



**2011 North American Proficiency Testing Program
2nd Quarter Report - October 11, 2011**

Laboratory ID
general

Water Analysis	Units	n	Water 2011-304			Water 2011-305			Water 2011-306		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
pH		30	7.99	0.130		7.08	0.270		8.08	0.115	
EC	dS/m	27	2.40	0.060		1.53	0.040		4.99	0.150	
Cations											
Ca	mmolc/L	28	4.63	0.205		6.35	0.360		12.1	0.381	
Mg	mmolc/L	28	4.03	0.150		10.9	0.803		11.5	0.530	
Na	mmolc/L	27	17.5	1.07		1.51	0.110		37.3	3.03	
K	mmolc/L	28	0.130	0.010		0.348	0.027		0.130	0.020	
NH4-N	mmolc/L	13	0.000	0.000		0.031	0.011		0.000	0.000	
Sum Cations	mmolc/L	17	26.3	1.18		19.5	1.09		60.9	3.60	
SAR		19	8.20	0.480		0.510	0.025		10.9	0.620	
Adj-SAR		7	15.9	2.30		1.37	0.13		25.3	3.79	
Anions											
HCO3	mmolc/L	19	4.29	0.160		17.2	0.685		6.97	0.225	
CO3	mmolc/L	14	0.000	0.000		0.000	0.000		0.000	0.000	
Cl	mmolc/L	23	2.47	0.100		0.355	0.035		4.49	0.090	
NO3	mmolc/L	28	0.010	0.001		0.010	0.001		0.290	0.060	
SO4	mmolc/L	21	20.1	1.390		1.22	0.085		48.4	4.68	
Sum Anions	mmolc/L	17	27.2	1.630		18.9	0.760		61.1	4.12	
Cation-Anion Difference		11	0.130			0.285			0.655		
Boron	mg/L	21	0.845	0.065		0.090	0.010		1.62	0.115	
PO4-P Phosphorus - Spec	mg/L	6	0.015	0.002		0.045	0.005		0.010	0.004	
Phosphorus - ICP (Total)	mg/L	13	0.090	0.009		0.120	0.012		0.068	0.007	
TKN	mg/L	5	0.500	0.050		0.600	0.045		0.610	0.170	
Nitrogen Combustion (Total)	mg/L	1	0.500	0.000		0.620	0.000		4.80	0.000	
Total Organic Carbon	mg/L	3	5.60	1.06		0.770	0.077		7.15	1.57	

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.