

Soil and Crop Packages

2025

SGS

SOIL PACKAGES

PACKAGE I

pH, phosphorus, potassium, magnesium (includes buffer pH, if pH is less than 6.5) OMAFRA Recommendations

PACKAGE II

Package I plus zinc and manganese OMAFRA Recommendations

PACKAGE III

Package I plus organic matter, calcium, zinc, manganese, base saturation, cation exchange capacity
SGS Recommendations

PACKAGE IV

Package I plus organic matter, calcium, base saturation, cation exchange capacity, zinc, manganese, copper, iron, boron
SGS Recommendations

HOME, LAWN & GARDEN PACKAGE

pH, phosphorus, potassium, magnesium, calcium, sodium, organic matter and total salts, with lime requirements and fertilizer recommendations

TOPSOIL PACKAGE

Texture (sand, silt, clay), total salts (EC), pH, buffer pH, phosphorus, potassium, magnesium, calcium, cation exchange capacity, chloride, sodium, sodium adsorption ratio, organic matter. Hand written amendment recommendations and nutrient guidelines.

PACKAGE IV by Mehlich III Extraction

Same as package IV + Aluminum
All results by Mehlich III extraction
No recommendations, PALA accredited method for Quebec soils

Options

(If no base package is selected, a base fee may apply)

Organic Matter
Zinc
Manganese
Total Salt
Boron
Sulphate Sulphur
Bray Phosphorus
Aluminum (Mehlich)
Nitrate Nitrogen
Atrazine
Soil Cyst Nematode
Nematode Count
Solvita

Physical Analysis

Texture (Sand, Silt, Clay)
Sand Fraction (Particle Size Distribution)
Bulk Density
Hydraulic conductivity/permeability
Packing Core (USGA)
Proctor Mold Test

PLANT TISSUE PACKAGES

BASIC

Nitrogen, phosphorus, potassium, magnesium, calcium

COMPLETE

Basic plus zinc, manganese, copper, iron, boron, sulphur

Options

(If no package is selected, a base fee will apply)

Sulphur
Nitrate Nitrogen
Molybdenum
Chloride
Aluminum

FERTILIZERS

N, P₂O₅, K₂O

N

P₂O₅

K₂O

AGRICULTURAL LIME

Dry matter, calcium, magnesium, neutralizing value, particle size, Ag Lime Index

MANURE PACKAGES

LIQUID MANURE

Dry matter, nitrogen, phosphorus, potassium, total salt, ammonium nitrogen

DRY MANURE

Dry matter, nitrogen, phosphorus, potassium, ammonium nitrogen

Options

(If no base package is selected, a base fee may apply)

Calcium and Magnesium
Zinc, Manganese, Copper, Boron, Iron
Total Salt
Carbon/Nitrogen Ratio
pH

IRRIGATION & SPRAY WATER

Total salt (EC), pH, nitrate nitrogen, phosphorus, potassium, calcium, magnesium, sodium, chloride, sulphate, zinc, manganese, copper, iron, boron, silicon, molybdenum, total hardness, bicarbonate, total dissolved solids

HEAVY METALS

Arsenic, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, zinc

This package is designed for agricultural use in obtaining Certification from the Ministry of the Environment for land applied biosolids and NASMs.

PESTICIDE SCREENS

Pesticide testing can be performed on water, soil and plant material. Included chemicals can be provided upon request

GC/LC Scan

Over 400 chemical pesticides are included when testing by both GC and LC. Only those detected will be reported

Polar A Screen (Glyphosate)

Includes 15 chemicals including AMPA, glyphosate, glufosinate and perchlorate

Polar B Screen

(Diquat, Melamine, Paraquat)

Includes 20 chemicals

Phenoxy Acid Herbicides

(2,4-D and Dicamba)

Includes 20 broadleaf herbicide chemicals

Please submit 50-100g for soil and plant tissue, or 50-100 ml for water samples. Phenoxy Acid Herbicide scan requires 1 liter of water

SOIL HEALTH PACKAGE

Includes 5 tests for scoring on OMAFRA SHAP calculator: OM%, Aggregate stability, Active C, CO₂ Burst, PMN

FUNGAL, BACTERIAL & VIRUS SCANS

Several packages are offered to detect plant pathogens and beneficial organisms in water, media, soil and plant tissues.

HH Pathogen Mini

Select one pathogen to detect, either a bacteria, fungus, or virus.

HH Fungal Complete

Scans for over 400 plant fungi and reports most populous by %

HH Pathogen+

Scans for over 500 fungi, bacteria, and fungal-like organisms and reports most populous by %

HH Beneficials

Package includes all beneficial bacteria OR beneficial fungi as chosen by client

DNA Multiscan® Basic

A monitoring scan that reports levels of over 30 common fungal plant pathogens

DNA Multiscan® Diagnostic

A diagnostic scan that reports 70 fungal pathogens and subspecies

Supplies and Forms

If you require sample containers or submission forms, please contact the laboratory.

Contact details:

SGS GUELPH

503 Imperial Rd. N, Unit 1
Guelph, Ontario, N1H 6T9

☎ 1-800-265-7175

✉ ca.agri.guelph.lab@sgs.com

🌐 <https://cropscience.sgs.ca>

Prices subject to applicable taxes and may be changed without notice. Prices effective January 2025. Rates are in Canadian funds.

All SGS services are rendered in accordance with the applicable SGS general conditions of service accessible at http://www.sgs.com/en/terms_and_conditions