



2014 North American Proficiency Testing Program
1st Quarter Report - April 15, 2014

Laboratory ID
general

Water		Water 2014-301			Water 2014-302			Water 2014-303			
Analysis	Units	n	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
pH		24	7.90	0.155		8.09	0.135		8.03	0.160	
EC	dS/m	24	0.500	0.038		0.518	0.013		0.400	0.031	
Cations											
Ca	mmolc/L	24	3.17	0.360		2.86	0.135		2.92	0.280	
Mg	mmolc/L	24	2.21	0.105		1.70	0.100		1.14	0.055	
Na	mmolc/L	24	0.455	0.024		0.960	0.040		0.390	0.010	
K	mmolc/L	23	0.050	0.005		0.060	0.010		0.020	0.003	
NH4-N	mmolc/L	11	0.000	0.000		0.000	0.000		0.000	0.000	
Sum Cations	mmolc/L	12	6.06	0.305		5.52	0.162		4.58	0.199	
SAR		16	0.287	0.027		0.620	0.020		0.300	0.030	
Adj-SAR		7	0.600	0.100		1.10	0.050		0.530	0.050	
Anions											
HCO3	mmolc/L	17	3.59	0.290		2.43	0.177		3.36	0.240	
CO3	mmolc/L	10	0.000	0.000		0.000	0.000		0.000	0.000	
Cl	mmolc/L	23	0.337	0.053		0.250	0.020		0.300	0.030	
NO3	mmolc/L	21	0.010	0.001		0.011	0.001		0.013	0.001	
SO4	mmolc/L	21	1.90	0.070		2.81	0.130		0.730	0.060	
Sum Anions	mmolc/L	11	6.11	0.200		5.60	0.150		4.69	0.139	
Cation-Anion Difference		6	0.170	0.180		0.200	0.240		0.095	0.205	
Other											
Boron	mg/L	14	0.028	0.003		0.058	0.009		0.020	0.003	
PO4-P Phosphorus - Spec	mg/L	5	0.020	0.010		0.020	0.010		0.020	0.010	
Phosphorus - ICP (Total)	mg/L	7	0.011	0.011		0.055	0.050		0.015	0.010	
TKN	mg/L	6	0.165	0.165		0.350	0.258		0.200	0.200	
Nitrogen Combustion (Total)	mg/L	2	1.12	0.984		0.611	0.290		0.451	0.250	
Total Organic Carbon	mg/L	3	2.00	0.080		3.77	0.150		0.860	0.140	

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.