1.2 North Coast System Majors Diversion Retrofit

Current Status: Project Definition / Feasibility

Project Need

The Majors Creek Diversion was originally constructed as a stone masonry dam near the end of the 19th century and retrofit and replaced as a conventional reinforced concrete structure in 1924. The dam directs water from Majors Creek into existing gravity pipelines which convey surface water to the Coast Pump Station and ultimately to the Graham Hill Water Treatment Plant.

Recent assessments have shown that the facility is in "good structural condition." However, multiple deficiencies were identified including: sediment accumulation, limited remote operating & monitoring capabilities, and access & safety concerns. In addition, a project at this site would modernize the existing fish screening.

Background

The City of Santa Cruz Water Department (SCWD or City) contracted with Black & Veatch in 2018 to assess the condition of the diversion and develop and compare retrofit alternatives aimed at improving function and reliability. The goal of the alternatives analysis and concept development is to formulate viable improvements at the diversion that can achieve operational, regulatory, and performance objectives.

Project Description

This project will follow similar steps as the Laguna Diversion Retrofit project including development of a problem statement (purpose and need) and alternatives analysis. This project is closely tied to the North Coast Pipeline project.

Project Benefits

Benefits of this project include:

- Fish screening improvements
- Sediment management
- Remote operation & monitoring
- Improved accessibility & safety
- Other upgrades (e.g. future pumping & pipe alignment changes)

Escalated Estimate

Construction	$ 2,900,000
Other Costs*	$ 2,430,000
Total Project	$ 5,330,000

* Other costs may include design, engineering services during construction, construction management, construction contingency, environmental, permitting, legal, land transaction, city administration, and program management costs.

Potential Funding Source

TBD: Bonds, Grants, Loans, or Pay As You Go

Current Schedule Start-Finish Dates

Planning	Design	Construction	Post Construction
JUL 2018 JUL 2019	MAR 2026 AUG 2027	DEC 2027 JAN 2030	JAN 2030 FEB 2031

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