



Cone Penetration and Piezocone

In addition to using conventional methods to analyze subsurface conditions in the field and laboratory, **Atlantic Testing Laboratories (ATL)** performs Cone Penetration Testing (CPT). CPT provides real-time data to determine subsurface stratigraphy, estimated geotechnical parameters, and results for direct geotechnical design.



CPT Provides:

- ◆ **An Economical Logging Tool** to determine soil stratigraphy, relative density, strength, and equilibrium groundwater pressures on certain soils.
- ◆ **Real Time Data** at the ground surface, which facilitates the on-site decision making process.
- ◆ **Report Ready Plots** of the cone penetration testing that are plotted to scale.
- ◆ **Shear and Compression Wave Velocities** that can determine soil behavior in response to dynamic loading from earthquakes, wind, waves, and vibrating machine foundations. Also, this data can be utilized to determine the seismic site classification in accordance with the Building Code of NYS.
- ◆ **Pile Design Parameters** that can be used directly for the design of pile foundations in sand and gravel, and can be indirectly used for piles in clay.



How Does CPT Work?

A cylindrical penetrometer with a conical tip penetrates the ground at a constant rate of penetration to measure the forces on the cone and the friction sleeve. This tool can be applied to appropriate sites up to depths of approximately 150 feet.

Why ATL?

- ◆ **ATL's** truck-, ATV-, or barge-mounted drill rigs can access virtually any site.
- ◆ **ATL** utilizes a drill rig to push the cone, and if refusal is encountered, the hole can be pre-drilled with augers. The cone can then be pushed through the auger.
- ◆ **ATL** has more than 35 years of geotechnical experience.

ATL is a full-service firm offering a comprehensive line of technical support services. These include special inspection services, subsurface investigations, water-based investigations, geotechnical engineering, construction materials engineering and testing, pavement engineering, nondestructive testing, stormwater pollution prevention planning, and surveying from our 11 offices.

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