

PROJECT OVERVIEW

The City of Santee is faced with the same problem as every other city and county with aging storm water infrastructure. At the busy intersection of Magnolia Avenue and Woodside Avenue, a large potential problem was looming just below the street. A 48" and a 54" storm water corrugated metal pipe that ultimately empties into the San Diego River was in need of replacement or rehabilitation. The city was concerned that a failure on a pipe of this diameter could result in a large sinkhole, causing the entire intersection to be shut down.

SOLUTION

The city chose GeoSpray mortar due to the limited amount of traffic disruption and the fact that this pipe is a direct line to the San Diego River. The city did not choose open cut because of the amount of disruption it would cause to this busy thoroughfare. The CIPP option was not chosen due to the environmentally sensitive nature of the nearby San Diego River. The city was concerned that the CIPP resin system could potentially harm the San Diego River Watershed, which is home to over 500,000 people, and at least 25 state and federally listed endangered and threatened plant and animal species.

- Day 1 :** Set up temporary by-pass of the storm water system.
- Day 2:** Clean the pipe and remove the excess debris.
- Day 3:** Begin applying the GeoSpray mortar to 320 linear feet of the 48" pipe.
- Day 4:** Finish applying the material on the 48" pipe.
- Day 5:** Begin applying the GeoSpray mortar to 700 linear feet of the 54" pipe.
- Day 6:** Finish applying the material on the 54" pipe.
- Day 7:** Clean up and remove temporary by-pass system.

RESULTS

Project was completed three days ahead of schedule and within budget.

PROJECT DETAILS

Location: Santee, CA

Application: Storm Sewer Rehabilitation

Client: City of Santee

Installation: September 2013

Product Used: Inland Pipe Rehab



A large potential problem was looming below the intersection of Magnolia Avenue and Woodside Avenue.



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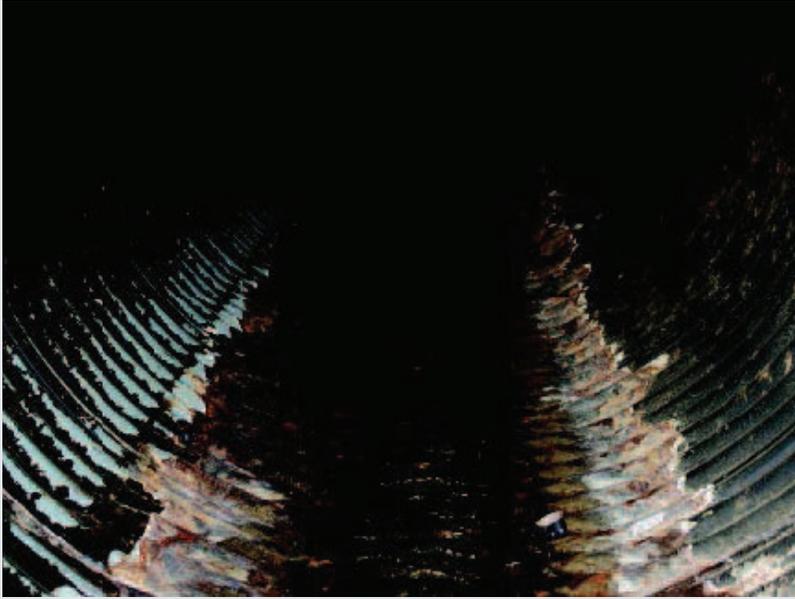
GEO SPRAY®

Geopolymer Mortar



CASE STUDY:

Storm Sewer Rehabilitation Santee, CA



Initial pipe condition showing corroded invert and flaking bitumen coating.



Spin casting application of GeoSpray mortar to existing CMP host pipe.



Minimal jobsite footprint - no road closures during the day.



Completed pipe.



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