



# Magruder Certificate of Analysis

## Magruder Sample #240311 Grade 8-30-4

Analyte	Value	± Uncertainty	# Labs
Total N (8%)	8.248	0.024	56
Total P2O5 (%)	30.88	0.23	34
Direct Available P2O5 (30%)	30.52	0.19	37
Soluble K2O (4%)	4.442	0.050	69
Acid Soluble Mg (%)	1.305	0.046	17
Total S (3%)	5.997	0.194	34
Acid Soluble Cr (ppm)	67.40	2.07	16
Acid Soluble Cu (0.6%)	0.08180	0.00151	50
Acid Soluble Mn (0.5%)	0.1320	0.0023	47
Acid Soluble Mo (ppm)	12.28	0.38	17
Acid Soluble Zn (0.1%)	0.2272	0.0040	51

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.