

CASE STUDY

STITT ROAD

Beaver County, Pennsylvania
Submar Project 16023

SUBMAR®



BEFORE



AFTER

EXISTING CONDITIONS

A 10-inch natural gas pipeline crosses a tributary to Dilworth Run in Beaver County, Pennsylvania in a 25-foot wide right-of-way. The soil is composed of clay with rock in the channel bed and well-vegetated banks. A 6-inch abandoned pipeline is located downstream and a 4-inch drainage line is located upstream of the 10-inch pipeline. Headcutting in the stream has left shallow cover over the pipeline and exposed the abandoned pipeline for 16 feet.

SOLUTION

The site was dewatered using sandbag dams and pumps. The 6-inch abandoned pipeline was removed. Both banks and the streambed were graded, and a geotextile material was placed on top of the grade.

A Submar articulating concrete mat system was installed from high bank to high bank to armor the pipeline. All edges of the mat system were toed into anchor and flank trenches that were backfilled with existing material and rip rap. A subgrade rock grade control was installed downstream of the mat system to prevent headcutting. After final grading was performed, erosion control blanket and seed were placed on the disturbed areas.

THE Exposed Pipeline Remediation Experts

✉ submar@submar.com

☎ (800) 978-2627

🌐 www.submar.com