

CASE STUDY

CAJON DEADMAN WASHOUT

San Bernardino County, California
Submar Project 17269

SUBMAR®



BEFORE



AFTER

EXISTING CONDITIONS

A 14-inch products pipeline runs parallel to an interstate in San Bernardino County, California. A nearby river has meandered towards the pipeline. Significant rainfall and run-off water have eroded the bank and undercut the pipeline, leaving the line exposed for 60 feet at a height of 17 feet.

SOLUTION

The eroded bank of the riverbed was graded and built up with a compactable fill material. The pipeline was exposed, inspected, and recoated. Geotextile fabric and Pyramat 75 Turf Reinforcement Mat (TRM) were installed to stabilize the steep sloped riverbank. Both materials were locked into position with anchor trenches on all sides. Rip rap was installed along the toe of the riverbank to prevent future scour. Final grading was performed, seed and straw were placed on the disturbed area. During the second month after project completion, the site experienced an 11 inch rainfall in a 24 hour period, which resembled a 370-year storm. After this severe storm, the riverbank was intact and in stable condition as depicted in the top photograph.

THE Exposed Pipeline Remediation Experts

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