2022 North American Proficiency Testing Program
Quarter 2 Plant Report - 7/12/2023

Laboratory ID
General

Plant			Plant 2023-204			Plant 2023-205			Plant 2023-206		
Analysis	**Units**	**n**	**Median**	**MAD**	**Lab Result**	**Median**	**MAD**	**Lab Result**	**Median**	**MAD**	**Lab Result**
Dry Matter & Non-Digest Nutrients											
Dry Matter	%	19	95.4	1.91		94.5	1.89		93.3	1.87	
NO3 - N Cd Rd.	mg/kg	20	15.4	5.30		418.0	30.0		75.0	10.0	
NO3 - N ISE	mg/kg	4	42.5	N/A		453.0	N/A		149.0	N/A	
NO3 - N Other	mg/kg	3	244.0	N/A		436.0	N/A		338.0	N/A	
NH4 - N	mg/kg	2	54.9	N/A		258.0	N/A		244.0	N/A	
PO4 - P	mg/kg	8	1110.0	82.0		1270.0	79.0		902.0	27.0	
SO4 - S	mg/kg	4	446.0	N/A		1430.0	N/A		654.0	N/A	
Cl	%	20	0.081	0.050		0.76	0.020		0.18	0.020	
Total Nâ€"Kjeldahl	%	9	1.53	0.031		4.05	0.11		3.02	0.075	
Total N-combustion	%	58	1.58	0.032		4.19	0.084		3.00	0.060	
Total S-combustion	%	9	0.11	0.020		0.35	0.022		0.20	0.020	
Total C-combustion	%	13	51.1	1.02		43.3	0.87		45.6	0.91	
Nitric / Perchloric Digest											
P	%	23	0.22	0.020		0.32	0.020		0.18	0.020	
K	%	26	0.89	0.043		2.02	0.090		1.60	0.074	
Ca	%	26	0.46	0.021		0.71	0.020		1.93	0.075	
Mg	%	27	0.15	0.020		0.25	0.020		0.62	0.026	
S	%	25	0.11	0.020		0.34	0.020		0.20	0.020	
Na	%	22	0.006	0.020		0.010	0.020		0.012	0.020	
B	mg/kg	22	20.1	1.19		6.40	0.41		110.0	4.92	
Cu	mg/kg	28	3.94	0.50		9.00	0.39		353.0	17.0	
Fe	mg/kg	26	71.0	4.09		275.0	19.7		208.0	12.5	
Mn	mg/kg	28	466.0	28.8		40.3	1.85		159.0	5.51	
Mo	mg/kg	7	0.17	0.058		0.92	0.065		0.30	0.065	
Zn	mg/kg	28	20.2	1.84		28.1	1.08		92.0	4.48	
Al	mg/kg	14	332.0	11.7		166.0	23.0		129.0	15.7	
Ba	mg/kg	3	48.0	N/A		27.0	N/A		36.0	N/A	
Cd	mg/kg										
Co	mg/kg	2	0.10	N/A					0.21	N/A	
Cr	mg/kg	1	0.43	N/A		1.50	N/A		0.66	N/A	
Ni	mg/kg	2	1.54	N/A		2.25	N/A		8.20	N/A	
Pb	mg/kg	1	0.75	N/A		1.70	N/A		0.40	N/A	
Se	mg/kg	1	1.00	N/A		2.00	N/A				
Sr	mg/kg	2	14.7	N/A		10.7	N/A		105.0	N/A	
V	mg/kg	1	4.30	N/A		7.80	N/A		18.0	N/A	
Nitric / Peroxide- MICROWAVE											
P	%	28	0.22	0.020		0.33	0.020		0.19	0.020	
K	%	30	0.88	0.032		2.12	0.070		1.66	0.043	
Ca	%	31	0.45	0.023		0.71	0.034		1.94	0.060	
Mg	%	30	0.14	0.020		0.24	0.020		0.60	0.020	
S	%	29	0.12	0.020		0.36	0.020		0.21	0.020	
Na	%	22	0.005	0.020		0.007	0.020		0.011	0.020	
B	mg/kg	32	20.3	1.02		6.80	0.47		115.0	3.97	
Cu	mg/kg	30	3.99	0.43		8.95	0.34		363.0	20.9	
Fe	mg/kg	28	73.2	3.70		301.0	20.4		227.0	16.2	
Mn	mg/kg	31	479.0	19.4		40.3	2.75		163.0	4.59	
Mo	mg/kg	5	0.057	N/A		0.90	0.10		0.24	0.052	
Zn	mg/kg	29	20.4	1.25		29.3	1.80		93.0	3.91	
Al	mg/kg	21	353.0	14.9		296.0	59.4		221.0	48.2	
Ba	mg/kg	1	48.6	N/A		27.6	N/A		37.2	N/A	
Cd	mg/kg	1	0.022	N/A		0.043	N/A		0.011	N/A	
Co	mg/kg	2	0.13	N/A		0.23	N/A		0.34	N/A	
Cr	mg/kg	2	0.16	N/A		1.97	N/A		0.66	N/A	
Ni	mg/kg	2	1.18	N/A		2.07	N/A		8.32	N/A	
Pb	mg/kg	1	0.13	N/A		0.29	N/A		0.20	N/A	
Se	mg/kg	1	0.15	N/A		0.043	N/A		0.093	N/A	
Sr	mg/kg	1	15.0	N/A		11.3	N/A		115.0	N/A	
V	mg/kg	1	0.12	N/A		0.66	N/A		0.68	N/A	
Dry Ash											
P	%	12	0.22	0.020		0.32	0.020		0.18	0.020	
K	%	11	0.84	0.042		1.83	0.17		1.58	0.085	
Ca	%	12	0.44	0.025		0.64	0.050		1.86	0.055	
Mg	%	13	0.14	0.020		0.23	0.020		0.58	0.029	
Na	%	8	0.011	0.020		0.016	0.020		0.020	0.020	
B	mg/kg	12	20.5	1.49		7.13	1.19		112.0	3.94	
Cu	mg/kg	11	3.93	0.27		4.39	2.61		340.0	17.0	
Fe	mg/kg	12	68.6	7.84		260.0	44.0		210.0	32.4	
Mn	mg/kg	13	420.0	33.0		34.5	1.32		151.0	6.00	
Mo	mg/kg	3	1.18	N/A		1.51	N/A		0.95	N/A	
Zn	mg/kg	12	19.4	1.44		21.5	4.15		88.1	5.90	
Al	mg/kg	4	318.0	N/A		214.0	N/A		209.0	N/A	
Ba	mg/kg										
Cd	mg/kg										
Co	mg/kg										
Cr	mg/kg										
Ni	mg/kg										
Pb	mg/kg										
Se	mg/kg	1	16.0	N/A		20.0	N/A		14.0	N/A	
Sr	mg/kg										
V	mg/kg										