

2004 North American Proficiency Testing Program

3rd Quarter Report November 15, 2004

Laboratory ID

Water					Sample 2004-307					Sample 2004-308					Sample 2004-309				
Analysis	Units	n	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab					
pH	Unit	35	8.36	0.08		7.31	0.13		6.65	0.27									
EC	dS/m	33	1.70	0.030		0.21	0.006		1.13	0.03									
Cations																			
Ca	mmol/L	33	0.70	0.05		1.39	0.06		4.09	0.19									
Mg	mmol/L	33	0.94	0.04		0.38	0.02		1.55	0.06									
Na	mmol/L	32	14.2	0.49		0.13	0.01		4.14	0.11									
K	mmol/L	32	0.07	0.01		0.03	0.002		0.64	0.043									
NH ₄ -N	mmol/L	18	0.001	0.002		0.000	0.001		0.001	0.07									
Sum Cations	mmol/L	25	15.8	0.5		1.95	0.08		10.3	0.53									
SAR	value	19	15.3	0.3		0.14	0.02		2.4	0.03									
Adj-SAR	value	7	22.9	2.3		0.15	0.05		2.7	0.59									
Anions																			
HCO ₃	mmol/L	24	3.9	0.30		0.70	0.13		0.40	0.17									
CO ₃	mmol/L	17	0.20	0.24		0.00	0.66		0.00	0.59									
Cl	mmol/L	27	6.97	0.36		0.12	0.03		4.2	0.17									
NO ₃	mmol/L	33	1.17	0.08		0.002	0.008		1.63	0.14									
SO ₄	mmol/L	29	3.65	0.20		1.14	0.07		4.02	0.17									
Sum Anions	mmol/L	22	15.75	0.68		1.97	0.22		10.3	0.51									
Cation-Anion Difference																			
		24	0.5	0.72		0.0	0.14		0.42	0.48									
Boron																			
	mg/L	27	0.820	0.050		0.010	0.000		0.91	0.053									
PO ₄ -P - Spec																			
	mg/L	7	0.017	0.007		0.002	0.008		2.22	0.11									
P - ICP (Total)																			
	mg/L	17	0.020	0.042		0.010	0.004		2.22	0.09									
TKN																			
	mg/L	5	0.39	0.26		0.25	0.05		2.8	2.3									
Nitrogen Combustion																			
	mg/L	1	16.0	0.00		5.0	0.00		26.0	0.00									
Total Organic Carbon																			
	mg/L	3	2.3	1.02		2.0	0.59		1.70	0.41									

1 - Values flagged exceed Warning Limits " * " 2.5 x MAD (Median Absolute Deviation) and Control Limits " * * " 4 x MAD. "<" and "ND" values not recorded.