



2008 North American Proficiency Testing Program
4th Quarter Report - November 28, 2008

Laboratory ID

Water		Water 2008-310				Water 2008-311				Water 2008-312			
Analysis	Units	n	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}		
pH		36	8.61	0.150		8.04	0.115		7.95	0.135			
EC	dS/m	34	0.76	0.138		1.84	0.074		1.02	0.040			
Cations													
Ca	mmolc/L	33	1.61	0.085		4.82	0.190		3.860	0.154			
Mg	mmolc/L	33	3.93	0.163		4.52	0.180		2.37	0.094			
Na	mmolc/L	33	2.33	0.110		8.83	0.414		3.75	0.178			
K	mmolc/L	31	0.145	0.005		0.462	0.024		0.080	0.010			
NH4-N	mmolc/L	17	0.003	0.003		0.000	0.000		0.000	0.000			
Sum Cations	mmolc/L	14	8.14	0.286		18.5	0.740		10.2	0.405			
SAR		16	1.40	0.056		4.15	0.165		2.14	0.103			
Adj-SAR		6	2.95	0.150		9.10	0.900		4.27	0.170			
Anions													
HCO3	mmolc/L	21	3.78	0.221		4.22	0.230		3.21	0.128			
CO3	mmolc/L	17	0.600	0.350		0.000	0.025		0.000	0.000			
Cl	mmolc/L	24	2.83	0.115		8.17	0.325		4.86	0.194			
NO3	mmolc/L	31	0.005	0.005		0.440	0.065		0.020	0.010			
SO4	mmolc/L	25	0.800	0.046		5.70	0.275		1.97	0.090			
Sum Anions	mmolc/L	15	7.90	0.466		18.5	0.74		10.1	0.35			
Cation-Anion Difference		43	0.00	0.000		0.00	0.000		0.00	0.000			
Boron	mg/L	20	0.078	0.025		0.326	0.023		0.058	0.010			
PO4-P Phosphorus - Spec	mg/L	5	0.020	0.006		1.040	0.041		0.020	0.020			
Phosphorus - ICP (Total)	mg/L	16	0.021	0.021		1.042	0.077		0.014	0.014			
TKN	mg/L	6	0.475	0.140		2.90	2.365		0.310	0.110			
Nitrogen Combustion (Total)	mg/L	1	0.513	0.020		6.93	0.000		0.386	0.015			
Total Organic Carbon	mg/L	5	5.70	0.260		4.77	0.200		2.13	0.419			

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.