

**Magruder Check Sample # 170111****Grade 18-46-0 DAP**

Analyte	Value	± Uncertainty	# Labs
Ammoniacal Nitrogen (%)	18.23	5.67E-02	24
Total Nitrogen (18%)	18.29	4.09E-02	67
Total Phosphorus as P <sub>2</sub> O <sub>5</sub> (%)	46.39	1.24E-01	57
Direct Available Phosphorus as P <sub>2</sub> O <sub>5</sub> (46%)	46.51	1.47E-01	38
Water Soluble Phosphorus as P <sub>2</sub> O <sub>5</sub> (%)	43.58	4.59E-01	15
Soluble Potassium as K <sub>2</sub> O (%)	0.2122	2.86E-02	11
Acid Soluble Calcium (%)	0.2803	1.80E-02	14
Acid Soluble Magnesium (%)	0.7233	1.97E-02	16
Total Sulfur (%)	2.192	3.32E-02	10
Acid Soluble Arsenic (ppm)	1.877	2.97E-01	10
Acid Soluble Boron (%)	1.37E-02	2.77E-03	10
Acid Soluble Cadmium (ppm)	29.91	1.08E+00	22
Acid Soluble Chromium (ppm)	211.7	7.44E+00	20
Acid Soluble Cobalt (ppm)	1.228	2.41E-01	11
Acid Soluble Copper (%)	6.88E-04	2.61E-04	10
Acid Soluble Iron (%)	0.4314	8.61E-03	18
Acid Soluble Lead (ppm)	0.8232	3.48E-01	8
Acid Soluble Manganese (%)	4.59E-03	1.75E-04	12
Acid Soluble Molybdenum (ppm)	3.721	4.72E-01	17
Acid Soluble Nickel (ppm)	12.16	4.39E-01	19
Acid Soluble Zinc (%)	3.77E-02	8.62E-04	31

Please Note: Magruder cannot guarantee the accuracy of the consensus values. These values are derived from the results reported by Magruder Check Sample Program participants during the active testing round for this material.

**Magruder Check Sample # 170211****Grade 27-0-0**

<b>Analyte</b>	<b>Value</b>	<b>± Uncertainty</b>	<b># Labs</b>
Ammoniacal Nitrogen (%)	13.42	4.76E-02	23
Nitrate Nitrogen (%)	13.54	2.29E-01	16
Total Nitrogen (27%)	26.59	1.28E-01	67
Acid Soluble Calcium (4%)	4.502	4.04E-02	56
Acid Soluble Magnesium (1%)	2.591	3.25E-02	55
Acid Soluble Cadmium (ppm)	0.101	1.59E-02	8
Acid Soluble Chromium (ppm)	20.5	1.39E+00	16
Acid Soluble Cobalt (ppm)	0.8946	2.05E-01	8
Acid Soluble Copper (%)	4.50E-04	1.61E-04	10
Acid Soluble Iron (%)	4.96E-02	1.21E-03	16
Acid Soluble Lead (ppm)	3.677	2.68E-01	12
Acid Soluble Manganese (%)	4.57E-03	1.31E-04	13
Acid Soluble Molybdenum (ppm)	1.819	1.77E-01	11
Acid Soluble Nickel (ppm)	10.62	1.27E+00	17
Sodium (%)	0.1661	9.81E-03	8
Acid Soluble Zinc (%)	1.99E-03	2.49E-04	20

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**Magruder Check Sample # 170311**

**Grade 28-0-0 Liquid SR**

<b>Analyte</b>	<b>Value</b>	<b>± Uncertainty</b>	<b># Labs</b>
Urea Nitrogen (%)	8.018	7.53E-01	8
Total Nitrogen (28%)	28.31	5.11E-02	76

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**Magruder Check Sample # 170411**

**Grade 15-15-15 + Micros**

Analyte	Value	± Uncertainty	# Labs
Ammoniacal Nitrogen (%)	6.101	1.38E-01	20
Urea Nitrogen (%)	9.033	1.25E+00	8
Total Nitrogen (15%)	19.95	5.63E-02	81
Total Phosphorus as P2O5 (%)	17.74	1.62E-01	54
Direct Available Phosphorus as P2O5 (15%)	17.9	1.16E-01	47
Soluble Potassium as K2O (15%)	2.494	3.13E-02	77
Acid Soluble Calcium (%)	0.336	1.39E-02	23
Acid Soluble Magnesium (1.2%)	2.718	3.20E-02	58
Water Soluble Magnesium (%)	1.334	2.68E-01	9
Sulfate Sulfur, HCl soluble (%)	4.762	1.52E-01	9
Total Sulfur (2%)	4.574	9.24E-02	45
Acid Soluble Arsenic (ppm)	8.853	7.54E-01	16
Acid Soluble Boron (0.08%)	0.2795	8.31E-03	37
Acid Soluble Cadmium (ppm)	5.28	2.51E-01	22
Acid Soluble Chromium (ppm)	84.1	4.89E+00	20
Acid Soluble Cobalt (ppm)	32.36	1.82E+00	21
Acid Soluble Copper (0.5%)	0.6072	7.08E-03	57
Acid Soluble Iron (1.6%)	2.427	4.95E-02	56
Acid Soluble Lead (ppm)	28.89	1.47E+00	22
Acid Soluble Manganese (1%)	1.22	1.42E-02	58
Acid Soluble Molybdenum (50ppm)	1,292	6.08E+01	24
Acid Soluble Nickel (ppm)	91.86	4.08E+00	24
Acid Soluble Selenium (ppm)	3.728	1.75E+00	9
Sodium (%)	0.5346	3.30E-02	8
Acid Soluble Zinc (1%)	1.449	2.16E-02	59

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**Magruder Check Sample # 170511**

**Grade 16-1-0**

Analyte	Value	± Uncertainty	# Labs
Ammoniacal Nitrogen (%)	15.32	9.32E-02	25
Total Nitrogen (16%)	16.88	3.07E-02	78
Total Phosphorus as P2O5 (%)	1.219	3.46E-02	40
Direct Available Phosphorus as P2O5 (1%)	1.101	2.11E-02	46
Soluble Potassium as K2O (0.0000001%)	1.731	2.28E-02	20
Acid Soluble Calcium (%)	0.4945	1.23E-02	17
Acid Soluble Magnesium (%)	0.1921	5.68E-03	19
Sulfate Sulfur, HCl soluble (%)	18.75	5.75E-01	8
Total Sulfur (20%)	19.12	1.54E-01	41
Acid Soluble Cadmium (ppm)	0.3798	1.03E-01	12
Acid Soluble Chromium (ppm)	13.87	9.29E-01	17
Acid Soluble Cobalt (ppm)	7.18	5.95E-01	16
Acid Soluble Copper (%)	5.78E-03	3.04E-04	29
Acid Soluble Iron (2%)	2.583	3.62E-02	57
Acid Soluble Lead (ppm)	2.916	8.59E-01	12
Acid Soluble Manganese (%)	7.57E-03	4.12E-04	18
Acid Soluble Molybdenum (ppm)	3.633	3.93E-01	11
Acid Soluble Nickel (ppm)	14.36	7.36E-01	19
Sodium (%)	0.1234	3.39E-03	8
Acid Soluble Zinc (%)	1.22E-02	5.15E-04	32

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**Magruder Check Sample # 170611**

**Grade 2-15-15 w/PO3**

<b>Analyte</b>	<b>Value</b>	<b>± Uncertainty</b>	<b># Labs</b>
Ammoniacal Nitrogen (%)	0.5315	2.14E-02	28
Urea Nitrogen (%)	1.701	5.85E-02	13
Total Nitrogen (2%)	2.094	2.13E-02	80
Total Phosphorus as P2O5 (%)	15.15	1.03E-01	57
50			Statistics not calculated
Soluble Potassium as K2O (15%)	17.49	1.09E-01	87
Acid Soluble Magnesium (%)	1.06E-03	3.33E-04	8
Acid Soluble Iron (0.1%)	1.40E-03	2.64E-04	22
Acid Soluble Zinc (0.1%)	9.97E-04	2.27E-04	23

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