

CASE STUDY

SUBMAR®

TRUCK TERMINAL MSE WALL

Memphis, Tennessee
Submar Project 2746



BEFORE



AFTER

EXISTING CONDITIONS

The Memphis truck terminal was built on two levels adjacent to the Mississippi River. The upper-level tanks are connected to the truck rack via two separate pipe racks running down a steep slope. The slope between the two levels was approximately 2:1 slope. Poor soil quality and sparse vegetation contributed to the erosion. The pipe rack footers eventually became undermined and threatened the integrity of the racks.

SOLUTION

The slope was rebuilt using select backfill soils, a wire mesh facade, and a geogrid reinforcement system to stabilize the area. The design broke the long, steep slope into two separate slopes with a landing area in the middle. An internal drainage system was installed to convey drainage from the top half of the slope. A hydroseed mix of grasses and forbs was applied to the face of the wall to facilitate vegetative growth.

THE Exposed Pipeline Remediation Experts

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