

# Limited Access Drilling

## LIMITED ACCESS DRILLING FOR ENVIRONMENTAL INVESTIGATION

Tight spaces and indoor drilling locations require an expert crew and specialized equipment. Cascade met these challenges to successfully set four monitoring wells and collect subsurface samples to address perchloroethylene at a local shopping mall.

**CLIENT:** AEI Consultants

**PROJECT:** Oakland Shopping Mall

**LOCATION:** Oakland, CA

**TECHNOLOGY:** Hollow Stem Auger, Direct Push, Limited Access

**SERVICE:** Environmental drilling and sampling

### PROJECT OVERVIEW

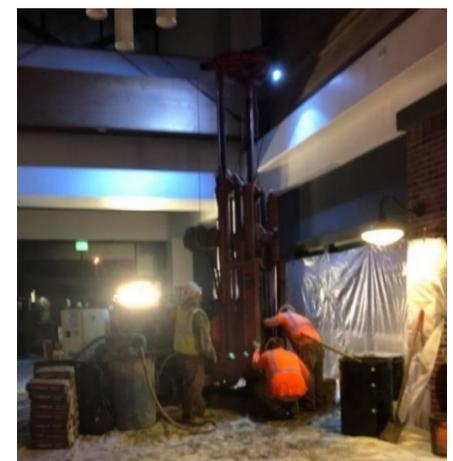
This project required the installation of monitoring wells and collection of groundwater and soil samples to investigate the extent of a perchloroethylene (PCE) plume beneath a dry cleaning business. The lithology was mainly comprised of clay, silt and fine graded sand.

The indoor drilling location presented physical access limitations as well as additional safety hazards for the crew.

The versatile Geoprobe® 8040DT rig direct push rig with hollow stem auger was used to drill and install 4 wells to approximately 20 feet below ground surface. Direct push technology (DPT) was then used to collect the samples. DPT is ideal in this situation because it produces little waste and is easily adapted for limited access situations.

### RESULTS

Tight spaces made for an interesting job, but the crew carefully reviewed the site and potential hazards to determine the safest approach. Cascade's extensive fleet of drilling equipment and experienced crews delivered the advantage of multiple drilling technologies on a single site. The project was completed on time, within budget, and without incident.



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