

2013 Laboratory Methods & Detection Limits Completed 4/30/13

Analyte	Matrix	Method	Method Detection Limit	JML Test Code
Soil Analysis				
NO ₃ -N	Soil	1M Ammonium acetate extract	0.47 mg/Kg	106,508,509
K	Soil	1M Ammonium acetate extract	1.14 mg/Kg	509
TP	Soil	Nitric/Peroxide Digest	0.01 %	507
PO ₄ -P	Soil	Olson bicarbonate extract	0.49 mg/Kg	509
EC	Soil	Direct Measurement	0.01 dS/m	509
OM	Soil	Automated Combustion/Calculation	0.08 %	508,509
Dry Manure Solids & Harvest Tissue Analysis				
CL	Manure	Saturated Paste Extract	0.01 meq/L	503
S	Manure	Nitric/Peroxide Digest	0.01 %	503
Na	Manure/Tissue	Nitric/Peroxide Digest	0.01 %	503
K	Manure/Tissue	Nitric/Peroxide Digest	0.01 %	504,505,512
P	Manure/Tissue	Nitric/Peroxide Digest	0.01 %	504,505,512
Ca	Manure/Tissue	Nitric/Peroxide Digest	0.01 %	503
Mg	Manure/Tissue	Nitric/Peroxide Digest	0.01 %	503
TN	Manure/Tissue	Automated Combustion	0.05 %	504,505,506,512
Fixed Solids	Manure/Tissue	Ignite by Muffle Furnace	0.67 %	503,505
Moisture	Manure/Tissue	Dry at 70°C	1.52 %	504,505,133
Wastewater Analysis				
NH ₄ -N	Wastewater	Flow Injection Analysis- 350.1	0.57 ppm	510
NO ₃ -N+NO ₂ -N	Wastewater	Flow Injection Analysis- 353.2	0.02 ppm	510
Cl	Wastewater	Flow Injection Analysis- 325.2	0.01 meq/L	511
ECW	Wastewater	Direct Measurement	0.01 dS/m	316,317,510
TDS	Wastewater	Calculated Value	19.2 ppm	510
pH	Wastewater	Direct Measurement	0.05 Unit	315,317
Ca	Wastewater	1M HCl extract	0.01 meq/L	511
Mg	Wastewater	1M HCl extract	0.01 meq/L	511
Na	Wastewater	1M HCl extract	0.01 meq/L	511
K	Wastewater	1M HCl extract	0.01 meq/L	510
H ₂ PO ₄	Wastewater	1M HCl extract	0.01 meq/L	510
SO ₄	Wastewater	1M HCl extract	0.02 meq/L	511
TN	Wastewater	Automated Combustion	66.98 ppm	510
CO ₃	Wastewater	Direct titration	0.1 meq/L	511
HCO ₃	Wastewater	Direct titration	0.1 meq/L	511