2017 North American Proficiency Testing Program
2nd Quarter Report - July 11, 2017

Laboratory ID
general

Water			Water 2017-304			Water 2017-305			Water 2017-306		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
pH		28	**8.10**	*0.105*		**8.20**	*0.095*		**7.50**	*0.115*	
EC	dS/m	28	**0.709**	*0.021*		**0.467**	*0.013*		**0.160**	*0.002*	
Cations											
Ca	mmolc/L	27	**4.00**	*0.220*		**2.40**	*0.090*		**0.770**	*0.041*	
Mg	mmolc/L	27	**2.03**	*0.120*		**1.42**	*0.072*		**0.471**	*0.031*	
Na	mmolc/L	27	**1.30**	*0.050*		**1.03**	*0.060*		**0.261**	*0.017*	
K	mmolc/L	26	**0.118**	*0.008*		**0.104**	*0.006*		**0.040**	*0.003*	
NH4-N	mmolc/L	7	**0.000**	*0.000*		**0.000**	*0.000*		**0.000**	*0.000*	
Sum Cations	mmolc/L	10	**7.42**	*0.130*		**4.87**	*0.160*		**1.47**	*0.032*	
SAR		11	**0.750**	*0.020*		**0.740**	*0.040*		**0.340**	*0.030*	
Adj-SAR		5	**1.70**	*0.040*		**1.40**	*0.070*		**0.300**	*0.010*	
Anions											
HCO3	mmolc/L	19	**4.96**	*0.240*		**3.12**	*0.175*		**0.859**	*0.069*	
CO3	mmolc/L	9	**0.730**	*0.126*		**0.560**	*0.113*		**0.000**	*0.000*	
Cl	mmolc/L	22	**1.81**	*0.107*		**0.717**	*0.037*		**0.293**	*0.028*	
NO3	mmolc/L	23	**0.197**	*0.016*		**0.031**	*0.004*		**0.190**	*0.018*	
SO4	mmolc/L	21	**0.315**	*0.028*		**0.920**	*0.043*		**0.176**	*0.012*	
Sum Anions	mmolc/L	10	**7.45**	*0.178*		**4.95**	*0.215*		**1.57**	*0.160*	
Cation-Anion Difference		5	**0.260**	*0.120*		**0.081**	*0.021*		**0.090**	*0.070*	
Other											
Boron	mg/L	17	**0.030**	*0.005*		**0.085**	*0.013*		**0.009**	*0.002*	
PO4-P Phosphorus - Spec	mg/L	5	**0.040**	*0.010*		**0.030**	*0.002*		**0.030**	*0.010*	
Phosphorus - ICP (Total)	mg/L	9	**0.025**	*0.003*		**0.029**	*0.003*		**0.020**	*0.002*	
TKN	mg/L	4	**0.246**	*0.100*		**0.100**	*0.070*		**0.257**	*0.065*	
Nitrogen Combustion (Total)	mg/L	1	**3.09**	*0.000*		**0.509**	*0.000*		**3.08**	*0.000*	
Total Organic Carbon	mg/L	3	**1.89**	*0.107*		**1.44**	*0.404*		**1.38**	*0.068*	

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.