Who We Are

About Us
LETL utilizes research facilities and laboratory resources spread across IES faculty to deliver a better and broader testing capability to IES faculty, students and the general public. LETL offers agricultural analysis on soil, plant tissues, soil amendment material (compost), and also provides analytical testing for inorganic compounds in drinking water, industrial wastewater, and other environmental samples.

Contact Us
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Our state of the art laboratory facilities
- Thermo Fisher Flash 2000 Analyzer – Carbon/Nitrogen Analyzer
- Metrohm 881 Compact Ion Chromatography Pro for cations and anions analysis
- Shimadzu High-Temperature TOC-L Combustion Analyzer for carbon analysis
- Shimadzu Gas Chromatograph-2014 for greenhouse gases analysis
- Perkin Elmer NexION 300X Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) for elemental analysis
**Soil Analysis**

**Soil Fertility (Routine NPK+)** $20.00
- Including pH, organic matter (LOI), lime requirement, NO₃-N and NH₄-N, Phosphorus Olsen/Bray, Potassium.

**Individual Soil Test (each)** $5.00+
- pH & EC (soluble salts)
- Soil Texture Analysis
- Soil Total Nitrogen ($5.00 more)
- Organic Matter (LOI)
- Nitrate-N and Ammonium-N
- Phosphorous Bray/Olsen
- Extractable Ca, Mg, Na and K ($3.00 more)
- Micronutrients including B, Cu, Fe, Mn, S & Zn ($3.00 more)
- Cation Exchange Capacity (CEC) ($5.00 more)
- CaCO₃ Equivalent (CCE)
- Soil Chloride
- Soil Moisture ($3.00 only)
- Lime Requirement

**Soil Comprehensive Salinity** $40.00
(Saturated Paste Extraction) pH, EC, Ca, K, Mg, Na, B, Cu, Fe, Mn, S & Zn, Cl⁻, CO₃²⁻, HCO₃⁻, NO₂⁻, NO₃⁻, PO₄³⁻, SO₄²⁻, Hardness and Alkalinity.

**Total Elemental Analysis / Heavy Metal Screening** $20.00
Al, Ag, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Ti, V, Zn.

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**Greenhouse Root Media Test**

**Saturated Media (H₂O extraction)** $25.00
- pH, EC, NO₃-N and NH₄-N, P, K, Ca, Mg, Na, B, S, Cu, Fe, Mn and Zn.

**Greenhouse Media Comprehensive** $30.00
(DTPA Saturated Media Extraction)
- pH, EC, NO₃-N and NH₄-N, P, K, Ca, Mg, Na, B, S, Cu, Fe, Mn and Zn.

**Other Individual Test (each)** $10.00
- pH & EC
- NO₃-N and NH₄-N
- ICP metals (including heavy metals) ($10.00 more)

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**Water Analysis**

**Water Quality Analysis** $15.00
- pH, EC, Ca, Mg, Na, K, F⁻, Cl⁻, CO₃²⁻, HCO₃⁻, NO₂⁻, NO₃⁻, PO₄³⁻, SO₄²⁻, Hardness and Alkalinity.

**ICP-MS for Elements (no digestion)** $15.00
- Al, Ag, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Ti, V, Zn.

**Other Individual Test (each)** $5.00
- pH & EC
- TS, TSS, TVS, TDS, VSS, TOC, Ca, Mg, Na, K, F⁻, Cl⁻, NO₂⁻, NO₃⁻, PO₄³⁻, SO₄²⁻, Alkalinity, Turbidity, Hardness.

**Wastewater Parameters (each)** $10.00
COD, BOD, TKN.

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**Plant Tissue Analysis**

**Total Carbon or Nitrogen** $10.00
- Elemental Analysis (via digestion) $20.00
  - Al, Ag, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Ti, V, Zn.

**Other Individual Test (each)** $5.00
- Nitrate
- Orthophosphate
- Chloride

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**Compost or Manure Analysis**

**Basic N-fertilizer Test** $20.00
- Organic Matter, Percent Solids, pH, Soluble Salts, Total Nitrogen, Total Carbon, C:N ratio

**Complete Fertilizer Test** $40.00
- NO₃-N and NH₄-N, P, K, Ca, Mg, Na, B, S, Cu, Fe, Mn, Zn and other interested Heavy Metals.

**Other Individual Test (each)** $5.00
- Percent Solids, pH & EC, NO₃-N, NH₄-N, Organic Matter.

**ICP-MS for Interested Elements** $20.00
- Al, Ag, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Ti, V, Zn.