

## CASE STUDY

# MAD RIVER

Montgomery County, Ohio  
Submar Project 17645

# SUBMAR®



## BEFORE



## AFTER

## EXISTING CONDITIONS

A 50-foot wide pipeline right-of-way contained one 8-inch diameter pipeline inside of a 10-inch casing. The pipeline was exposed across the entire 130-foot Mad River crossing in Montgomery County, Ohio. The pipeline was also suspended over a 5-foot deep by 30-foot long scour hole. The river bottom and banks were composed of clay, sand, and gravel.

## SOLUTION

A divert, dewater, and construction plan was implemented in two phases due to the width of the river. For phase 1, 8-foot wide by 100-foot long water dams and sandbags were installed over the pipeline. The water dams were filled and the area inside the water dams was dewatered with pumps.

The channel bank and streambed were graded and anchor trenches were dug in preparation to install erosion control materials. A Submar articulating concrete mattress system was installed over geotextile fabric and the mats were banded together. A riprap subgrade and grade control were installed over geotextile fabric.

After phase 1 of the project was completed, the dams were removed and installed in the same manner on the opposite side for phase 2 of the project, which was completed in a similar fashion. After phase 2 was complete, final grading was performed, and seed and straw were placed over the disturbed areas to aid in a rapid return to preconstruction vegetative conditions.

THE Exposed Pipeline Remediation Experts

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