



**2008 North American Proficiency Testing Program
1st Quarter Report - April 21, 2008**

Laboratory ID

Water Analysis	Units	n	Water 2008-301			Water 2008-302			Water 2008-303		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
pH		31	7.61	0.210		7.90	0.100		8.04	0.440	
EC	dS/m	30	3.45	0.138		0.51	0.028		1.43	1.983	
Cations											
Ca	mmolc/L	29	18.8	1.01		3.20	0.180		3.09	15.67	
Mg	mmolc/L	30	9.41	0.507		1.67	0.070		2.68	6.71	
Na	mmolc/L	30	12.3	0.62		0.800	0.059		9.01	3.29	
K	mmolc/L	27	0.83	0.052		0.050	0.001		0.221	0.605	
NH4-N	mmolc/L	10	0.001	0.001		0.006	0.004		0.001	0.001	
Sum Cations	mmolc/L	14	42.6	1.61		5.83	0.24		15.0	27.2	
SAR		16	3.22	0.265		0.500	0.037		5.31	2.09	
Adj-SAR		7	7.99	1.09		0.970	0.190		11.2	3.21	
Anions											
HCO3	mmolc/L	19	5.78	0.221		4.60	0.100		8.25	2.51	
CO3	mmolc/L	11	0.000	0.000		0.000	0.000		0.000	0.000	
Cl	mmolc/L	22	11.2	0.73		0.469	0.027		4.57	6.65	
NO3	mmolc/L	27	0.080	0.030		0.190	0.020		0.610	0.530	
SO4	mmolc/L	23	25.0	1.45		0.150	0.021		1.25	23.7	
Sum Anions	mmolc/L	14	42.8	1.48		5.47	0.19		14.9	27.3	
Cation-Anion Difference		41	0.00	0.000		0.00	0.000		0.00	0.000	
Boron	mg/L	21	1.06	0.091		0.040	0.002		0.327	0.714	
PO4-P Phosphorus - Spec	mg/L	6	0.053	0.023		0.041	0.023		0.118	0.066	
Phosphorus - ICP (Total)	mg/L	13	0.020	0.020		0.021	0.010		0.054	0.035	
TKN	mg/L	6	0.451	0.351		0.303	0.303		0.508	0.308	
Nitrogen Combustion (Total)	mg/L	1	1.14	0.000		2.72	0.000		8.74	7.60	

1 - Values flagged exceed Warning Limits " * " 2.5 x MAD (Median Absolute Deviation) and Control Limits " *** " 4 x MAD. " < " and "ND" values not recorded.

2 - Limits not compared to lab data for methods with < 7 labs reporting.

Total Organic Carbon

mg/L

4

0.807 0.607

0.307 0.277

2.51 1.703

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