

Soils, Manure, Fertilizer, Lime

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# Brookside LABS

200 White Mountain Drive New Bremen, OH 45869

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### Office Use

Form #: \_\_\_\_ Due Date: \_\_\_\_

# Samples Rec'd: \_\_\_\_

Date Rec'd: \_\_\_\_

Rec'd By: \_\_\_\_

Date Submitted: \_\_\_\_\_ Client #: \_\_\_\_\_ # Samples Submitted: \_\_\_\_\_

Client Name: \_\_\_\_\_ Consultant: 711 Green Field Farms

Address: \_\_\_\_\_ Sampled By: \_\_\_\_\_

Check box if data is to be:  Fax# \_\_\_\_\_

email: payables@gffarms.com

Soil Audit Format:	ppm: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Report unit (pick one): <input checked="" type="checkbox"/> lb/ac <input type="checkbox"/> lbs/1000 sq ft <input type="checkbox"/> kg/ha				Sample Depth: <u>6</u> inches OR ____ cm			
(16 Characters ea.)	Sample 1 - 8 characters ea		Sample 2 - 8 characters ea		Sample 3 - 8 characters ea		Sample 4 - 8 characters ea		Sample 5 - 8 characters ea	
Dealer Name or GFF If You Want to Buy Direct	ID Space #1	ID Space #2	ID Space #1	ID Space #2	ID Space #1	ID Space #2	ID Space #1	ID Space #2	ID Space #1	ID Space #2

**Please check soil package:**  S001  S001P  S001A  S001B  S001C  S110  S001N  S001AN  S001BN  S001CN  
 S001PN  S003  S004  S005  S006  S006W=client water  S007  S009  S015  S015N  S019  S019A  S010  
 S171  S176  S180  S251 **Manure, Fert., Lime:**  Z001  Z002  Z003  Z004  X001  X002  X003  L001  L002  
 Other \_\_\_\_\_ If other tests are required on certain samples, note the samples below and specify the test by test code.

**SOIL ANALYSIS**

<b>CODE</b>	<b>PACKAGE DESCRIPTION</b>
<b>S001</b>	<b>Standard Soil, includes:</b> pH, organic matter, Est. N release, Bray II Phos., Exchange Capacity, % Base Saturation, MIII Extractable P, Mn, Zn, B, Cu, Fe, Al, S, Ca, Mg, K, Na
<b>S001P</b>	<b>Standard Soil, includes:</b> pH, organic matter, Est. N release, Bray I Phos., Exchange Capacity, % Base Saturation, MIII Extractable P, Mn, Zn, B, Cu, Fe, Al, S, Ca, Mg, K, Na
<b>S001A</b>	<b>Standard Soil, includes:</b> Standard S001, SMO/Sikora Buffer pH, No Bray II Phos.
<b>S001B</b>	<b>Standard Soil, includes:</b> Standard S001, SMO/Sikora Buffer pH, No Bray II Phos. (Exchange capacity and % Base Saturations are calculated using SMP/Sikora Buffer pH)
<b>S001C</b>	<b>STANDARD SOIL, includes:</b> Standard S001 with Olsen P (no Bray II)
<b>S110</b>	<b>AVAILABLE NITROGEN (NH<sub>4</sub>-N + NO<sub>3</sub>-N)</b>
<b>S001N</b>	<b>STANDARD SOIL, includes:</b> Standard S001 and S110
<b>S001AN</b>	<b>Standard Soil, includes:</b> Standard S001A and S110
<b>S001BN</b>	<b>STANDARD SOIL, includes:</b> Standard S001B and S110
<b>S001CN</b>	<b>STANDARD SOIL, includes:</b> Standard S001C and S110
<b>S001PN</b>	<b>STANDARD SOIL, includes:</b> Standard S001P and S110
<b>S003</b>	<b>SOIL-LESS MEDIA, includes:</b> pH, Salt, Available Nitrogen (NO <sub>3</sub> , NH <sub>4</sub> ), Ca, Mg, P, K, Na, S, B, Mn, Zn, Fe, Al, Mo, Cu
<b>S004</b>	<b>COMPLETE PHYSICAL ANALYSIS, includes:</b> (A2LA) Particle Size, O.M. by Ash, Sand Fractions, Saturated Hydraulic Conductivity, 30 cm Moisture Retention, Pore Spaces, Bulk Density, Particle Density, pH, Visual Classification
<b>S005</b>	<b>GREENHOUSE/NURSERY SOIL ANALYSIS, includes:</b> S001, S110, Soluble Salts
<b>S006</b>	<b>SATURATED SOIL PASTE, includes: (with DI – lab water)</b> pH, Ca, Mg, K, Na, S, B, Fe, Mn, Cu, Zn, Al, P, Soluble Salts, Cl, Bicarbonate, ESP (calculated), SAR (calculated), Available N (NO <sub>3</sub> + NH <sub>4</sub> )
<b>S006W</b>	<b>S006W SATURATED SOIL PASTE, includes: (with client water)</b> Same as S006 but the lab uses client water instead of DI water
<b>S007</b>	<b>NEW ZEALAND/AUSTRALIA STANDARD, includes:</b> Standard S001, SMP/Sikora Buffer pH, Available N (NO <sub>3</sub> + NH <sub>4</sub> )KCl extractable Al, Total Acidity, (Exchange Capacity and % base saturation, includes, KCl ext. Al)
<b>S009</b>	<b>MOISTURE CURVE PACKAGE, includes:</b> S004 except pH & visual, plus Moisture Retention Curve
<b>S015</b>	<b>ALKALINE SOIL STANDARD, includes:</b> pH, Organic Matter, Est. N. release, Ammonium Acetate Ca, Mg, K, Na, S, Olsen Phosphorus, Exchange Capacity, % Base Saturation of Cation, DTPA Extractable Fe, Mn, Cu, Zn
<b>S015N</b>	<b>ALKALINE SOIL, includes:</b> S015 and S110
<b>S019</b>	<b>SOIL HEALTH TOOL, includes:</b> H3A Extractable Ca, Mg, K, Na, S, P, PO4-P, Mn, Zn, B, Fe, Al, NH4-N + NO3-N, Water Extractable Organic C + Total N, IRGA Soil Respiration.
<b>S019A</b>	<b>SOIL HEALTH TOOL, includes:</b> H3A Extractable Ca, Mg, K, Na, S, P, PO4-P, Mn, Zn, B, Fe, Al, NH4-N + NO3-N, Water Extractable Organic C + Total N, IRGA Soil Respiration, pH, buffer pH, electrical conductivity, and organic matter.

**SOIL ANALYSIS continued**

<b>CODE</b>	<b>PACKAGE DESCRIPTION</b>
<b>S010</b>	<b>NUTRIENT SOLUBILITY ANALYSIS, includes:</b> pH, Ca, Mg, K, P, Na, B, Fe, Mn, Cu, Zn, Al, S
<b>S171</b>	<b>% Sand, Silt, Clay by Hydrometer</b>
<b>S176</b>	<b>% Sand, Silt, Clay by Hydrometer, Sand Fractions and Organic Matter at 360°C</b>
<b>S180</b>	<b>% Sand, Silt, Clay by Pipette, Sand Fractions and Organic Matter at 360°C</b>
<b>S251</b>	<b>Gravel Fractions (in mm gradation)</b>

**MANURE Analysis**

<b>CODE</b>	<b>PACKAGE DESCRIPTION</b>
<b>Z001</b>	<b>STANDARD MANURE ANALYSIS, includes:</b> Moisture, Organic Matter, Mineral Matter, Nitrogen, Phosphorus, Potassium, NO <sub>3</sub> -N and NH <sub>4</sub> -N
<b>Z002</b>	<b>STANDARD PLUS MINERALS, includes:</b> Z001, plus Calcium, Magnesium, Sodium, Sulfur, Iron, Manganese, Copper, Zinc, Boron, NO <sub>3</sub> -N and NH <sub>4</sub> -N
<b>Z003</b>	<b>NITRATES AND AMMONIA, includes:</b> NO <sub>3</sub> -N and NH <sub>4</sub> -N
<b>Z004</b>	<b>COMPOST ANALYSIS, includes:</b> Moisture, Organic Matter, Mineral Matter, Nitrogen, Phosphorus, Potassium, Calcium, Magnesium, Sodium, Sulfur, Iron, Manganese, Copper, Zinc, Boron, C/N Ratio, pH

**FERTILIZER ANALYSIS**

<b>CODE</b>	<b>PACKAGE DESCRIPTION</b>
<b>X001</b>	<b>STANDARD FERTILIZER, includes:</b> Total Nitrogen, Available Phosphorus, and Potassium
<b>X002</b>	<b>STANDARD FERTILIZER + MINERALS, includes:</b> X001, plus Sodium, Calcium, Magnesium, Iron, Manganese, Copper, Zinc, and Boron
<b>X003</b>	<b>LIQUID GREENHOUSE FERTILIZER, includes:</b> pH, Conductivity, Chloride, NO <sub>3</sub> , NH <sub>3</sub> , Sulfur, Calcium, Magnesium, Sodium, Phosphorus, Potassium, Boron, Iron, Manganese, Zinc, Copper, Aluminum, Molybdenum, Cobalt

**LIME ANALYSIS**

<b>CODE</b>	<b>PACKAGE DESCRIPTION</b>
<b>L001</b>	<b>STANDARD LIME ANALYSIS, includes:</b> Calcium, Magnesium, and Fineness
<b>L002</b>	<b>STANDARD LIME PLUS MINERALS, includes:</b> L001, plus Sodium, Potassium, Sulfur, Iron, Manganese, Copper, Zinc, and Boron