2002 North American Proficiency Testing Program

Soil Science Society of America

1st Quarter Report June 4, 2002

Laboratory ID 6002

Water			Sample 2002-301			Sample 2002-302			Sample 2002-303		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab**	**Median**	***MAD***	**Lab**	**Median**	***MAD***	**Lab**
pH	Unit	29	7.60	0.10		7.78	0.16		8.30	0.13	
EC	dS/m	29	1.64	0.08		0.11	0.02		0.35	0.03	
Cations											
Ca^{+2}	mmolc/L	28	4.19	0.18		0.52	0.03		2.53	0.13	
Mg^{+2}	mmolc/L	28	1.56	0.07		0.14	0.01		1.28	0.08	
Na^{+}	mmolc/L	27	8.4	0.5		0.30	0.03		0.12	0.03	
K^{+}	mmolc/L	28	0.69	0.06		0.03	0.010		0.02	0.01	
NH_4^{+}	mmolc/L	7	0.01	0.01		0.00	0.01		0.00	0.07	
Sum Cations	mmolc/L	19	14.8	0.65		0.96	0.04		3.90	0.23	
SAR	value	16	5.0	0.1		0.53	0.05		0.09	0.01	
Anions											
HCO_3^{-}	mmolc/L	23	0.64	0.16		0.65	0.12		3.40	0.40	
Cl^{-}	mmolc/L	23	8.4	0.3		0.11	0.03		0.12	0.02	
NO_3^{-}	mmolc/L	26	1.49	0.13		0.01	0.00		0.02	0.01	
SO_4^{-2}	mmolc/L	24	4.15	0.16		0.16	0.04		0.15	0.04	
Sum Anions	mmolc/L	16	14.7	0.39		0.96	0.17		3.5	0.37	
Cation - Anions	mmolc/L	19	0.07	1.40		0.20	0.13		0.26	0.23	
Boron	mg/L	24	0.66	0.02		0.02	0.01		0.02	0.01	
Phosphorus - Spec	mg/L	9	2.34	0.04		0.02	0.01		0.02	0.01	
Phosphorus - ICP	mg/L	17	2.40	0.12		0.01	0.01		0.04	0.03	
TKN	mg/L	1	-	-		0.40	0.00		-	-	
Nitrogen Combustion	mg/L	2	11.5	11.5		0.13	0.12		0.17	0.15	

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