



CYCLE WORKS, llc.

Outline of Common Tests and Their Analysis

Soil Test Packages

BASIC TEST 1

Available Phosphorus, Exchangeable Potassium, Magnesium, Calcium and Hydrogen, Soil pH (Water and Buffer), Cation Exchange Capacity, and Percent Base Saturation of Cation Elements. Plus any two of zinc, manganese, iron, boron, or copper.

BASIC TEST 2

Available Phosphorus, Exchangeable Potassium, Magnesium, Calcium and Hydrogen, Soil pH (Water and Buffer), Cation Exchange Capacity, and Percent Base Saturation of Cation Elements.

BASIC TEST 3

Available Phosphorus, Exchangeable Potassium, Magnesium, Calcium, and Hydrogen, Soil pH (Water and Buffer), Cation Exchange Capacity, and Percent Base Saturation of Cation Elements. Plus zinc, manganese, iron, boron, or copper

BASIC TEST 4

Available Phosphorus, Exchangeable Potassium, Magnesium, Calcium, and Hydrogen Soil pH (Water and Buffer), Cation Exchange Capacity, and Percent Base Saturation of Cation Elements. Plus sulphate sulphur, zinc, manganese, iron, boron, or copper.

Individual analysis can be done on any of the above referenced elements and... Aluminum, Sodium, Molybdenum, Cadmium, Chloride, Nickel, Lead, Nitrate Nitrogen, and Heavy Metals. Also Available:

- *Organic Matter (Acid Digestion)*
- *Soil Texture (%Sand, %Silt, %Clay, and Soil Classification)*
- *Silica (SiO₂)*

Water Testing and Analysis

The following are our standard test packages performed on water samples. If you have other requirements, we can tailor a package to meet your specific needs.

- Water Test 1: Irrigation Suitability:
 - Nitrate, Phosphorus, Potassium, Calcium, Magnesium, Sodium, Chloride, Sulfate, Boron, Carbonate, Bicarbonate, pH, Conductivity, Total Dissolved Solids, and Sodium Absorption Ratio
- Water Test 2: Livestock Suitability:
 - Nitrate, Calcium, Magnesium, Sodium, Chloride, Sulfate, pH, Conductivity, and Total Dissolved Solids.
- Water Test 3: Fish Pond Recommendations:
 - * Calcium, Magnesium, Hardness and pH (Test includes Lime and General Fertilizer Recommendations)
- Water Test 4: Domestic Suitability:
 - Purity (Total Coliform), Calcium, Magnesium, pH, Total Hardness, Conductivity, Total Dissolved Solids, and Nitrate Nitrogen.

We also do individual analysis on Acidity, Alkalinity, Bicarbonate, Carbonate, Carbon Dioxide, Chemical Oxygen Demand (COD), Fluoride, Chloride, Coliform, Total and E. Coli, Conductivity, and the list goes on ... call with your specific needs.

Plant Testing and Analysis

BASIC TEST

- Nitrogen,
- Phosphorus,
- Potassium,
- Magnesium,
- Calcium,
- Sulfur,
- Boron,
- Zinc,
- Manganese,
- Iron
- Copper

INDIVIDUAL ANALYSIS

- Any Element Above, Sodium, Aluminum, and Molybdenum
- Nitrate Nitrogen
- Chloride
- Silicon
- Heavy Metals-See Heavy Metal Section



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