



# Magruder Certificate of Analysis

## Magruder Sample #220911 Grade 15-15-15

Analyte	Value	± Uncertainty	# Labs
Ammoniacal N (%)	8.619	0.060	37
Nitrate N (%)	6.410	0.051	27
Total N (15%)	15.02	0.034	89
Total P2O5 (%)	15.52	0.10	45
Direct Available P2O5 (15%)	15.39	0.10	53
Soluble K2O (15%)	15.16	0.059	89
Total S (5%)	5.442	0.049	48
Acid Soluble Cu (%)	0.00188	0.00011	20
Acid Soluble Zn (%)	0.00533	0.00028	24

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.