



Magruder Certificate of Analysis

Magruder Sample #211211 Grade 16-28-12

Analyte	Value	± Uncertainty	# Labs
Ammoniacal N (%)	4.853	0.176	33
Urea N (%)	10.05	0.22	18
Total N (16%)	14.35	0.087	83
Total P2O5 (%)	19.76	0.20	43
Direct Available P2O5 (28%)	19.79	0.14	50
Soluble K2O (12%)	22.07	0.26	90
Acid Soluble Mg (%)	0.8209	0.0288	16
Acid Soluble Cd (ppm)	19.48	1.03	20
Acid Soluble Cr (ppm)	99.29	3.06	18
Acid Soluble Mo (ppm)	5.219	0.250	16
Acid Soluble Ni (ppm)	14.40	0.88	17
Acid Soluble Zn (%)	0.02852	0.00047	32

1. Data obtained from participant results in the Magruder Check Sample Program.
2. Guaranteed concentrations noted by the value preceding the unit in Analyte name.
3. Values are robust means. Uncertainty determined as $1.25 \times \text{robust standard deviation} / \sqrt{\text{\#Labs}}$. Results only shown for analytes tested by 16 or more labs. Values and uncertainties for analytes tested by less than 16 labs are available in Analyte Reports.