



**2015 North American Proficiency Testing Program
1st Quarter Report - April 8, 2015**

Laboratory ID
general

Water Analysis	Units	n	Water 2015-301			Water 2015-302			Water 2015-303		
			Median	MAD	Lab^{1,2}	Median	MAD	Lab^{1,2}	Median	MAD	Lab^{1,2}
pH		29	7.87	<i>0.180</i>		8.12	<i>0.110</i>		8.00	<i>0.120</i>	
EC	dS/m	28	0.817	<i>0.022</i>		0.366	<i>0.011</i>		0.290	<i>0.005</i>	
Cations											
Ca	mmolc/L	29	4.27	<i>0.230</i>		2.27	<i>0.130</i>		1.68	<i>0.070</i>	
Mg	mmolc/L	29	2.55	<i>0.110</i>		1.19	<i>0.080</i>		0.710	<i>0.030</i>	
Na	mmolc/L	28	1.52	<i>0.079</i>		0.470	<i>0.020</i>		0.650	<i>0.028</i>	
K	mmolc/L	29	0.077	<i>0.013</i>		0.060	<i>0.010</i>		0.048	<i>0.008</i>	
NH4-N	mmolc/L	13	0.005	<i>0.001</i>		0.010	<i>0.002</i>		0.009	<i>0.002</i>	
Sum Cations	mmolc/L	17	8.27	<i>0.520</i>		3.99	<i>0.214</i>		3.09	<i>0.120</i>	
SAR		16	0.815	<i>0.015</i>		0.362	<i>0.034</i>		0.600	<i>0.005</i>	
Adj-SAR		7	1.90	<i>0.100</i>		0.700	<i>0.020</i>		0.980	<i>0.080</i>	
Anions											
HCO3	mmolc/L	22	4.70	<i>0.299</i>		3.34	<i>0.243</i>		2.24	<i>0.130</i>	
CO3	mmolc/L	13	0.000	<i>0.000</i>		0.000	<i>0.000</i>		0.000	<i>0.000</i>	
Cl	mmolc/L	26	2.02	<i>0.080</i>		0.187	<i>0.043</i>		0.125	<i>0.009</i>	
NO3	mmolc/L	28	1.18	<i>0.046</i>		0.010	<i>0.002</i>		0.010	<i>0.001</i>	
SO4	mmolc/L	27	0.340	<i>0.030</i>		0.450	<i>0.030</i>		0.730	<i>0.050</i>	
Sum Anions	mmolc/L	16	8.19	<i>0.330</i>		4.02	<i>0.202</i>		3.11	<i>0.220</i>	
Cation-Anion Difference		7	0.170	<i>0.670</i>		0.020	<i>0.330</i>		0.030	<i>0.166</i>	
Other											
Boron	mg/L	20	0.110	<i>0.011</i>		0.020	<i>0.003</i>		0.030	<i>0.010</i>	
PO4-P Phosphorus - Spec	mg/L	6	0.076	<i>0.071</i>		0.054	<i>0.047</i>		0.050	<i>0.045</i>	
Phosphorus - ICP (Total)	mg/L	14	0.020	<i>0.003</i>		0.020	<i>0.003</i>		0.025	<i>0.004</i>	
TKN	mg/L	5	0.100	<i>0.050</i>		0.125	<i>0.086</i>		0.220	<i>0.080</i>	
Nitrogen Combustion (Total)	mg/L	3	17.0	<i>0.302</i>		0.146	<i>0.146</i>		0.294	<i>0.294</i>	
Total Organic Carbon	mg/L	4	0.614	<i>0.167</i>		1.48	<i>0.083</i>		4.00	<i>0.042</i>	

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.