2022 North American Proficiency Testing Program
Quarter 1 Plant Report - 4/29/2023

Laboratory ID
General

Plant			Plant 2023-201			Plant 2023-202			Plant 2023-203		
Analysis	**Units**	**n**	**Median**	**MAD**	**Lab Result**	**Median**	**MAD**	**Lab Result**	**Median**	**MAD**	**Lab Result**
Dry Matter & Non-Digest Nutrients											
Dry Matter	%	21	94.2	1.88		94.4	1.89		93.4	1.87	
NO3 - N Cd Rd.	mg/kg	24	360.0	19.7		465.0	29.9		27.5	9.52	
NO3 - N ISE	mg/kg	3	391.0	N/A		658.0	N/A		91.0	N/A	
NO3 - N Other	mg/kg	2	308.0	N/A		421.0	N/A		133.0	N/A	
NH4 - N	mg/kg	4	202.0	N/A		202.0	N/A		48.6	N/A	
PO4 - P	mg/kg	7	1160.0	70.0		1180.0	80.0		1150.0	70.5	
SO4 - S	mg/kg	5	2500.0	N/A		2400.0	N/A		1300.0	N/A	
Cl	%	16	0.76	0.030		0.65	0.039		0.17	0.030	
Total Nâ€"Kjeldahl	%	9	4.03	0.081		2.94	0.11		1.54	0.031	
Total N-combustion	%	61	4.20	0.084		2.98	0.060		1.59	0.040	
Total S-combustion	%	5	0.36	N/A		0.31	0.020		0.18	0.020	
Total C-combustion	%	10	43.2	0.86		42.7	0.85		44.3	0.89	
Nitric / Perchloric Digest											
P	%	25	0.31	0.020		0.25	0.020		0.21	0.020	
K	%	28	2.04	0.071		2.26	0.060		1.25	0.036	
Ca	%	29	0.63	0.028		1.49	0.031		0.50	0.027	
Mg	%	29	0.24	0.020		0.32	0.020		0.23	0.020	
S	%	27	0.34	0.021		0.30	0.020		0.15	0.020	
Na	%	22	0.009	0.020		0.18	0.020		0.008	0.020	
B	mg/kg	21	5.84	0.21		43.6	1.61		5.92	0.45	
Cu	mg/kg	27	8.31	0.49		7.98	0.53		4.40	0.52	
Fe	mg/kg	26	240.0	6.25		412.0	33.9		56.0	4.31	
Mn	mg/kg	26	36.0	1.02		37.0	1.25		41.6	1.78	
Mo	mg/kg	10	0.81	0.11		1.99	0.11		2.77	0.079	
Zn	mg/kg	28	26.4	1.61		22.0	0.97		16.0	1.01	
Al	mg/kg	15	137.0	18.9		227.0	22.6		20.0	2.12	
Ba	mg/kg	3	24.1	N/A		22.0	N/A		18.0	N/A	
Cd	mg/kg					0.065	N/A		0.070	N/A	
Co	mg/kg	2	0.15	N/A		0.28	N/A		0.10	N/A	
Cr	mg/kg	3	1.20	N/A		0.72	N/A		0.41	N/A	
Ni	mg/kg	4	1.92	N/A		5.28	N/A		0.78	N/A	
Pb	mg/kg					0.30	N/A		0.51	N/A	
Se	mg/kg										
Sr	mg/kg	2	9.27	N/A		88.7	N/A		13.6	N/A	
V	mg/kg	1	7.20	N/A		11.0	N/A		7.20	N/A	
Nitric / Peroxide- MICROWAVE											
P	%	33	0.31	0.020		0.26	0.020		0.21	0.020	
K	%	29	2.11	0.043		2.30	0.047		1.28	0.031	
Ca	%	30	0.63	0.020		1.51	0.040		0.50	0.021	
Mg	%	32	0.23	0.020		0.31	0.020		0.23	0.020	
S	%	28	0.35	0.020		0.30	0.020		0.15	0.020	
Na	%	20	0.007	0.020		0.19	0.020		0.006	0.020	
B	mg/kg	32	6.70	1.05		45.2	1.45		6.23	0.83	
Cu	mg/kg	34	8.68	0.34		8.12	0.38		4.33	0.27	
Fe	mg/kg	33	246.0	13.9		430.0	39.5		57.6	4.66	
Mn	mg/kg	33	36.8	1.40		37.1	1.10		42.0	1.67	
Mo	mg/kg	8	0.83	0.11		1.94	0.13		2.70	0.22	
Zn	mg/kg	34	27.6	1.61		22.0	0.95		16.4	1.23	
Al	mg/kg	21	212.0	38.7		320.0	60.9		28.0	4.21	
Ba	mg/kg	1	23.5	N/A		23.2	N/A		17.7	N/A	
Cd	mg/kg	1	0.061	N/A		0.053	N/A		0.056	N/A	
Co	mg/kg	2	0.29	N/A		0.43	N/A		0.21	N/A	
Cr	mg/kg	2	1.25	N/A		0.67	N/A		0.50	N/A	
Ni	mg/kg	1	1.75	N/A		13.9	N/A		0.30	N/A	
Pb	mg/kg	2	0.16	N/A		0.10	N/A		0.065	N/A	
Se	mg/kg	2	0.14	N/A		0.21	N/A		0.61	N/A	
Sr	mg/kg	1	8.49	N/A		84.5	N/A		13.1	N/A	
V	mg/kg	1	0.38	N/A		1.14	N/A		0.055	N/A	
Dry Ash											
P	%	14	0.30	0.020		0.24	0.020		0.20	0.020	
K	%	14	1.90	0.20		2.17	0.043		1.21	0.035	
Ca	%	13	0.55	0.030		1.42	0.11		0.45	0.020	
Mg	%	14	0.21	0.020		0.30	0.020		0.22	0.020	
Na	%	10	0.013	0.020		0.19	0.020		0.012	0.020	
B	mg/kg	13	5.40	0.93		42.9	1.59		5.35	0.33	
Cu	mg/kg	12	3.82	1.14		7.57	0.51		4.15	0.65	
Fe	mg/kg	13	208.0	27.1		370.0	61.5		50.8	9.57	
Mn	mg/kg	13	28.3	1.72		34.0	1.20		36.7	1.70	
Mo	mg/kg	4	0.68	N/A		1.78	N/A		2.51	N/A	
Zn	mg/kg	12	20.4	1.47		21.0	2.17		15.4	1.83	
Al	mg/kg	4	158.0	N/A		322.0	N/A		21.8	N/A	
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										