



2022 North American Proficiency Testing Program
Quarter 1 Plant Report - Wednesday, April 20, 2022

Laboratory ID
General

Plant	Plant 2022-201					Plant 2022-202			Plant 2022-203		
Analysis	Units	n	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Moisture & Non-Digest Nutrients											
Dry Matter (%)	%	23	90.2	0.770		93.3	0.430		95.4	0.277	
NO3 - N Cd Rd.	mg/kg	24	556	41.5		27.1	4.21		201	13.8	
NO3 - N ISE	mg/kg	3	644	102		122	53.0		345	33.0	
NO3 - N Other	mg/kg	6	548	66.5		420	414		219	52.8	
NH4 - N	mg/kg	6	231	82.6		55.0	5.00		20.3	0.800	
PO4 - P	mg/kg	11	987	67.0		1,770	152		1,840	68.0	
SO4 - S	mg/kg	4	6,390	1,250		347	53.1		418	72.8	
Cl	mg/kg	24	1.89	0.092		0.207	0.032		0.448	0.023	
Total N-Kjeldahl	%	14	1.25	0.070		1.40	0.075		1.38	0.070	
Total N-combustion	%	61	1.26	0.040		1.37	0.040		1.41	0.040	
Total S-combustion	%	9	0.670	0.040		0.102	0.018		0.128	0.012	
Total C-combustion	%	8	36.50	0.666		44.20	0.940		43.90	0.768	
Nitric / Perchloric Elements											
P	%	34	0.169	0.009		0.300	0.010		0.268	0.012	
K	%	34	0.640	0.040		1.43	0.084		2.52	0.122	
Ca	%	34	2.56	0.094		2.84	0.140		0.271	0.028	
Mg	%	33	2.63	0.090		0.709	0.041		0.146	0.010	
S	%	34	0.603	0.033		0.088	0.008		0.110	0.010	
Na	%	28	0.240	0.020		0.036	0.004		0.009	0.002	
B	mg/kg	29	77.5	5.37		49.9	3.47		20.3	1.54	
Cu	mg/kg	34	10.5	0.685		6.00	0.440		3.40	0.400	
Fe	mg/kg	33	482	25.2		141	12.9		40.0	4.00	
Mn	mg/kg	34	84.5	4.91		26.9	1.12		27.5	1.32	
Mo	mg/kg	9	0.220	0.013		0.710	0.090		1.14	0.097	
Zn	mg/kg	33	60.2	3.19		14.7	1.30		13.0	1.00	
Al	mg/kg	19	288	57.7		92.3	13.9		17.1	1.93	
Ba	mg/kg	3	112	2.00		35.0	0.200		12.3	0.130	
Cd	mg/kg	2	0.420	0.020							
Co	mg/kg	3	0.584	0.036		0.100	0.000				
Cr	mg/kg	3	2.40	0.240		0.460	0.060		0.340	0.040	
Ni	mg/kg	3	8.50	0.650		1.30	0.030		0.470	0.070	
Pb	mg/kg										
Se	mg/kg										
Sr	mg/kg	2	196	4.00		87.6	2.45		9.10	0.395	
V	mg/kg	1	77.0	0.000		20.0	0.000		3.90	0.000	
Nitric / Peroxide- Microwave											
P	%	33	0.170	0.007		0.309	0.010		0.278	0.008	
K	%	32	0.618	0.028		1.39	0.040		2.50	0.110	
Ca	%	33	2.48	0.120		2.77	0.110		0.253	0.018	
Mg	%	33	2.58	0.128		0.706	0.034		0.140	0.005	
S	%	30	0.610	0.030		0.090	0.008		0.110	0.004	

1 - Values flagged exceed Warning Limits " * " 2.5 x MAD (Median Absolute Deviation) and Control Limits " * * " 4 x MAD.
2 - Limits not compared to lab data for methods with less than 7 labs reporting.

Na	%	24	0.229	0.019	0.035	0.004	0.005	0.001
B	mg/kg	32	76.6	4.60	49.5	2.50	20.8	1.00
Cu	mg/kg	32	9.85	0.950	5.64	0.585	3.08	0.450
Fe	mg/kg	32	514	34.3	152	12.5	41.8	3.47
Mn	mg/kg	33	81.1	4.39	26.7	1.65	26.9	1.91
Mo	mg/kg	7	0.250	0.070	0.750	0.089	1.21	0.132
Zn	mg/kg	33	59.4	2.86	15.9	1.40	13.9	1.00
Al	mg/kg	20	431	85.8	157	21.2	21.0	3.55
Ba	mg/kg	1	130	0.000	42.5	0.000	13.3	0.000
Cd	mg/kg	1	0.501	0.000	0.009	0.000	0.016	0.000
Co	mg/kg	2	0.665	0.105	0.163	0.087	0.114	0.101
Cr	mg/kg	2	2.66	0.317	0.382	0.217	0.594	0.529
Ni	mg/kg	1	9.40	0.000	1.53	0.000	0.324	0.000
Pb	mg/kg	1	0.273	0.000	0.449	0.000	0.035	0.000
Se	mg/kg	1	0.187	0.000	0.110	0.000	0.033	0.000
Sr	mg/kg	1	229	0.000	103	0.000	9.64	0.000
V	mg/kg	1	1.59	0.000	0.364	0.000	0.044	0.000

Dry Ash

P	%	12	0.168	0.010	0.295	0.015	0.274	0.012
K	%	12	0.610	0.070	1.36	0.080	2.59	0.120
Ca	%	12	2.42	0.190	2.69	0.170	0.240	0.016
Mg	%	12	2.67	0.190	0.675	0.040	0.140	0.010
Na	%	10	0.214	0.012	0.044	0.007	0.014	0.001
B	mg/kg	12	74.0	3.67	47.4	1.18	20.5	1.54
Cu	mg/kg	12	11.8	1.73	6.05	1.02	3.42	0.600
Fe	mg/kg	12	412	61.7	137	12.6	45.2	5.77
Mn	mg/kg	12	79.2	3.24	26.2	2.44	27.6	1.50
Mo	mg/kg	3	0.490	0.010	0.810	0.175	1.25	0.130
Zn	mg/kg	12	56.2	4.00	15.6	2.30	14.4	1.34
Al	mg/kg	3	446	36.0	178	26.0	17.3	10.9
Ba	mg/kg							
Cd	mg/kg							
Co	mg/kg							
Cr	mg/kg							
Ni	mg/kg							
Pb	mg/kg							
Se	mg/kg							
Sr	mg/kg							
V	mg/kg							

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