



NAPPT Program
North American Proficiency Testing

2005 North American Proficiency Testing Program

3rd Quarter Report October 28, 2005



SMA
Society of American

Laboratory ID

Water Analysis	Units	Sample 2005-307		Sample 2005-308		Sample 2005-309		
		n	Median	MAD	Lab	Median	MAD	Lab
pH	Unit	42	7.31	0.20	7.60	0.14	8.30	0.10
EC	ds/m	39	0.062	0.008	3.51	0.14	1.20	0.034
Cations								
Ca	mmol/L	37	0.446	0.026	2.70	0.12	0.240	0.020
Mg	mmol/L	36	0.126	0.008	0.88	0.05	0.055	0.005
Na	mmol/L	33	0.060	0.010	33.2	2.4	11.1	0.64
K	mmol/L	31	0.015	0.005	0.09	0.010	0.03	0.003
NH ₄ -N	mmol/L	10	0.003	0.002	0.013	0.011	0.003	0.001
Sum Cations	mmol/L	22	0.67	0.05	37.0	1.1	11.4	0.69
SAR	value	20	0.1	0.025	24.6	1.2	29.3	2.7
Adj-SAR	value	6	0.1	0.06	27.5	1.3	25.6	2.1
Anions								
HCO ₃	mmol/L	26	0.60	0.09	1.01	0.10	3.27	0.21
CO ₃	mmol/L	13	-	-	-	-	0.36	0.09
Cl	mmol/L	29	0.030	0.020	2.15	0.09	3.37	0.24
NO ₃	mmol/L	20	0.008	0.005	0.070	0.022	0.010	0.009
SO ₄	mmol/L	29	0.054	0.008	34.5	2.3	4.62	0.30
Sum Anions	mmol/L	19	0.700	0.070	37.8	1.4	11.5	0.5
Cation-Anion Difference		20	-0.04	0.15	1.3	4.3	0.37	0.81
Boron								
PO ₄ -P - Spec	mg/L	17	0.010	0.009	0.100	0.010	0.070	0.010
P - ICP (Total)	mg/L	6	0.091	0.085	0.110	0.098	0.012	0.007
TKN	mg/L	12	0.048	0.029	0.070	0.0570	0.050	0.037
Nitrogen Combustion	mg/L	8	0.28	0.08	0.18	0.16	0.25	0.07
Total Organic Carbon	mg/L	1	0.10	-	0.10	-	0.10	-
	mg/L	6	7.0	1.00	2.0	0.44	2.2	0.24

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