

A Brief Guide to Soil Sampling: What it is & Why it Matters

What is Soil Sampling?

Soil Sampling is the process of digging several feet straight down into the ground and extracting several layers of soil. That extracted soil is then tested (Stratigraphy) for stability, nutrients, rocks, and overall health.

How deep soil sampling needs to be depends on what you're building, growing, or testing for. Most often they are performed at the following depths:

- Ph Testing: 0 - 6 Inches
- Plant Roots: 6 - 12 Inches
- Crop Roots: 6 - 24 Inches
- Building Foundations: 30 - 100 Feet



Soil Sampling Tray



Foundational Safety

Soil Sampling is important for foundational safety for buildings and construction as it allows you to see how soil would change in density, moisture, and strength under extreme pressures. It's crucial to determine this before putting up a new structure.



Environmental Impact

For gardening or growing crops, it's crucial to test soil for proper nutrients, groundwater depth, and what's referred to as the "Root Zone" (6 - 24") to ensure that your crops have a stable, healthy environment to grow in. Without proper soil, nothing will ever grow.



Planning & Development

While developing new areas and planning public works like parks, it's important to test things like soil stability for slopes/embankments, subsurface obstacles like rocks, even high Ph to ensure a public space is non-toxic. This is important for public safety.



Little Beaver Hydraulic Earth Drill



Hydraulic Earth Drill being used with a Lifting Frame

Hydraulic Earth Drills

The Little Beaver Hydraulic Earth Drill power source is a reliable, high-torque post hole auger power unit built for heavy clay, rocky soil, and frozen ground conditions. The hydraulic design delivers the power needed to drive augers up to 9" in diameter, while forward and reverse capability makes extracting from holes fast and easy.

Auger Lifting Frame

A portable auger lifting frame designed for drilling and auger removal at depths between 6 and 30 feet. The tripod includes a hand winch for smooth auger extraction and fast on-site setup. Compatible with both one-man and two-man hydraulic handles, this tripod is widely used for soil sampling, groundwater monitoring, geophysical work, and more.

Hydraulic Earth Drills

Auger Lifting Frame



Earth Drill Handle



Earth Drill Auger



Earth Drill Blade

Auger Handles give your earth drills the ability to rotate your Augers and cut through the earth with ease!

Our different Augers can cut through everyday soil, rocky terrain, and compact or frozen ground with ease.

Cut through different types of material from hard bedrock to the softest dirt with different types of Auger Blades.

Little Beaver Parts & Accessories