



2010 North American Proficiency Testing Program 3rd Quarter Report - October 15, 2010

Laboratory ID
General

Water	Water 2010-307				Water 2010-308			Water 2010-309			
Analysis	Units	n	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
pH		30	7.87	0.165		7.84	0.080		7.97	0.115	
EC	dS/m	29	0.162	0.008		2.960	0.017		0.360	0.014	
Cations											
Ca	mmolc/L	29	1.160	0.090		8.36	0.350		2.39	0.063	
Mg	mmolc/L	29	0.271	0.019		4.20	0.208		1.350	0.070	
Na	mmolc/L	28	0.191	0.011		17.500	0.023		0.170	0.036	
K	mmolc/L	26	0.020	0.009		0.330	0.030		0.019	0.004	
NH4-N	mmolc/L	11	0.001	0.005		0.000	0.000		0.002	0.002	
Sum Cations	mmolc/L	17	1.66	0.075		29.95	0.183		3.96	0.137	
SAR		16	0.24	0.025		6.875	0.016		0.120	0.032	
Adj-SAR		7	0.242	0.034		13.730	0.650		0.23	0.030	
Anions											
HCO3	mmolc/L	19	1.344	0.056		2.80	0.122		3.51	0.110	
CO3	mmolc/L	12	0.000	0.000		0.000	0.000		0.000	0.000	
Cl	mmolc/L	17	0.050	0.033		16.394	0.021		0.17	0.010	
NO3	mmolc/L	21	0.003	0.007		0.060	0.020		0.010	0.010	
SO4	mmolc/L	21	0.264	0.024		11.228	0.037		0.115	0.035	
Sum Anions	mmolc/L	14	1.67	0.074		30.61	0.182		3.89	0.165	
Cation-Anion Difference		35	0.000	0.020		0.000	0.000		0.000	0.020	
Boron	mg/L	13	0.010	0.010		0.160	0.019		0.008	0.008	
PO4-P Phosphorus - Spec	mg/L	7	0.020	0.013		0.018	0.102		0.018	0.022	
Phosphorus - ICP (Total)	mg/L	13	0.014	0.014		0.010	0.010		0.011	0.011	
TKN	mg/L	6	0.09	0.090		0.127	0.127		0.104	0.090	
Nitrogen Combustion (Total)	mg/L	1	0.15	0.427		0.910	0.000		0.258	0.000	
Total Organic Carbon	mg/L	2	2.0	0.043		0.93	0.074		0.96	0.040	

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.