



2015 North American Proficiency Testing Program
2nd Quarter Report - July 13, 2015

Laboratory ID
general

Water		Water 2015-304				Water 2015-305				Water 2015-306			
Analysis	Units	n	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}		
pH		36	7.65	0.155		7.79	0.115		7.89	0.096			
EC	dS/m	34	0.570	0.015		0.520	0.019		0.280	0.010			
Cations													
Ca	mmolc/L	34	1.43	0.058		3.40	0.155		1.61	0.128			
Mg	mmolc/L	34	1.36	0.076		1.19	0.082		0.604	0.049			
Na	mmolc/L	34	2.55	0.190		0.950	0.070		0.550	0.035			
K	mmolc/L	33	0.210	0.012		0.022	0.005		0.066	0.006			
NH4-N	mmolc/L	14	0.004	0.001		0.000	0.000		0.001	0.001			
Sum Cations	mmolc/L	18	5.59	0.243		5.51	0.249		2.82	0.287			
SAR		17	2.15	0.120		0.610	0.020		0.500	0.025			
Adj-SAR		7	3.50	0.300		1.30	0.050		0.760	0.040			
Anions													
HCO3	mmolc/L	26	2.39	0.170		3.48	0.250		1.62	0.115			
CO3	mmolc/L	12	0.000	0.000		0.000	0.000		0.000	0.000			
Cl	mmolc/L	29	1.50	0.060		0.567	0.047		0.170	0.040			
NO3	mmolc/L	27	0.024	0.003		0.020	0.003		0.011	0.002			
SO4	mmolc/L	30	1.63	0.075		1.38	0.081		1.00	0.056			
Sum Anions	mmolc/L	14	5.55	0.150		5.62	0.369		2.78	0.182			
Cation-Anion Difference		10	0.145	0.179		0.150	0.215		0.155	0.039			
Other													
Boron	mg/L	25	0.129	0.009		0.020	0.004		0.025	0.004			
PO4-P Phosphorus - Spec	mg/L	7	0.082	0.016		0.010	0.004		0.017	0.004			
Phosphorus - ICP (Total)	mg/L	16	0.100	0.020		0.000	0.010		0.010	0.010			
TKN	mg/L	3	0.800	0.350		0.100	0.100		0.100	0.100			
Nitrogen Combustion (Total)	mg/L	2	0.562	0.262		0.398	0.102		0.792	0.608			
Total Organic Carbon	mg/L	4	7.93	0.325		1.00	0.010		1.89	0.505			

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.