2009 North American Proficiency Testing Program
3rd Quarter Report - September 20, 2009

Laboratory ID

Plant			Plant 2009-207			Plant 2009-208			Plant 2009-209		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
Dry Matter (%)	%	27	**94.9**	*0.48*		**94.8**	*0.47*		**94.7**	*0.92*	
NO3 - N Cd Rd.	mg/kg	20	**35.0**	*22.0*		**37.5**	*24.5*		**405**	*27.0*	
NO3 - N ISE	mg/kg	3	**66.0**	*31.0*		**358**	*98.7*		**542**	*21.0*	
NO3 - N Other	mg/kg	3	**944**	*568*		**696**	*536*		**924**	*292*	
NH4-N	mg/kg	1	**23.1**	*0.00*		**47.9**	*27.9*		**55.1**	*25.1*	
PO4 - P	mg/kg	12	**552**	*72.5*		**517**	*67.5*		**1606**	*85*	
SO4 - S	mg/kg	4	**436**	*110*		**398**	*150*		**578**	*109*	
Cl	%	19	**0.280**	*0.020*		**0.086**	*0.076*		**0.665**	*0.035*	
TKN	%	18	**0.576**	*0.040*		**2.01**	*0.080*		**1.37**	*0.052*	
N- Dry Comb.	%	47	**0.612**	*0.024*		**2.07**	*0.083*		**1.41**	*0.056*	
S- Dry Comb.	%	9	**0.079**	*0.019*		**0.150**	*0.030*		**0.150**	*0.035*	
Nitric / Perchloric											
P	%	27	**0.100**	*0.004*		**0.151**	*0.006*		**0.259**	*0.017*	
K	%	28	**0.830**	*0.041*		**2.43**	*0.097*		**1.90**	*0.096*	
Ca	%	30	**0.210**	*0.013*		**2.24**	*0.090*		**0.357**	*0.025*	
Mg	%	30	**0.080**	*0.005*		**0.759**	*0.030*		**0.150**	*0.010*	
S	%	29	**0.074**	*0.006*		**0.154**	*0.014*		**0.137**	*0.008*	
Na	%	20	**0.003**	*0.002*		**0.004**	*0.003*		**0.090**	*0.005*	
Al	mg/kg	14	**47.7**	*5.15*		**93.1**	*16.6*		**102**	*7.8*	
B	mg/kg	23	**3.80**	*0.800*		**62.3**	*2.81*		**4.50**	*0.94*	
Zn	mg/kg	30	**7.08**	*1.04*		**13.7**	*1.01*		**14.0**	*1.23*	
Mn	mg/kg	30	**20.0**	*1.19*		**51.3**	*2.05*		**53.3**	*2.62*	
Fe	mg/kg	28	**37.6**	*3.87*		**112**	*11.5*		**96.5**	*9.10*	
Cu	mg/kg	30	**3.57**	*0.505*		**8.04**	*1.04*		**5.58**	*0.760*	
Mo	mg/kg	8	**0.772**	*0.030*		**0.212**	*0.045*		**0.843**	*0.116*	

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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Nitric / Perchloric- MICROWAVE											
P	%	16	**0.100**	*0.009*		**0.150**	*0.010*		**0.255**	*0.014*	
K	%	16	**0.830**	*0.045*		**2.31**	*0.155*		**1.90**	*0.132*	
Ca	%	16	**0.200**	*0.007*		**2.14**	*0.105*		**0.355**	*0.031*	
Mg	%	16	**0.080**	*0.006*		**0.715**	*0.040*		**0.149**	*0.007*	
S	%	15	**0.078**	*0.008*		**0.140**	*0.010*		**0.139**	*0.009*	
Na	%	13	**0.010**	*0.001*		**0.010**	*0.000*		**0.089**	*0.008*	
Al	mg/kg	10	**46.8**	*7.75*		**92.8**	*16.5*		**107**	*10.0*	
B	mg/kg	14	**4.59**	*1.01*		**64.7**	*4.42*		**4.50**	*1.08*	
Zn	mg/kg	16	**7.75**	*0.950*		**13.6**	*1.30*		**14.4**	*1.28*	
Mn	mg/kg	16	**19.7**	*1.40*		**50.5**	*3.00*		**54.0**	*2.55*	
Fe	mg/kg	15	**37.1**	*5.76*		**108**	*8.9*		**99.0**	*7.00*	
Cu	mg/kg	15	**3.20**	*0.700*		**8.50**	*0.900*		**5.70**	*0.670*	
Mo	mg/kg	5	**0.800**	*0.300*		**0.400**	*0.230*		**0.850**	*0.450*	
Dry Ash											
P	%	23	**0.100**	*0.005*		**0.150**	*0.010*		**0.260**	*0.010*	
K	%	23	**0.813**	*0.057*		**2.40**	*0.096*		**1.89**	*0.090*	
Ca	%	23	**0.200**	*0.017*		**2.19**	*0.099*		**0.340**	*0.022*	
Mg	%	23	**0.080**	*0.007*		**0.736**	*0.026*		**0.144**	*0.008*	
Na	%	15	**0.010**	*0.006*		**0.017**	*0.008*		**0.096**	*0.009*	
Al	mg/kg	8	**39.5**	*13.0*		**95.3**	*18.6*		**74.1**	*16.3*	
B	mg/kg	22	**3.94**	*0.970*		**63.5**	*2.94*		**4.29**	*1.07*	
Zn	mg/kg	22	**7.51**	*1.23*		**14.0**	*1.30*		**13.6**	*1.83*	
Mn	mg/kg	23	**17.0**	*2.00*		**49.6**	*1.98*		**50.6**	*3.60*	
Fe	mg/kg	20	**33.4**	*7.14*		**104**	*17.4*		**76.6**	*13.0*	
Cu	mg/kg	21	**3.05**	*1.10*		**8.00**	*0.913*		**5.00**	*1.00*	
Mo	mg/kg	2	**0.306**	*0.014*		**0.399**	*0.000*		**0.270**	*0.057*	

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