

# PROJECT HIGHLIGHT

## EXPERT CREWS AND VERSATILE FLEETS ARE CRUCIAL FOR HIGH PROFILE PROJECT SUCCESS

Projects involving over-water and shoreline drilling are complex and can require real-time changes in approach to get the job done.

**LOCATION:** New York City, NY

**TECHNOLOGY:** Rotary Drilling, Cone Penetration Testing (CPT), Coring

**SERVICE:** Over Water Drilling, Drilling, Sampling

### PROJECT OVERVIEW

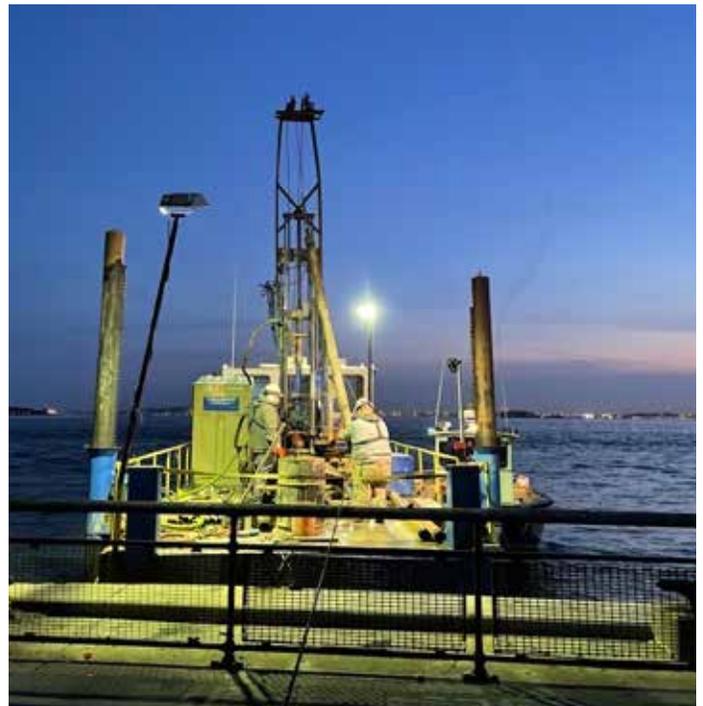
After Hurricane Sandy, the shoreline in much of Manhattan was battered and in need of repair. The client was engaged to rebuild a pier and simultaneously design for future resiliency of the shoreline along Battery Park, but before the design phase could begin they needed extensive data.

Aquifer Drilling & Testing, a Cascade Company (ADT) was brought in to conduct sampling and rock coring over the water, and to provide cone penetration testing (CPT) and standard rotary drilling in the park. With ADT's history of over water drilling and CPT capabilities, the client knew they could trust them with this critical work.

Drilling in this location posed unusual challenges. Battery Park is a high traffic public space, with watercraft regularly launching from and arriving to the shoreline where work was being conducted. Additionally, the subsurface of the park consists largely of fill dirt from Manhattan street widening projects that began in 1855. Crews found themselves drilling through relic piers and a variety of fill material. The nature of the lithology made CPT attempts unsuccessful.

### RESULTS

Because drilling conditions were not conducive for CPT, ADT crews adapted by collecting necessary data via standard drilling methods, using other fleet equipment they had at the ready. They were able to provide the client more quickly than expected with the necessary samples and geological data required to begin designing the new Battery Park seawall.



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