



**2012 North American Proficiency Testing Program  
1st Quarter Report - April 9, 2012**

Laboratory ID  
**general**

Water Analysis	Units	n	Water 2012-301			Water 2012-302			Water 2012-303		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
pH		30	6.40	0.200		8.02	0.100		7.79	0.080	
EC	dS/m	29	0.550	0.010		1.03	0.025		0.670	0.014	
<b>Cations</b>											
Ca	mmolc/L	30	2.71	0.100		4.94	0.163		3.23	0.130	
Mg	mmolc/L	30	1.42	0.050		2.29	0.093		3.24	0.150	
Na	mmolc/L	29	1.28	0.050		3.36	0.170		0.740	0.041	
K	mmolc/L	29	0.100	0.010		0.100	0.010		0.140	0.010	
NH4-N	mmolc/L	14	0.010	0.002		0.000	0.000		0.000	0.000	
Sum Cations	mmolc/L	18	5.52	0.122		10.8	0.330		7.41	0.265	
SAR		21	0.880	0.040		1.76	0.090		0.400	0.030	
Adj-SAR		8	1.22	0.220		3.45	0.455		0.885	0.065	
<b>Anions</b>											
HCO3	mmolc/L	20	1.14	0.140		3.02	0.100		5.70	0.215	
CO3	mmolc/L	13	0.000	0.000		0.000	0.000		0.000	0.000	
Cl	mmolc/L	27	0.690	0.060		2.11	0.080		0.690	0.042	
NO3	mmolc/L	30	0.050	0.010		0.050	0.010		0.124	0.025	
SO4	mmolc/L	23	3.69	0.120		5.56	0.140		0.640	0.020	
Sum Anions	mmolc/L	17	5.49	0.250		10.7	0.430		7.14	0.440	
Cation-Anion Difference		11	0.380	0.070		0.385	0.073		0.280	0.230	
Boron	mg/L	24	0.080	0.011		0.070	0.010		0.043	0.010	
PO4-P Phosphorus - Spec	mg/L	8	0.030	0.005		0.051	0.011		0.060	0.002	
Phosphorus - ICP (Total)	mg/L	16	0.043	0.007		0.080	0.015		0.082	0.014	
TKN	mg/L	3	0.000	0.000		0.400	0.250		0.100	0.100	
Nitrogen Combustion (Total)	mg/L	1	0.730	0.000		0.890	0.000		1.78	0.000	
Total Organic Carbon	mg/L	3	0.000	0.000		3.05	0.400		0.000	0.000	

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.