2012 North American Proficiency Testing Program
4th Quarter Report - January 22, 2013

Laboratory ID
general

Plant			Plant 2012-210			Plant 2012-211			Plant 2012-212		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
Dry Matter (%)	%	24	**94.3**	*0.565*		**94.7**	*0.335*		**94.8**	*0.320*	
NO3 - N Cd Rd.	mg/kg	22	**1980**	*113*		**5170**	*250*		**26.9**	*5.16*	
NO3 - N ISE	mg/kg	4	**2920**	*290*		**6030**	*448*		**131**	*14.3*	
NO3 - N Other	mg/kg	2	**1650**	*265*		**7200**	*2880*		**539**	*469*	
NH4-N	mg/kg	2	**905**	*44.5*		**2660**	*240*		**37**	*5.15*	
PO4 - P	mg/kg	9	**1200**	*90.0*		**3500**	*241*		**588**	*47.3*	
SO4 - S	mg/kg	3	**2130**	*5.97*		**6210**	*242*		**486**	*3.40*	
Cl	%	21	**2.42**	*0.195*		**0.688**	*0.052*		**0.290**	*0.029*	
TKN	%	12	**3.35**	*0.140*		**2.91**	*0.120*		**0.580**	*0.050*	
N- Dry Comb.	%	48	**3.50**	*0.090*		**3.25**	*0.065*		**0.610**	*0.050*	
S- Dry Comb.	%	10	**0.385**	*0.034*		**0.890**	*0.057*		**0.085**	*0.010*	
Nitric / Perchloric											
P	%	27	**0.211**	*0.011*		**0.440**	*0.030*		**0.100**	*0.010*	
K	%	27	**3.88**	*0.190*		**3.17**	*0.140*		**0.840**	*0.085*	
Ca	%	27	**1.30**	*0.080*		**2.73**	*0.210*		**0.210**	*0.030*	
Mg	%	27	**1.00**	*0.040*		**0.500**	*0.026*		**0.080**	*0.006*	
S	%	26	**0.380**	*0.020*		**0.835**	*0.066*		**0.080**	*0.010*	
Na	%	22	**4.92**	*0.360*		**0.400**	*0.041*		**0.010**	*0.002*	
Al	mg/kg	11	**437**	*65.2*		**2940**	*464*		**45.8**	*5.53*	
B	mg/kg	20	**67.7**	*4.40*		**35.4**	*4.12*		**3.65**	*0.259*	
Zn	mg/kg	27	**56.1**	*4.55*		**58.1**	*4.94*		**7.39**	*0.982*	
Mn	mg/kg	27	**425**	*29.3*		**137**	*10.9*		**20.5**	*1.60*	
Fe	mg/kg	27	**521**	*78.5*		**6140**	*904*		**57.9**	*6.09*	
Cu	mg/kg	27	**11.5**	*0.700*		**20.9**	*1.35*		**3.64**	*0.640*	
Mo	mg/kg	8	**0.599**	*0.085*		**2.08**	*0.180*		**0.775**	*0.100*	

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

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Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
Nitric / Perchloric- MICROWAVE											
P	%	22	**0.217**	*0.017*		**0.458**	*0.018*		**0.100**	*0.006*	
K	%	22	**3.86**	*0.210*		**3.16**	*0.135*		**0.848**	*0.060*	
Ca	%	22	**1.30**	*0.070*		**2.74**	*0.116*		**0.220**	*0.020*	
Mg	%	22	**0.971**	*0.050*		**0.480**	*0.020*		**0.080**	*0.006*	
S	%	22	**0.395**	*0.028*		**0.871**	*0.054*		**0.080**	*0.005*	
Na	%	15	**4.68**	*0.353*		**0.408**	*0.038*		**0.014**	*0.003*	
Al	mg/kg	12	**579**	*124*		**2830**	*639*		**56.2**	*6.51*	
B	mg/kg	21	**71.0**	*5.00*		**41.6**	*5.55*		**4.30**	*0.805*	
Zn	mg/kg	22	**58.1**	*4.14*		**59.6**	*3.50*		**8.50**	*0.850*	
Mn	mg/kg	22	**419**	*22.9*		**140**	*8.19*		**19.5**	*0.900*	
Fe	mg/kg	22	**525**	*83.5*		**5900**	*795*		**50.0**	*11.3*	
Cu	mg/kg	21	**12.0**	*1.16*		**22.0**	*1.80*		**4.00**	*0.680*	
Mo	mg/kg	8	**0.600**	*0.180*		**2.00**	*0.200*		**0.905**	*0.195*	
Dry Ash											
P	%	15	**0.230**	*0.020*		**0.470**	*0.030*		**0.100**	*0.000*	
K	%	16	**3.80**	*0.167*		**2.88**	*0.095*		**0.792**	*0.022*	
Ca	%	16	**1.31**	*0.055*		**2.80**	*0.092*		**0.200**	*0.011*	
Mg	%	16	**0.981**	*0.059*		**0.465**	*0.025*		**0.075**	*0.006*	
Na	%	12	**4.73**	*0.336*		**0.460**	*0.020*		**0.011**	*0.001*	
Al	mg/kg	6	**853**	*62.1*		**3630**	*487*		**44.5**	*24.9*	
B	mg/kg	18	**71.4**	*11.4*		**42.0**	*3.76*		**3.76**	*0.283*	
Zn	mg/kg	16	**57.8**	*2.40*		**55.5**	*7.50*		**7.55**	*0.526*	
Mn	mg/kg	16	**400**	*35.7*		**126**	*21.0*		**19.2**	*3.20*	
Fe	mg/kg	15	**566**	*38.0*		**4540**	*631*		**40.3**	*8.00*	
Cu	mg/kg	15	**12.1**	*1.10*		**19.0**	*3.31*		**3.08**	*0.620*	
Mo	mg/kg	5	**0.430**	*0.170*		**2.67**	*1.80*		**0.710**	*0.590*	

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