

Plant Test	Reagents	Conditions	Analysis	Reference
<i>Plant Tissue</i>				
Phosphorus, Potassium, Calcium Magnesium, Sulfur, Boron, Cooper, Iron, Zinc, Molybdenum, Aluminum, Sodium, Lead, Cadmium, Arsenic, Nickel, Chromium, Cobalt, Selenium	Water/HNO ₃ /H ₂ O ₂	0.5 g tissue - add 2.2 ml of DI Water, heat block to 125°C, add 5 mL concentrated HNO ₃ digest for 2.75 hr. on heat block, then add 3 mL H ₂ O ₂ , cool, and filled to a volume of 20 mL with DI Water (5g/20mL)	ICP	Benton, 1991 Jones Jr, 2001
Nitrogen		0.15 g soil	LECO CN Analyzer	Dumas Dry-Combustion
Carbon		0.15 g soil	LECO CN Analyzer	Dumas Dry-Combustion

Water Test	Volume	Procedure
<i>Water Test</i>		
pH	25 mL	Direct read on pH meter.
Alkalinity	25 mL	Titrate to pH 4.5 using 0.02 N HCl and calculate.
Conductivity	25 mL	Direct read on conductivity meter
Sodium, Calcium, Magnesium, Potassium, Iron, Manganese, Sulfur, Chloride	15 ml	Direct read on ICP.
Nitrate	1 mL	Direct read on Hach DR900 Colorimeter.