

<b>FERTILIZER</b>		
<b>Analyte</b>	<b>Confirmatory Method</b>	<b>Modifications</b>
Total Nitrogen (N)	AOAC Official Method 993.13 Nitrogen (Total) in Fertilizers Combustion Method	None
Soluble Potash (K <sub>2</sub> O)	AOAC Official Method 983.02 Potassium in Fertilizers	Using flame emission spectroscopy in place of flame photometry (improvement in technology since method written in 1983)
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	AOAC Official Method 960.03 Phosphorus (Available) in Fertilizers	Minor modifications to extraction for safety purposes
Calcium (Ca)	AOAC Official Method 965.09 Nutrients (Minor) in Fertilizers Atomic Absorption Spectrophotometric Method	Extract – don't boil samples in straight acid to dryness on hotplate due to safety concerns
Magnesium (Mg)	AOAC Official Method 965.09 Nutrients (Minor) in Fertilizers Atomic Absorption Spectrophotometric Method	Extract – don't boil samples in straight acid to dryness on hotplate due to safety concerns
Copper (Cu)	AOAC Official Method 965.09 (a) Nutrients (Minor) in Fertilizers Atomic Absorption Spectrophotometric Method	Extraction – final dilution with DI water in place of HCL. Instrument – ICP not AA (improvement in technology since method written in 1960)
Iron (Fe)	AOAC Official Method 965.09 (a) Nutrients (Minor) in Fertilizers Atomic Absorption Spectrophotometric Method	Extraction – final dilution with DI water in place of HCL. Instrument – ICP not AA (improvement in technology since method written in 1960)
Manganese (Mn)	AOAC Official Method 965.09 (a) Nutrients (Minor) in Fertilizers Atomic Absorption Spectrophotometric Method	Extraction – final dilution with DI water in place of HCL. Instrument – ICP not AA (improvement in technology since method written in 1960)
Zinc (Zn)	AOAC Official Method 965.09 (a) Nutrients (Minor) in Fertilizers Atomic Absorption Spectrophotometric Method	Extraction – final dilution with DI water in place of HCL. Instrument – ICP not AA (improvement in technology since method written in 1960)
Sulfur (S)	AOAC Official Method 980.02 Sulfur in Fertilizers	None