

GLP Characterization Analysis Available

Chemical and Physical Properties of Soil

- Soil pH (1:1 Soil/Water)
- Soil pH (KCl)
- Soil pH (CaCl₂)
- Soil pH (Saturated Paste)
- Organic Matter (Walkley Black)
- Organic Matter (Loss on Ignition)
- Organic Carbon (Walkley Black)
- Organic Carbon (Combustion)
- Inorganic Matter
- Cation Exchange Capacity (Ca,Mg,Na,K,H by summation)
- Cation Exchange Capacity (by Sodium Saturation)
- Cation Exchange Capacity (by Ammonical Displacement)
- Bulk Density (Disturbed)
- Bulk Density (Undisturbed Cores)
- Porosity/Particle Density
- Volatile Solids
- Sand, Silt and Clay (Hydrometer)
- Sand, Silt and Clay (Hydrometer & Sieving)
- Sand, Silt and Clay (Pipette and Sieving)
- % Gravel
- Sand Size
- USDA Textural Class
- International Textural Class
- ADAS Textural Class
- W. German BBA Textural Class
- Soil Color
- Water Holding Capacity (**Specify:** _____)
- Water Holding Capacity (0 Bar)
- Water Holding Capacity (1cm)
- Undisturbed Water Holding (0.1 to 15 Bar)
- Nitrogen (Total Kjeldahl)
- Nitrogen (Ammoniacal-N)
- Nitrogen (Nitrate-N)
- Nitrogen (Nitrite-N)
- Total Phosphorus
- Phosphorus (Olsen)
- Phosphorus (Bray)
- Soluble Salts
- Carbonates
- Redox Potential
- Zinc (DTPA)
- Iron (DTPA)
- Manganese (DTPA)
- Copper (DTPA)
- Sulfate Sulfur
- Anion Exchange Capacity

Water Relationships

- Saturated Hydraulic Conductivity
- Moisture Percent
- Water Infiltration Rate

Other

- Morphology (USDA Guidelines)
- Clay Mineralogy (Non-glp)

Biological Properties

- Microbial Biomass Carbon (Fumigation)
- Microbial Biomass Carbon (SIR: Substrate Induced Respiration)
- Solvita Test (CO₂ Burst) Biological Activity Test
- Total Plate Count (Aerobic: Fungi, Bacteria and Actinomycetes)
- Total Plate Count (Anaerobic)

Additional Procedures

- Disposal of Foreign Samples
- Rush analysis available

Water Characterization Parameter Available

- Series 5:** pH,calcium,magnesium,sodium, hardness,sodium adsorption ratio,conductivity, potassium,carbonate,bicarbonate,nitrate, sulfate,chloride and alkalinity.
- Series 6:** pH,calcium,magnesium,sodium, hardness,sodium adsorption ratio,conductivity, potassium,carbonate,bicarbonate,nitrate, sulfate,chloride,turbidity,total dissolved solids and alkalinity.
- Water pH
- Calcium
- Magnesium
- Sodium
- Hardness
- Conductivity
- Sodium Adsorption Ratio (SAR)
- Total Dissolved Solids
- Turbidity
- Alkalinity
- Chemical Oxygen Demand
- Specific Gravity
- Redox Potential
- Total Organic Carbon
- Dissolved Organic Carbon
- Carbonates
- Bicarbonates
- Sulfate-Sulfur
- Nitrogen (Total Kjeldahl)
- Nitrogen (Ammoniacal-N)
- Nitrogen (Nitrate-N)
- Nitrogen (Nitrite-N)
- Suspended Solids
- Dissolved Oxygen
- Total Phosphorus
- Potassium
- Zinc
- Iron
- Manganese
- Copper
- Boron
- Chloride
- Fluoride
- Bromide