

## *Drilling in Tough Terrains*

*October 5, 2021 from 12:00 PM – 2:00 PM*

### **Course Description**

No matter how experienced the LSP or the drilling contractor, some conditions at project sites are just more challenging than others. Whether it's steep topography, remote forested locations, narrow sidewalks, or subsurface infrastructure like underground utilities, there are a lot of difficult (but common) site challenges that LSPs will have to address over the course of their careers. In this presentation, Cascade industry veterans will discuss drilling in tough terrains—and how to troubleshoot the most common challenges that arise.

The webinar will first provide an overview of various drilling technologies, highlighting their strengths, weaknesses, and unique capabilities, and include criteria to assist LSPs in deciding which methodologies might be best for a project site. The second part of the webinar will cover site challenges that occur in rural and urban settings, restricted and limited access sites, and near or over water. This will include the problems these types of sites present, safe and effective approaches to resolving them, and case studies from real sites in the northeast with familiar geology where these problems have been addressed. At the end of the seminar, there will be time for a Q&A session.

### **Course Outline**

- Introduction
- Drilling Technologies
  - Sonic
  - Auger
  - Rotary
  - Direct Push
  - Coring
- Tough Terrains
  - Drilling next to or over water
  - Drilling in marshy or muddy conditions
  - Dealing with steep slopes
  - Working around railroads and rail cars
  - Drilling on restricted and limited access sites
  - Drilling in roadways and/or on sidewalks
- Project Examples
- Q&A