

MURRIETA CREEK, CALIFORNIA

Preventing flooding from arid creeks



Industry: Shoreline and waterways
Application: Arid and channel stabilization
Location: Temecula, California
Product: **PROPEX® Armormax®**

Challenge

PROPEX Armormax was selected to provide erosion and scour protection on the creek banks. The system consists of a High Performance Turf Reinforcement Mat (HPTRM) and earth anchors that provide resilient flood control for up to 75 years.

Overview

On October 27, 2000, the Energy and Water Development Appropriations Act of 2001 was signed into law, which directed the USACE to proceed with detailed engineering designs for the Murrieta Creek Flood Control, Environmental Restoration and Recreation Project. Historically, the cities of Murrieta and Temecula have experienced devastating flooding along Murrieta Creek. The purpose of this project was to prevent such flooding by conveying the 100-year flow within Murrieta Creek.

PROPEX Armormax helped to decrease sedimentation and pollutants and encouraged the infiltration of water back into the ground water table.

CASE STUDY

Preventing flooding from arid creeks

Maintaining water quality was a main concern because Murrieta Creek is recognized as one of the last high quality minimally disturbed riverine environments in Southern California.

Solution

PROPEX Armormax helped to decrease sedimentation and pollutants and encouraged the infiltration of water back into the ground water table. The system also promotes rapid root development for long-term vegetation, whereas rock riprap, can decrease streamside vegetation and adversely impact fish populations. Vegetation quickly established and the EAS has effectively protected against erosion and flooding.



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