

## Magruder Certificate of Analysis

## Magruder Sample #210211 Grade 22-3-11

Analyte	Value	± Standard Uncertainty	# Labs	
Ammoniacal N (%)	0.9577	0.0998	27	
Urea N (%)	20.62	0.24	17	
Total N (22%)	21.72	0.06	78	
Total P2O5 (%)	3.572	0.037	43	
Direct Available P2O5 (3%)	3.524	0.043	49	
Soluble K2O (11%)	20.11	0.15	82	
Acid Soluble Mg (%)	1.701	0.053	18	
Acid Soluble Cd (ppm)	3.833	0.194	22	
Acid Soluble Cr (ppm)	43.26	2.15	20	
Acid Soluble Fe (%)	0.1281	0.0023	18	
Acid Soluble Ni (ppm)	14.60	0.84	21	
Acid Soluble Zn (%)	0.00701	0.00032	28	

- 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. Standard uncertainty determined as 1.25 x robust standard deviation / sqrt(#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.
- 4. Technical information on Certificat of Analysis available at www.magruderchecksample.org/prod/Articles.html