



NRPT Program
North American Proficiency Testing

2005 North American Proficiency Testing Program 4th Quarter Report January 23, 2006



Laboratory ID

Water Analysis	Units	Sample 2005-310		Sample 2005-311		Sample 2005-312		
		Median	MAD	Lab	Median	MAD	Lab	
pH	Unit	44	8.19	0.21	8.43	0.19	7.50	0.21
EC	ds/m	39	0.362	0.018	0.390	0.02	0.21	0.011
Cations								
Ca	mmol/L	37	10.143	0.014	0.010	0.007	1.38	0.05
Mg	mmol/L	25	0.005	0.002	0.00	0.05	0.320	0.011
Na	mmol/L	35	3.40	0.18	4.03	0.19	0.35	0.02
K	mmol/L	38	0.200	0.010	0.010	0.008	0.034	0.005
NH ₄ -N	mmol/L	10	0.005	0.004	0.124	0.015	0.002	0.001
Sum Cations	mmol/L	22	3.77	0.19	4.18	0.17	2.09	0.09
SAR	value	26	12.2	1.106	46.8	19.5	0.40	0.03
Adj-SAR	value	10	6.9	1.69	8.3	34.5	0.45	0.06
Anions								
HCO ₃	mmol/L	23	2.84	0.16	3.81	0.30	1.54	0.12
CO ₃	mmol/L	10	0.300	0.180	0.280	0.150	0.17	0.16
Cl	mmol/L	32	0.135	0.025	0.029	0.027	0.26	0.02
NO ₃	mmol/L	24	0.007	0.007	0.005	0.004	0.010	0.009
SO ₄	mmol/L	34	0.40	0.04	0.008	0.006	0.206	0.024
Sum Anions	mmol/L	21	3.47	0.21	4.06	0.35	2.02	0.19
Cation-Anion Difference		22	0.41	0.35	0.09	0.26	0.19	0.30
Boron	mg/L	28	0.529	0.029	0.010	0.000	0.035	0.005
PO ₄ -P - Spec	mg/L	15	0.039	0.023	0.050	0.045	0.028	0.025
P - ICP (Total)	mg/L	15	0.034	0.024	0.025	0.0160	0.020	0.011
TKN	mg/L	6	0.24	0.20	2.24	0.30	0.20	0.13
Nitrogen Combustion	mg/L	3	0.01	0.00	1.28	1.03	0.04	0.03
Total Organic Carbon	mg/L	6	1.5	0.65	2.4	1.35	1.3	0.57

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