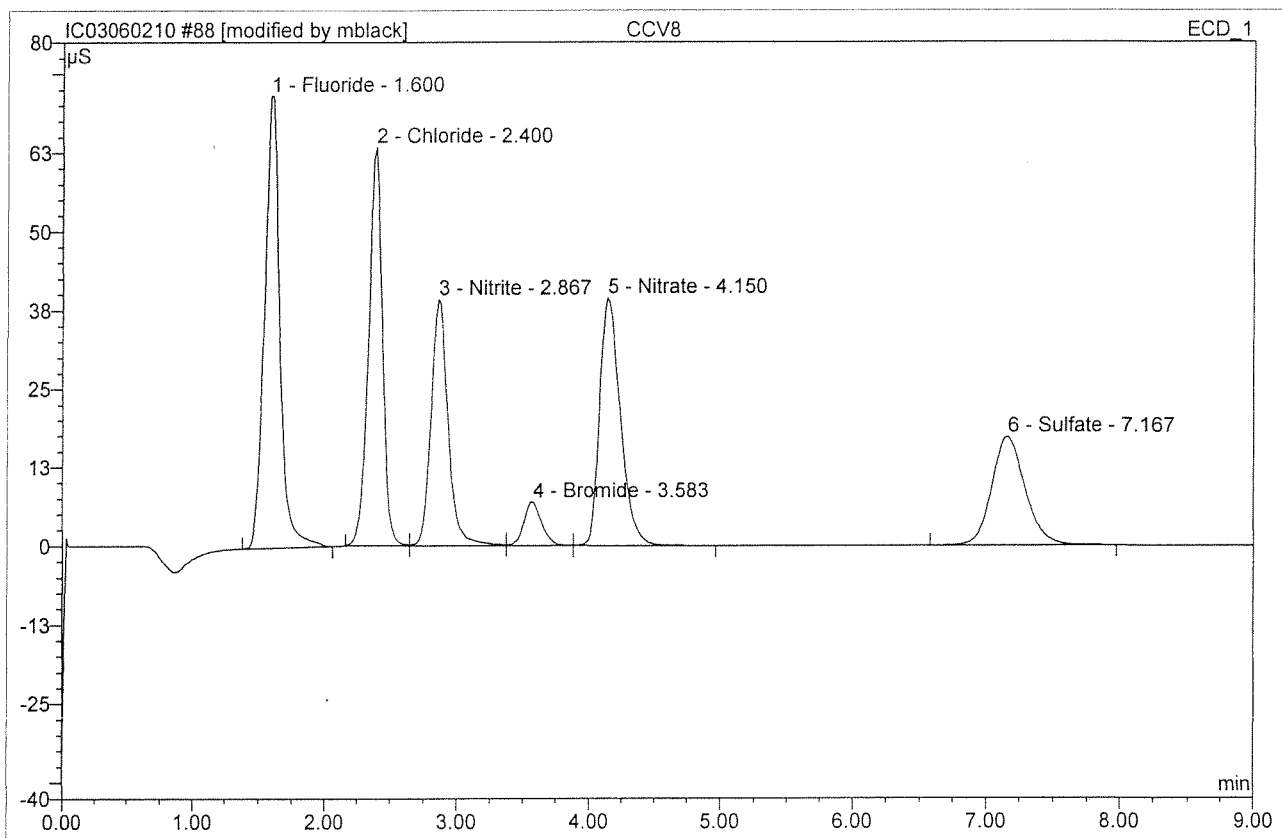


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.33	Chloride	0.752	1.431	100.00	0.917	BMB
Total:			0.752	1.431	100.00	0.917	

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



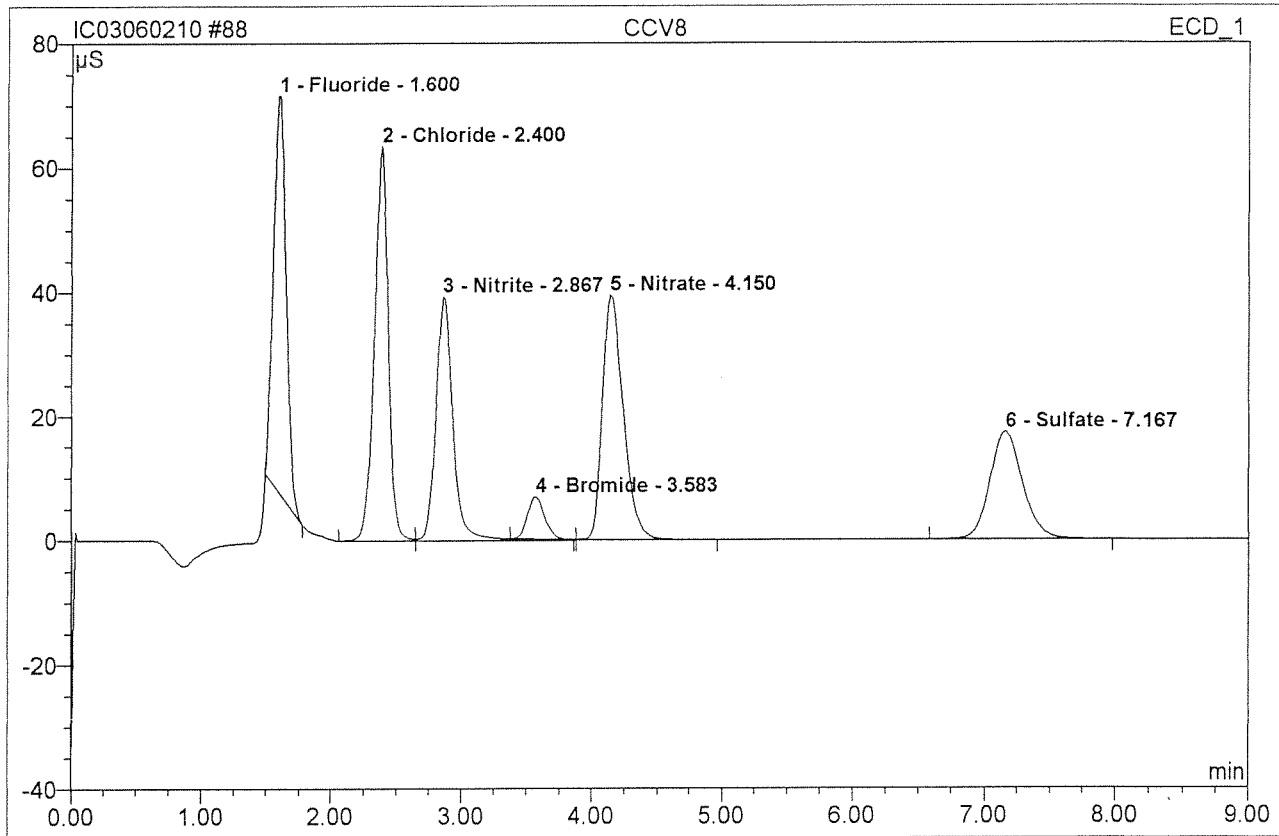
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	71.841	9.702	26.60	5.071161%	BMB*
2	2.40	Chloride	63.324	7.667	21.02	4.91648%	BM *
3	2.87	Nitrite	39.118	5.792	15.88	2.006161%	M *
4	3.58	Bromide	6.874	1.084	2.97	2.024101%	M *
5	4.15	Nitrate	39.378	7.231	19.82	1.96345%	MB*
6	7.17	Sulfate	17.282	5.003	13.71	5.084162%	BMB
Total:			237.819	36.481	100.00	21.064	

(MB)

6/6/10

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

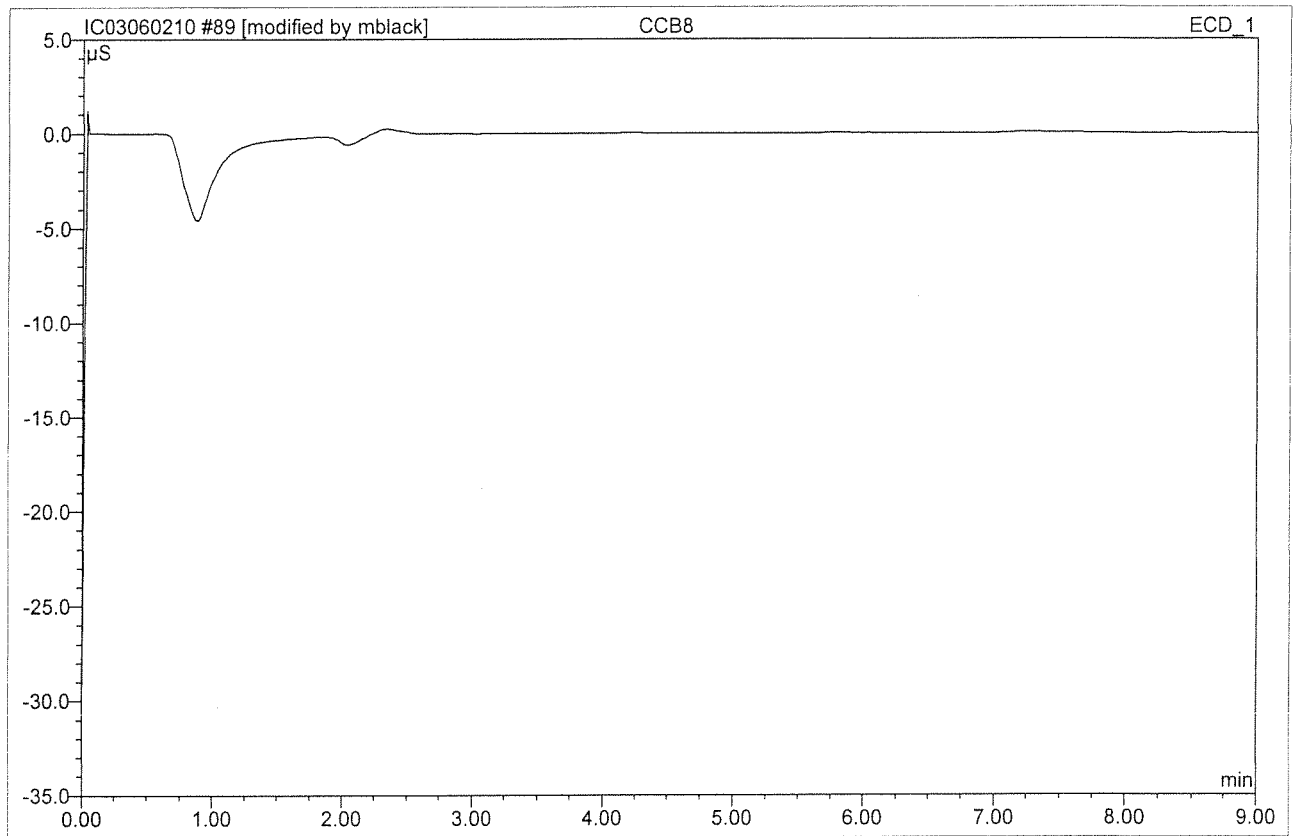


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	63.682	7.218	21.06	3.773	BMB
2	2.40	Chloride	63.500	7.758	22.64	4.975	BM
3	2.87	Nitrite	39.263	5.973	17.43	2.069	M
4	3.58	Bromide	6.788	1.047	3.06	1.955	Rd
5	4.15	Nitrate	39.435	7.271	21.22	1.974	MB
6	7.17	Sulfate	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

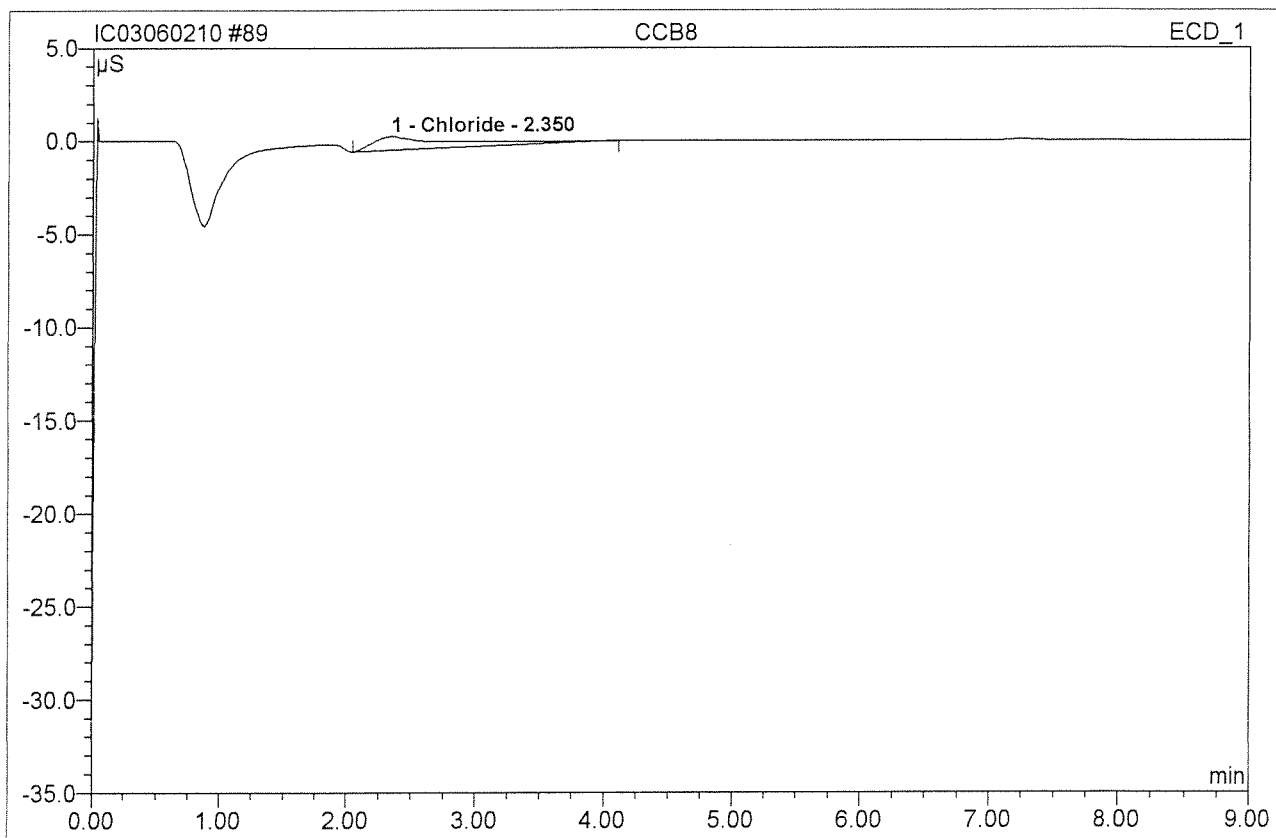


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

MB *6/4/10*

6/3/2010

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
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.

04/26/10

COLUMBIA ANALYTICAL SERVICES, INC.

Ion Chromatography Calibration Data

Sequence: IC03042610

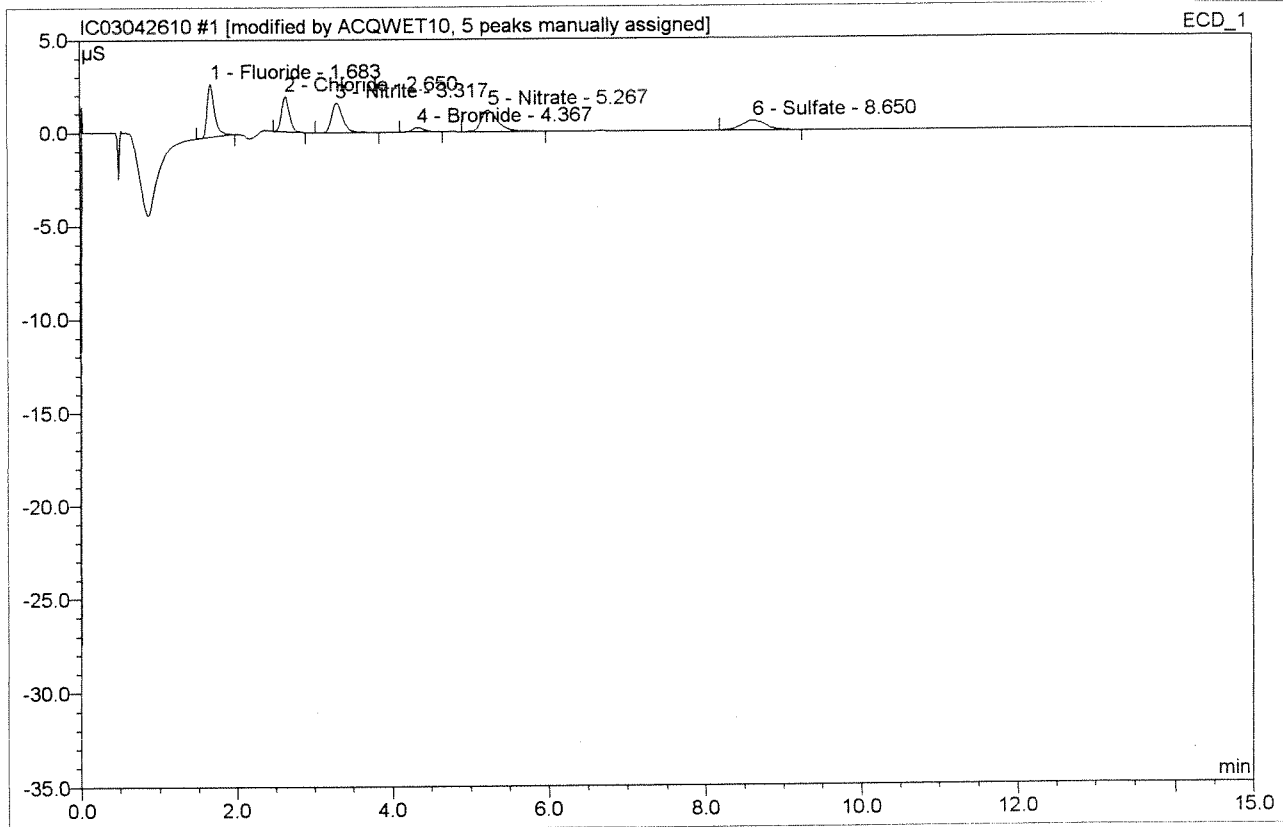
Date: 04/26/10

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.

5/4/10/10

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	2.860	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	

After Initials

MR

BH108110

APR 26 2010

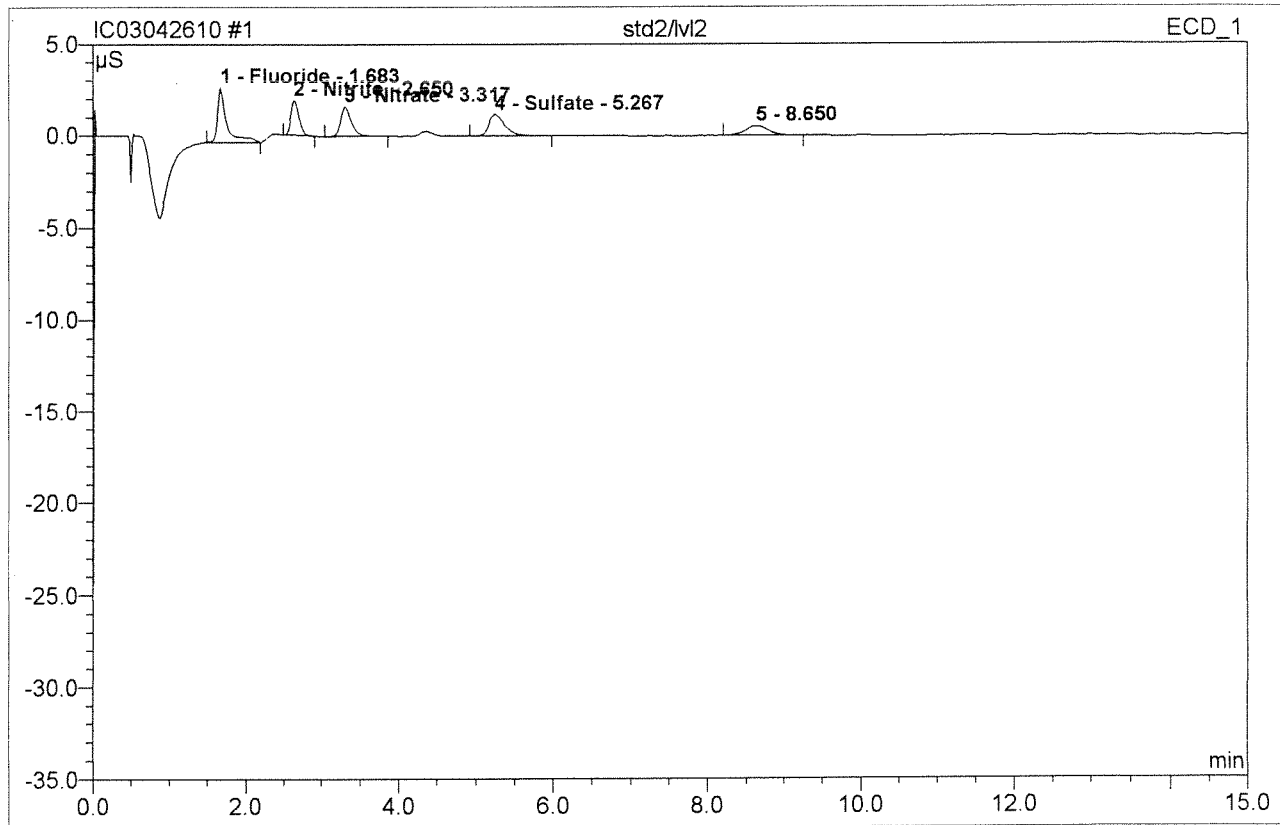
Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

default/Integration

None Peak(s) found
None Peak(s) assigned

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

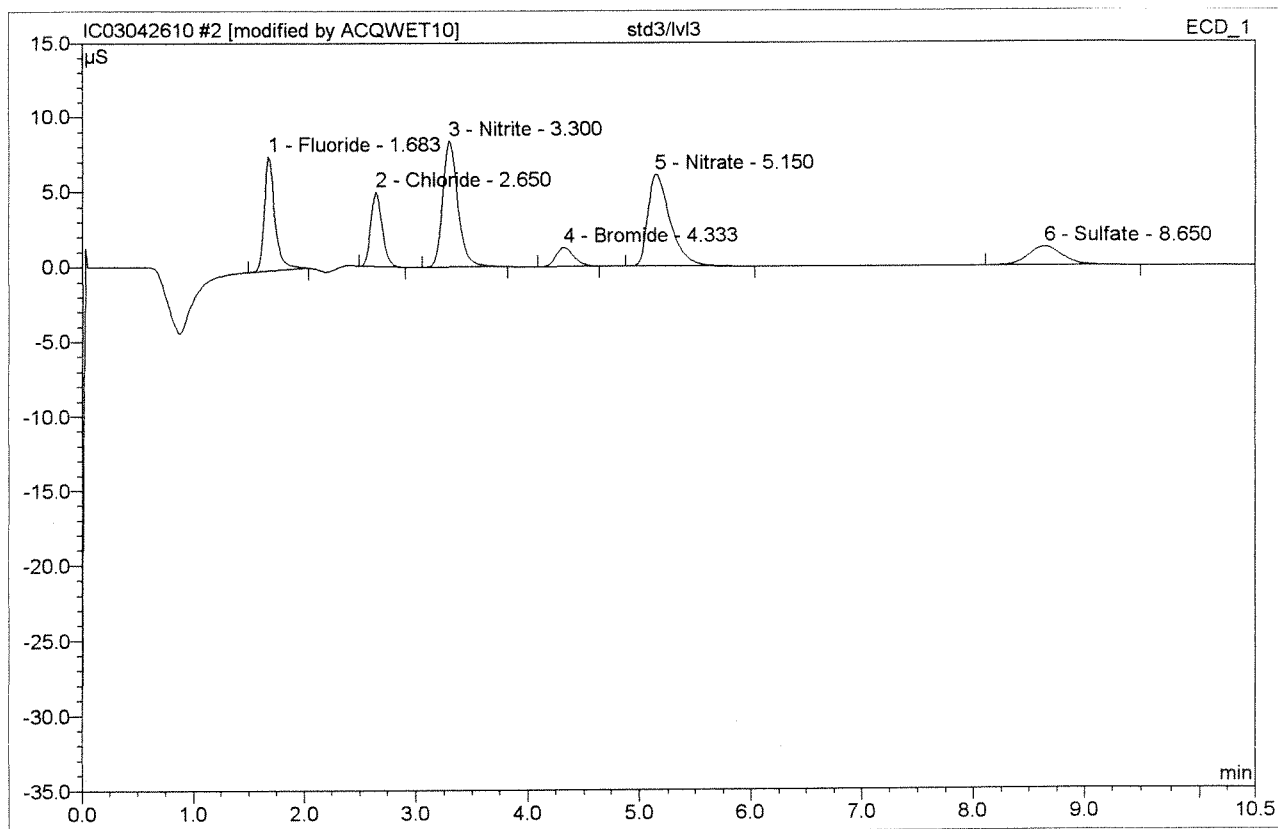


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.68	Fluoride	2.953	0.421	30.83	0.200	BMB
2	2.65	Nitrite	1.892	0.229	16.78	0.100	BMB
3	3.32	Nitrate	1.586	0.259	19.00	0.100	BMB
4	5.27	Sulfate	1.144	0.279	20.42	0.200	BMB
5	8.65	n.a.	0.507	0.177	12.97	n.a.	BMB
Total:			8.081	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	

After
Initial

MB

6/11/10

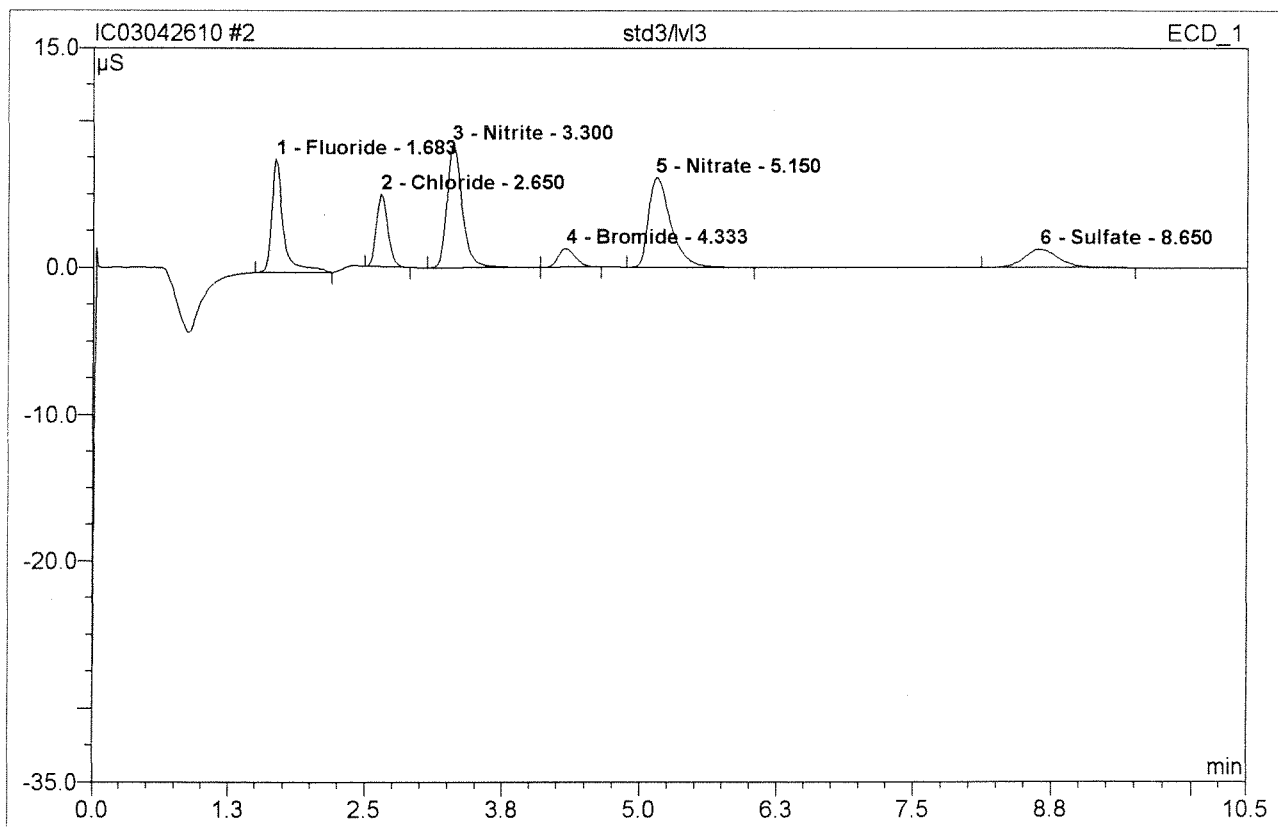
default/Integration

APR 25 2010

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

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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



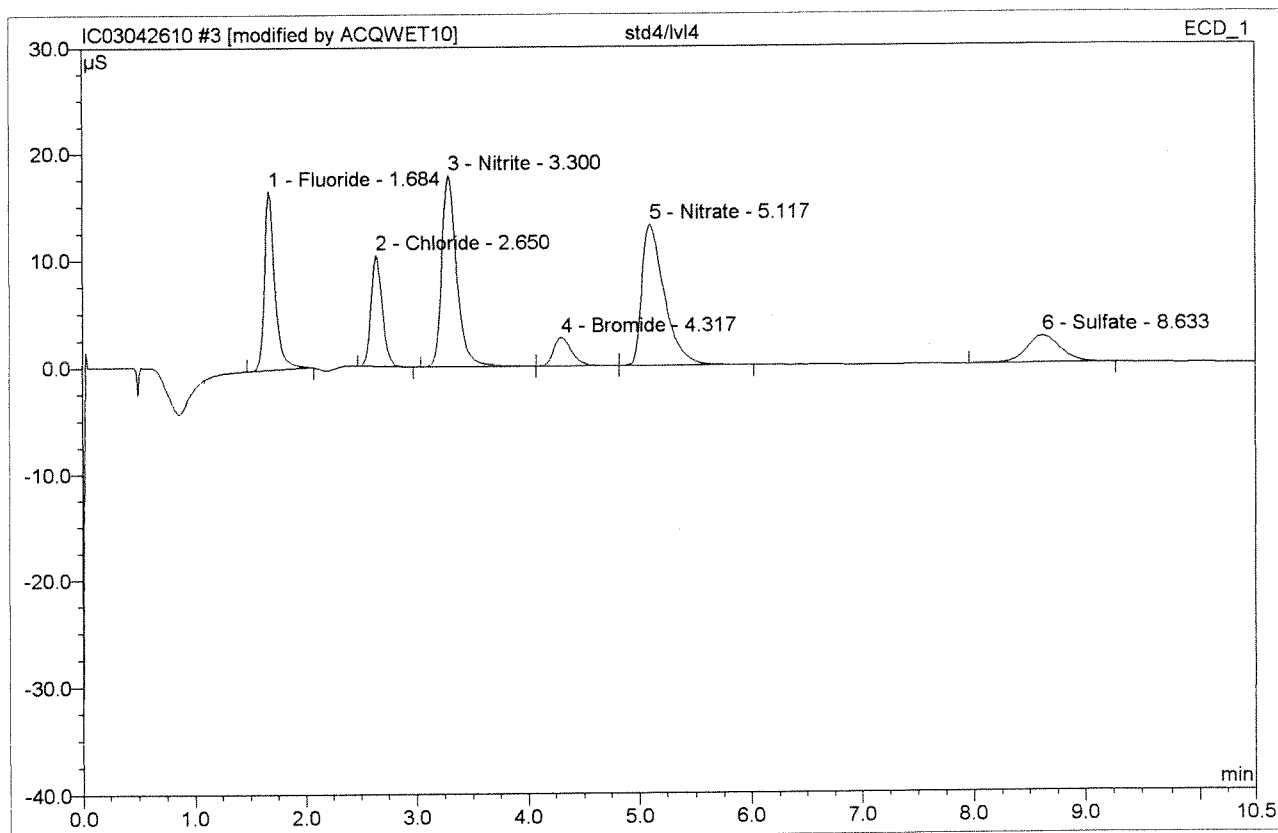
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	7.720	0.949	19.04	0.510	BMB
2	2.65	Chloride	4.937	0.589	11.82	0.502	BMB
3	3.30	Nitrite	8.377	1.347	27.02	0.501	BMB
4	4.33	Bromide	1.271	0.229	4.60	0.501	bMB
5	5.15	Nitrate	6.087	1.425	28.59	0.500	BMB
6	8.65	Sulfate	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 µS*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	

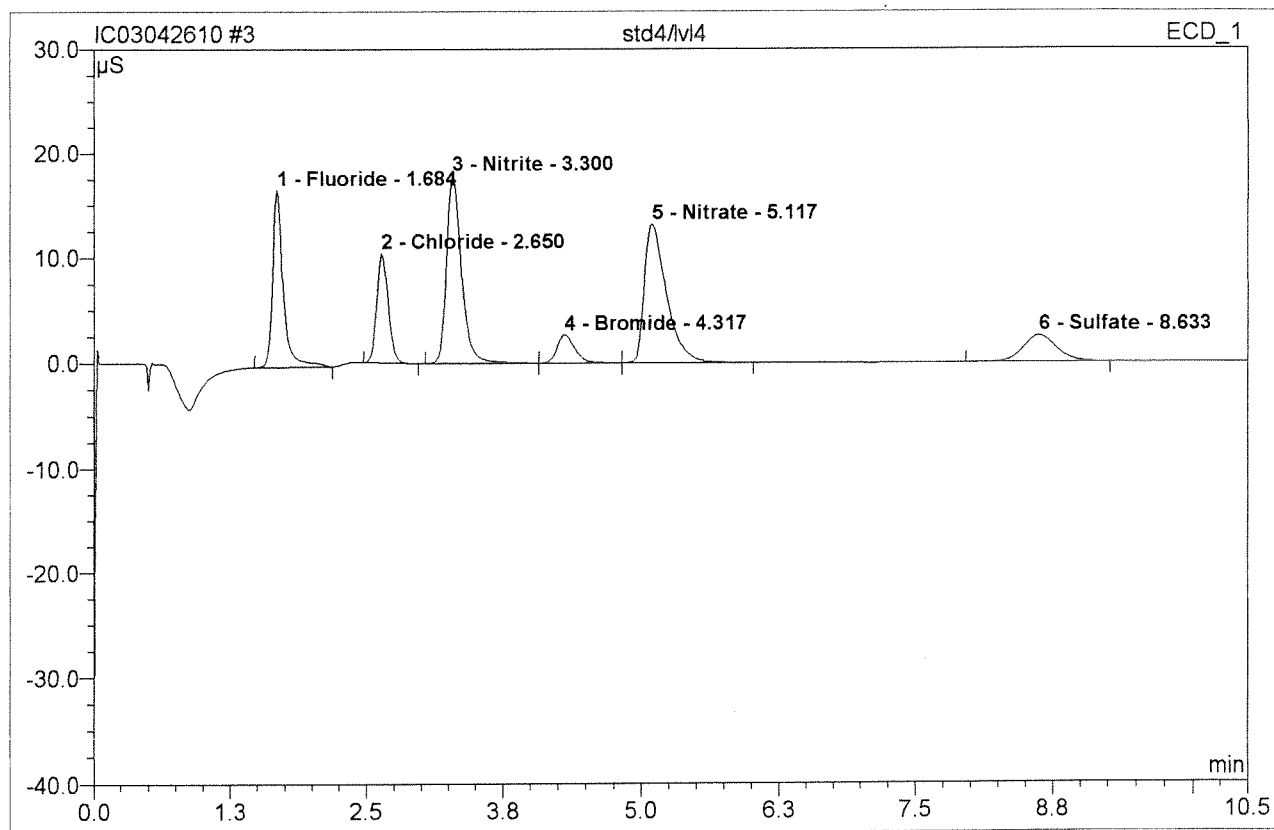
After
initials

AP

4/26/2010

3 std4/lv14

Sample Name:	std4/lv14	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



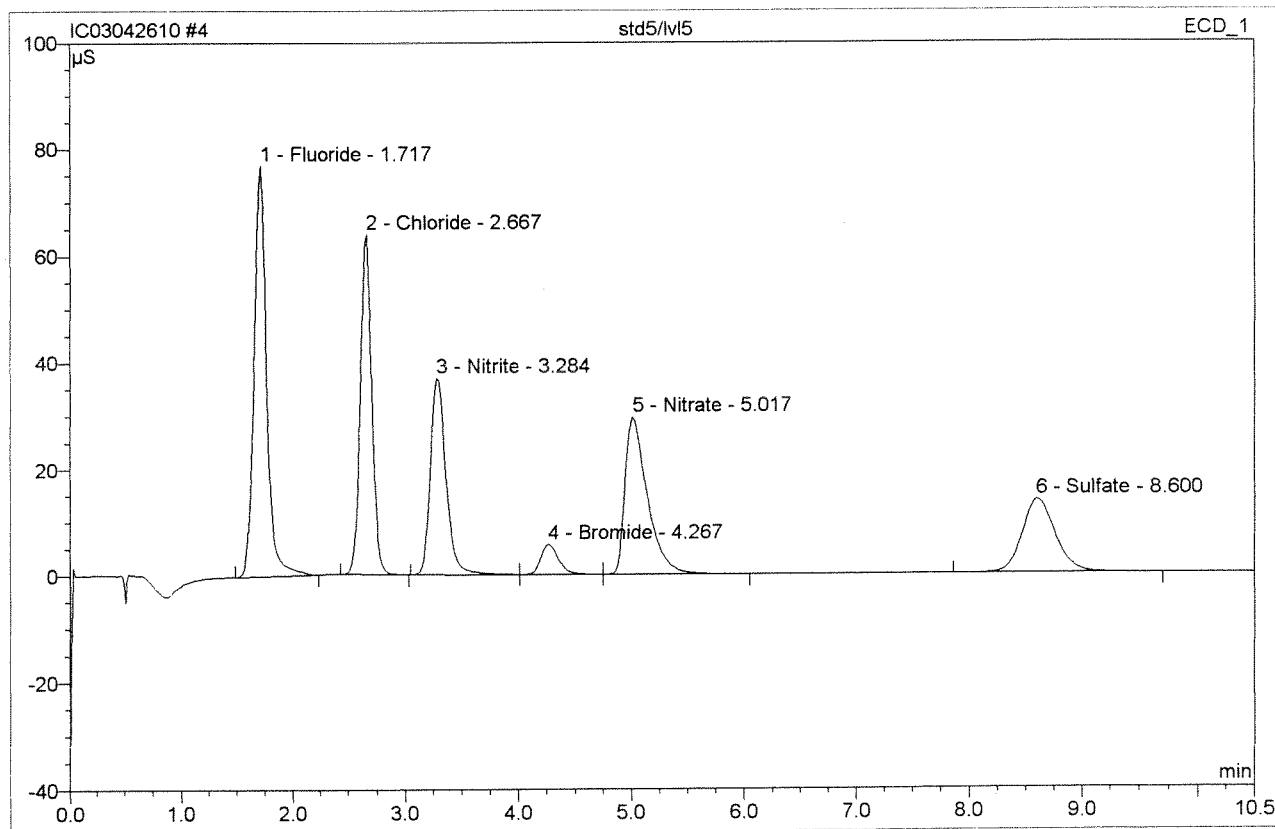
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	16.774	1.915	18.46	1.007	BMB
2	2.65	Chloride	10.365	1.223	11.79	1.009	BMB
3	3.30	Nitrite	17.874	2.814	27.13	1.009	BMB
4	4.32	Bromide	2.661	0.487	4.69	1.012	bMB
5	5.12	Nitrate	13.149	3.046	29.36	1.014	bMB
6	8.63	Sulfate	2.522	0.888	8.56	1.000	BMB
Total:			63.346	10.374	100.00	6.051	

Before

APR 26 2010

4 std5/lv15

Sample Name:	std5/lv15	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	

After Initials *(Signature)*

57-108116

default/Integration

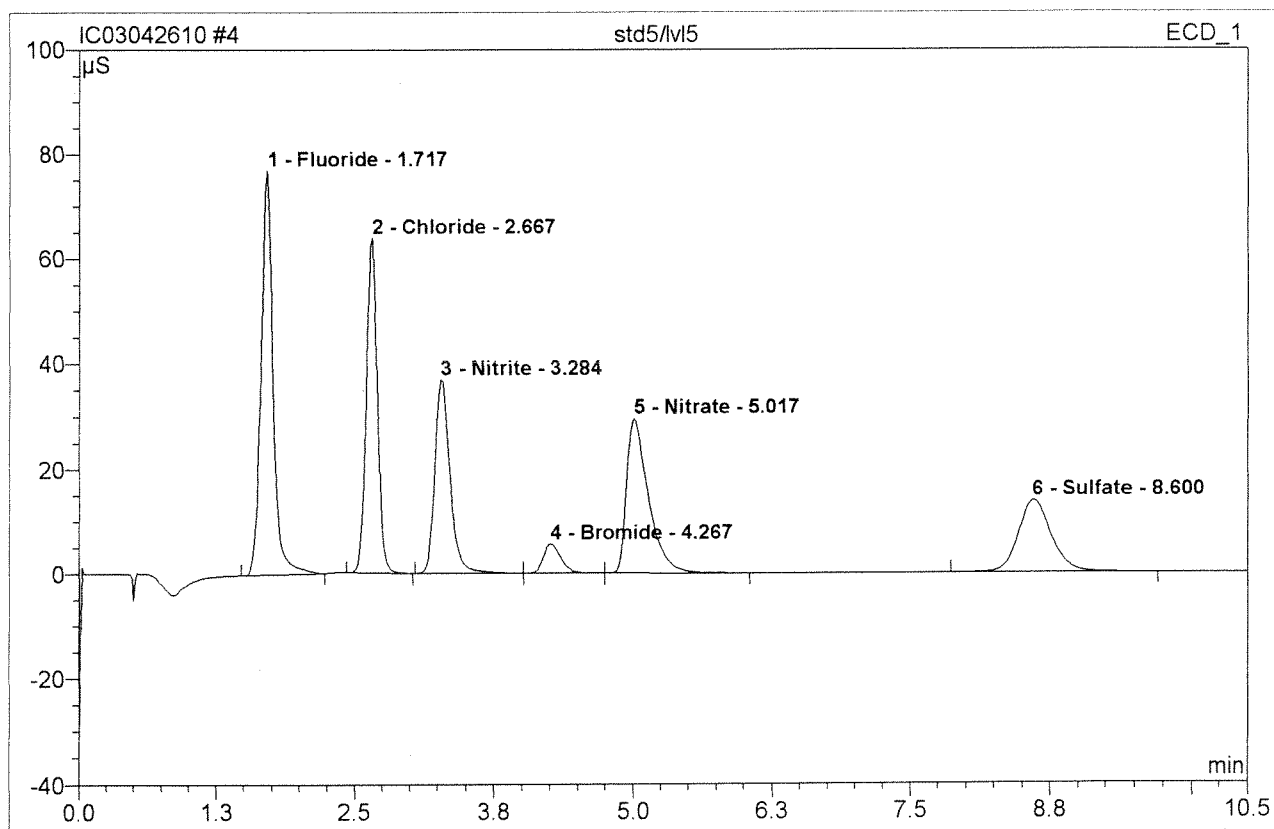
APR 26 2010

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

Chromatogram not found
Integration assumed
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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



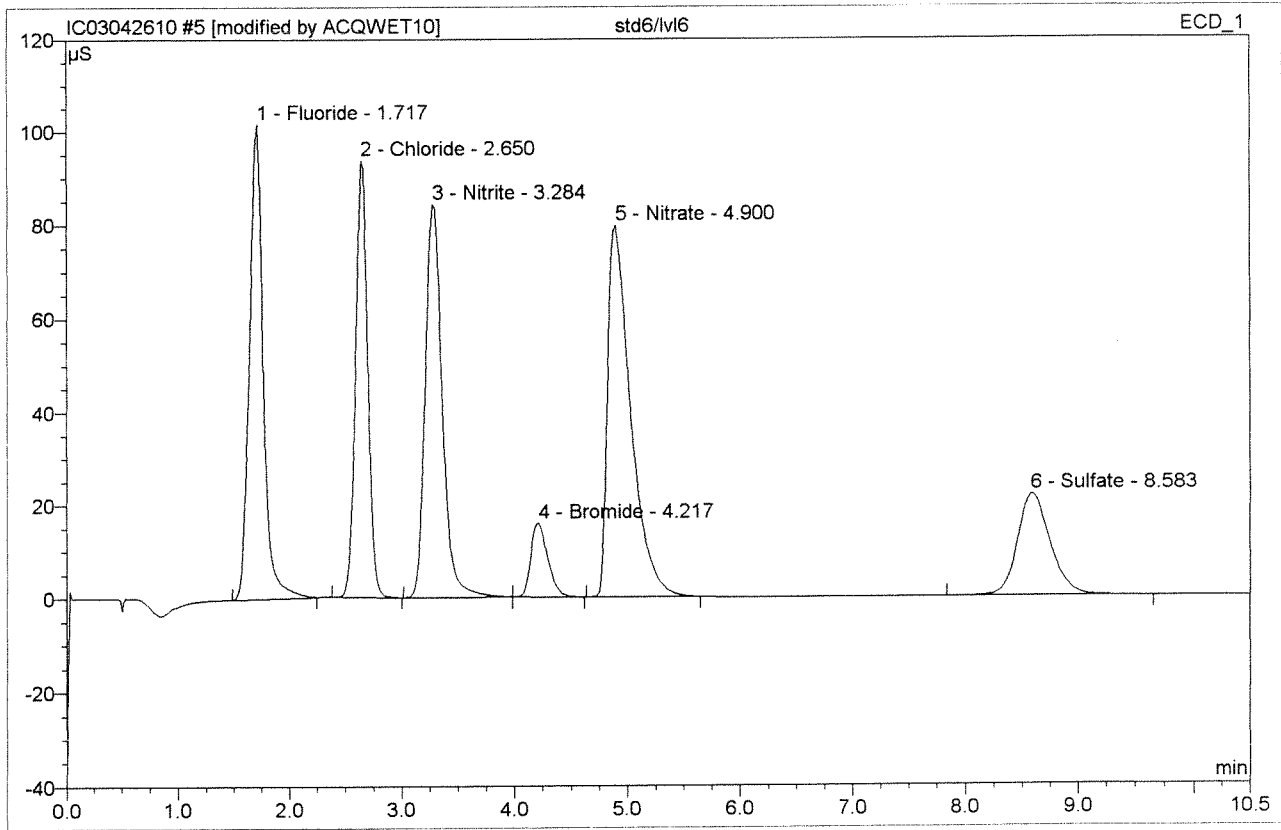
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.72	Fluoride	76.994	9.731	27.38	5.005	BMB
2	2.67	Chloride	63.721	7.472	21.02	5.047	BMB
3	3.28	Nitrite	36.986	5.862	16.49	2.024	BMB
4	4.27	Bromide	5.677	1.007	2.83	2.022	bMB
5	5.02	Nitrate	29.541	6.754	19.00	2.054	bMB
6	8.60	Sulfate	13.884	4.718	13.27	5.014	BMB
Total:			226.803	35.544	100.00	21.166	

Before

APR 26 2010

Chromleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

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



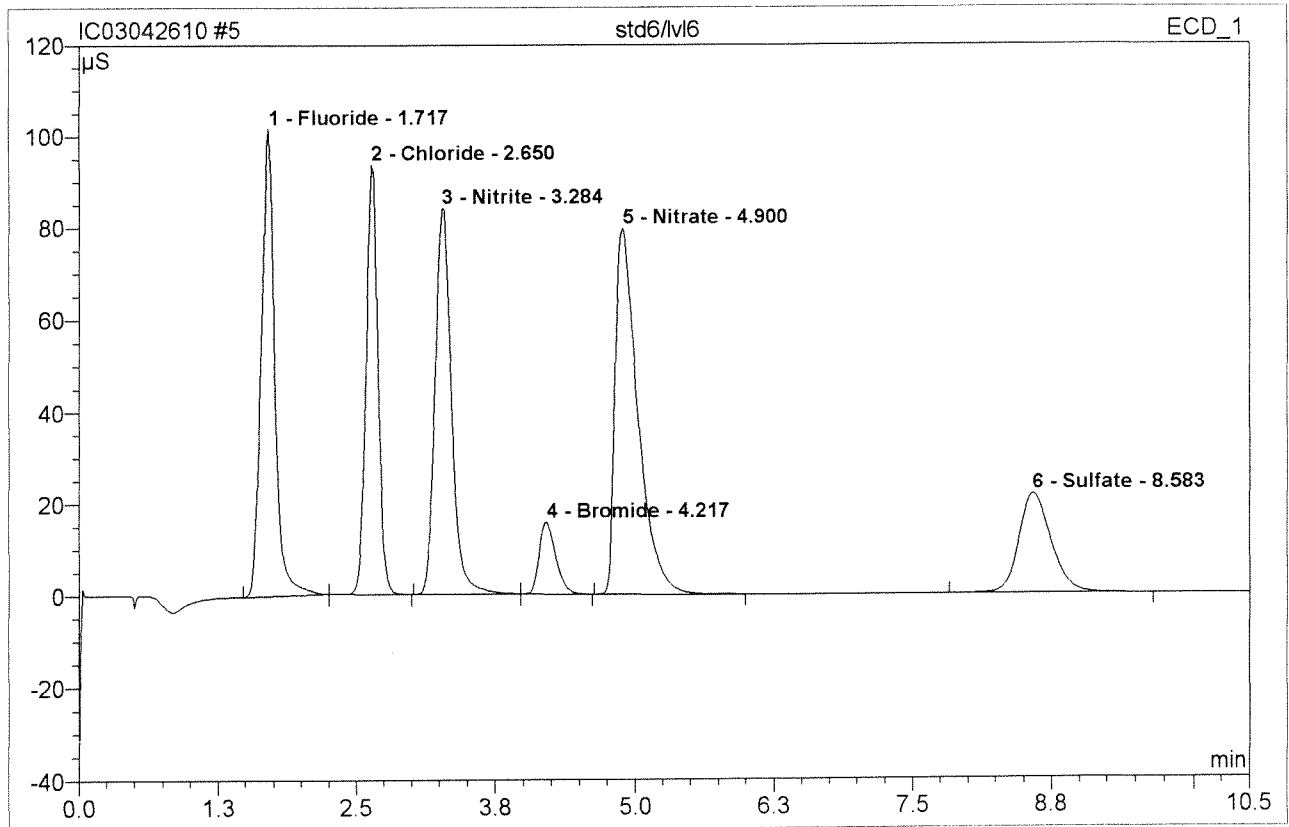
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %	Amount	Type
1	1.72	Fluoride	101.686	14.494	20.88	7.575	BMB*
2	2.65	Chloride	93.434	11.601	16.71	7.439	BMB*
3	3.28	Nitrite	84.060	14.428	20.79	4.997	BMb
4	4.22	Bromide	15.785	2.719	3.92	5.074	bMB
5	4.90	Nitrate	79.649	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	

After initials MB

6/11/2010

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	

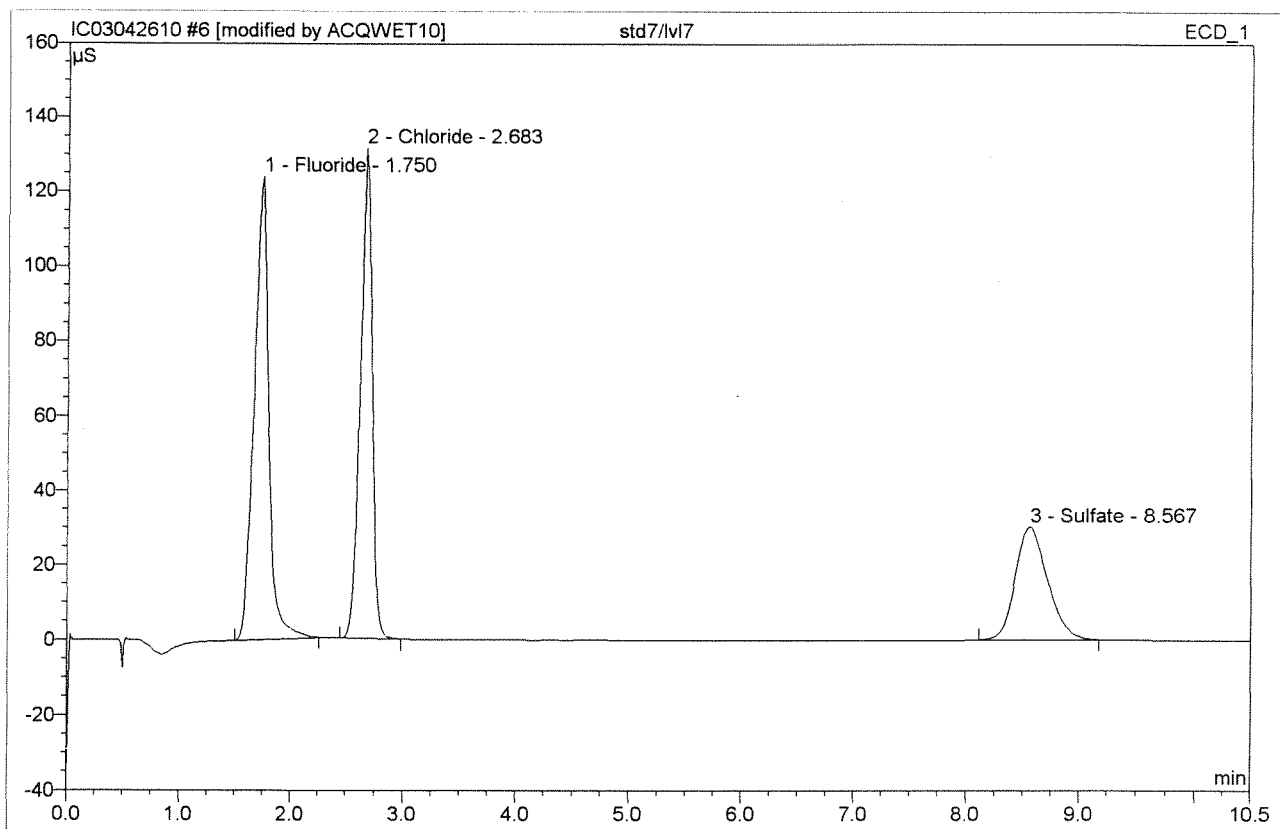
Before

APR 26 2010

default/Integration

Chromleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

6 std7/lv17			
Sample Name:	std7/lv17	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	

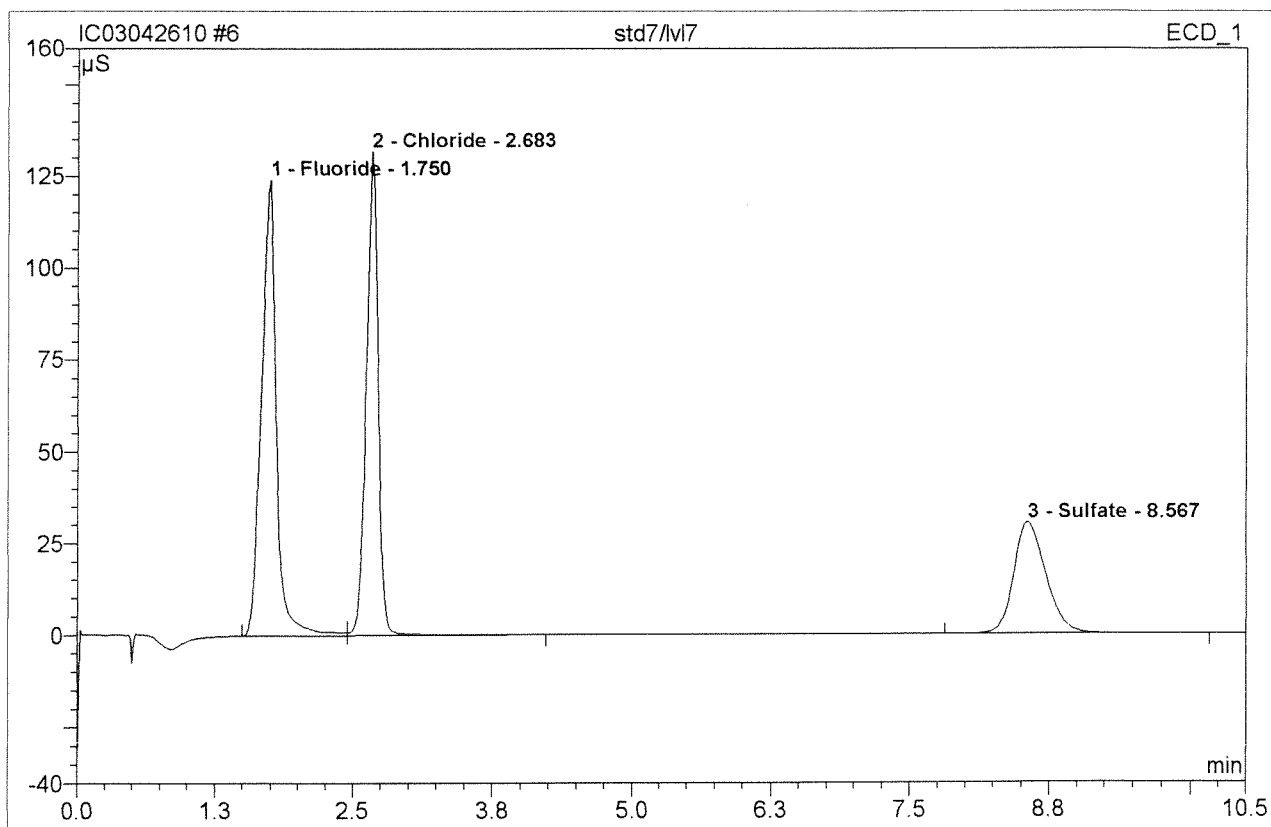
After initials MS

6-9-10

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

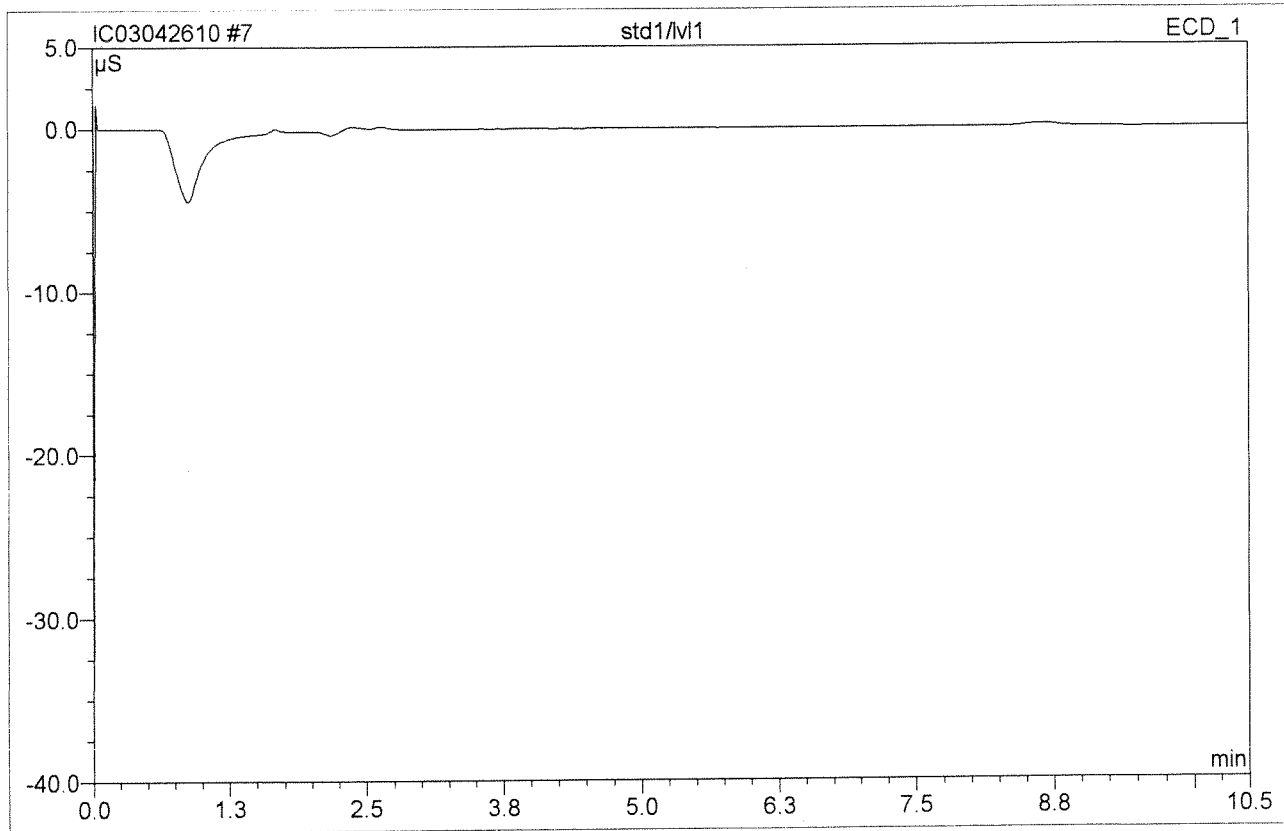


No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount	Type
1	1.75	Fluoride	124.185	19.437	42.28	10.022	BM
2	2.68	Chloride	131.836	16.307	35.47	10.300	MB
3	8.57	Sulfate	30.454	10.233	22.26	10.259	BMB
Total:			286.475	45.977	100.00	30.581	

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

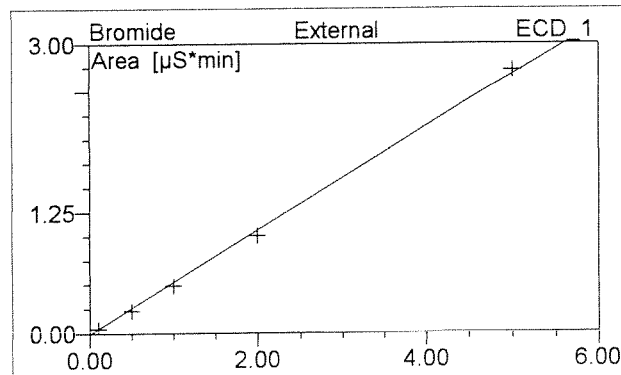
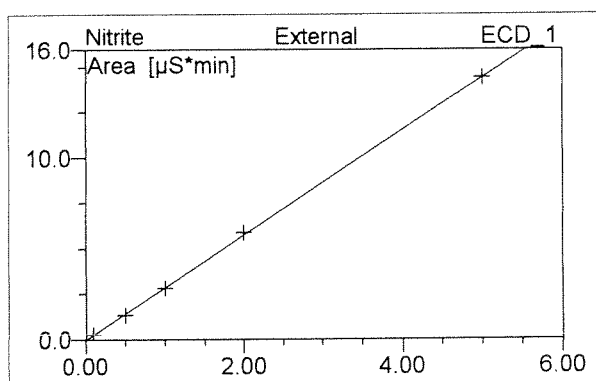
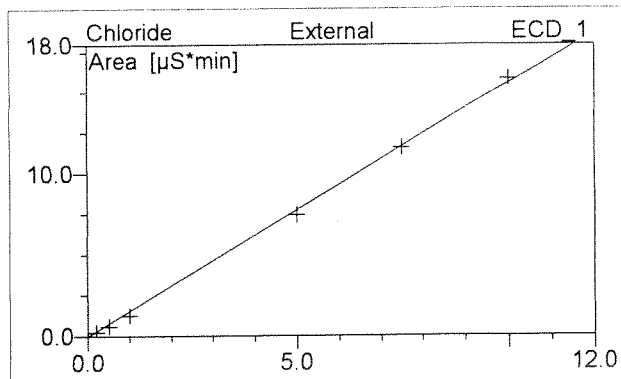
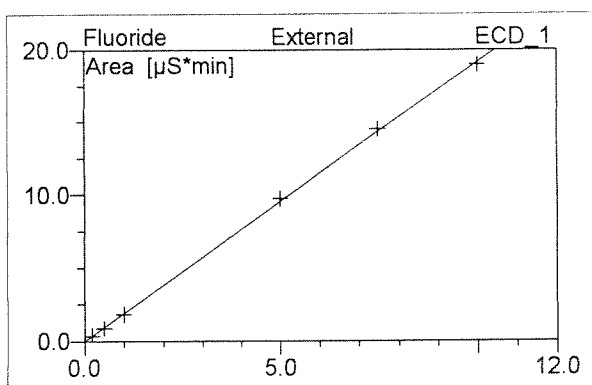


No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

BAW/10

7 std1/lvl1

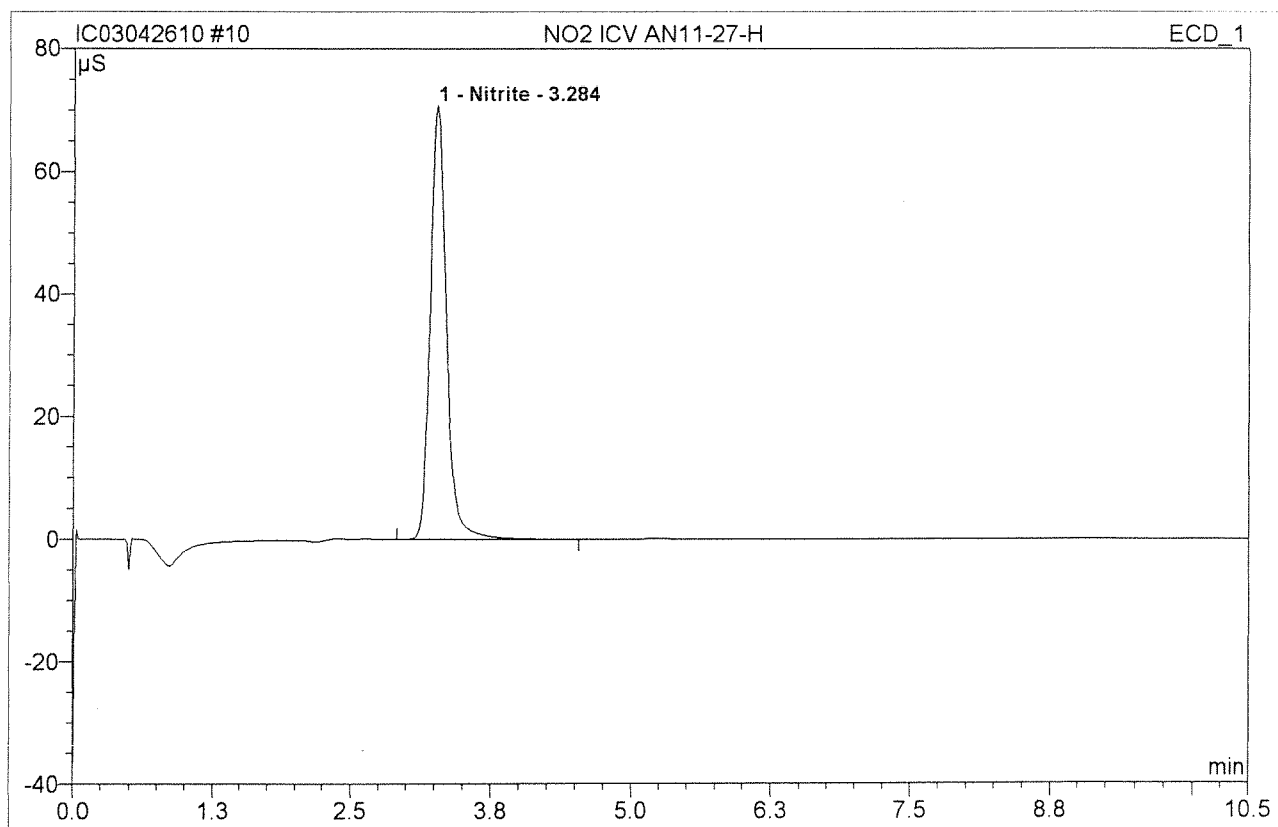
Sample Name:	std1/lvl1	Injection Volume:	200.0
Vial Number:	7	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 10:17	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
Average:					n.a.	n.a.	n.a.	n.a.

5/14/2010

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

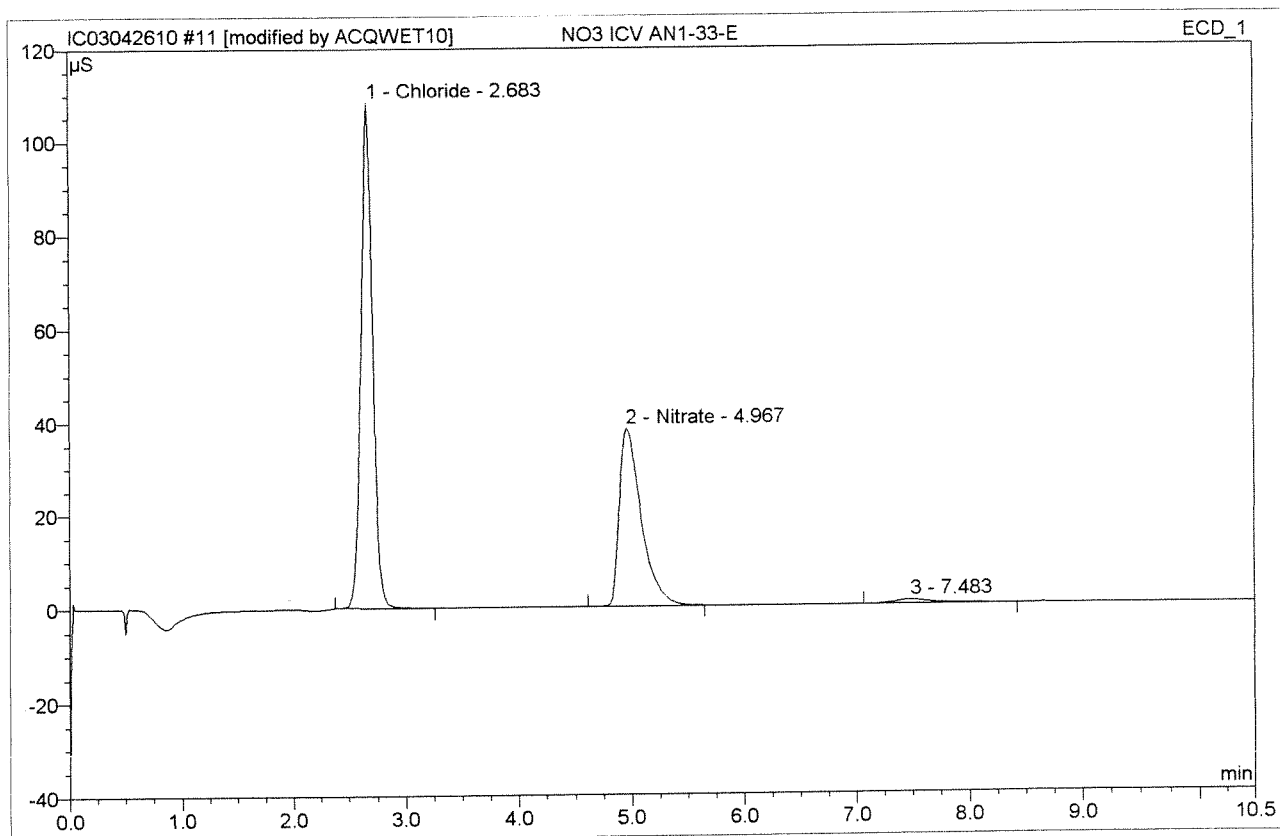


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	3.28	Nitrite	70.856	11.827	100.00	102.405 (022)	BMB
Total:			70.856	11.827	100.00	102.405	

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
Inhibitors *MB*

APR 26 2010

Chromatogram
4/26/2010 11:32 AM

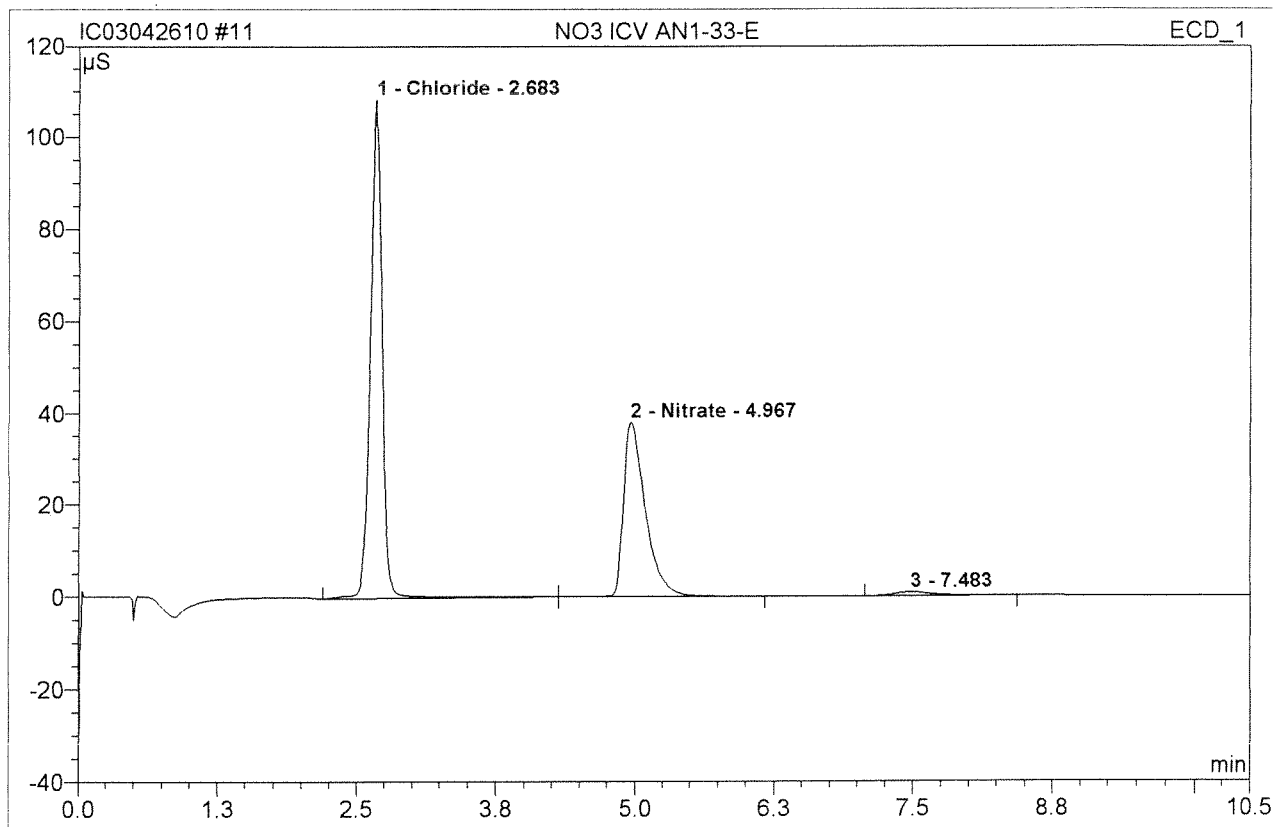
Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

default/Integration

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	

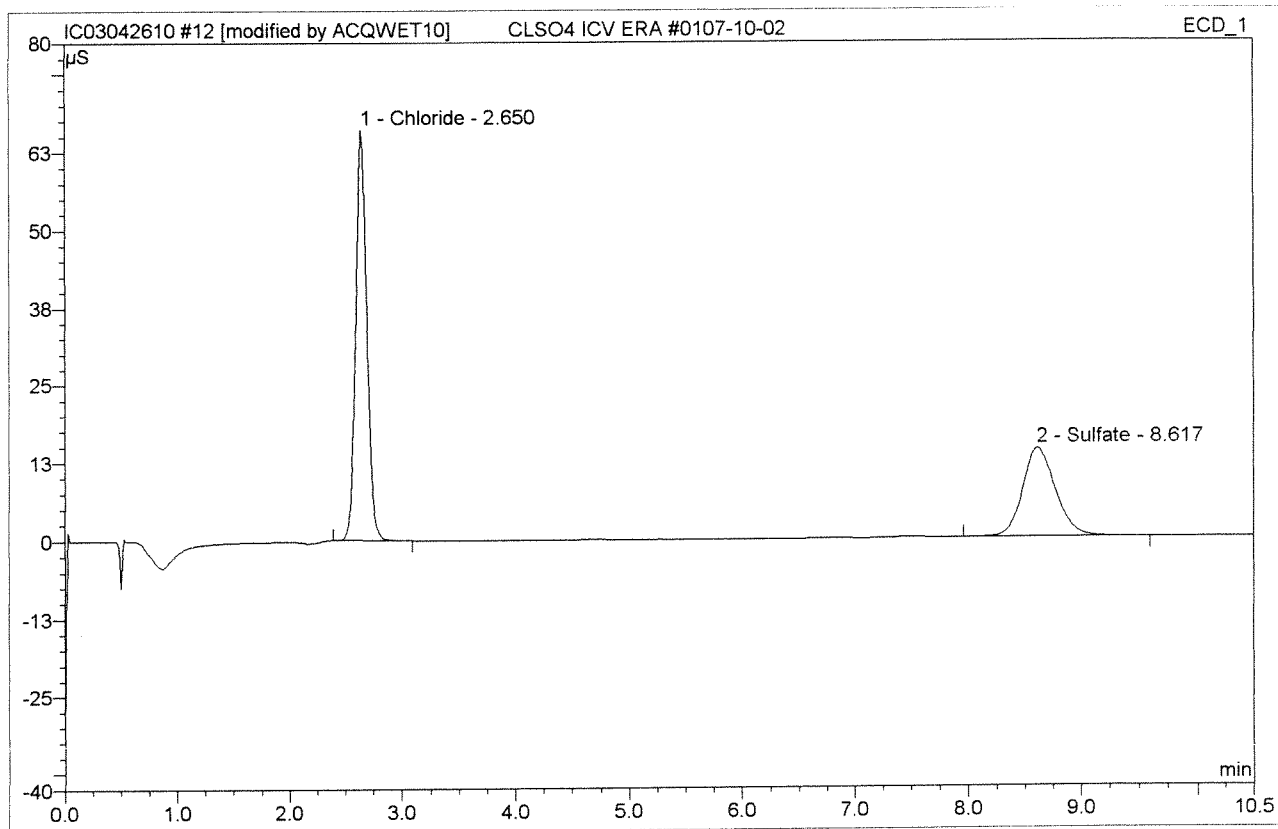
Before

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	

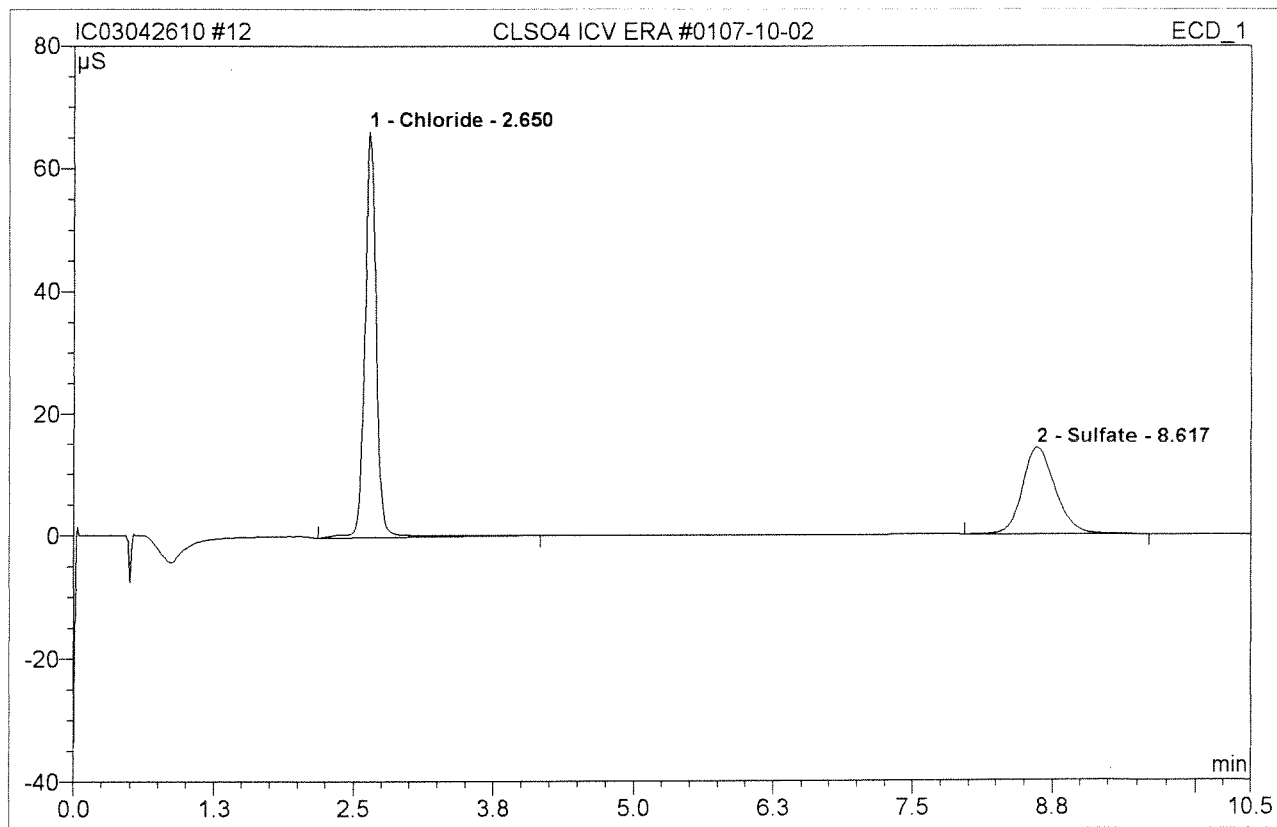
After Initials UB

APR 26 2010

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

default/Integration

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	

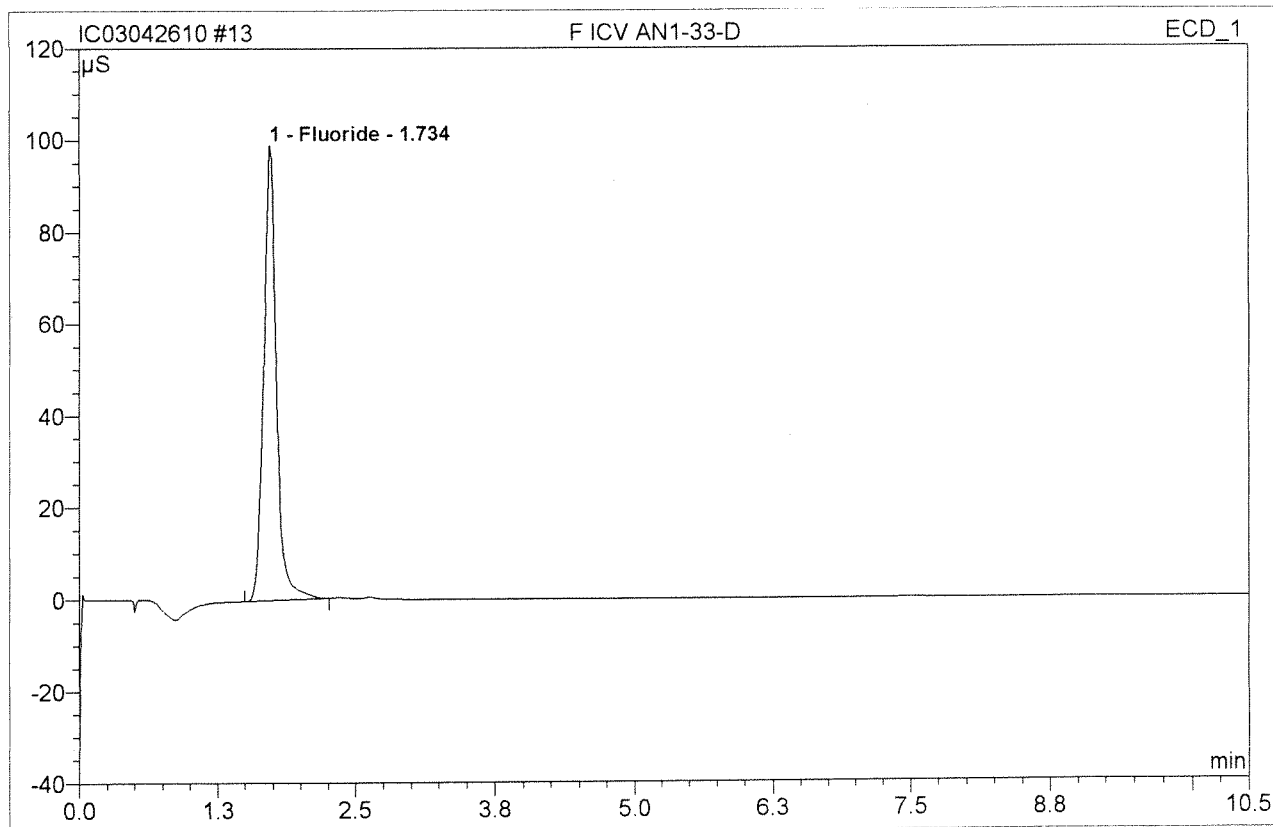
Before

APR 26 2010

13 F ICV AN1-33-D

F ICV

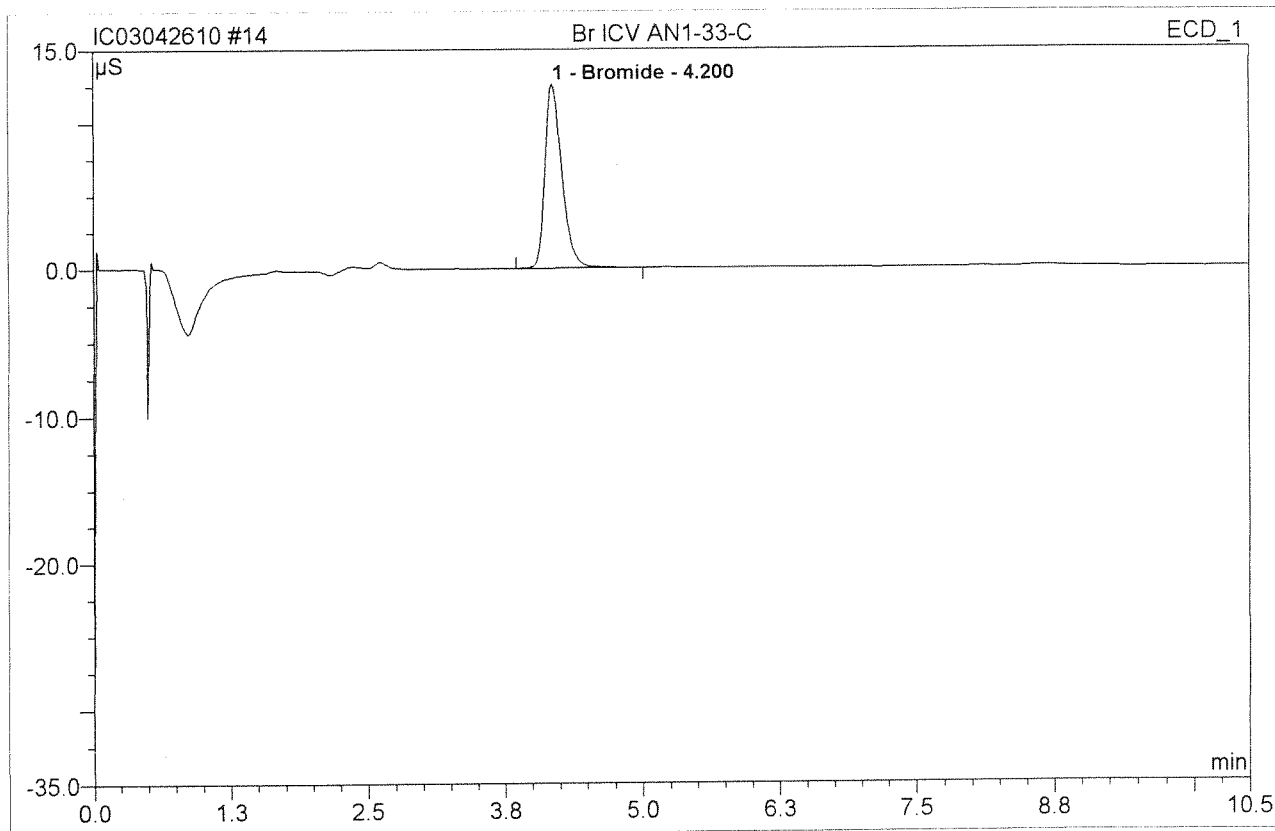
Sample Name:	F ICV AN1-33-D	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2010 11:43	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



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	13.917	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	4.124103%	BMB
Total:			12.583	2.210	100.00	4.124	

Work Request # ^{Original} (K4791) K4814 K4818 K4870 K4880 K4892 K4923 K4930
 Tier: I III III III J I E I
 Date Analyzed: 05/20/10
 Analyst: Haugen
 Analysis: NH₃ ↓ 350.1 / SM4500-NH₃ G

201619

**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: 5/21/10 DQREPORT

I
K4791, ^{III}K4814, ^{III}K4818, ^{III}K4870, ^IK4880, ^IK4892, ^IK4923, ^IK4930, ^{II}K4935

BRAN+LUEBBE

Post-run Report

BRAN+LUEBBE

Post-run report

Name of Run : 100520E
 Date of Report : 5/20/2010
 Date of Run : 5/20/2010
 Operator :
 Comment :

Name of Analysis : Ammonia
 System No. : 1
 Type of System : AA3
 Start/Stop time : 14:52 - 16:55

Channel : 2
 Method : Method 2
 Unit : mg/L
 Calibr. Fit : Linear
 Corr. Coeff. : 0.9997
 Base : -19708
 Gain : 20
 Sensitivity : 0.4316
 Sample Limit 1 :
 Sample Limit 2 :

LCS ID#: B+LNH₃/I-34-I TV=14.3
 Spike ID#: B+LNH₃/I-85-D TV=2.00
 Curve, CCV ID#: B+LNH₃/I-55-X TV=2.00
 MB MS=2.00

Pk	Cup	Sample Id	Value
0	0	B Baseline	0.0085
1	1	P Primer	5.0077
2	1	D Drift	5.0073
3	1	C 5.00	5.0309
4	2	C 2.00	1.9139
5	3	C 0.50	0.5152
6	4	C 0.05	0.0657
7	5	C 0	0.0243
8	0	B Baseline	0.0085
9	1	H1 High	5.0284
10	0	L1 Low	0.0170
11	0	L1 Low	0.0170
12	5	QC2 CCB1	0.0299
13	2	QC1 CCV1	1.9054
14	10	QC3 LCS1*10	1.4568
15	11	S MB MS	1.9157
16	0	N Null	0.0122N
17	5	QC2 MB1	0.0221
18	12	S k1004791-001	0.0344
19	13	S k1004791-002	0.0210
20	14	S k1004791-003	0.3310
21	15	S k1004791-004	0.0321
22	16	S k1004814-001	0.0461
23	0	B Baseline	0.0085
24	5	QC2 CCB2	0.0246
25	2	QC1 CCV2	1.9085
26	17	S k1004814-001d	0.0488

0.0307
 1.91 96%
 14.6 102%
 1.92 96%

0.0227
 <0.050
 <0.050
 0.331
 <0.050
 0.0467

0.0257 96%
 1.91 96%
 0.0497 $\bar{x} = 0.048$ RPD = 6%

gnd
 5/21/10

05/20/10
 Hougoum

27	18	S	k1004814-001ms	2.0707	2.07	101%	
28	19	S	k1004814-001msd	2.0678	2.07	101%	
29	20	S	k1004814-002	0.1157	0.116		
30	21	S	k1004814-003	0.0245	0.0257		
31	22	S	k1004814-004	0.0139	<0.020		
32	23	S	k1004814-005	0.0140	<0.020		
33	24	S	k1004814-006	0.0159	<0.020		
34	25	S	k1004818-001	0.0251	0.0257		
35	0	B	BASELINE	0.0085			
36	5	QC2	CCB-3	0.0328	0.0337		
37	2	QC1	CCV-3	1.8989	1.90	95%	
38	26	S	k1004818-001d	0.0227	0.0237		$\bar{x} = 0.024$ RPD=8%
39	27	S	k1004818-001ms	2.0576	2.06	102%	
40	28	S	k1004818-001msd	2.0585	2.06	102%	
41	29	S	k1004818-002	0.0199	<0.020		
42	30	S	k1004818-004	0.1099	0.110		
43	31	S	k1004818-007	0.1237	0.124		
44	32	S	k1004870-001diss.	0.0644	0.064		$\bar{x} = 0.063$ RPD=3%
45	33	S	k1004870-001d diss.	0.0618	0.062		
46	34	S	k1004870-001ms diss	2.0845	2.08	101%	
47	0	B	Baseline	0.0085			
48	5	QC2	CCB4	0.0356	0.0367		
49	2	QC1	CCV4	1.9122	1.91	96%	
50	10	QC3	LCS2*10	1.4724	14.7	103%	
51	0	N	Null	0.0292N			
52	5	QC2	MB2	0.0405	0.0417		
53	35	S	k1004870-001msd dis	2.1291	2.13	103%	
54	36	S	k1004870-002 diss.	0.0693	0.069		
55	37	S	k1004870-003 diss.	0.0312	0.0317		
56	38	S	k1004870-004	-0.0042	<0.020		
57	39	S	k1004870-005	0.0052	<0.020		
58	40	S	k1004880-001	0.3927	0.393		
59	0	B	Baseline	0.0085			
60	5	QC2	CCB5	0.0155	<0.020		
61	2	QC1	CCV5	1.8987	1.90	95%	
62	41	S	k1004880-002	0.0402	<0.050		
63	42	S	k1004880-003	0.2036	0.204		
64	43	S	k1004880-004	1.7156	1.72		
65	44	S	k1004880-005	0.0877	0.088		
66	45	S	k1004880-006	0.2125	0.213		
67	46	S	k1004880-007	0.0423	<0.050		
68	47	S	k1004892-005	0.6113	0.611		
69	48	S	k1004923-001	0.0132	<0.020		$\bar{x} = ND$ RPD= -
70	49	S	k1004923-001d	0.0140	<0.020		
71	0	B	Baseline	0.0085			
72	5	QC2	CCB6	0.0165	<0.020		
73	2	QC1	CCV6	1.8973	1.90	95%	
74	50	S	k1004923-001ms	2.1065	2.11	106%	
75	51	S	k1004923-001msd	2.0304	2.03	102%	
76	52	S	k1004923-002	0.0646	0.065		
77	53	S	k1004923-003	0.0102	<0.020		
78	54	S	k1004923-008	0.2164	0.216		

JAD
 5/21/10
 05/20/10
 Ferguson

BRAN+LUEBBE AACE 6.02

79	55	S	k1004923-012	0.0565	0.057	
80	56	S	k1004923-014	0.4963	0.496	
81	57	S	k1004930-001	0.0097	<0.050	
82	58	S	k1004930-002	0.1655	0.166	
83	0	B	Baseline	0.0085		
84	5	QC2	CCB7	0.0149	<0.020	
85	2	QC1	CCV7	1.8999	1.90	95%
86	10	QC3	LCS3*10	1.4500	14.5	101%
87	0	N	Null	0.0140N		
88	5	QC2	MB3	0.0162	<0.020	
89	59	S	k1004930-003	0.0120	<0.050	
90	60	S	k1004930-004	6.3210*		
91	61	S	k1004930-005	6.2583*		} NR
92	62	S	k1004935-001	0.0175		
93	63	S	k1004935-002	0.0161	<0.050	
94	64	S	k1004935-003	0.0131	<0.050	
95	0	B	Baseline	0.0085		
96	5	QC2	CCB8	0.0158	<0.020	95%
97	2	QC1	CCV8	1.8907	1.89	
98	65	S	k1004935-004	0.0117	<0.050	
99	0	B	Baseline	0.0085		
100	5	QC2	CCB9	0.0155	(<0.050)	<0.020
101	2	QC1	CCV9	1.8933	1.89	95%
102	1	D	Drift	5.0073		
103	0	B	Baseline	0.0085		
104	0	B	FinalBase	0.0085		

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	:	Yes
%:		0.3

SM
5/21/10

* ... Sample offscale
+ ... Result higher than sample limit

05/20/10
Harvey

BRAN+LUEBBE AACE 6.02

Post-run Report

- ... 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> **

*574
5/20/10*

*05/20/10
Hauger*

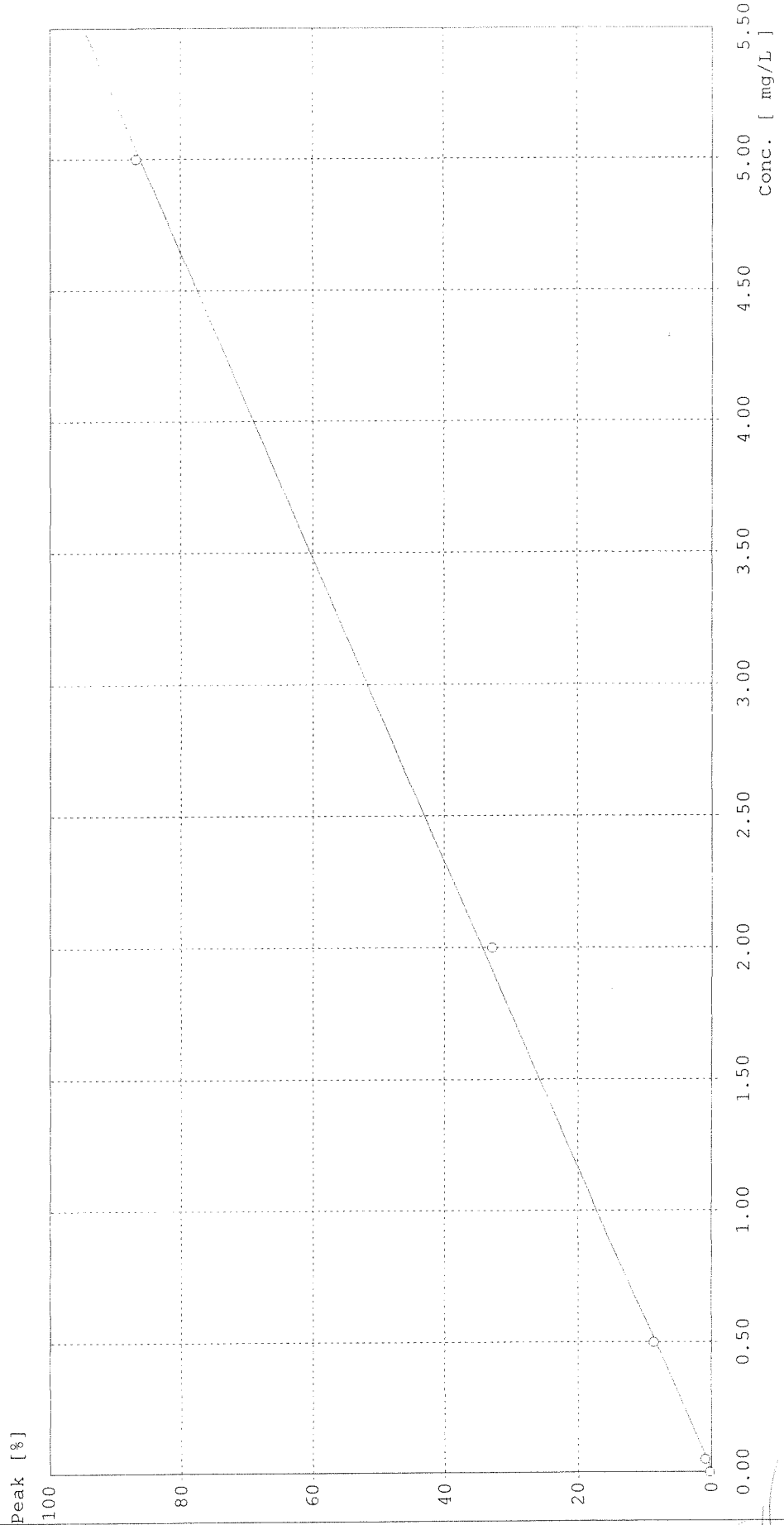
BRAN+LIEBBE

Calibration Curve

Name of run : 100520E.run
Comment :

Name of analysis : Ammonia

Channel : 2
Method : Method 2
Curve fit : linear a=-2.7651E-001 b=8.8342E-005
Corr. coeff. : 0.9997



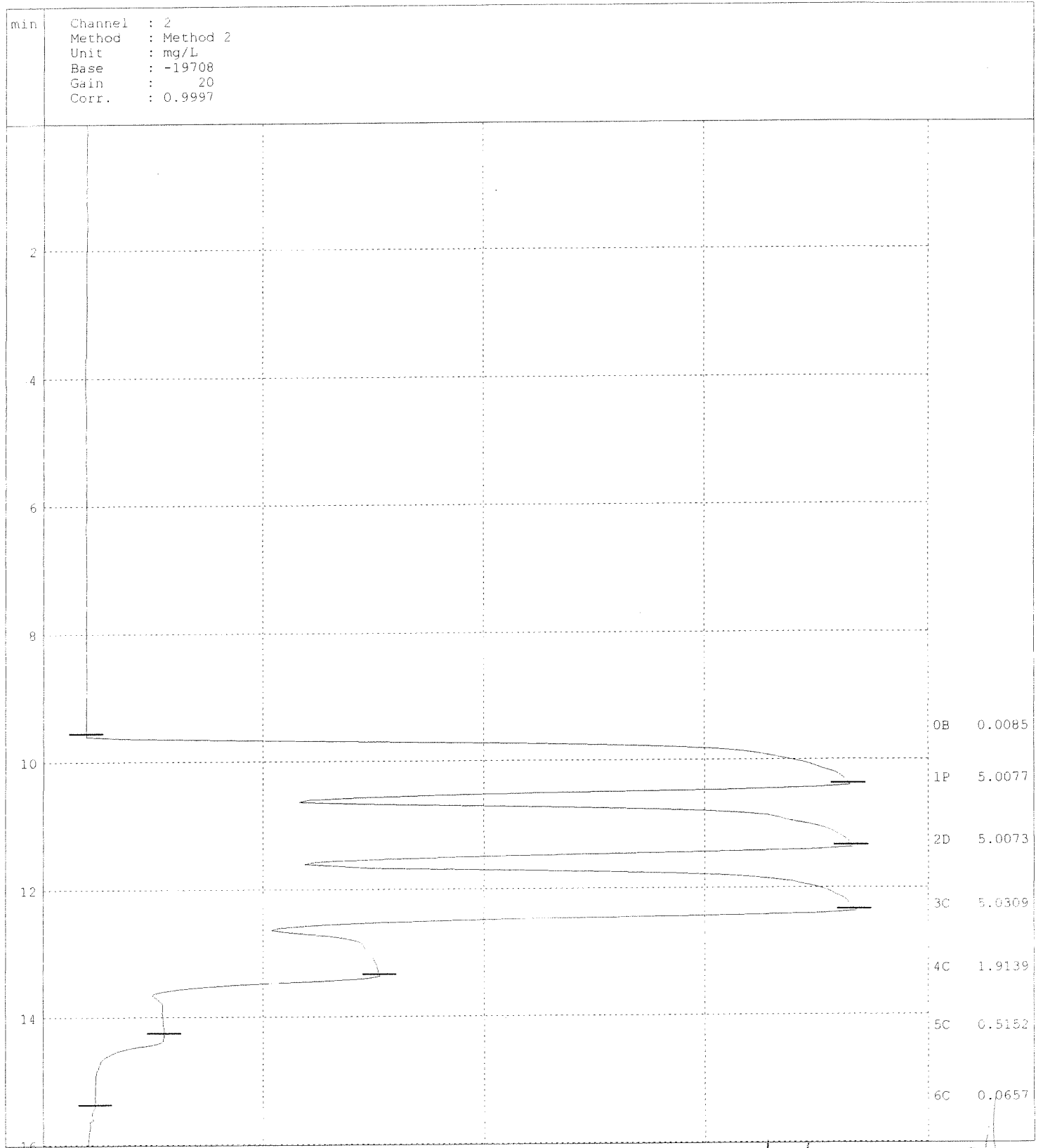
05/20/10
Haugerud
5/21/10

BRAN+LUEBBE

Post-run chart

Name of run :100520E.RUN
Comment :

Name of analysis :Ammonia

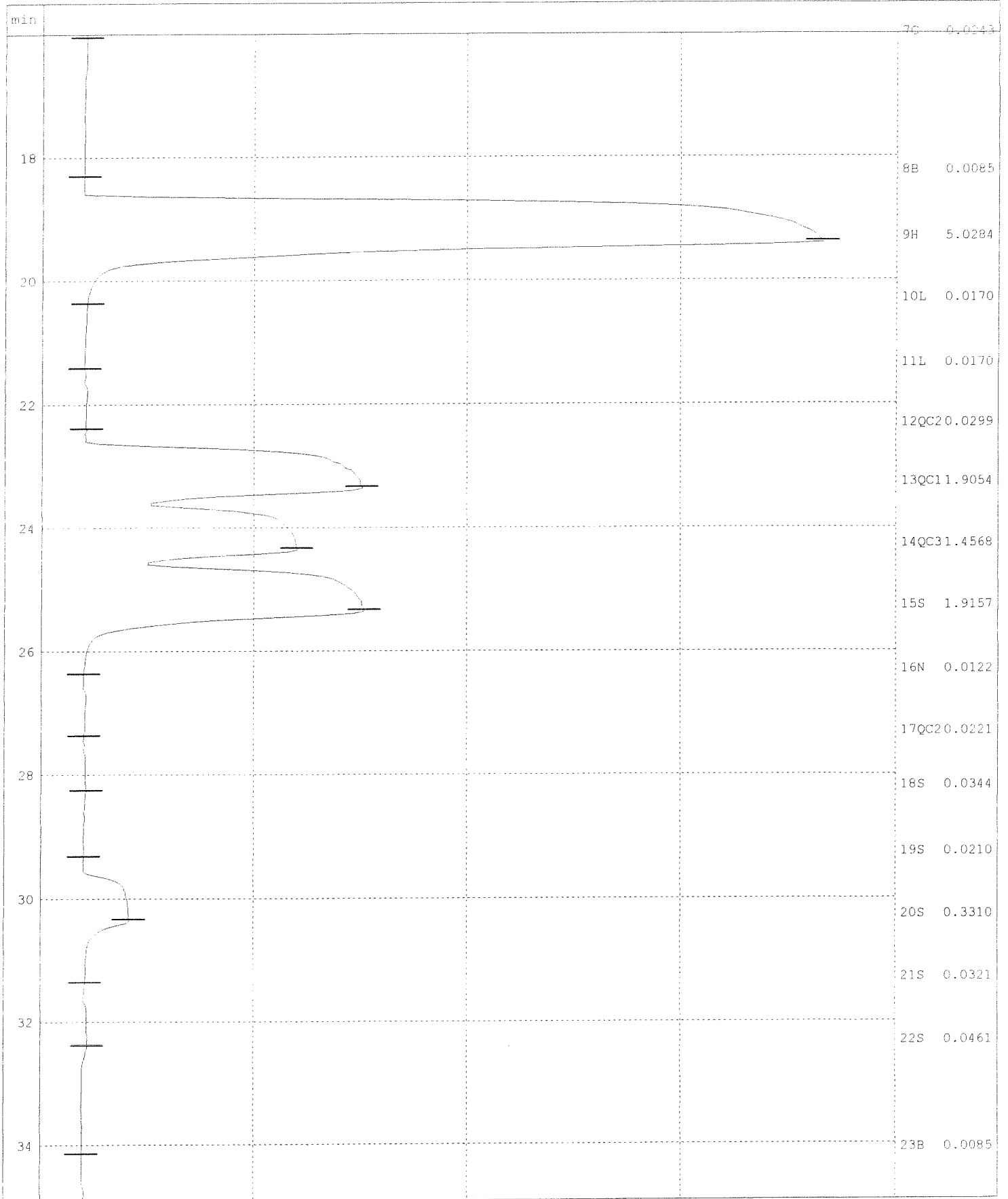


05/20/10
Fouquier

5/20/10

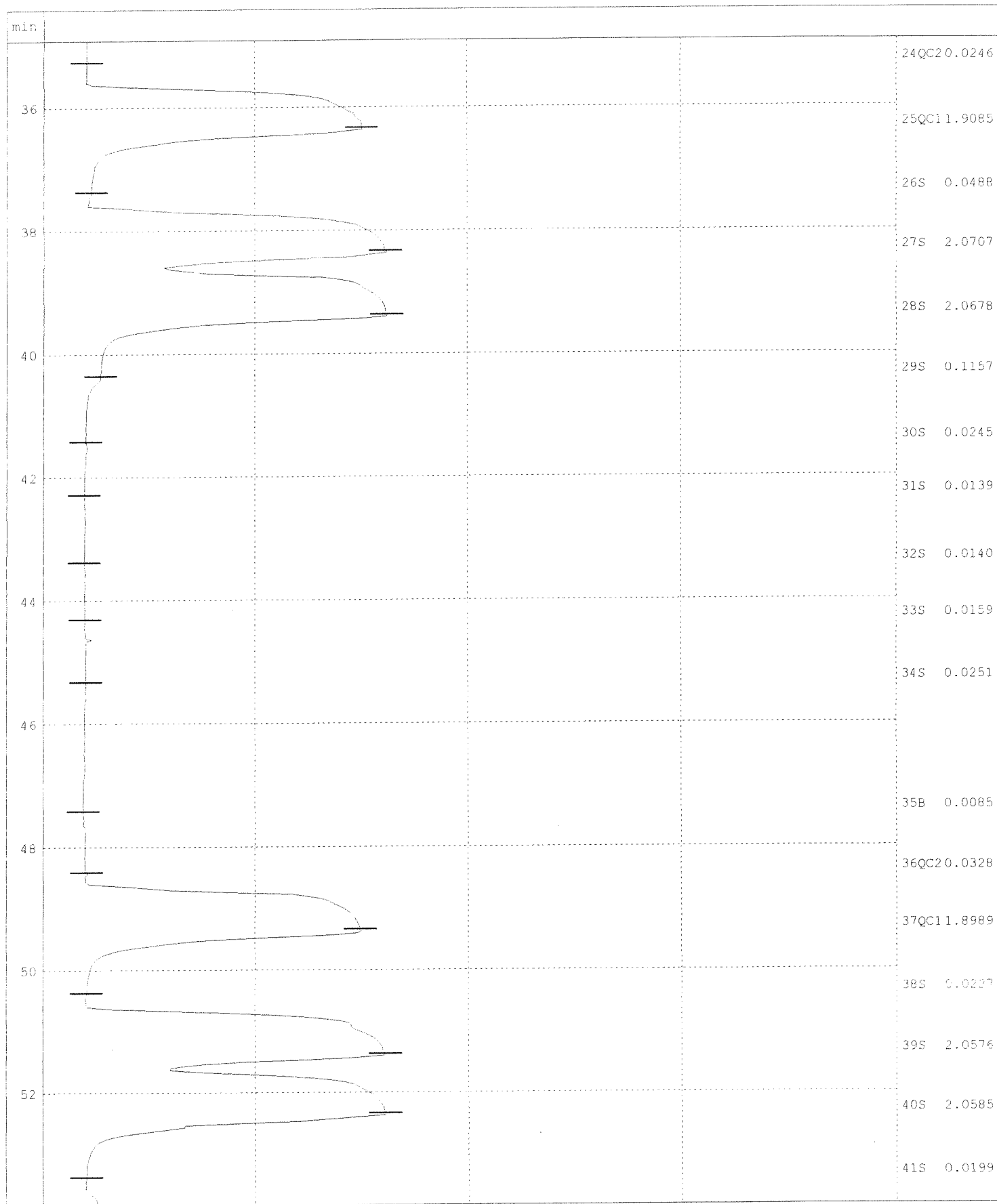
Name of run :100520E.RUN
Comment :

Name of analysis :Ammonia



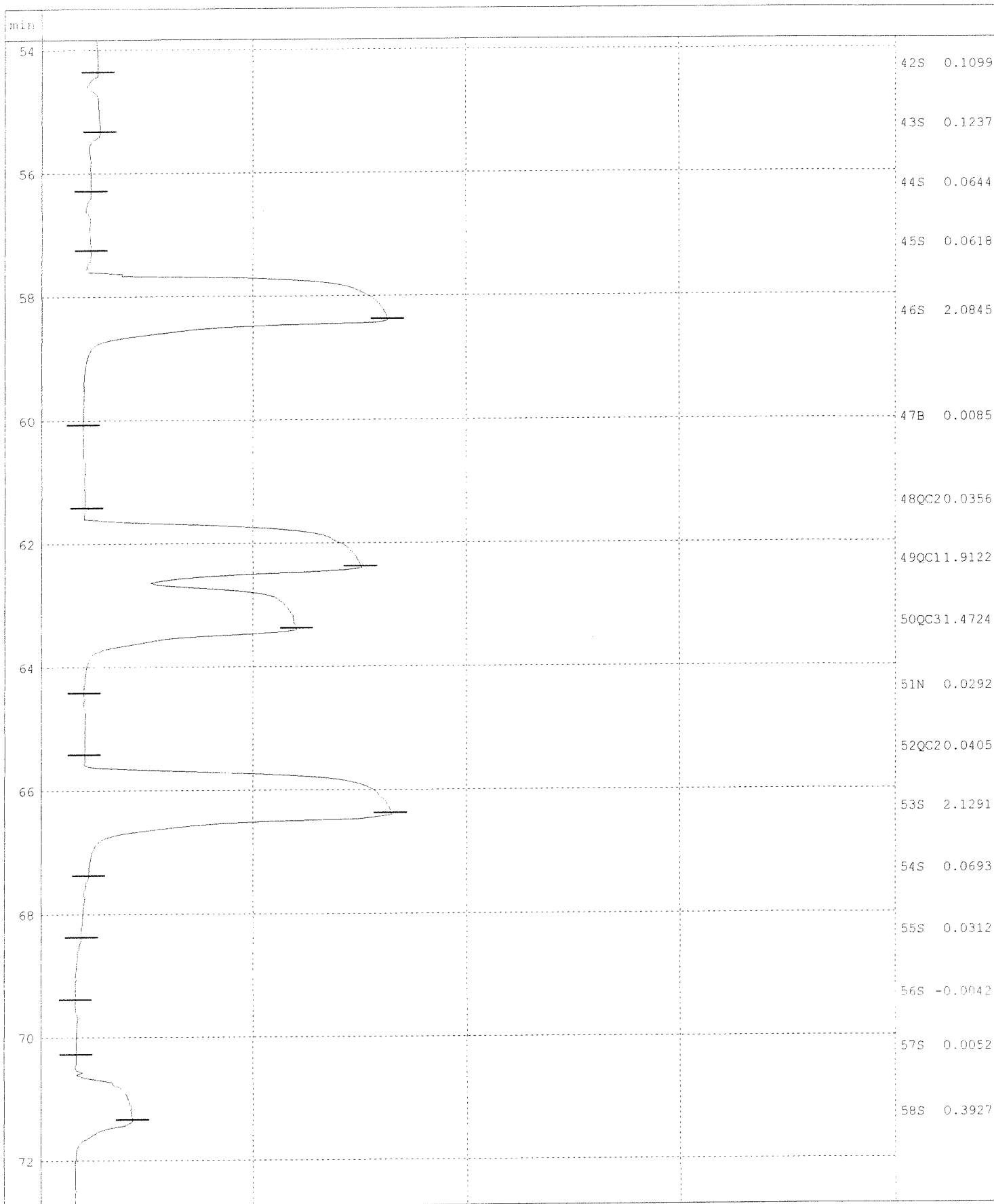
Name of run :100520E.RUN
 Comment :

Name of analysis :Ammonia



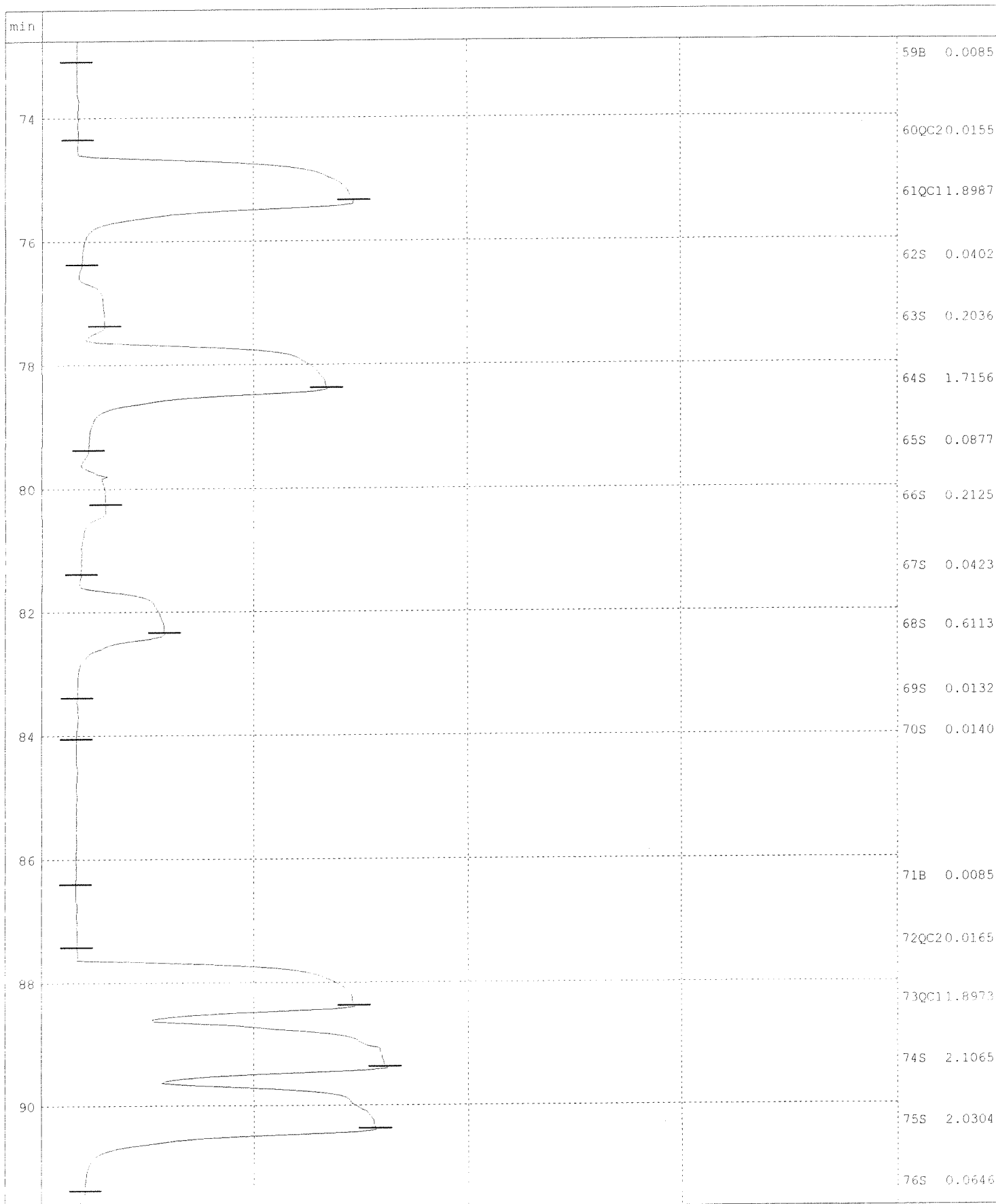
Name of run :100520E.RUN
 Comment :

Name of analysis :Ammonia



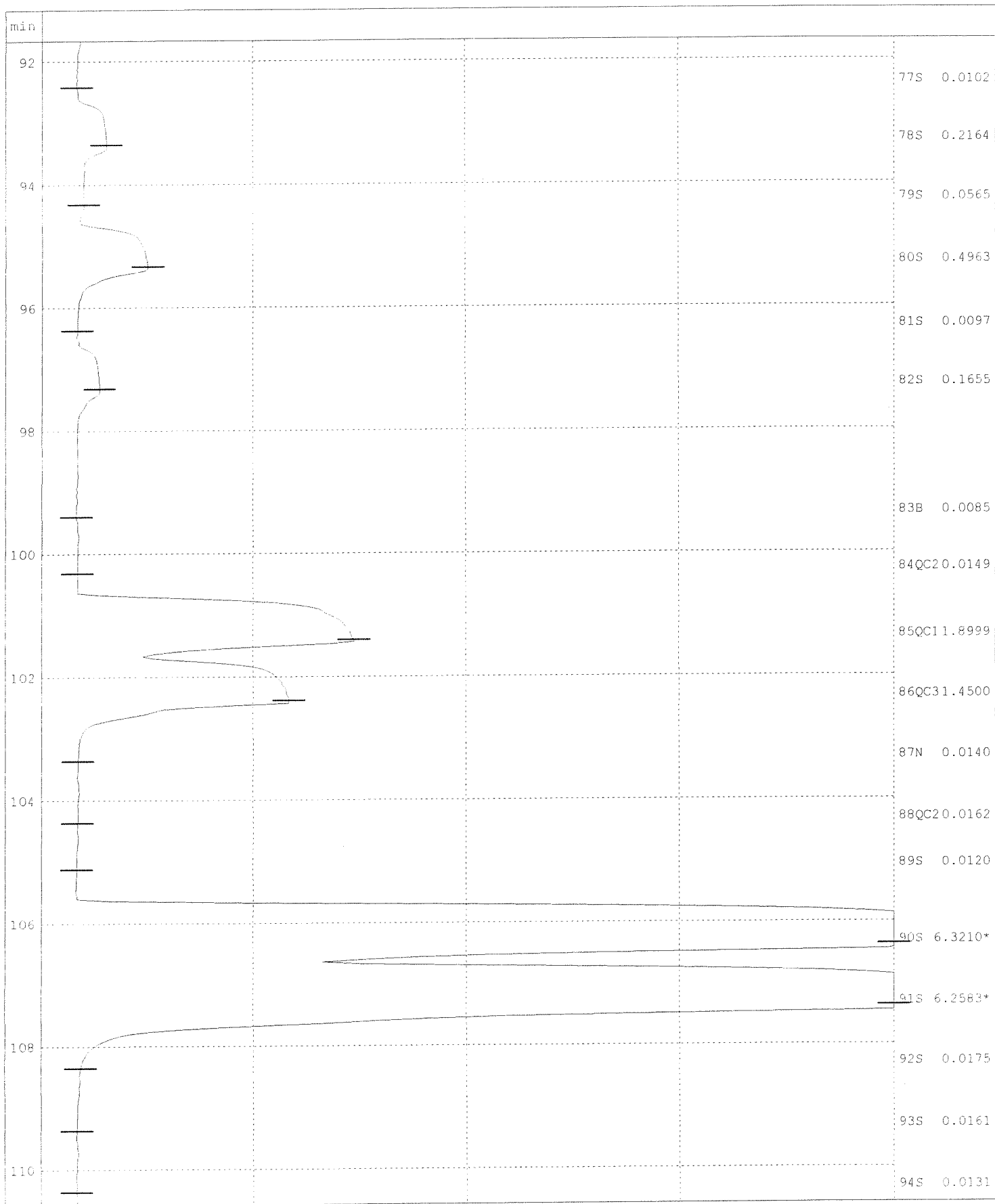
Name of run :100520E.RUN
Comment :

Name of analysis :Ammonia



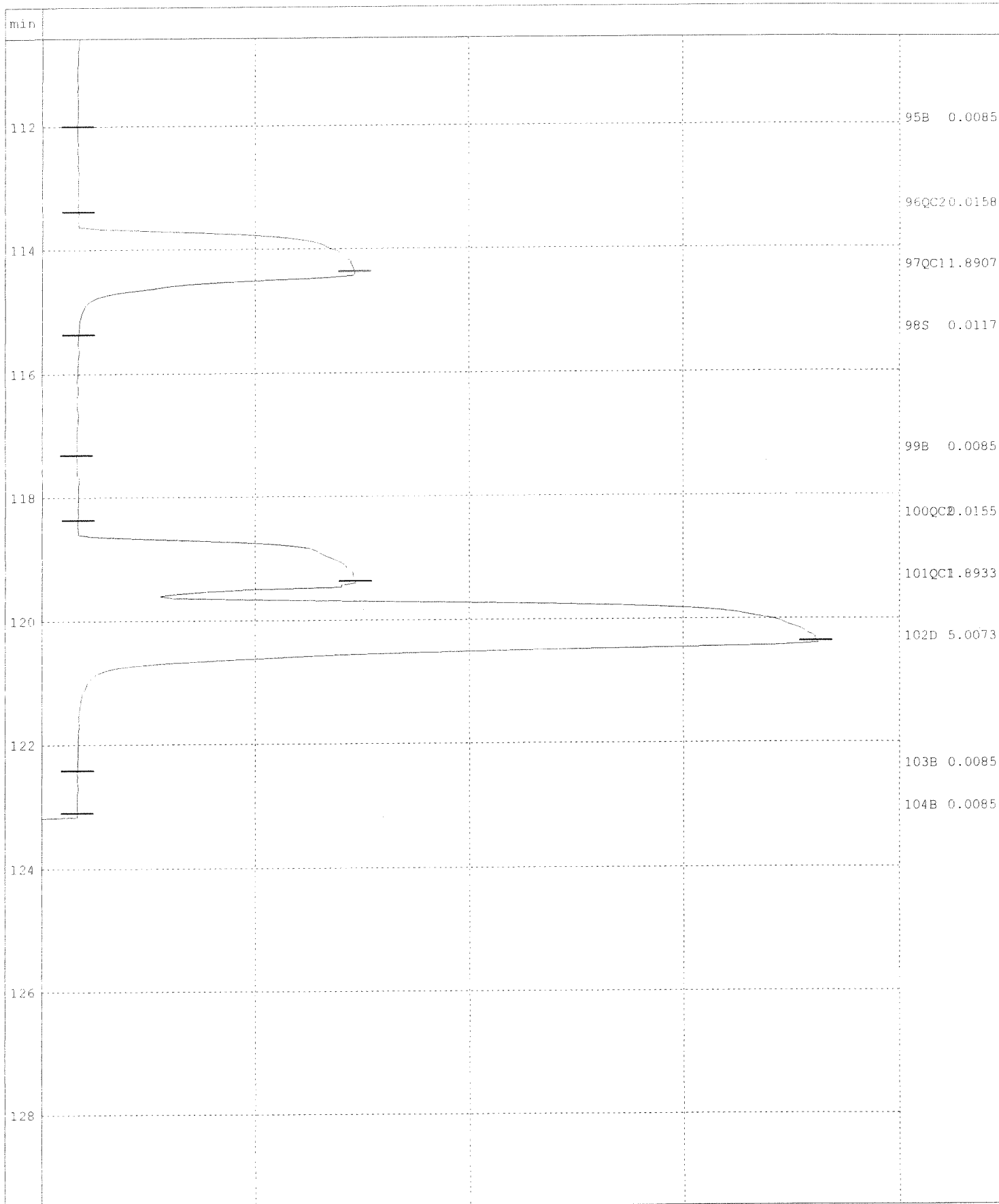
Name of run :100520E.RUN
Comment :

Name of analysis :Ammonia



Name of run :100520E.RUN
Comment :

Name of analysis :Ammonia



Work Request # Original (K4870)
 Tier: 1
 Date Analyzed: 05/14/10
 Analyst: Hewitt
 Analysis: NO₂ - 353.2 200674

**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

K4870

BRAN+LUEBBE

Post-run report

Name of Run : 100514B
 Date of Report : 5/14/2010
 Date of Run : 5/14/2010
 Operator :
 Comment :

Name of Analysis : Nitrite.ANL
 System No. : 1
 Type of System : AA3
 Start/Stop time : 12:07 - 12:51

Channel :
 Method :
 Unit :
 Calibr. Fit :
 Corr. Coeff. :
 Base :
 Gain :
 Sensitivity :
 Sample Limit 1 :
 Sample Limit 2 :

Method 2
 Method 2
 Linear
 0.9999
 -20433
 5
 1.5894

LCS ID#: AN/11-27-X T.V. = 4.00
 (0.4 ml x 100 ppm / 10 ml = 4.00 ppm)
 Spike ID#: AHO B+LNO₂/1-94-X T.V. = 2.00
 Curve, CCV ID#: B+LNO₂/1-80-S T.V. = 2.00

Pk	Cup	Sample Id	Value
0	0	B Baseline	0.0000
1	1	P Primer	4.9956
2	1	D Drift	5.0204
3	1	C 5.00	5.0120
4	2	C 2.00	1.9721
5	3	C 0.50	0.4879
6	4	C 0.05	0.0478
7	5	C 0	0.0302
8	1	H1 High	5.0175
9	0	L1 Low	0.0097
10	0	L1 Low	0.0038
11	5	QC2 CCB1	0.0034
12	2	QC1 CCV1	1.9477
13	10	QC3 LCS1	4.0111
14	0	N Null	0.0097N
15	5	QC2 MB1	0.0039
16	11	S k1004870-001	0.0060
17	12	S k1004870-01d	0.0056
18	13	S k1004870-001ms	1.9995
19	14	S k1004870-001msd	1.9813
20	15	S k1004870-002	0.0235
21	16	S k1004870-003	0.0066
22	0	B Baseline	0.0004
23	5	QC2 CCB2	0.0018
24	2	QC1 CCV2	1.9614
25	17	S k1004870-004	0.0054
26	18	S k1004870-005	0.0096

0.0037
 1.95 98%
 4.01 100%

0.0047
 0.0067 $\bar{x} = 0.006$ RPD < 1%
 0.0067
 2.00 100%
 1.98 99%

< 0.003
 1.96 98%
 0.0057
 0.0107

Spike
 5/17/10

05/14/10
 Ferguson

27	0	B	Baseline	0.0013	
28	5	QC2	CCB3	0.0023	<0.003
29	2	QC1	CCV3	1.9611	1.96 98% ✓
30	1	D	Drift	5.0438	
31	0	B	Baseline	0.0041	
32	0	B	FinalBase	0.0035	

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
05/14/10
Haugen

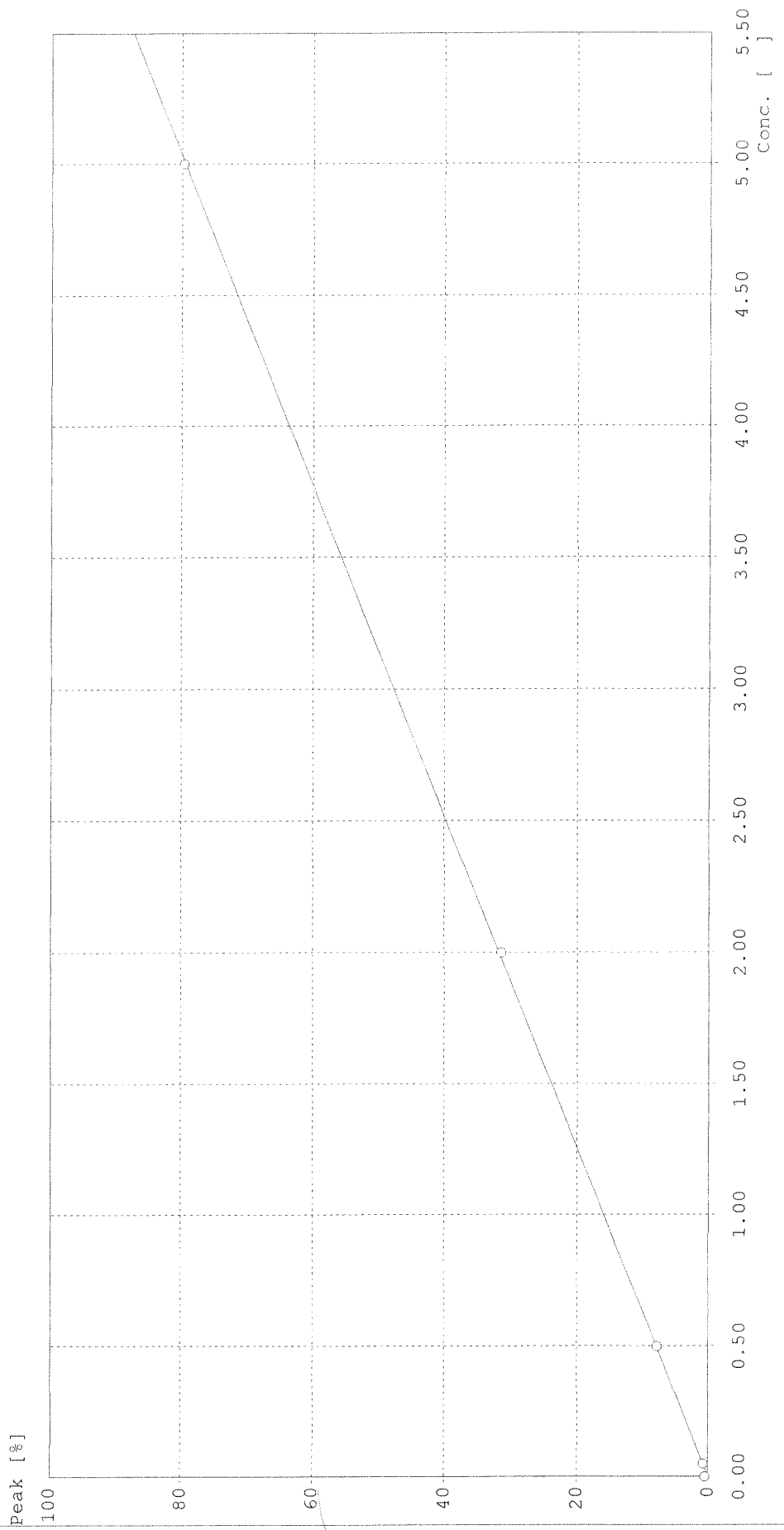
BRAN+LUEBBE

Calibration Curve

Name of analysis :Nitrite.ANL

Name of run :100514B.run
Comment :

Channel :2
Method :Method 2
Curve fit :linear
Corr. coeff. :0.9999
a=-3.1506E-001 b=9.5936E-005



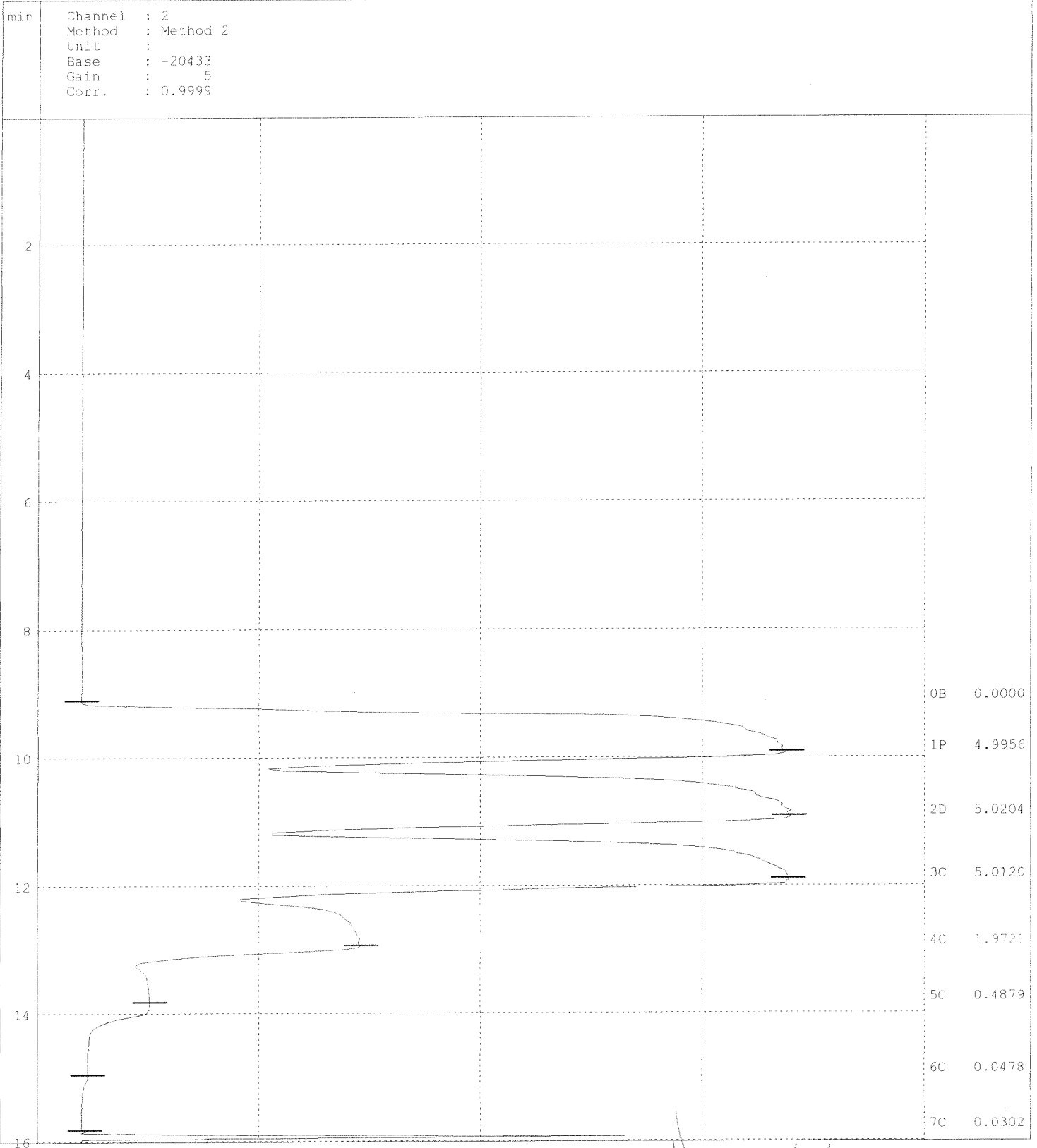
SA
5/17/10
05/14/10
Ferguson

BRAN+LUEBBE

Post-run chart

Name of run :100514B.RUN
Comment :

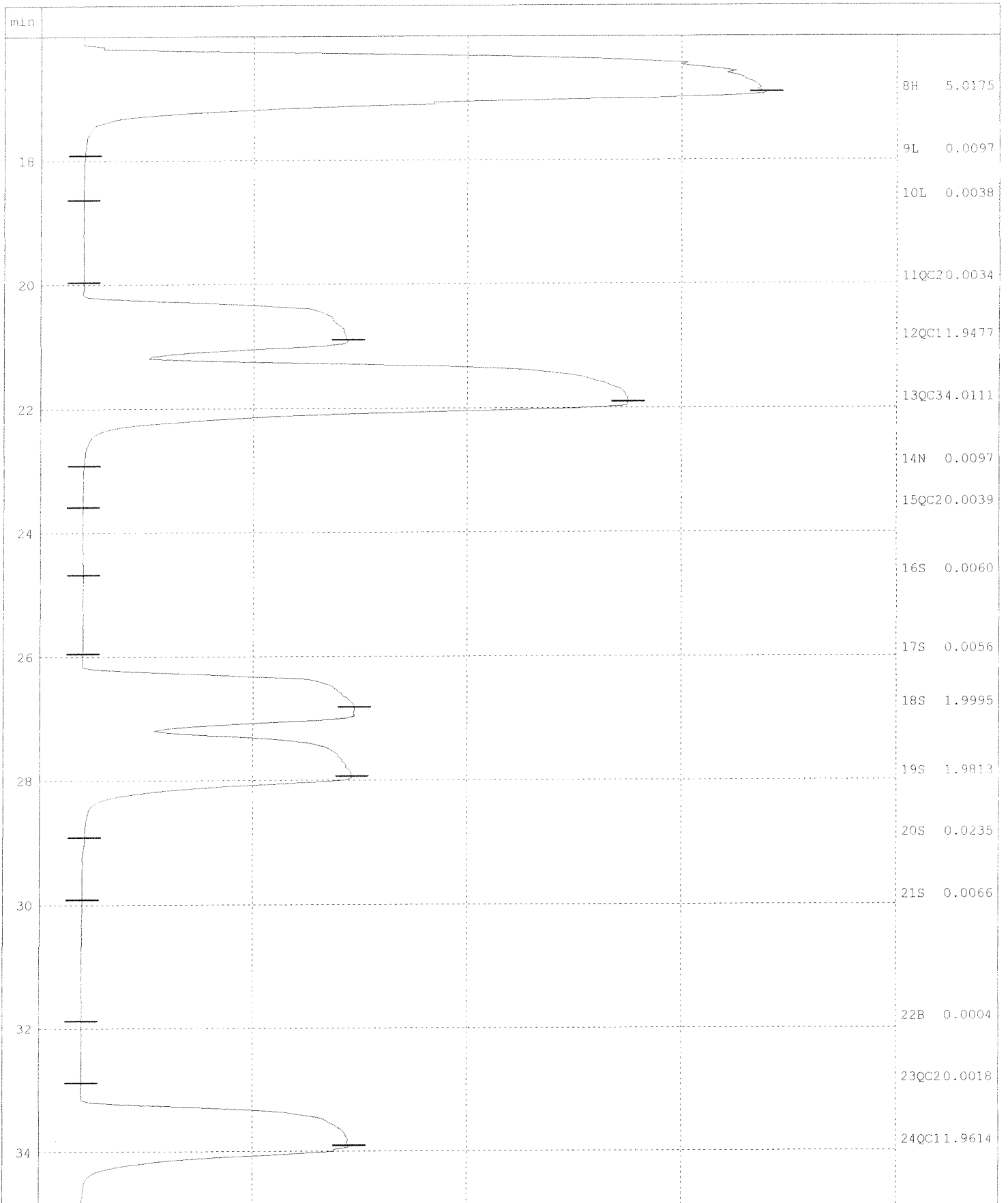
Name of analysis :Nitrite.ANL



SAD
5/17/10 *05/14/10*
Thompson

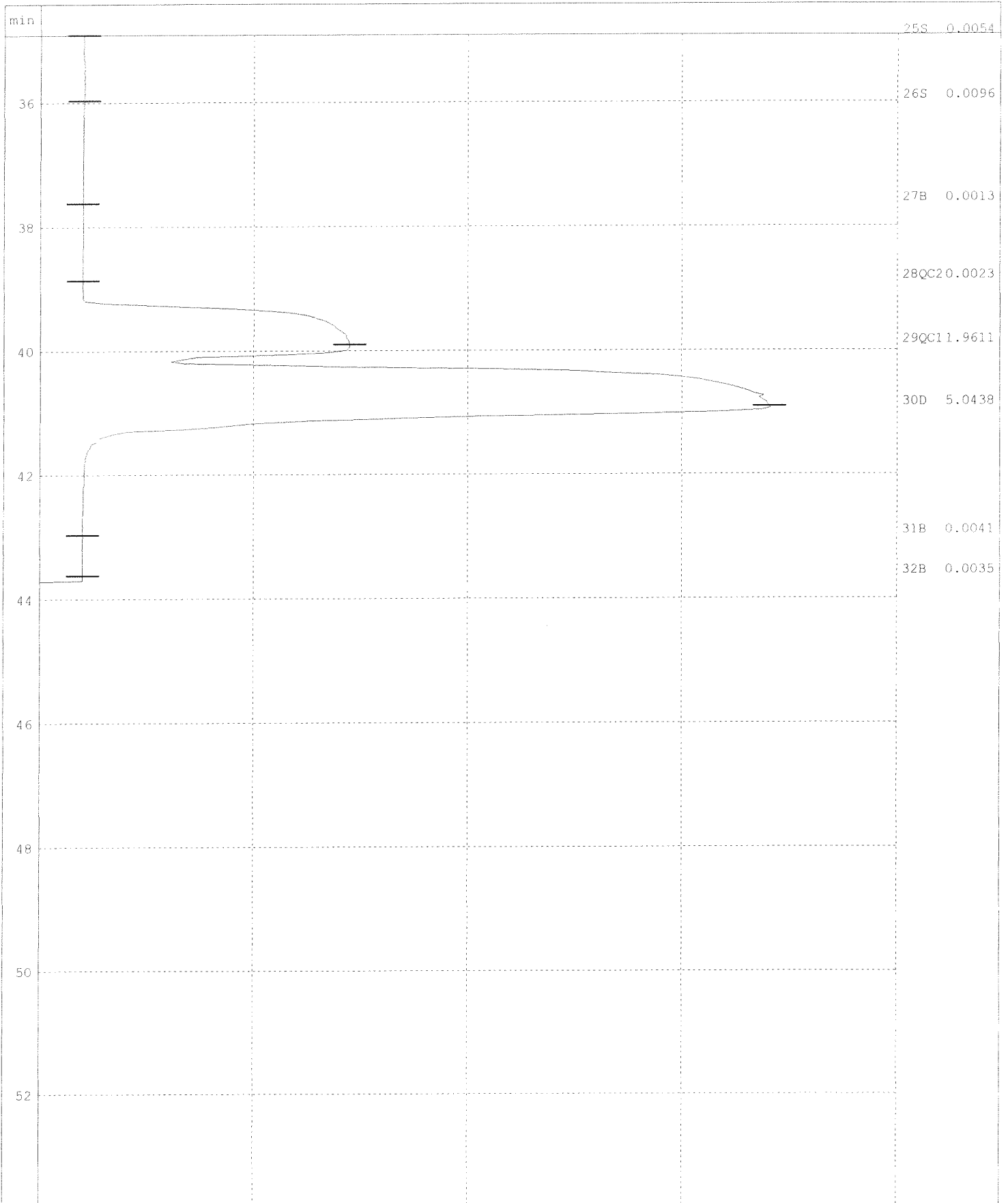
Name of run :100514B.RUN
 Comment :

Name of analysis :Nitrite.ANL



Name of run :100514B.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?
 - 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

^{II} K4837, ^{II} K4841, ^{II} K4845, ^{II} K4846, ^{III} K4870, ^{II} K4849, ^{II} 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 :
 Unit :
 Calibr. Fit :
 Corr. Coeff. :
 Base :
 Gain :
 Sensitivity :
 Sample Limit 1 :
 Sample Limit 2 :

Method 2
 mg/L
 Linear
 0.9999
 -20587
 5
 1.6230

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/-85-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%
 0.0257
 0.0217
 1.94 97%
 1.49 101%
 1.99 100%
 0.0247
 0.142
 0.147
 0.166
 0.170
 0.0277
 1.92 96%

5/19/10

05/18/10
 Hangerman

27 17 S k1004841-003
 28 18 S k1004845-001
 29 19 S k1004845-002
 30 20 S k1004846-001
 31 21 S k1004846-002
 32 22 S k1004846-003
 33 23 S k1004870-001
 34 24 S k1004870-001d
 35 25 S k1004870-001ms
 36 0 B Baseline
 37 5 QC2 CCB3
 38 2 QC1 CCV3
 39 26 S k1004870-001msd
 40 27 S k1004870-002
 41 28 S k1004870-003
 42 29 S k1004870-004
 43 30 S k1004870-005
 44 31 S k1004849-001
 45 32 S k1004849-002
 46 33 S k1004849-003
 47 34 S k1004849-004
 48 0 B Baseline
 49 5 QC2 CCB4
 50 2 QC1 CCV4
 51 10 QC4 LCS2*10
 52 0 N Null
 53 5 QC2 MB2
 54 35 S k1004849-005
 55 36 S k1004849-006
 56 37 S k1004849-007
 57 38 S k1004849-008
 58 39 S k1004849-009
 59 40 S k1004849-010
 60 0 B Baseline
 61 5 QC2 CCB5
 62 2 QC1 CCV5
 63 41 S k1004849-011
 64 42 S k1004849-012
 65 43 S k1004849-013
 66 44 S k1004849-014
 67 45 S k1004849-015
 68 46 S k1004849-016
 69 75 S rinse
 70 76 S k1004849-003
 71 77 S k1004849-004*5
 72 0 B Baseline
 73 5 QC2 CCB6
 74 2 QC1 CCV6
 75 78 S k1004870-005*10
 76 79 S k1004849-001*10
 77 80 S k1004849-002*10
 78 81 S rinse

0.1810 0.181
 0.0238 0.0247
 0.0273 0.0277
 0.1158 0.116
 0.1412 0.141
 0.1152 0.115
 0.0582 0.058
 0.0688 0.069
 2.0976 2.10 102%
 0.0044
 0.0304 0.0307
 1.9156 1.92 96%
 2.0461 2.05 100%
 3.2400 3.24
 0.0672 0.067
 0.0416 0.0427
 16.0202*
 16.0181*
 16.0161* } NR
 3.5520
 5.3002
 0.0044
 0.0233 0.0237
 1.8875 1.89 95%
 1.4554 14.6 99%
 0.0034N
 0.0142 0.0147
 16.0168* } NR
 1.4754
 0.1712 0.171
 0.5937 0.594
 3.9927 3.99
 0.1368 0.137
 0.0044
 0.0197 0.0207
 1.9032 1.90 95%
 16.0302*
 16.0305*
 16.0314* } NR
 16.0320*
 16.0325*
 1.6413
 0.0698
 3.7370 3.74
 1.1667 5.83
 0.0044
 0.0299 0.0307
 1.8989 1.90 95%
 1.0806 10.8
 16.0319* } NR
 0.8840
 0.0492

$\bar{x} = 0.064$ RPD=17%

SJL
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	7.90 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%

5/19/10

05/18/10
Haugen

TH 05/18/10

131	2	QC1	CCV11	1.9016
132	1	D	Drift	5.0331
133	0	B	Baseline	0.0044
134	0	B	FinalBase	0.0044

1.90 95%

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> **

SAH
5/19/10
05/18/10
Ferguson

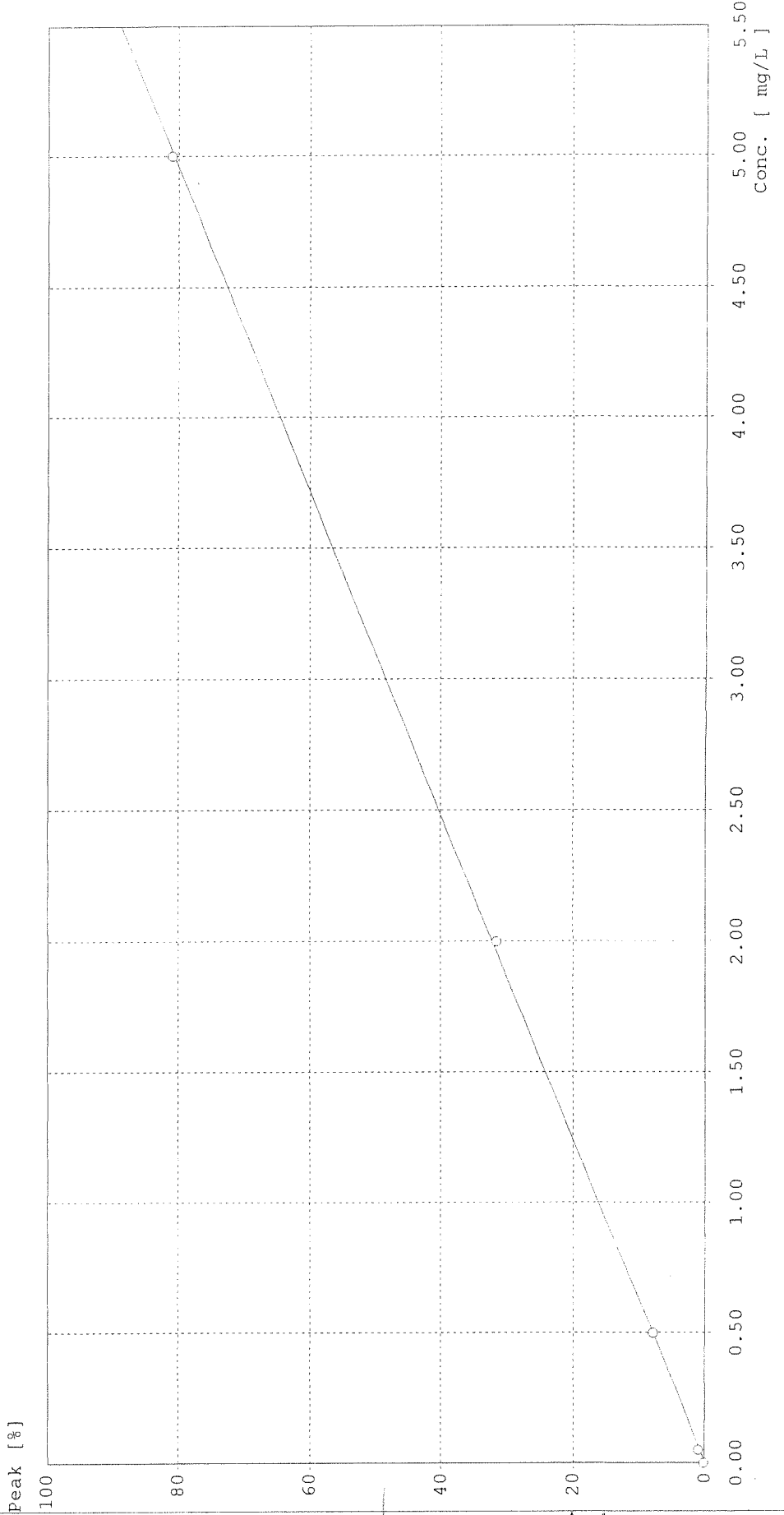
BRAN+LUEBBE

Calibration Curve

Name of run : 100518B.run
Comment :

Name of analysis : NO2+NO3

Channel : 2
Method : Method 2
Curve fit : linear a=-2.9788E-001 b=9.4440E-005
Corr. coeff. : 0.9999



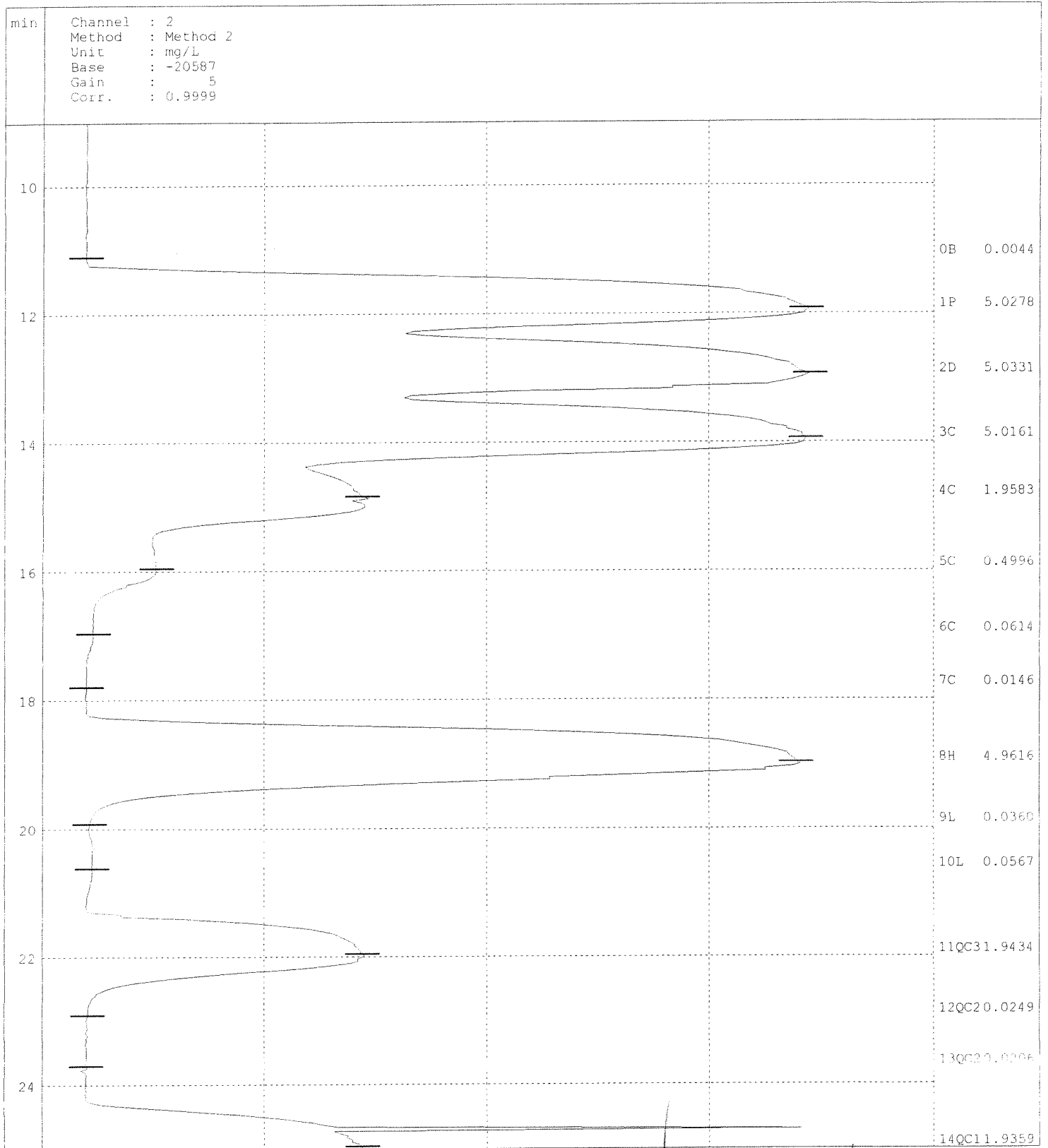
SAT
5/19/10
05/18/10
Hougen

BRAN+LUEBBE

Post-run chart

Name of run : 100518B.RUN
Comment :

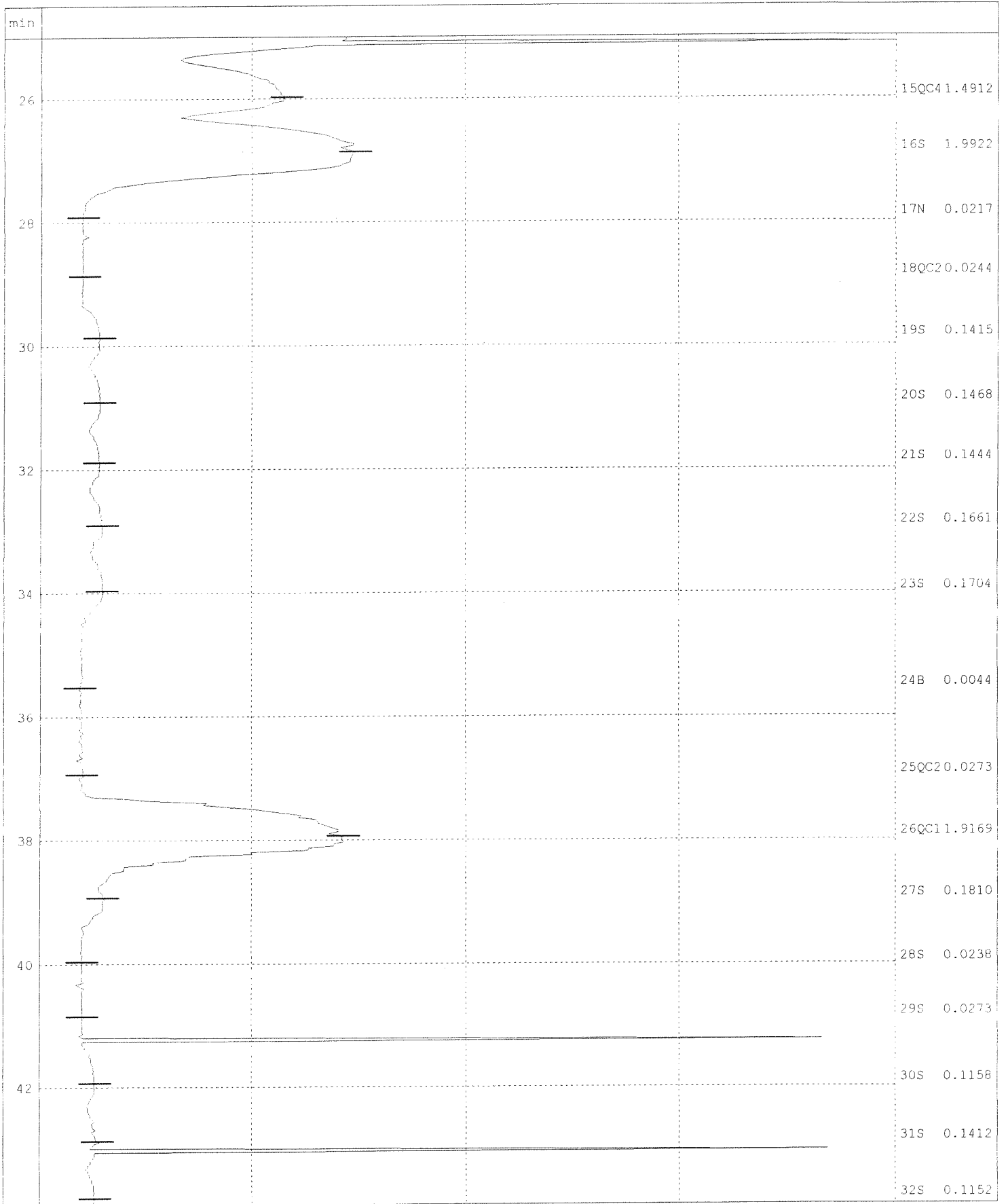
Name of analysis : NO2+NO3



Handwritten notes:
 5/19/10
 05/18/10
 Hanyun

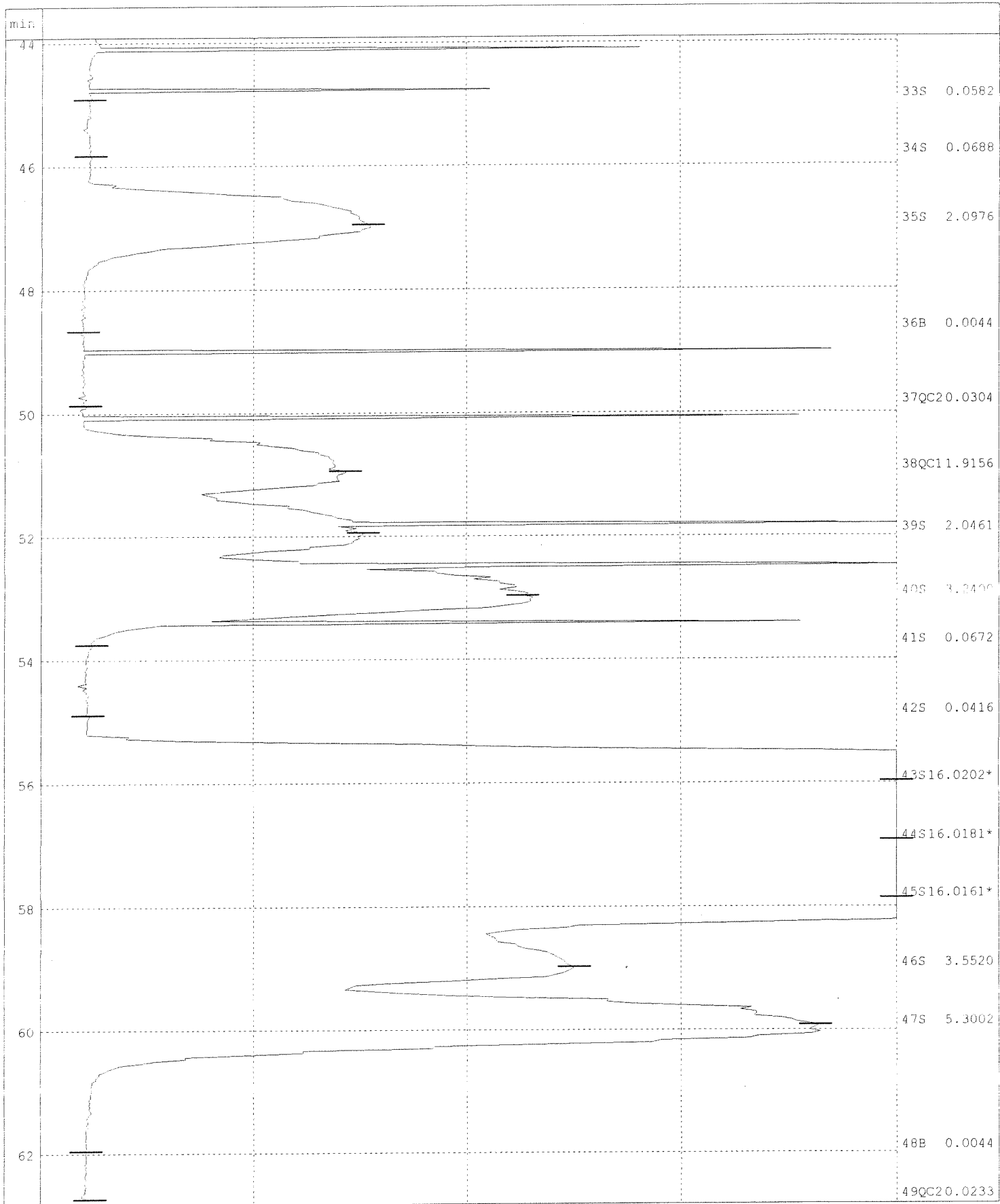
Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



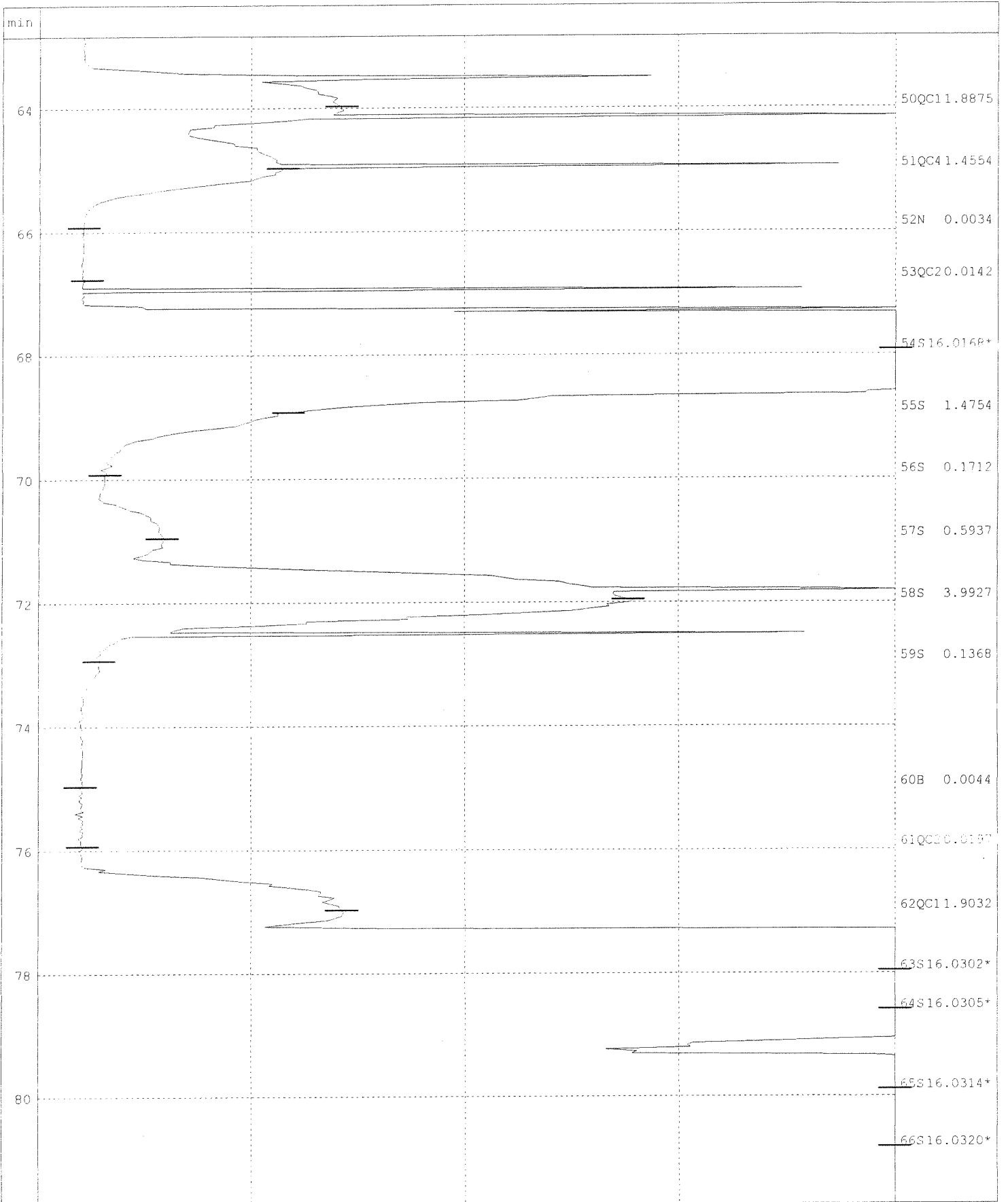
Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



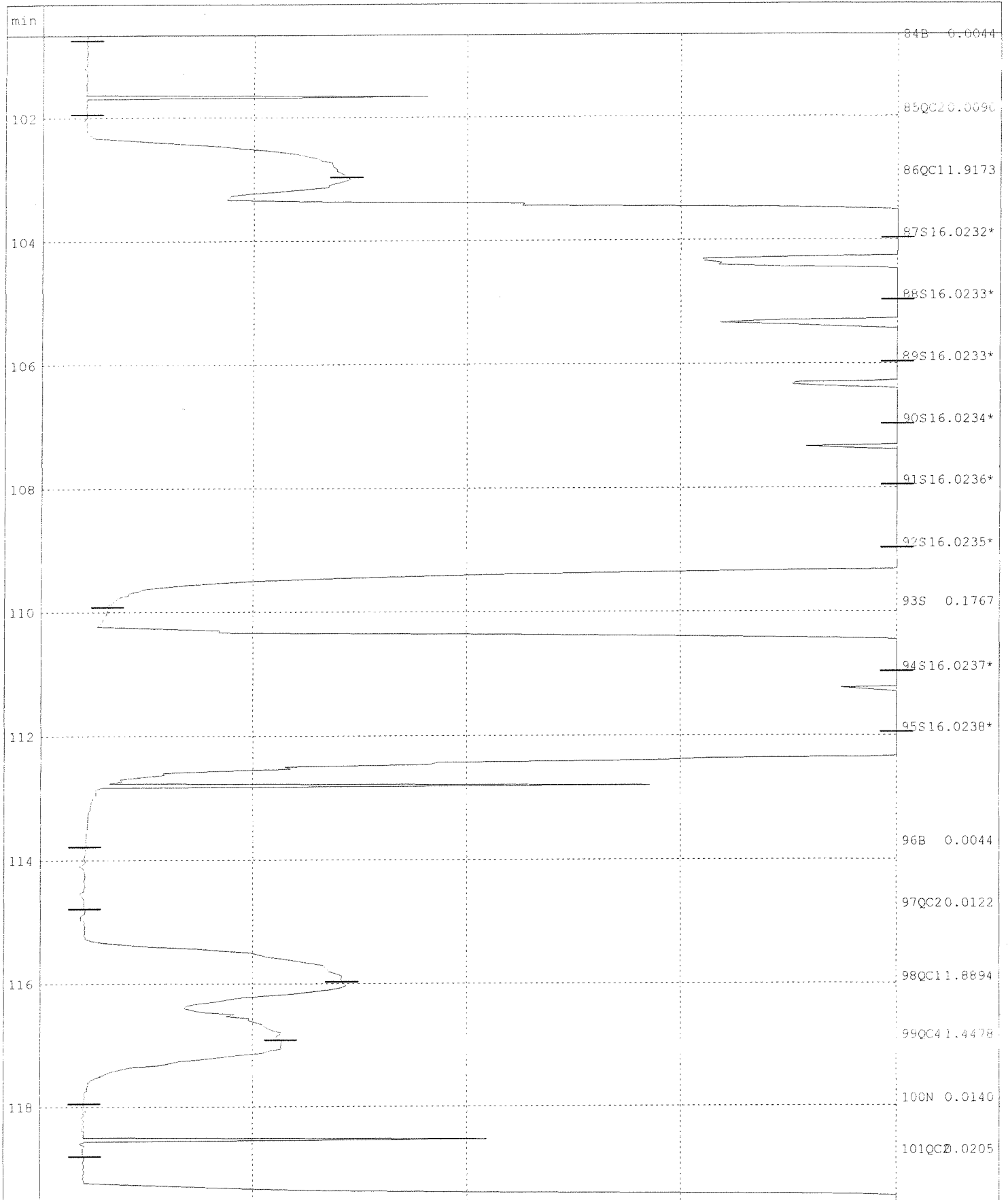
Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



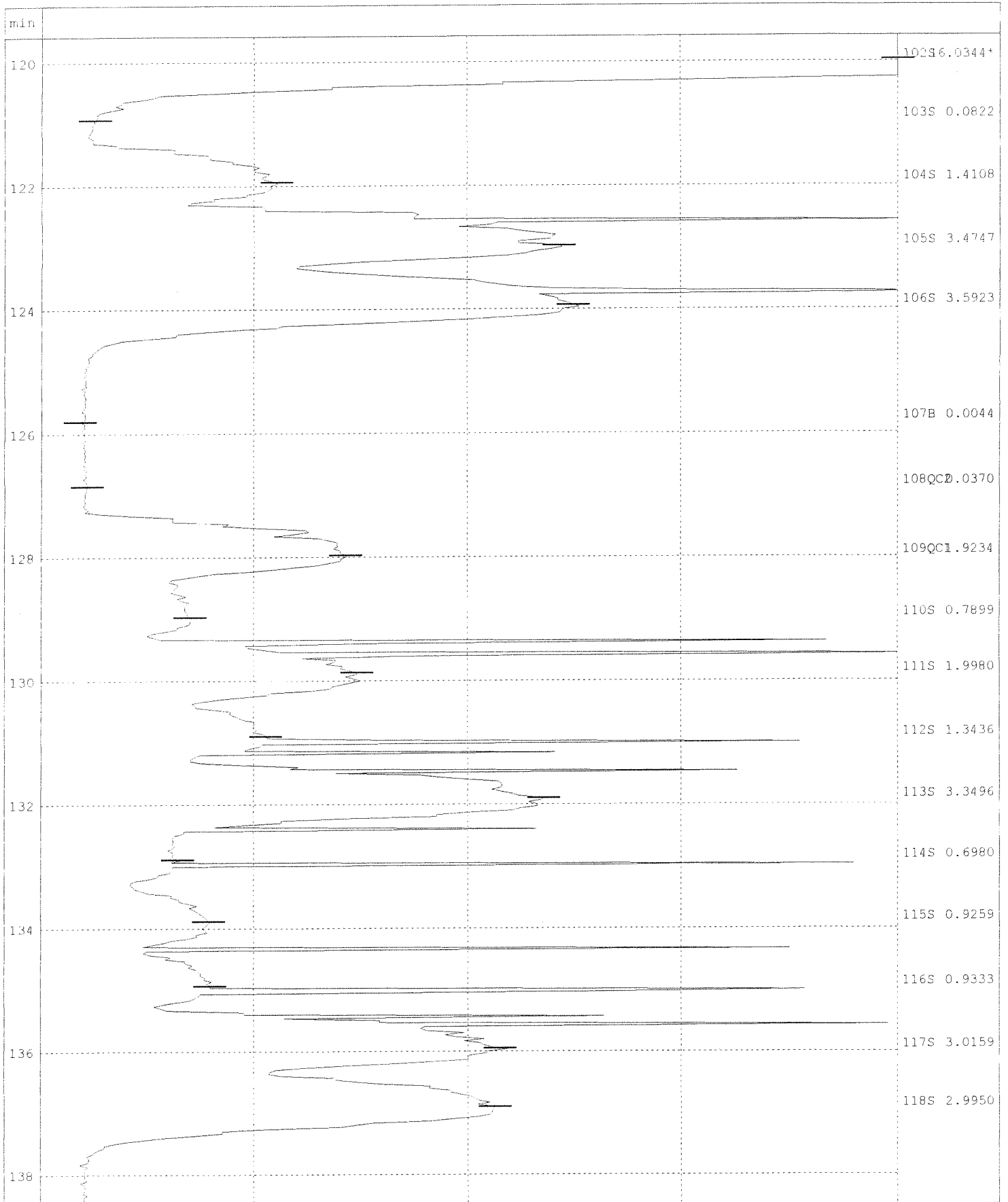
Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



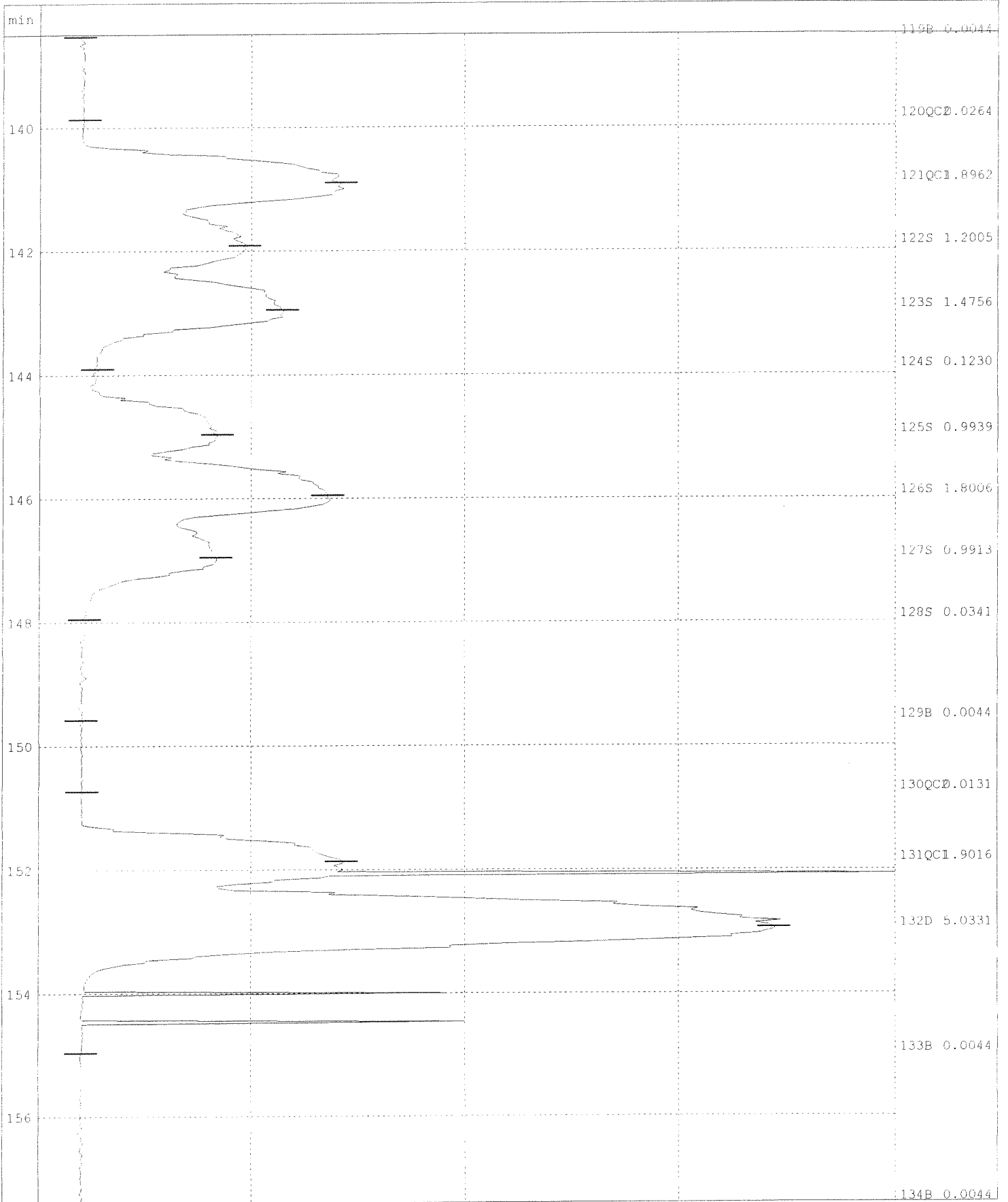
Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



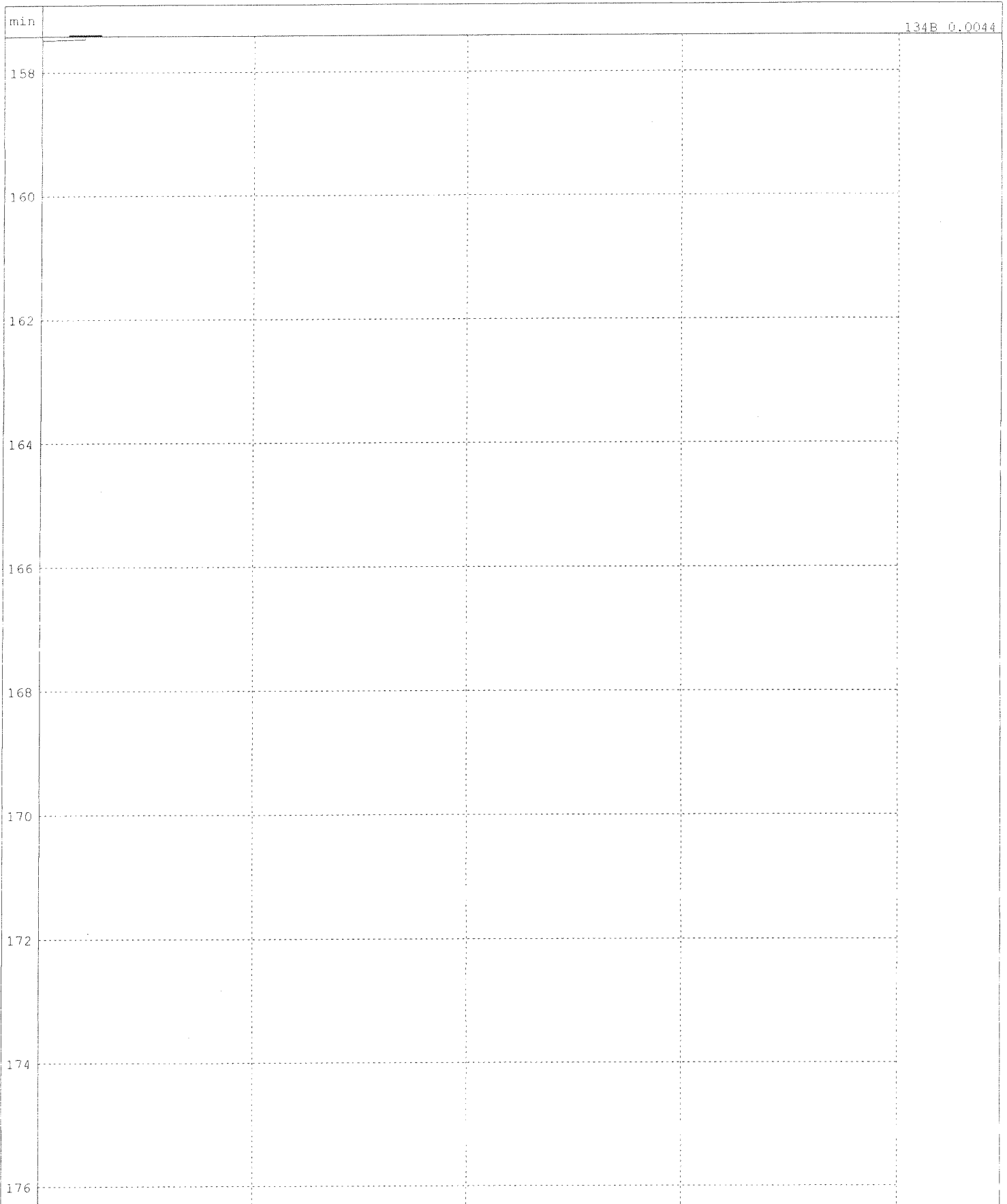
Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



Name of run :100518B.RUN
Comment :

Name of analysis :NO2+NO3



Work Request # (Original) K 4870
 Tier: III
 Date Analyzed: 5/14/10
 Analyst: [Signature]
 Analysis: 365.3 OPHOST

201077

**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

Analytical Results Summary

Instrument Name:	K-UV-VIS-01	Analyst:	SARWOOD	Analysis Lot:	201077	Method/Testcode:	365.3/O Phos T							
ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1004870-001	Orthophosphate as Phosphorus	N/A		Water	0.04 mg/L	50 mL	0.037 mg/L	1	0.004	0.010			5/14/10 12:50:00	N V
1004870-002	Orthophosphate as Phosphorus	N/A		Water	0.03 mg/L	50 mL	0.031 mg/L	1	0.004	0.010			5/14/10 12:50:00	N V
1004870-003	Orthophosphate as Phosphorus	N/A		Water	0.06 mg/L	50 mL	0.064 mg/L	1	0.004	0.010			5/14/10 12:50:00	N V
1004870-004	Orthophosphate as Phosphorus	N/A		Water	0.10 mg/L	50 mL	0.095 mg/L	1	0.004	0.010			5/14/10 12:50:00	N V
1004870-005	Orthophosphate as Phosphorus	N/A		Water	0.10 mg/L	50 mL	0.097 mg/L	1	0.004	0.010			5/14/10 12:50:00	N V
Q1004458-01	Orthophosphate as Phosphorus	CCB		Water	0.00 mg/L	50 mL	0.010 mg/L	U	1	0.004	0.010		5/14/10 12:50:00	N V
Q1004458-02	Orthophosphate as Phosphorus	CCV		Water	0.49 mg/L	0.5 mL	48.8 mg/L	1	0.4	1.0			5/14/10 12:50:00	N V
Q1004458-03	Orthophosphate as Phosphorus	MB		Water	0.00 mg/L	50 mL	0.010 mg/L	U	1	0.004	0.010		5/14/10 12:50:00	N V
Q1004458-04	Orthophosphate as Phosphorus	LCS		Water	0.34 mg/L	5 mL	3.44 mg/L	1	0.04	0.10	96		5/14/10 12:50:00	N V
Q1004458-05	Orthophosphate as Phosphorus	MS	K1004870-002	Water	0.22 mg/L	50 mL	0.218 mg/L	1	0.004	0.010	94		5/14/10 12:50:00	N V
Q1004458-06	Orthophosphate as Phosphorus	DMS	K1004870-002	Water	0.42 mg/L	50 mL	0.415 mg/L	1	0.004	0.010	96		5/14/10 12:50:00	N V
Q1004458-07	Orthophosphate as Phosphorus	DUP	K1004870-002	Water	0.03 mg/L	50 mL	0.031 mg/L	1	0.004	0.010		2	5/14/10 12:50:00	N V
Q1004458-08	Orthophosphate as Phosphorus	CCV		Water	0.49 mg/L	0.5 mL	48.6 mg/L	1	0.4	1.0			5/14/10 12:50:00	N V
Q1004458-09	Orthophosphate as Phosphorus	CCB		Water	0.00 mg/L	50 mL	0.010 mg/L	U	1	0.004	0.010		5/14/10 12:50:00	N V

DTE 8/5/10

5/19/10

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

DU520 S/N: 0112U2001732 1.03
 14-MAY-10 13:39:35 SCA Group 0824
 Wavelength: 650.0 nm
 Formula: A=a+bC a: -0.0034 b: 2.0513

Sample	Net A	Dil X	mg/L
0001	0.000	1.0000	0.00
0002	1.015	1.0000	0.50
0003	1.016	1.0000	0.50
0004	CCB WB 0.001	1.0000	0.0022
0005	CCV 0.998	1.0000	0.4882
0006	WB -0.000	1.0000	0.0014
0007	LCS 0.701	1.0000	0.3435
0008	K4870-1 0.072	1.0000	0.0367
0009	-2 0.058	1.0000	0.0301
0010	0.050	1.0000	0.0258
0010	-2 0.060	1.0000	0.0308
0011	-2d 0.061	1.0000	0.0313
0012	-2ms 0.444	1.0000	0.2180
0013	-2msd 0.848	1.0000	0.4152
0014	-3 0.127	1.0000	0.0637
0015	-4 0.192	1.0000	0.0950
0016	-5 0.196	1.0000	0.0972
0017	CCB2 0.002	1.0000	0.0027
0018	CCV2 0.994	1.0000	0.4861

NR

NR NR } REMADE SAMPLES

5/19/10

OTE 5/14/10

DU520 S/N: 0112U2001732 1.03
14-MAY-10 13:38:17 SCA
Wavelength: 650.0 nm
Formula: $A=a+bC$ a: -0.0034 b: 2.0513

Offus
5/14/10
1250µm
K 4870

mg/L Net A r2=1.000 Var=0.0000

0.0000	0.000
0.0100	0.020
0.0500	0.103
0.1000	0.197
0.2000	0.398
0.5000	1.024
0.7000	1.434

CURVE ID# PO₃/3-4-L
CCU ID# PO₃/3-24L

5/19/10

Work Request # ^{Original} (4765) 4791 4811 4870 4935 4971 4812 201590
 Tier: 1 1 V V V 11 11
 Date Analyzed: 9/18/10
 Analyst: nb
 Analysis: alk, h, ar, carb, OH⁻

**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, <u>DUP</u> 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:

4870-S1SD high RPD reanalyze to confirm
 4812-2-7 insufficient QC reanalyze w/ enough.

4971 4935 dr 526

reanalyze 4791-1, 2, 11; 4935-1 per W

Final Approved by: _____

Date: 6/1/10

DQREPORT

Analyte: Alkalinity
Method: 310.1 / SM20 2320 B

Regular Level X
High Level _____

Analyst: nb
Pipette: _____

Date: 5.18.10
Time: 1545

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 #:
Con/11-75-L
Con/1-77-K

Reagents: ²²⁷
HCl H2SO4: 0.020 N
Reg Level Reference: 50 mg/L
High Level Reference: 5000 mg/L
LCS/MS Solution: 1000 mg/L

Log #
RLC 1002358
ERA 3141-698

* 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	7.02		0.09						3.1
2	%REC=103 LCS	30.0	9.03		2.10						70.1
3	4765-1	30.0	7.21		4.13						138
4	4765-2	30.0	6.83		3.53						118
5	4765-3	30.0	7.26		3.94						131
6	4765-4	30.0	6.41		1.01			<9	325		33.5
7	X=<9 LL 4791-1	10.0	5.16		0.06						5.7
8	RPD-- 4791-1d	10.0	5.12		0.06						5.8
9	LL 4791-2	10.0	5.54		0.09						8.8
10	4791-3	15.0	6.53		1.88			<9	125		125
11	LL 4791-4	10.0	5.82		0.16						16.0
12	4814-1	15.0	7.06		3.52			<9	<9	234	234
13	4814-2	30.0	7.31		4.14			<9	<9	138	138
14	4814-3	30.0	7.35		10.55			<9	<9	352	352
15	4814-4	30.0	7.32		12.01			<9	<9	400	400
16	X=244 4814-5	30.0	7.12		7.20			<9	<9	240	240
16	RPD=3 4814-5d	30.0	7.13		7.40			<9	<9	247	247
17	4814-6	30.0	7.11		7.34			<9	<9	245	245
18	4870-1	15.0	6.77		3.35			<9	<9	223	223
19	4870-2	15.0	6.65		3.21			<9	<9	211	214
20	4870-3	15.0	7.13		5.41			<9	<9	360	360
21	4870-4	30.0	6.75		3.54			<9	14	118	118
22	X=210 4870-5	15.0	7.65		2.81						187
23	RPD=21 4870-5d	15.0	7.85		3.48						232
24	LL 4935-1	30.0	6.39		0.47						15.8
25	4935-2	30.0	6.60		0.82						27.2
26	4935-3	30.0	6.48		0.64						21.4
27	4935-4	30.0	6.44		0.66						22.0
28	X=233 4971-2	15.0	6.81		3.53						235
29	RPD=2 4971-2d	15.0	6.76		3.47						231
30	4971-5	30.0	7.57		2.64						88.1
31	4843-1	30.0	8.23		8.74						291
32	NR 4843-2	30.0	7.76		7.82						261
33	NR 4843-3	30.0	8.11		4.38						146
34	NR 4843-4	10.0	7.39		12.25						1225
35	NR 4843-5	10.0	7.61		12.15						1215
36	NR 4843-6	30.0	7.30		10.24						341

5/18/10

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

Log # _____

Reg Level Reference: 50 mg/L

High Level Reference: 5000 mg/L

LCS/MS Solution: 1000 mg/L

* 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	NR	4843-7	30.0	7.35		17.30					577
38	MB2		30.0	5.74		0.07					2.4
39	%REC=101	LCS2	30.0	8.97		2.06					68.6
40											
41											
42											
43											
44											
45											
46											
47											
48											
49											
50											
51											
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71											
72											
73											

Test ID	LIMS ID	Meth ID	SmplID	pH	SmplVol	Tot Vol	SmplResults	Units	Recv %	End Pt	Slope (r)	Calc (I)	Date	Time	Analyst	Run ID	Instr ID
Akahlnt	K1004843-002.04	1	33	7.76	30		260.96	ppmf		144.4 mV	57.98	03345	05-18-10	20:19	ACQWE	Z0518101634	SN=123
Akahlnt	K1004843-003	1	34	8.11	30		146.21	ppmf		144.4 mV	57.98	03345	05-18-10	20:28	ACQWE	Z0518101634	SN=123
Akahlnt	K1004843-004.3K	1	35	7.39	30		408.52	ppmf		144.4 mV	57.98	03345	05-18-10	20:36	ACQWE	Z0518101634	SN=123
Akahlnt	K1004843-005.3K	1	36	7.61	30		405.20	ppmf		144.4 mV	57.98	03345	05-18-10	20:45	ACQWE	Z0518101634	SN=123
Akahlnt	K1004843-006.04	1	37	7.30	30		341.63	ppmf		144.4 mV	57.98	03345	05-18-10	20:55	ACQWE	Z0518101634	SN=123
Akahlnt	K1004843-007	1	38	7.95	30		577.31	ppmf		144.4 mV	57.98	03345	05-18-10	21:04	ACQWE	Z0518101634	SN=123
Akahlnt	MB2	1	39	5.74	30		2.4268	ppmf		144.4 mV	57.98	03345	05-18-10	21:12	ACQWE	Z0518101634	SN=123
Akahlnt	LCS2	1	40	8.97	30		35.530	ppmf		-76.0 mV	57.98	03345	05-18-10	21:16	ACQWE	Z0518101634	SN=123
Akahlnt	LCS2	1	40	8.97	30		68.672	ppmf		144.4 mV	57.98	03345	05-18-10	21:16	ACQWE	Z0518101634	SN=123

6/1/10

Work Request # ^{Original} (4870) 4843 4880 4890 4930 4934 2021541
 Tier: V 11 1 11 1 V
 Date Analyzed: 5/21/10
 Analyst: nb
 Analysis: alk, bicarb, carb, OH⁻

**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? yes/no/NA
 (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)
 - 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? yes/no/NA
 (e.g. Special MRLs, QC on a specific sample)
- 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 4934, 3-5 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: AD
Pipette: _____

Date: 5.21.10
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/1-79-K

Reagents: Concentration Log #
HCl H2SO4: 0.020 N ACC 1002358
Reg Level Reference: 50 mg/L
High Level Reference: 5000 mg/L
LCS/MS Solution: 1000 mg/L JULI-098 ERA

* 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

SAN 5/27/10

Test ID	LIMS ID	Meth ID	Smpl ID	pH	SmplVol	Tot Vol	SmplResults	Units	Recv %	End Pt	Slope (n)	Calc (C)	Date	Time	Analyst	Run ID	Instr ID
alkalinit	K1004934-005-05	1	32	7.81	30						58.22	03345	05-21-10	18:41	ACQWE	Z0521101442	SN=123
alkalinit	K1004934-005D	1	33	7.77	30						58.22	03345	05-21-10	18:47	ACQWE	Z0521101442	SN=123
19	alkalinit K1004934-001.10	1	34	7.26	30		254.51	ppm/l		144.4 mV)	58.22	03345	05-21-10	18:54	ACQWE	Z0521101442	SN=123
20	alkalinit K1004934-002.10	1	35	7.49	30		173.99	ppm/l		144.4 mV)	58.22	03345	05-21-10	19:00	ACQWE	Z0521101442	SN=123
	alkalinit K1004934-003.10	1	36	8.0	30		.027581	ppm/l		-76.9 mV)	58.22	03345	05-21-10	19:08	ACQWE	Z0521101442	SN=123
	alkalinit K1004934-003.10	1	36	8.0	30		223.23	ppm/l		144.4 mV)	58.22	03345	05-21-10	19:08	ACQWE	Z0521101442	SN=123
	alkalinit K1004934-004.10	1	37	6.54	30		22.793	ppm/l		144.4 mV)	58.22	03345	05-21-10	19:18	ACQWE	Z0521101442	SN=123
	alkalinit K1004934-005.10	1	38	7.16	30		239.89	ppm/l		144.4 mV)	58.22	03345	05-21-10	19:22	ACQWE	Z0521101442	SN=123
	alkalinit MB2	1	39	5.97	30		2.7948	ppm/l		144.4 mV)	58.22	03345	05-21-10	19:30	ACQWE	Z0521101442	SN=123
	alkalinit	1	40	8.93	30		37.227	ppm/l		-76.9 mV)	58.22	03345	05-21-10	19:33	ACQWE	Z0521101442	SN=123
	alkalinit LCS2	1	40	8.93	30		121.11	ppm/l		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 AUTOCHEMISTRY 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

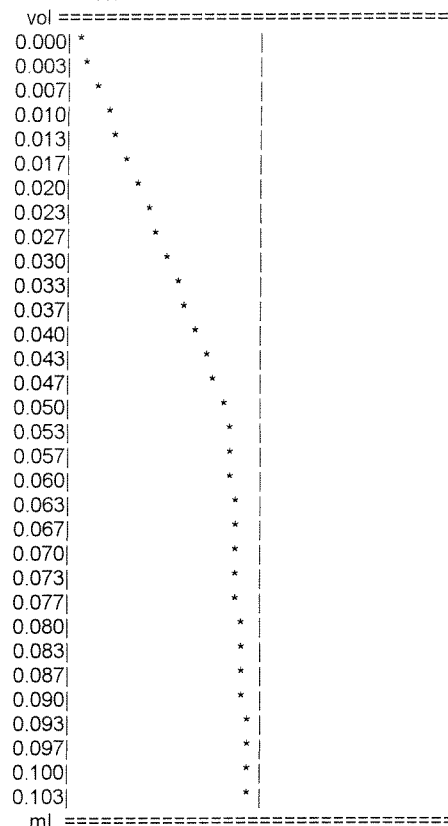
SAMPLE ID NUMBER: 1
 TEST: MB
 SITE: _____
 ANALYST: _____
 15:26 05-21-10 ELECTRODE: 1:pH
 TECHNIQUE 8 PRESET END POINT
 SLOPE 58.22 mV/dec
 Eo -1.2 mV
 SAMPLE VOLUME 30.000 mL
 TITRANT 0.02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 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



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

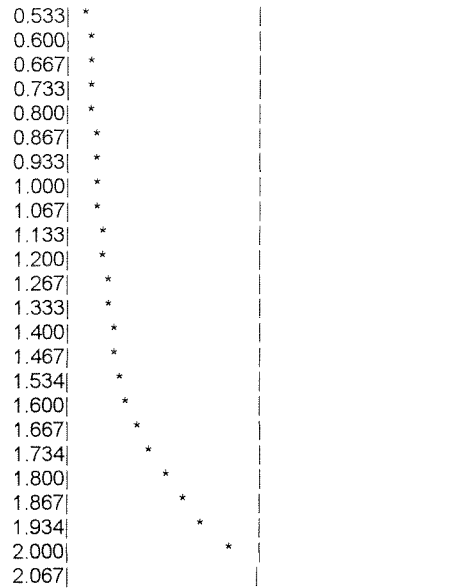
SAMPLE VOLUME 30.000 mL
 TITRANT .02000 M of _____
 CONST INCREMENT 10.0 mV
 MAX TITRANT VOL 25.000 mL
 TIMED READINGS 10.0 sec
 PRESTIR 3.0 sec
 CONTINUOUS STIRRING
 REACTION RATIO 0.5000
 MOLECULAR WEIGHT 100.09
 CAL CONSTANT 1.03345
 PRESET pH(1) 8.300
 PRESET pH(2) 4.500
 0 v= 0.000 mL E= -125.0 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|*



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: 4870-5
 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 = 6.906 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 0.2000 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