



## Improve soil and crop health with **BIOS Soil Testing**

### Building soils for better crops

The BIOS Soil Test provides the basis for managing soil efficiently. It is designed to help build soil structure, address field limitations and meet nutritional needs for future crops; and will show growers -

- How to balance the soil pH within the range 6.5-7.5; this delivers ideal conditions for root growth and soil microbial activity.
- Details on fertilizer requirements for optimum growth of specific crops. Natural fertilizers are recommended over synthetic ones for their environmental benefits and long term sustainability.
- Trace elements required to overcome deficiencies.

Providing ideal conditions in the soil and using the best products to achieve this, optimises growth potential and the health of the crop.

Soil testing is the most economical way to manage soil and meet the nutritional needs of crops. It identifies the current level of minerals and nutrients in the soil. Our reports then use this information to determine the required fertilizer inputs to meet nutritional needs for future crops. In this way growers only add what the soil needs in order to maximise yields, which is not only economical but environmentally responsible.

### Organic and Sustainable Recommendations

Our unique service provides organic and/or sustainable recommendations depending on needs. Our aim is to help growers achieve well balanced, nutrient rich, biologically active soils so they can maximise yields and minimise disease risk and stress to plants.

## Soil Testing is a cost effective way to optimise yields

We recommend regular soil analysis. With seasonal variations, soils can change over a twelve-month period leaving growers uncertain of the availability of nutrient levels to crops. By having soil analysed regularly, growers are aware of the current nutrient levels and how they can be amended to provide for optimal growth conditions and soil fertility.

More and more growers are taking into account the environmental cost of production. By enhancing the soil with exactly what it needs, fertilizers and soil amendments will be at levels needed for the immediate use of the plant whilst improving soil health. This takes out the guesswork and the waste, which moves properties towards an ecologically sound and economically sustainable system.

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### Analysis Cost

Comprehensive Soil Analysis and Report - \$120 + GST per sample  
Humus, Total N & P - \$35 + GST per sample

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### Comprehensive Soil Analysis - what we test for

Albrecht Style mineral balance (base saturation %)

CEC, calcium (Ca), magnesium (Mg), potassium (K), sodium (Na), hydrogen (exchangeable acidity), aluminium (Al - if pH<5)

Organic carbon, gravel content, pH (in water and CaCl<sub>2</sub>), total dissolved salts, EC, chloride.

#### Major Elements

Available nitrogen (nitrate - N, ammonium - N), available phosphorus (Colwell), phosphorus retention index (PRI), sulphate - S

#### Trace Elements

Zinc (Zn), manganese (Mn), iron (Fe), copper (Cu), boron (B)

#### Humus, Total N & P (optional)

For tracking soil improvements or assessing the level of N and P that may be released from soil by biological activity.

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We have **Soil Sample Kits** available at no charge. Contact us by phone or email and we'll send you a kit, or download a form from our website and use your own plastic bags for your soil samples.

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