



**2015 North American Proficiency Testing Program
3rd Quarter Report - October 15, 2015**

Laboratory ID
general

Water Analysis	Units	n	Water 2015-307			Water 2015-308			Water 2015-309		
			Median	MAD	Lab^{1,2}	Median	MAD	Lab^{1,2}	Median	MAD	Lab^{1,2}
pH		34	7.50	<i>0.150</i>		8.18	<i>0.080</i>		7.94	<i>0.115</i>	
EC	dS/m	32	0.100	<i>0.003</i>		0.800	<i>0.028</i>		0.290	<i>0.010</i>	
Cations											
Ca	mmolc/L	34	0.480	<i>0.020</i>		2.50	<i>0.097</i>		1.68	<i>0.065</i>	
Mg	mmolc/L	32	0.247	<i>0.016</i>		1.80	<i>0.080</i>		0.720	<i>0.030</i>	
Na	mmolc/L	34	0.238	<i>0.021</i>		4.27	<i>0.235</i>		0.645	<i>0.032</i>	
K	mmolc/L	31	0.020	<i>0.003</i>		0.210	<i>0.010</i>		0.050	<i>0.009</i>	
NH4-N	mmolc/L	15	0.000	<i>0.000</i>		0.007	<i>0.001</i>		0.000	<i>0.000</i>	
Sum Cations	mmolc/L	17	0.970	<i>0.050</i>		8.77	<i>0.260</i>		3.04	<i>0.140</i>	
SAR		17	0.400	<i>0.017</i>		2.94	<i>0.050</i>		0.610	<i>0.011</i>	
Adj-SAR		7	0.250	<i>0.030</i>		6.30	<i>0.430</i>		0.980	<i>0.050</i>	
Anions											
HCO3	mmolc/L	24	0.730	<i>0.094</i>		5.37	<i>0.253</i>		2.21	<i>0.165</i>	
CO3	mmolc/L	12	0.000	<i>0.000</i>		0.246	<i>0.029</i>		0.000	<i>0.000</i>	
Cl	mmolc/L	26	0.201	<i>0.010</i>		0.764	<i>0.040</i>		0.113	<i>0.023</i>	
NO3	mmolc/L	29	0.017	<i>0.002</i>		0.150	<i>0.014</i>		0.009	<i>0.001</i>	
SO4	mmolc/L	27	0.092	<i>0.012</i>		2.30	<i>0.088</i>		0.735	<i>0.026</i>	
Sum Anions	mmolc/L	16	1.05	<i>0.112</i>		8.76	<i>0.362</i>		3.18	<i>0.210</i>	
Cation-Anion Difference		9	0.000	<i>0.070</i>		0.080	<i>0.580</i>		0.220	<i>0.220</i>	
Other											
Boron	mg/L	20	0.013	<i>0.001</i>		0.322	<i>0.022</i>		0.030	<i>0.003</i>	
PO4-P Phosphorus - Spec	mg/L	7	0.017	<i>0.012</i>		0.142	<i>0.033</i>		0.016	<i>0.014</i>	
Phosphorus - ICP (Total)	mg/L	9	0.020	<i>0.010</i>		0.160	<i>0.020</i>		0.020	<i>0.010</i>	
TKN	mg/L	6	0.086	<i>0.086</i>		0.253	<i>0.253</i>		0.209	<i>0.200</i>	
Nitrogen Combustion (Total)	mg/L	1	0.310	<i>0.000</i>		2.50	<i>0.000</i>		0.330	<i>0.000</i>	
Total Organic Carbon	mg/L	4	1.97	<i>0.145</i>		2.95	<i>0.085</i>		4.04	<i>0.070</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.