



Environmental Division

CERTIFICATE OF ANALYSIS

Work Order	: ES1006019	Page	: 1 of 13
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Project	: ROCLA G WATERS	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Order number	: ----	Date Samples Received	: 01-APR-2010
C-O-C number	: ----	Issue Date	: 12-APR-2010
Sampler	: CBE	No. of samples received	: 25
Site	: ----	No. of samples analysed	: 25
Quote number	: SY/143/09		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results



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Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

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General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

- **EG-020T : LCS recovery for Nickel falls outside ALS Dynamic Control Limit. However, it is within the acceptance criteria based on ALS DQO. No further action is required.**
- **EG035T: Positive mercury results have been confirmed by re-analysis.**



Analytical Results

Sub-Matrix: WATER

				Client sample ID				
				Client sampling date / time				
				CQ1	CQ3	CQ4	CQ5	CQ6
				[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]
Compound	CAS Number	LOR	Unit	ES1006019-001	ES1006019-003	ES1006019-004	ES1006019-005	ES1006019-006
EA005: pH								
pH Value	----	0.01	pH Unit	4.31	5.99	4.89	4.32	4.67
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	----	1	µS/cm	138	134	109	170	218
ED009: Anions								
Chloride	16887-00-6	0.50	mg/L	20.4	21.3	18.2	20.6	20.7
Fluoride	16984-48-8	0.02	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Sulfate	14808-79-8	0.50	mg/L	15.9	3.04	8.59	30.5	9.90
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	3	25	5	<1	<1
Total Alkalinity as CaCO3	----	1	mg/L	3	25	5	<1	<1
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	<1	2	<1	4	2
Magnesium	7439-95-4	1	mg/L	3	4	1	4	11
Sodium	7440-23-5	1	mg/L	12	12	12	12	11
Potassium	7440-09-7	1	mg/L	<1	1	<1	2	2
EG020T: Total Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	0.48	0.14	0.08	0.87	1.87
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.0001	<0.0001	<0.0001	0.0002
Chromium	7440-47-3	0.001	mg/L	0.002	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L	0.002	0.003	0.006	<0.001	0.009
Lead	7439-92-1	0.001	mg/L	0.001	0.002	0.004	0.001	0.004
Manganese	7439-96-5	0.001	mg/L	0.006	0.821	0.004	0.007	0.021
Nickel	7440-02-0	0.001	mg/L	0.003	0.011	<0.001	<0.001	0.001
Selenium	7782-49-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	0.005	mg/L	0.013	0.104	0.032	0.020	0.124
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Iron	7439-89-6	0.05	mg/L	0.08	0.36	<0.05	<0.05	0.44
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	----	0.01	mg/L	<0.01	0.02	<0.01	0.02	0.07
EK058G: Nitrate as N by Discrete Analyser								
^ Nitrate as N	14797-55-8	0.01	mg/L	1.09	0.09	0.37	1.16	12.4
EK059G: NOX as N by Discrete Analyser								



Analytical Results

Sub-Matrix: **WATER**

				Client sample ID	CQ1	CQ3	CQ4	CQ5	CQ6
				Client sampling date / time	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]
Compound	CAS Number	LOR	Unit		ES1006019-001	ES1006019-003	ES1006019-004	ES1006019-005	ES1006019-006
EK059G: NOX as N by Discrete Analyser - Continued									
Nitrite + Nitrate as N	----	0.01	mg/L		1.09	0.11	0.37	1.18	12.5
EN055: Ionic Balance									
^ Total Anions	----	0.01	meq/L		0.96	1.17	0.79	1.22	----
Total Anions	----	0.01	meq/L		----	----	----	----	1.68
^ Total Cations	----	0.01	meq/L		0.79	1.01	0.63	1.12	1.58



Analytical Results

Sub-Matrix: WATER

				Client sample ID				
				Client sampling date / time				
				CQ7	CQ8	CQ9	CQ10	CQ11S
				[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]
Compound	CAS Number	LOR	Unit	ES1006019-007	ES1006019-008	ES1006019-009	ES1006019-010	ES1006019-011
EA005: pH								
pH Value	----	0.01	pH Unit	4.57	3.48	4.41	4.61	4.57
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	----	1	µS/cm	109	172	122	175	169
ED009: Anions								
Chloride	16887-00-6	0.50	mg/L	22.4	19.9	26.8	27.2	15.4
Fluoride	16984-48-8	0.02	mg/L	<0.02	0.03	<0.02	<0.02	0.03
Sulfate	14808-79-8	0.50	mg/L	5.52	6.62	5.47	24.3	35.4
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	<1	<1	<1	<1	<1
Total Alkalinity as CaCO3	----	1	mg/L	<1	<1	<1	<1	<1
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	<1	<1	<1	2	<1
Magnesium	7439-95-4	1	mg/L	2	6	2	3	5
Sodium	7440-23-5	1	mg/L	12	15	13	17	15
Potassium	7440-09-7	1	mg/L	<1	<1	<1	<1	4
EG020T: Total Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	0.17	0.62	0.20	0.87	0.93
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	0.0001	<0.0001
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	0.004	<0.001
Copper	7440-50-8	0.001	mg/L	<0.001	0.002	0.002	0.005	0.003
Lead	7439-92-1	0.001	mg/L	0.001	0.002	0.001	0.017	0.030
Manganese	7439-96-5	0.001	mg/L	0.003	0.002	0.002	0.024	0.007
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	0.004	0.001
Selenium	7782-49-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	0.005	mg/L	0.016	0.020	0.009	0.082	0.066
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Iron	7439-89-6	0.05	mg/L	<0.05	<0.05	0.06	0.11	0.06
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	----	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser								
^ Nitrate as N	14797-55-8	0.01	mg/L	1.23	8.66	1.07	1.36	0.11
EK059G: NOX as N by Discrete Analyser								



Analytical Results

Sub-Matrix: **WATER**

				Client sample ID	CQ7	CQ8	CQ9	CQ10	CQ11S
				Client sampling date / time	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]
Compound	CAS Number	LOR	Unit		ES1006019-007	ES1006019-008	ES1006019-009	ES1006019-010	ES1006019-011
EK059G: NOX as N by Discrete Analyser - Continued									
Nitrite + Nitrate as N	----	0.01	mg/L		1.23	8.66	1.07	1.36	0.11
EN055: Ionic Balance									
^ Total Anions	----	0.01	meq/L		0.75	----	0.87	1.27	1.17
Total Anions	----	0.01	meq/L		----	1.32	----	----	----
^ Total Cations	----	0.01	meq/L		0.67	1.15	0.72	1.09	1.17



Analytical Results

Sub-Matrix: WATER

				Client sample ID				
				Client sampling date / time				
				CQ11D	CQ12	CQ13	CP3	CP4
				[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]
Compound	CAS Number	LOR	Unit	ES1006019-012	ES1006019-013	ES1006019-014	ES1006019-015	ES1006019-016
EA005: pH								
pH Value	----	0.01	pH Unit	5.29	4.38	5.05	4.63	4.40
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	----	1	µS/cm	144	156	209	158	242
ED009: Anions								
Chloride	16887-00-6	0.50	mg/L	18.0	18.2	33.8	21.2	34.1
Fluoride	16984-48-8	0.02	mg/L	<0.02	0.03	<0.02	0.03	<0.02
Sulfate	14808-79-8	0.50	mg/L	22.8	28.9	3.94	27.6	9.25
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	7	<1	2	<1	<1
Total Alkalinity as CaCO3	----	1	mg/L	7	<1	2	<1	<1
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	1	<1	<1	<1	1
Magnesium	7439-95-4	1	mg/L	3	5	6	3	7
Sodium	7440-23-5	1	mg/L	15	13	24	16	25
Potassium	7440-09-7	1	mg/L	<1	<1	<1	1	1
EG020T: Total Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	0.07	0.84	0.39	0.48	0.64
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0001	0.0001	<0.0001
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.005
Copper	7440-50-8	0.001	mg/L	<0.001	0.002	0.004	0.229	0.047
Lead	7439-92-1	0.001	mg/L	0.006	0.007	0.056	0.015	0.005
Manganese	7439-96-5	0.001	mg/L	0.035	0.002	0.011	0.004	0.004
Nickel	7440-02-0	0.001	mg/L	0.003	<0.001	0.001	0.001	0.022
Selenium	7782-49-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	0.005	mg/L	0.118	0.040	0.088	0.194	0.190
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	0.05	<0.05
Iron	7439-89-6	0.05	mg/L	0.30	<0.05	0.08	0.46	0.07
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	----	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser								
^ Nitrate as N	14797-55-8	0.01	mg/L	0.02	0.59	9.03	1.22	9.99
EK059G: NOX as N by Discrete Analyser								



Analytical Results

Sub-Matrix: WATER

				Client sample ID	CQ11D	CQ12	CQ13	CP3	CP4
				Client sampling date / time	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]
Compound	CAS Number	LOR	Unit		ES1006019-012	ES1006019-013	ES1006019-014	ES1006019-015	ES1006019-016
EK059G: NOX as N by Discrete Analyser - Continued									
Nitrite + Nitrate as N	----	0.01	mg/L		0.02	0.59	9.03	1.22	9.99
EN055: Ionic Balance									
^ Total Anions	----	0.01	meq/L		1.12	1.12	----	1.17	----
Total Anions	----	0.01	meq/L		----	----	1.72	----	1.87
^ Total Cations	----	0.01	meq/L		1.00	0.98	1.56	1.00	1.77



Analytical Results

Sub-Matrix: WATER

				Client sample ID				
				Client sampling date / time				
				CP5	CP6	CP7	CP8	MW7
				[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]
Compound	CAS Number	LOR	Unit	ES1006019-017	ES1006019-018	ES1006019-019	ES1006019-020	ES1006019-021
EA005: pH								
pH Value	----	0.01	pH Unit	4.30	4.25	5.44	4.26	4.40
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	----	1	µS/cm	275	230	185	160	127
ED009: Anions								
Chloride	16887-00-6	0.50	mg/L	23.7	22.5	12.3	32.2	28.4
Fluoride	16984-48-8	0.02	mg/L	0.03	0.03	<0.02	<0.02	<0.02
Sulfate	14808-79-8	0.50	mg/L	3.35	6.02	20.9	7.66	5.88
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	<1	<1	4	<1	1
Total Alkalinity as CaCO3	----	1	mg/L	<1	<1	4	<1	1
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	1	<1	8	<1	<1
Magnesium	7439-95-4	1	mg/L	15	10	4	3	2
Sodium	7440-23-5	1	mg/L	14	16	6	17	14
Potassium	7440-09-7	1	mg/L	1	<1	13	<1	<1
EG020T: Total Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	0.98	0.94	0.09	0.98	0.29
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.002
Copper	7440-50-8	0.001	mg/L	0.010	0.016	0.003	0.007	0.001
Lead	7439-92-1	0.001	mg/L	0.002	0.001	<0.001	0.002	0.002
Manganese	7439-96-5	0.001	mg/L	0.002	0.002	0.206	0.008	0.008
Nickel	7440-02-0	0.001	mg/L	<0.001	0.001	<0.001	<0.001	0.001
Selenium	7782-49-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	0.005	mg/L	0.006	0.078	0.052	0.063	0.011
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Iron	7439-89-6	0.05	mg/L	<0.05	<0.05	0.66	0.16	0.11
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	0.0004	<0.0001
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	----	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser								
^ Nitrate as N	14797-55-8	0.01	mg/L	20.6	13.9	8.80	2.55	0.18
EK059G: NOX as N by Discrete Analyser								



Analytical Results

Sub-Matrix: **WATER**

				Client sample ID	CP5	CP6	CP7	CP8	MW7
				Client sampling date / time	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]
Compound	CAS Number	LOR	Unit		ES1006019-017	ES1006019-018	ES1006019-019	ES1006019-020	ES1006019-021
EK059G: NOX as N by Discrete Analyser - Continued									
Nitrite + Nitrate as N	----	0.01	mg/L		20.6	13.9	8.80	2.55	0.18
EN055: Ionic Balance									
^ Total Anions	----	0.01	meq/L		----	----	----	1.07	0.94
Total Anions	----	0.01	meq/L		2.10	1.69	1.49	----	----
^ Total Cations	----	0.01	meq/L		1.95	1.52	1.34	0.97	0.76



Analytical Results

Sub-Matrix: WATER

				Client sample ID				
				Client sampling date / time				
				MW8	MW9	MW10	MW13	MW16
				[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]
Compound	CAS Number	LOR	Unit	ES1006019-022	ES1006019-023	ES1006019-024	ES1006019-025	ES1006019-026
EA005: pH								
pH Value	----	0.01	pH Unit	4.72	4.43	4.50	3.52	4.52
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	----	1	µS/cm	105	96	146	109	122
ED009: Anions								
Chloride	16887-00-6	0.50	mg/L	22.2	21.5	30.6	26.4	30.8
Fluoride	16984-48-8	0.02	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Sulfate	14808-79-8	0.50	mg/L	6.32	5.24	9.50	5.43	4.97
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	3	<1	<1	<1	<1
Total Alkalinity as CaCO3	----	1	mg/L	3	<1	<1	<1	<1
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	<1	<1	1	<1	<1
Magnesium	7439-95-4	1	mg/L	2	1	2	2	2
Sodium	7440-23-5	1	mg/L	11	11	15	12	14
Potassium	7440-09-7	1	mg/L	<1	<1	<1	<1	<1
EG020T: Total Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	0.28	0.17	0.79	0.09	0.22
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	7440-47-3	0.001	mg/L	0.002	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L	0.003	<0.001	0.003	0.003	0.004
Lead	7439-92-1	0.001	mg/L	0.004	<0.001	0.006	0.004	0.002
Manganese	7439-96-5	0.001	mg/L	0.007	0.003	0.015	0.052	0.010
Nickel	7440-02-0	0.001	mg/L	0.002	<0.001	0.002	0.002	0.001
Selenium	7782-49-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	0.005	mg/L	0.038	0.006	0.087	0.078	0.015
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Iron	7439-89-6	0.05	mg/L	0.10	<0.05	0.05	<0.05	<0.05
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	----	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser								
^ Nitrate as N	14797-55-8	0.01	mg/L	0.07	0.22	0.38	0.41	0.14
EK059G: NOX as N by Discrete Analyser								



Analytical Results

Sub-Matrix: **WATER**

				Client sample ID	MW8	MW9	MW10	MW13	MW16
				Client sampling date / time	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]	[01-APR-2010]
Compound	CAS Number	LOR	Unit		ES1006019-022	ES1006019-023	ES1006019-024	ES1006019-025	ES1006019-026
EK059G: NOX as N by Discrete Analyser - Continued									
Nitrite + Nitrate as N	----	0.01	mg/L		0.07	0.22	0.38	0.41	0.14
EN055: Ionic Balance									
^ Total Anions	----	0.01	meq/L		0.82	0.71	1.06	0.86	0.97
^ Total Cations	----	0.01	meq/L		0.61	0.59	0.91	0.68	0.78