



2006 North American Proficiency Testing Program
2nd Quarter Report - September 15, 2006

Laboratory ID

Water Analysis	Units	n	Water 2006-304			Water 2006-305			Water 2006-306		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
pH		46	7.90	0.195		7.76	0.160		7.97	0.160	
EC	dS/m	43	0.230	0.020		1.310	0.043		0.410	0.020	
Cations											
Ca	mmolc/L	44	1.261	0.070		6.486	0.377		2.595	0.130	
Mg	mmolc/L	44	0.660	0.040		4.089	0.235		1.632	0.116	
Na	mmolc/L	42	0.390	0.030		3.859	0.185		0.270	0.032	
K	mmolc/L	41	0.072	0.008		0.140	0.010		0.021	0.003	
NH4-N	mmolc/L	20	0.001	0.003		0.002	0.003		0.000	0.003	
Sum Cations	mmolc/L	25	2.400	0.120		14.740	0.677		4.544	0.216	
SAR		25	0.399	0.022		1.650	0.050		0.180	0.020	
Adj-SAR		10	0.510	0.085		4.211	0.409		0.340	0.105	
Anions											
HCO3	mmolc/L	29	1.680	0.090		8.82	0.419		3.860	0.170	
CO3	mmolc/L	18	0.000	0.003		0.000	0.003		0.000	0.003	
Cl	mmolc/L	39	0.060	0.018		2.080	0.110		0.285	0.025	
NO3	mmolc/L	48	0.268	0.018		2.020	0.180		0.033	0.007	
SO4	mmolc/L	35	0.310	0.020		1.340	0.105		0.230	0.030	
Sum Anions	mmolc/L	23	2.330	0.180		13.88	0.810		4.520	0.270	
Cation-Anion Difference		54									
Boron	mg/L	27	0.013	0.007		0.065	0.006		0.014	0.006	
PO4-P Phosphorus - Spec	mg/L	14	0.019	0.019		0.015	0.015		0.010	0.005	
Phosphorus - ICP (Total)	mg/L	19	0.030	0.030		0.017	0.017		0.013	0.013	
TKN	mg/L	9	1.500	1.270		0.700	0.220		0.175	0.100	
Nitrogen Combustion (Total)	mg/L	3	0.410	0.410		2.500	2.496		0.440	0.137	
Total Organic Carbon	mg/L	9	1.000	0.280		4.821	1.535		1.050	0.822	

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.