

Department of Biological and Agricultural Engineering  
Environmental Analysis Laboratory

**Types of Analysis Conducted** (n/a – Analysis is not applicable)

Types of Analysis	Units	Water	Slurry Waste	Solid Waste	Soil	Plant Tissue
TKN (Org-N + NH <sub>4</sub> -N)	mg/L ug/g	x	x	x	x	x
Total N (Incl. NO <sub>3</sub> -N)	mg/L ug/g	x	x	x	x	x
NH <sub>4</sub> -N	mg/L ug/g	x	x	x	x	n/a
NO <sub>3</sub> -N + NO <sub>3</sub> N	mg/L ug/g	x	x	x	x	n/a
NO <sub>2</sub> -N	mg/L ug/g	x	x	x	x	n/a
Total P	mg/L ug/g	x	x	x	x	x
Ortho Phosphate	mg/L ug/g	x	x	x	x	n/a
Available (Extr.) P	mg/L ug/g	n/a	n/a	x	x	n/a
Chloride	mg/L ug/g	x	x	x	x	n/a
Total COD	mg/L	x	x	x	n/a	n/a
Soluble COD	mg/L	x	x	x	n/a	n/a
SO <sub>4</sub> (soluble inorganic)	mg/L	x	x	x	x	n/a
pH	pH units	x	x	x	x	n/a
Conductivity	umhos/cm	x	x	x	x	n/a
Alkalinity	mg equiv, CaCO <sub>3</sub> /L	x	x	x	n/a	n/a
Moisture Content	%	n/a	n/a	x	x	x
Total Solids	%	x	x	n/a	n/a	n/a
Volatile Solids	%	x	x	n/a	n/a	n/a
Suspended Solids	mg/L	x	x	n/a	n/a	n/a
Volatile Suspended Solids	mg/L	x	x	n/a	n/a	n/a
Total Dissolved Solids	mg/L	x	x	n/a	n/a	n/a
C/N Leco	n/a	n/a	n/a	x	x	x
Total Organic Carbon	mg/L	x	x	n/a	n/a	n/a
Total Carbon	mg/L	x	x	n/a	n/a	n/a
Inorganic Carbon	mg/L	x	x	n/a	n/a	n/a
Na – Sodium	mg/L ug/g	x	x	x	x	x
K – Potassium	mg/L ug/g	x	x	x	x	x
Ca – Calcium	mg/L ug/g	x	x	x	x	x
Mg – Magnesium	mg/L ug/g	x	x	x	x	x
Cu – Copper	mg/L ug/g	x	x	x	x	x
Zn – Zinc	mg/L ug/g	x	x	x	x	x
Fe – Iron	mg/L ug/g	x	x	x	x	x
Mn – Manganese	mg/L ug/g	x	x	x	x	x
Ni – Nickel	mg/L ug/g	x	x	x	x	x
Cd – Cadmium	mg/L ug/g	x	x	x	x	x
Cr – Chromium	mg/L ug/g	x	x	x	x	x
Pb - Lead	mg/L ug/g	x	x	x	x	x
Bulk Density	g/cm <sup>3</sup>	n/a	n/a	x	x	n/a
Volume / Weight	g/ml/L	x	x	x	x	x
Hardness	mg equiv, CaCO <sub>3</sub> /L	x	n/a	n/a	n/a	n/a