2012 North American Proficiency Testing Program
2nd Quarter Report - July 9, 2012

Laboratory ID
general

Water			Water 2012-304			Water 2012-305			Water 2012-306		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
pH		30	**8.28**	*0.075*		**8.00**	*0.100*		**7.97**	*0.100*	
EC	dS/m	28	**4.41**	*0.110*		**0.504**	*0.009*		**0.488**	*0.008*	
Cations											
Ca	mmolc/L	29	**2.49**	*0.128*		**2.53**	*0.085*		**2.74**	*0.125*	
Mg	mmolc/L	29	**9.83**	*0.600*		**1.95**	*0.090*		**1.89**	*0.087*	
Na	mmolc/L	28	**28.6**	*2.67*		**0.830**	*0.040*		**0.490**	*0.030*	
K	mmolc/L	29	**1.21**	*0.170*		**0.110**	*0.010*		**0.070**	*0.010*	
NH4-N	mmolc/L	11	**0.011**	*0.003*		**0.000**	*0.000*		**0.000**	*0.000*	
Sum Cations	mmolc/L	15	**42.1**	*2.73*		**5.38**	*0.213*		**5.11**	*0.182*	
SAR		17	**11.6**	*1.44*		**0.565**	*0.030*		**0.325**	*0.025*	
Adj-SAR		9	**27.2**	*5.47*		**0.870**	*0.071*		**0.555**	*0.085*	
Anions											
HCO3	mmolc/L	18	**10.2**	*0.535*		**4.38**	*0.130*		**3.49**	*0.080*	
CO3	mmolc/L	12	**0.000**	*0.000*		**0.000**	*0.000*		**0.000**	*0.000*	
Cl	mmolc/L	24	**31.5**	*1.40*		**0.540**	*0.060*		**0.536**	*0.046*	
NO3	mmolc/L	26	**0.040**	*0.010*		**0.020**	*0.005*		**0.272**	*0.020*	
SO4	mmolc/L	21	**2.49**	*0.160*		**0.445**	*0.025*		**0.698**	*0.028*	
Sum Anions	mmolc/L	15	**44.9**	*1.09*		**5.43**	*0.160*		**5.09**	*0.130*	
Cation-Anion Difference		10	**0.223**	*1.48*		**0.018**	*0.088*		**0.089**	*0.069*	
Boron	mg/L	20	**0.500**	*0.047*		**0.050**	*0.010*		**0.032**	*0.007*	
PO4-P Phosphorus - Spec	mg/L	6	**0.129**	*0.010*		**0.035**	*0.007*		**0.121**	*0.029*	
Phosphorus - ICP (Total)	mg/L	17	**0.140**	*0.035*		**0.029**	*0.007*		**0.100**	*0.025*	
TKN	mg/L	4	**1.45**	*0.109*		**0.076**	*0.000*		**0.352**	*0.034*	
Nitrogen Combustion (Total)	mg/L	1	**2.18**	*0.000*		**0.327**	*0.000*		**4.44**	*0.000*	
Total Organic Carbon	mg/L	**3**	**16.5**	0.981		**0.835**	*0.166*		**4.73**	0.322	

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.