

# ALMADEN VALLEY PIPELINE FY22 EMERGENCY FY22 CFRP REPAIR PROJECT

Notice of Completion of Construction Contract

May 10, 2022



# Presentation Topics

- ▶ Project Objective and Location
- ▶ Project Construction Costs
- ▶ Construction Photos



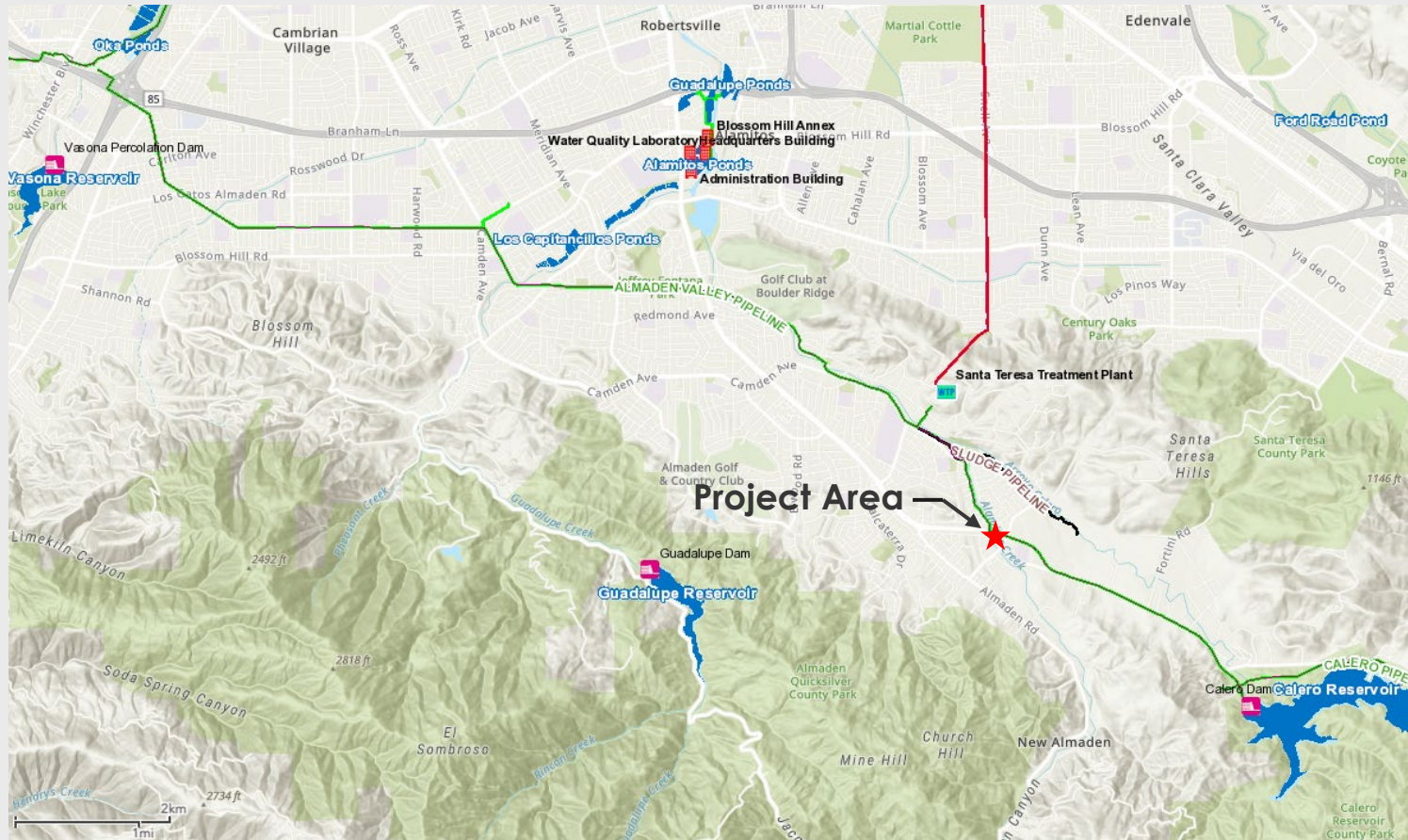
# Project Objective

- ▶ The objective of the Project was to repair distressed sections of Prestressed Concrete Cylinder Pipe (PCCP) that were discovered on Almaden Valley Pipeline.
- ▶ Distressed PCCP section were repaired by applying multiple layers of reinforced carbon fiber to the inside surface of the pipe.



# Project Location

## Almaden Valley Pipeline – Santa Clara County



Santa Clara Valley  
Water District



# Presentation Topics

- ▶ Project Description, Objective, and Location
- ▶ Project Construction Costs
- ▶ Construction Photos



# Project Costs

- ▶ Construction:
  - ▶ \$1,950,000 – Contract Award Amount
  - ▶ \$ (286,485.32) – Contract Change Orders
  - ▶ \$ 1,663,514.68 – Final Contract Amount  
(15% Decrease)



# Presentation Topics

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# Construction Photos

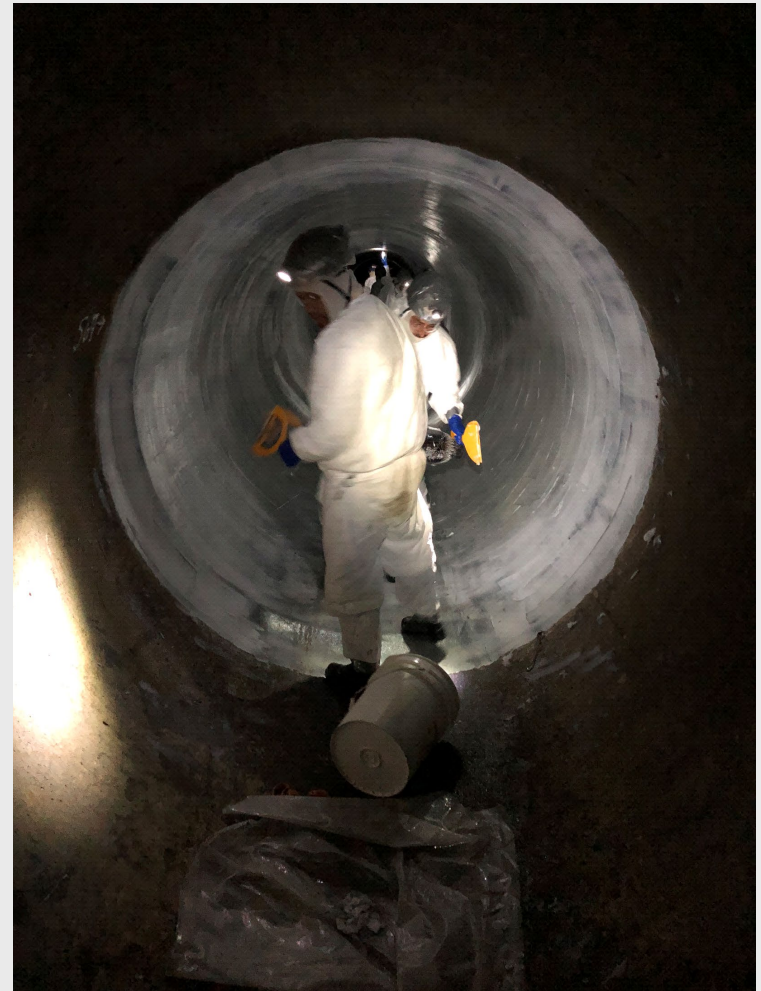


Dehumidifier and heater for installation of carbon fiber. Sound Walls installed for neighborhood quietness.





# Construction Photos

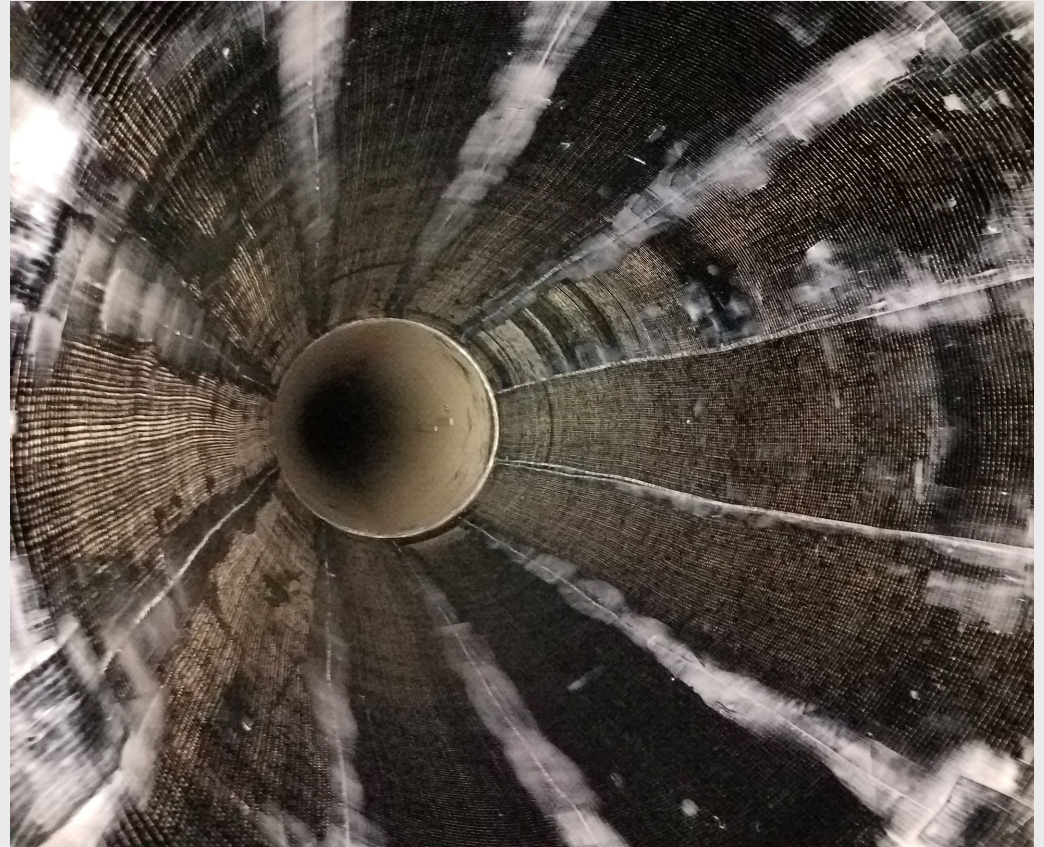


Installation of Carbon Fiber and  
Thickened Epoxy





# Construction Photos



Hoop and Longitudinal Layer of  
Carbon Fiber





# Construction Photos



Termination ring at joint  
of repaired pipe



Epoxy cement mortar  
covering termination ring



# Construction Photos



Repaired Pipe Section

Santa Clara Valley  
Water District



Attachment 4  
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