



Hale Creek Pilot Enhancement Project

Presented by: Zoey Diggory, Senior Water Resources Specialist

Project Location



Project Objectives

Compliance: Comply with a Regional Board permit condition

Geomorphic Stability: Promote stable geomorphic conditions allowing natural sediment transport and channel development

Enhanced Habitat: Enhance habitat and promote riparian diversity

Flood Protection: Provide flood protection to the community

Groundwater Recharge: Restore stream recharge capabilities

Learning: (1) Assess the effectiveness of restoring creek functions and beneficial uses by replacing concrete within a constrained, developed environment; and (2) assess the long-term maintenance needs of the restored channel in comparison to a concrete channel



Construction Elements



- Property encroachments removed
- Storm drain, gas line, and power line relocated
- 400 yd³ of concrete removed
- Deeper and wider channel excavated
- 1255 ft of sheet pile and soldier pile walls built
- Bankfull channel, planting benches, and riffle grade control structures constructed
- Erosion control materials, irrigation system, and native plantings installed
- Bridge and access ramps replaced
- Fence replacement
- Staging area grading, paving, and repairs



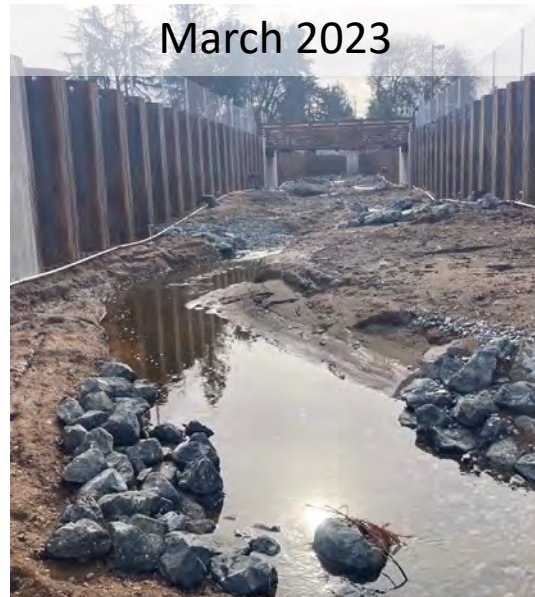
Construction Schedule & Cost

Task	Date
Design Completion	12/1/2020
Right of Way Acquisition	7/2020-4/2022
Construction Contract Award	5/10/2022
In-Channel Construction Completion	11/18/2022 (vs. 10/15/2022)
Top of Bank Construction Completion	1/20/2023

- Engineer's Estimate: \$3M in planning, \$4M in 2020, \$4.5M in 2021
- Contractor Bid: \$6.38M (lowest by \$768k)
- Construction Cost: \$6.5M

What Happens Next

- 10-years of monitoring and reporting
- Adaptive management of constructed channel
- Vegetation management and plant replacement
- Long-term operations and maintenance



Questions?

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