2008 North American Proficiency Testing Program
3rd Quarter Report - September 7, 2008

Laboratory ID

Water			Water 2008-307			Water 2008-308			Water 2008-309		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
pH		31	**7.19**	*0.300*		**7.55**	*0.150*		**7.80**	*0.160*	
EC	dS/m	28	**0.24**	*0.138*		**0.08**	*0.003*		**0.25**	*0.010*	
Cations											
Ca	mmolc/L	27	**1.50**	*0.065*		**0.500**	*0.020*		**1.590**	*0.063*	
Mg	mmolc/L	28	**0.725**	*0.025*		**0.160**	*0.010*		**0.999**	*0.041*	
Na	mmolc/L	28	**0.160**	*0.010*		**0.140**	*0.010*		**0.100**	*0.010*	
K	mmolc/L	26	**0.079**	*0.009*		**0.020**	*0.003*		**0.050**	*0.004*	
NH4-N	mmolc/L	12	**0.001**	*0.001*		**0.001**	*0.001*		**0.000**	*0.000*	
Sum Cations	mmolc/L	15	**2.48**	*0.050*		**0.81**	*0.040*		**2.73**	*0.063*	
SAR		16	**0.155**	*0.025*		**0.230**	*0.030*		**0.090**	*0.010*	
Adj-SAR		8	**0.240**	*0.030*		**0.175**	*0.035*		**0.140**	*0.040*	
Anions											
HCO3	mmolc/L	20	**1.62**	*0.221*		**0.71**	*0.075*		**2.564**	*0.102*	
CO3	mmolc/L	12	**0.00**	*0.000*		**0.00**	*0.000*		**0.000**	*0.000*	
Cl	mmolc/L	20	**0.056**	*0.009*		**0.053**	*0.013*		**0.040**	*0.010*	
NO3	mmolc/L	28	**0.023**	*0.013*		**0.000**	*0.000*		**0.029**	*0.011*	
SO4	mmolc/L	22	**0.745**	*0.035*		**0.052**	*0.006*		**0.050**	*0.008*	
Sum Anions	mmolc/L	16	**2.45**	*0.117*		**0.80**	*0.062*		**2.69**	*0.115*	
Cation-Anion Difference		43	**0.00**	*0.000*		**0.00**	*0.000*		**0.00**	*0.000*	
Boron	mg/L	15	**0.014**	*0.006*		**0.009**	*0.007*		**0.010**	*0.003*	
PO4-P Phosphorus - Spec	mg/L	8	**0.085**	*0.040*		**0.030**	*0.020*		**0.020**	*0.010*	
Phosphorus - ICP (Total)	mg/L	15	**0.074**	*0.033*		**0.028**	*0.007*		**0.017**	*0.017*	
TKN	mg/L	6	**0.430**	*0.380*		**0.425**	*0.273*		**0.475**	*0.125*	
Nitrogen Combustion (Total)	mg/L	1	**0.396**	*0.000*		**0.192**	*0.000*		**0.713**	*0.000*	
Total Organic Carbon	mg/L	5	**1.01**	*0.067*		**2.81**	*0.242*		**3.35**	*0.510*	

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.