



**2006 North American Proficiency Testing Program
4th Quarter Report - January 20, 2007**

Laboratory ID

Water Analysis	Units	n	Water 2006-310			Water 2006-311			Water 2006-312		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
pH		47	8.09	0.090		8.16	0.100		7.97	0.157	
EC	dS/m	45	0.83	0.033		0.54	0.023		0.54	0.030	
Cations											
Ca	mmolc/L	42	2.26	0.182		3.12	0.210		3.02	0.420	
Mg	mmolc/L	42	1.71	0.130		1.72	0.115		2.19	0.170	
Na	mmolc/L	41	3.87	0.199		0.85	0.046		0.65	0.036	
K	mmolc/L	40	0.20	0.010		0.07	0.008		0.16	0.011	
NH4-N	mmolc/L	20	0.00	0.005		0.00	0.005		0.00	0.005	
Sum Cations	mmolc/L	22	8.07	0.510		5.72	0.290		5.86	0.575	
SAR		23	2.70	0.100		0.54	0.040		0.40	0.030	
Adj-SAR		9	5.03	0.331		1.08	0.045		0.86	0.077	
Anions											
HCO3	mmolc/L	26	2.99	0.260		3.56	0.270		4.90	0.507	
CO3	mmolc/L	17	0.03	0.030		0.04	0.040		0.00	0.010	
Cl	mmolc/L	34	4.04	0.187		0.74	0.060		0.24	0.023	
NO3	mmolc/L	41	0.01	0.008		0.01	0.003		0.22	0.022	
SO4	mmolc/L	32	0.69	0.037		1.25	0.050		0.21	0.021	
Sum Anions	mmolc/L	20	8.00	0.330		5.65	0.240		5.78	0.397	
Cation-Anion Difference			0.00	0.000		0.00	0.000		0.00	0.000	
Boron	mg/L	28	0.08	0.015		0.03	0.015		0.04	0.010	
PO4-P Phosphorus - Spec	mg/L	16	0.03	0.005		0.05	0.036		0.01	0.009	
Phosphorus - ICP (Total)	mg/L	17	0.04	0.011		0.04	0.018		0.03	0.022	
TKN	mg/L	5	0.44	0.134		0.15	0.140		0.15	0.088	
Nitrogen Combustion (Total)	mg/L	3	0.40	0.021		0.20	0.035		3.23	0.100	
Total Organic Carbon	mg/L	4	3.83	0.465		1.05	0.045		1.16	0.741	

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.