



SITE MIX

Case Study - Soil Stabilization

Pressure Grouting, LLC

Polyurethane Soil Stabilization for Underground Detention Pond

A geotechnical engineering firm contacted SiteMix Pressure Grouting, LLC to address an issue with poor soil conditions at the excavation site of an underground detention pond. The soils at the bottom of the excavation were found to have organics down to six feet below the bottom of the detention pond (20' below grade). The GC's grading contractor could not excavate further down to remove and replace the bad soil because there was no room on the property to layback the excavation walls. The area in need of treatment was approximately 1,500 square feet.

Repair Materials

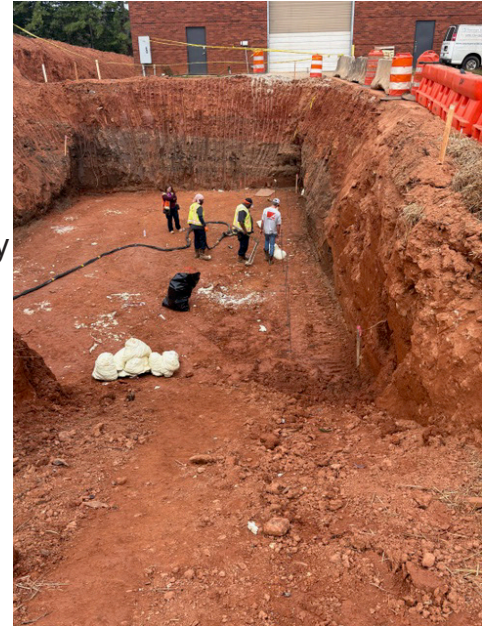
AP Lift 475 was chosen for the project because of its industrial strength and ability to compact soil and fill voids to increase load bearing capacity.

Procedures

AP Lift 475 was injected six feet deep on four-foot centers with adjoining rows offset two feet. This tight spacing ensured communication between injection points to provide maximum support, stabilize soils, and encapsulate organics. Material was injected at 30 pounds per injection rod. The soil showed signs of lift and fracturing using AP Lift 475 which was an indication that all voids were filled, soils were compacted and the area stabilized to support the design load.

Results

The job took two days to complete and used a total of 3,217 pounds of AP Lift 475 with over 100 injection points. The soil was lifted or fractured using AP Lift 475 which was an indication that all voids were filled, soils were compacted and the area stabilized to support the design load. The ability to quickly implement the grouting solution and the tremendous cost saving over a deeper excavation project resulted in the general contractor keeping the project on time and much less of a hit to the construction cost.



Contact Us Today • 770-452-0390 • SiteMixPressureGrouting.com