

# **Almaden Valley Pipeline Renewal**

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**A condition assessment of a critical 78-inch-diameter water transmission main pipeline in Santa Clara Valley identified a high risk of failure.**

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**The assessment revealed that 1,800 feet of pipe segments, spanning 5 miles, required emergency renewal.**

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78 inch diameter pipeline required emergency renewal rotated



StrongPIPE®-V-Wrap™ Carbon Fiber System Installation rotated



Completed renewal rotated

## Project Overview

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- Emergency repairs to critical pipeline
- STRUCTURAL TECHNOLOGIES' StrongPIPE® V-Wrap™ Carbon Fiber System optimal solution to reduce downtime

A condition assessment of a critical 78-inch-diameter water transmission main pipeline in Santa Clara Valley identified a high risk of failure. The assessment revealed that 1,800 feet of pipe segments, spanning 5 miles, required emergency renewal.

STRUCTURAL TECHNOLOGIES presented several solutions. Given the Owner's preference to utilize existing access points and minimize impacts on system hydraulics, STRUCTURAL TECHNOLOGIES' StrongPIPE® V-Wrap™ Carbon Fiber System was the optimal solution.

STRUCTURAL, an exclusive licensee of STRUCTURAL TECHNOLOGIES, installed the V-Wrap™ system. This non-invasive repair method avoided excavation and successfully restored the pipeline to service within 10 weeks. The solution offered a service life of over 50 years and was completed with minimal downtime compared to traditional replacement methods.

## PROJECT INFO

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- **Owner:** Santa Clara Water District
- **Location:** Santa Clara Valley
- **Specialty Contractor:** STRUCTURAL
- **Engineer of Record:** Simpson Gumpertz & Heger
- **General Contractor:** Con-Quest Contractors, Inc.
- **Material Provider:** STRUCTURAL TECHNOLOGIES

## SOLUTIONS

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[StrongPIPE® V-Wrap™ Carbon Fiber](#)

