

Water Resources Stewardship Capital Improvements

WATER RESOURCES STEWARDSHIP OVERVIEW

Valley Water plans, designs and constructs various capital projects to meet the Board's Ends Policy E-4, "There is water resources stewardship to protect and enhance watersheds and natural resources and improve the quality of life in Santa Clara County." These projects may fulfill environmental enhancement, mitigation, or stewardship goals and priorities.

Valley Water has placed an emphasis on stewardship since 1999 when Valley Water's Board of Directors adopted a mission and policies that added a focus on environmental stewardship. In 2001, the California legislature added environmental stewardship to Valley Water's purpose. Specifically, Valley Water's environmental stewardship activities focus on these three areas:

- Healthy creek and bay ecosystems
- Clean, safe water in creeks and the bay
- Improved quality of life through trails, open space and water resources management

Valley Water's stewardship work is extensive. Actions to protect the environment are woven into all we do. Some of Valley Water's stewardship accomplishments since 2000 are:

- Rehabilitated or restored 90 acres of riparian habitat and 500 acres of tidal wetland habitat
- Provided funding for 92 projects that resulted in 71 miles of public access
- Removed over 15,000 lbs of mercury from the creeks in 2017-2018
- Removed more than 20 fish passage impediments
- In conjunction with the Open Space Authority, acquiring 1,300 acres of land for preservation of California Red Legged Frog and California Tiger Salamander habitat
- Completed a draft of existing conditions analysis of fish passage barriers

Environmental Enhancement & Stewardship Projects

The voters in Santa Clara County have supported Valley Water's environmental enhancement and stewardship efforts, including the creation or restoration of tidal or riparian habitat, by approving three special parcel taxes. In 2000, voters approved the Clean, Safe Creeks and Natural Flood Protection Plan (Clean, Safe Creeks). The Clean, Safe Creeks Plan was replaced by the Safe, Clean Water and Natural Flood Protection Program, which voters approved in 2012 (2012 Safe, Clean Water). In 2020, voters approved the renewal of the Safe, Clean Water Program, which replaced the 2012 Safe, Clean Water Program in entirety. Unlike the first two special parcel taxes, which were set to sunset in 15-years from the date of implementation, the renewed Safe, Clean Water Program will continue until repealed by voters or until the Board determines the funding is no longer needed.

The renewed Safe, Clean Water Program - Fund 26, along with the Watershed and Stream Stewardship (1% ad valorem property tax) - Fund 12 and the Water Utility Enterprise - Fund 61, are the primary funding sources for environmental enhancement and stewardship projects.

For environmental enhancement and stewardship projects under the renewed Safe, Clean Water Program that have not yet been fully defined, the CIP Planning Process will be conducted to allocate the Safe, Clean Water Program funding to the enhancement opportunities that meet Program Key Performance Indicators (KPIs).

Environmental enhancement projects are constructed at the direction of the Board either to meet the Safe, Clean Water Program obligations or to meet other Board priorities.

Stewardship projects are implemented to promote water quality awareness; reduce pollutants in streams; support additional trails, parks and open space; support creek side recreation; and reduce greenhouse gases. Stewardship projects are implemented as required by

Water Resources Stewardship Capital Improvements

the Safe, Clean Water Program or at the discretion of the Board when reasonable and appropriate. These projects are often accomplished in partnership with or support of other agencies.

Major Capital Improvements Identified in the CIP

- Watershed Habitat Enhancement Design & Construction
- Stevens Creek Fish Passage Enhancement
- Hale Creek Enhancement Pilot Study
- Almaden Lake Improvements
- Salt Ponds A5-11 Restoration
- Safe, Clean Water Program Fish Passage Improvements
- Ogier Ponds Separation from Coyote Creek

Feasibility Studies

In July 2016 the Board provided direction for increased visibility and accelerated delivery of environmental stewardship projects to meet Board priorities. Valley Water has dedicated additional full-time positions to complete the feasibility studies. These feasibility studies will determine the viability of projects that are of interest to the community.

Major Capital Improvements Identified in the CIP

- Watershed Habitat Enhancements

CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February.

The Board then authorizes release of the Draft CIP to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the Final CIP in May.

Projects under the Safe, Clean Water Program have funding allocations and if additional funds are required, the Board may direct that other available revenue be used

to implement the proposed projects. Environmental enhancement and stewardship projects not included in the Safe, Clean Water Program are implemented at the discretion of the Board. The inclusion of these projects in the FY 2022-26 CIP has been approved by the Board.

Financial analysis of the following funding sources for Water Resources Stewardship capital improvements determined that the funding needs for approved projects can be met:

- Watershed and Stream Stewardship Fund
- Safe, Clean Water Fund
- Water Utility Enterprise Fund

It is understood that new capital projects have an impact on future operations and maintenance, and this is included in the financial analysis. Periodically throughout the project, projections of this impact are updated to reflect changes to the project elements.

Significant Project Updates from the Prior Year

- The Almaden Lake Improvements Project increased in cost by \$26 million as a result of the revised 60 percent design and construction cost estimates to reflect the use of piped water, as opposed to creek water. The project team plans to take the Final Environmental Impact Report to the Board in the Spring 2021.
- SCW Fish Passage Improvements, which once included Evelyn, Singleton and the Bolsa Road Fish Passage Projects, has been revised to now only include Singleton and Evelyn. The Bolsa Road Fish Passage Project has been separated out into a new project. The total cost of all three projects combined has increased by \$7.6 million since production of the FY2021-25 CIP.



Water Resources Stewardship Capital Improvements

The following table is a project funding schedule for water resources stewardship capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2020-21.

Water Resources Stewardship Capital Improvements (\$K)

Project Number	PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
ENVIRONMENTAL ENHANCEMENT & STEWARDSHIP											
Lower Peninsula Watershed											
00294001s	Stevens Creek Fish Passage Enhancement	850	-	-	-	2,448	6,555	3,690	3,637	2,248	19,428
26164001	Hale Creek Enhancement Pilot Study (D6.1)	4,853	172	-	3,824	-	-	-	-	-	8,849
Guadalupe Watershed											
26044001	Almaden Lake Improvements (D4.1a)	5,707	1,710	545	9,325	20,902	19,681	775	31	67	58,198
Coyote Watershed											
00C40400s	Watershed Habitat Enhancement Design & Construction	-	-	-	-	2,184	2,282	2,385	11,680	49,802	68,333
Multiple Watersheds											
20444001s	Salt Ponds A5-11 Restoration	5,630	171	243	585	1,268	435	-	-	-	8,089
26044002	SCW Fish Passage Improvements (D4.3; Evelyn, Singleton)	5,328	-	1	979	211	-	-	-	-	6,518
26044004	Bolsa Road Fish Passage Improvement (D6.2)	-	-	-	2,205	4,385	-	-	-	-	6,590
26C40370	SCW Implementation: Fish Passage Improvements (D4)	-	-	-	-	2,127	1,184	1,000	1,250	1,252	6,813
26044003	Ogier Ponds Separation from Coyote Creek (D4.1b)	1,598	-	512	1,050	1,482	-	-	-	-	4,130
ENVIRONMENTAL FEASIBILITY STUDIES											
62044001	Watershed Habitat Enhancement Studies	3,170	1,034	-	-	-	-	-	-	-	4,204
ENVIRONMENTAL MITIGATION											
62184001	SMP Mitigation, Stream and Watershed Land Preservation	16,769	-	1	-	-	-	-	-	-	16,769
TOTAL		43,905	3,087	1,302	17,968	35,007	30,137	7,850	16,598	60,027	214,579

 FY 2020-21 Funds to be reappropriated

The following table shows funding requirements from each funding source for enhancement capital improvements.

Water Resources Stewardship - Funding Sources (\$K)

Fund Number	FUND NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
61	Water Utility Enterprise Fund	765	-	-	-	3,876	5,008	2,428	11,680	30,926	54,683
12	Watershed Stream Stewardship Fund	25,106	1,205	1	585	2,024	4,264	3,647	3,637	21,124	61,592
26	Safe, Clean Water and Natural Flood Protection Fund	18,034	1,882	1,301	17,383	29,107	20,865	1,775	1,281	7,977	98,304
TOTAL		43,905	3,087	1,302	17,968	35,007	30,137	7,850	16,598	60,027	214,579

 FY 2020-21 Funds to be reappropriated

Water Resources Stewardship Capital Improvements

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Project	Stevens Creek Fish Passage Enhancements
Program	Water Resources Stewardship - Environmental Enhancement
Project No.	00294001s
Contact	John Bourgeois jbourgeois@valleywater.org



Example of a fish ladder to be modified or reconstructed for improved fish passage

PROJECT DESCRIPTION

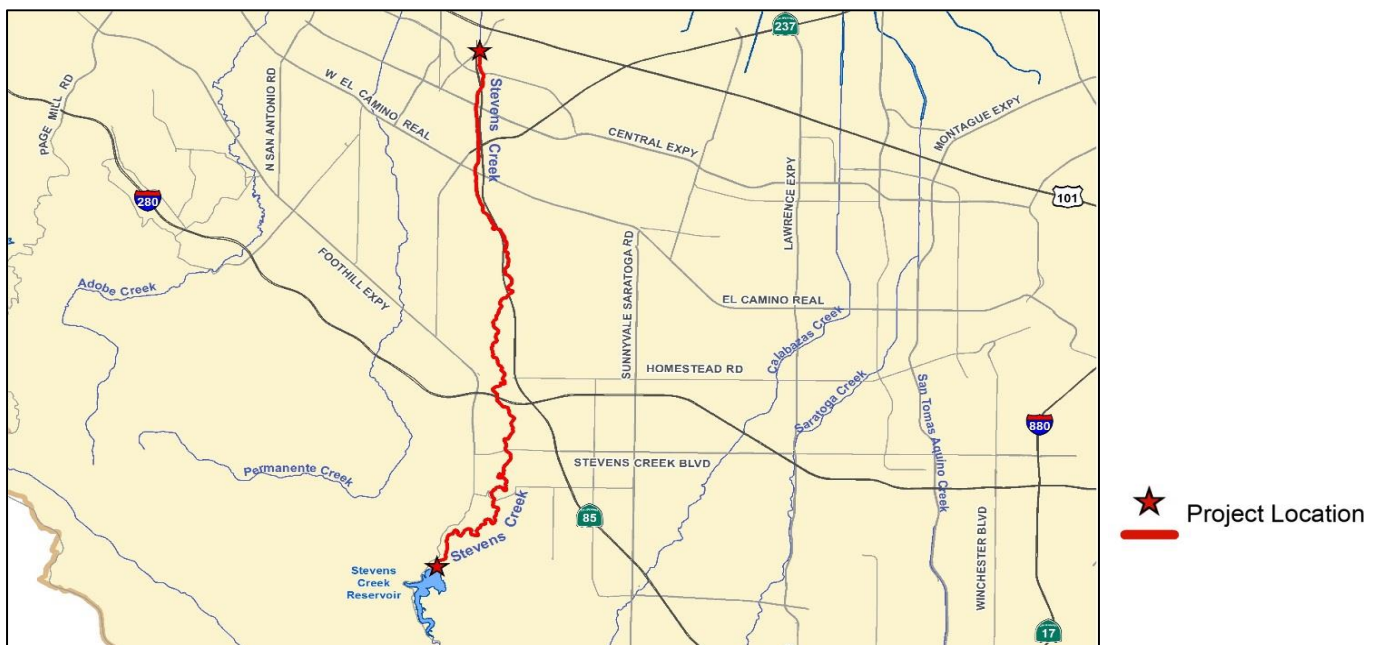
This project plans, designs, and constructs improvements to the Moffett Boulevard fish ladder to improve fish passage at Stevens Creek Dam to accomplish the following objectives:

- Restore and maintain a healthy steelhead trout population in the Stevens Creek watershed.
- Provide adequate passage for adult steelhead trout to reach suitable spawning and rearing habitat and for out-migration of juveniles.

This project is accounted for in the following:

- 00294001 Fish Passage Planning
- 00C40145 Moffett Boulevard Fish Ladder
- 62C40403 Stevens Creek Fish Barrier Removal Construction

PROJECT LOCATION



SCHEDULE & STATUS

July 2008 to June 2025

Planning phase is complete.

Project is on hold.

Phase	Cost	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
Plan	824											
Permits	122											
Design	2,970											
Construct	13,240											
Closeout	80											
	17,262											

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	850
with inflation	850	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	1,370	1,660	0	0	0	3,030
with inflation	0	0	0	1,496	1,814	0	0	0	3,310
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	352	1,110	40	0	0	1,502
with inflation	0	0	0	384	1,215	48	0	0	1,647
62C40403-Stevens Ck Fish Barrier Removal Construction	0	0	0	520	3,200	3,200	3,100	1,860	11,880
with inflation	0	0	0	568	3,526	3,642	3,637	2,248	13,621
TOTAL	850	0	0	2,242	5,970	3,240	3,100	1,860	17,262
with inflation	850	0	0	2,448	6,555	3,690	3,637	2,248	19,428

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	0	1,496	1,814	0	0	0	3,310
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	384	1,215	48	0	0	1,647
62C40403-Stevens Ck Fish Barrier Removal Construction	0	0	0	0	568	3,526	3,642	3,637	2,248	13,621
TOTAL	850	0	0	0	2,448	6,555	3,690	3,637	2,248	19,428

FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund–10%	1,943
SCVWD Water Utility Enterprise Fund–90%	17,485
Total	19,428

OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

Project	Hale Creek Enhancement Pilot Study (D6.1)
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	26164001
Contact	Rechelle Blank rblank@valleywater.org



Reach to be modified downstream of 7th Day Adventist foot bridge between Marilyn Drive and North Sunshine Drive

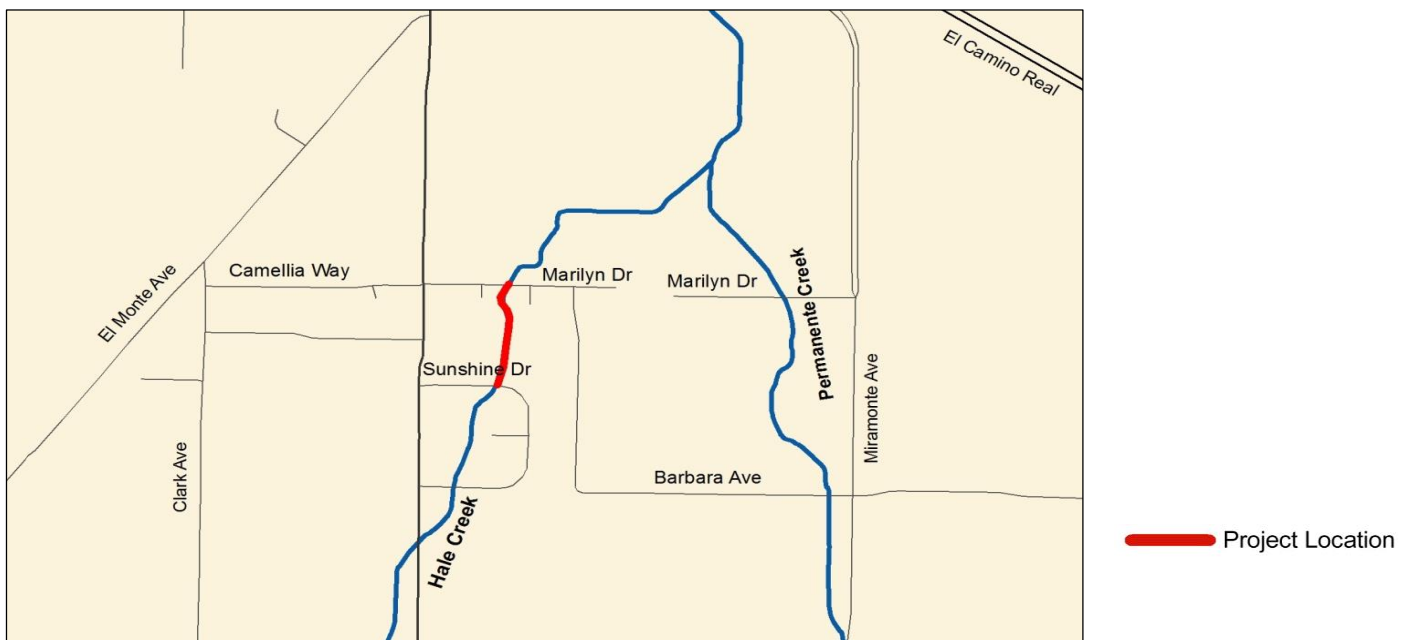
PROJECT DESCRIPTION

This pilot project plans, designs, and constructs improvements to an approximately 650-foot long reach in Hale Creek to accomplish the following objectives:

- Provide flood protection and enhance habitat.
- Restore stream recharge capability to a concrete-lined portion.
- Remove existing concrete channel and replace with a vegetated soft-bottom channel, to improve and restore the natural functions of the stream.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D6. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION



SCHEDULE & STATUS

July 2014 to June 2022

Phase	Cost	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
Plan	39											
Permits	138											
Design	1,972											
Construct	6,681											
Closeout	10											
	8,849											

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26164001-Hale Creek Enhancement Pilot Study (D6.1)	2,136	2,889	3,824	0	0	0	0	0	8,849
with inflation	2,136	2,889	3,824	0	0	0	0	0	8,849

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26164001-Hale Creek Enhancement Pilot Study (D6.1)	4,853	172	0	3,824	0	0	0	0	0	8,849

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

SCVWD Safe, Clean Water Fund	8,849
Other Funding Sources	0
Total	8,849

OPERATING COST IMPACTS

Operating cost impacts will be determined at the completion of the design phase.

USEFUL LIFE: Not available

Project	Almaden Lake Improvements (D4.1a)
Program	Water Resources Stewardship – Environmental Enhancement
Project No.	26044001
Contact	Rechelle Blank rblank@valleywater.org



A southern view of Almaden Lake, through which Alamitos Creek flows

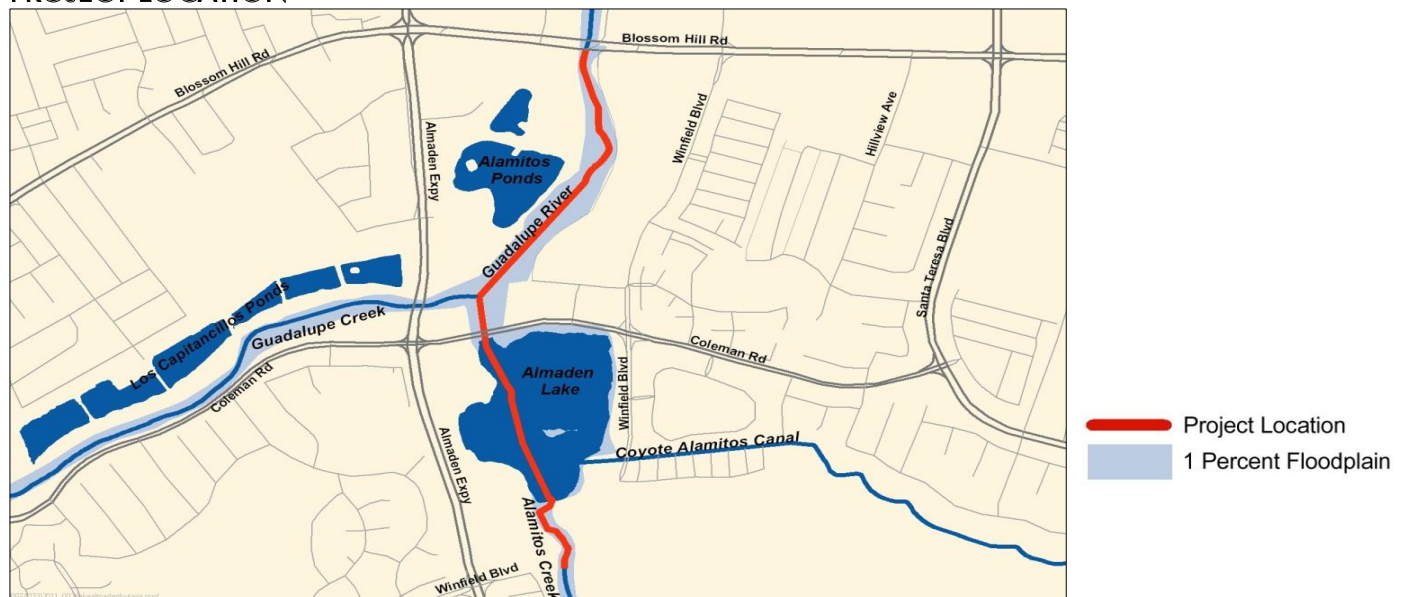
PROJECT DESCRIPTION

The project will separate Alamitos Creek from Almaden Lake and restore Alamitos Creek's stream function within the footprint of Almaden Lake. The goals are to improve water quality and physical habitat for steelhead and other anadromous fish by separating the creek from the lake while incorporating the principle of geomorphic design and to create a self-sustaining channel that requires little maintenance to keep it viable for fisheries and wildlife benefits. Benefits of this project will be the creation of channel complexity in the restored stream channel such as instream riffle-pool habitat, cover for rearing fish, gravel to support spawning and plantings that will provide numerous ancillary wildlife benefits; reduction of high water temperatures released from Almaden Lake into Alamitos Creek; and removal of entrainment, predatory and methylmercury impacts to anadromous fish from Almaden Lake. The objectives are as follows:

- Separate Alamitos Creek from Almaden Lake.
- Reduce thermal impediment to migration of anadromous fish.
- Remove entrainment and impacts from predatory species to anadromous fish.
- Reduce mercury concentration in target fish to meet applicable water quality objectives.
- Minimize impacts to recreational features.

This project is funded for the planning and design phase from the Safe, Clean Water (SCW), Priority D4.1a. Funding for construction may also be available from the Safe, Clean Water Program. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION



SCHEDULE & STATUS

July 2011 to December 2027

Phase	Cost	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
Plan	2,462											
Permits	1,214											
Design	4,597											
Construct	47,723											
Closeout	10											
	56,467											

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26044001-Almaden Lake Improvements (D4.1a)	5,332	1,540	9,870	20,000	19,000	650	25	50	56,467
with inflation	5,332	1,540	9,870	20,902	19,681	775	31	67	58,198

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26044001-Almaden Lake Improvements (D4.1a)	5,707	1,710	545	9,325	20,902	19,681	775	31	67	58,198

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

SCVWD Safe,Clean Water Fund	58,198
Other Funding Sources	0
Total	58,198

OPERATING COST IMPACTS

Annual post-construction operating costs for this project are anticipated at approximately \$270,000 starting in FY25.

USEFUL LIFE: 100 Years

Project	Watershed Habitat Enhancements Design & Construction
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	00C40400s
Contact	Rechelle Blank rblank@valleywater.org



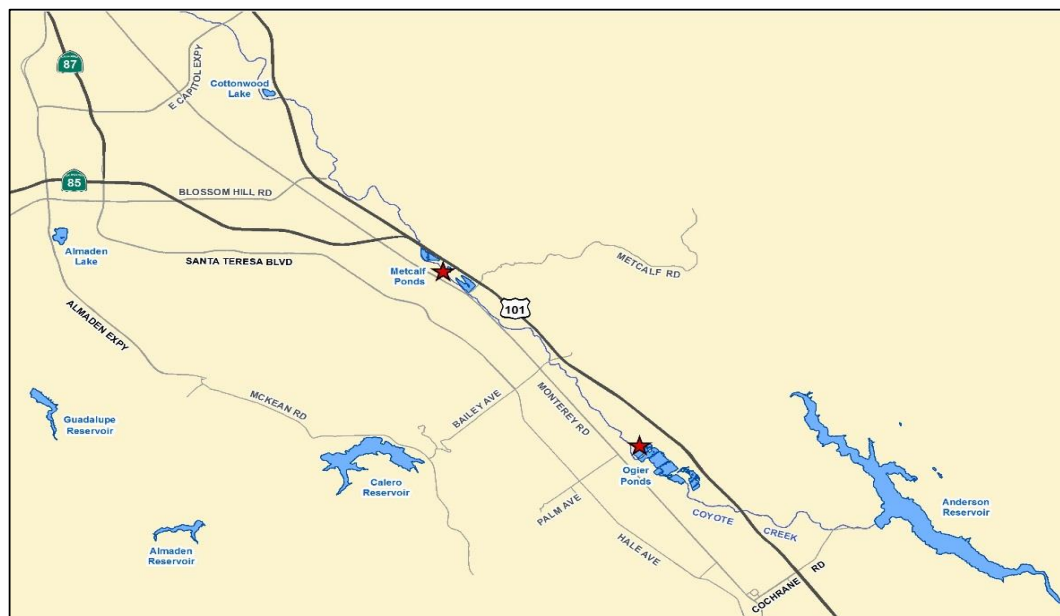
Aerial view looking downstream of the Ogier Pond complex

PROJECT DESCRIPTION

This project provides for future design and construction of possible habitat enhancements that may occur at Metcalf Ponds along Coyote Creek if feasible projects are identified by the feasibility study currently underway in Project 62044001, and the Board approves proceeding with the work. It also provides funding for possible future construction at Ogier Ponds along Coyote Creek, if the Board approves implementing a project being planned under project 26044003. Funding for this project is contingent on a successful Fisheries and Aquatic Habitat Collaborative Effort settlement. This project accomplishes the following objective:

- Enhance a healthy steelhead trout and salmon population in the Coyote Creek Watershed.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2023 to June 2031

Phase	Cost	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
Plan	-											
Permits	2,000											
Design	11,000											
Construct	40,000											
Closeout	-											
	53,000											

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
95C40400 Project 1 Design & Construction (e.g. Metcalf Ponds)	0	0	0	2,000	2,000	2,000	10,000	10,000	26,000
with inflation	0	0	0	2,184	2,282	2,385	11,680	12,049	30,580
00C40401s Project 2 Construction (e.g. Ogier Ponds)	0	0	0	0	0	0	0	27,000	27,000
with inflation	0	0	0	0	0	0	0	37,753	37,753
TOTAL	0	0	0	2,000	2,000	2,000	10,000	37,000	53,000
with inflation	0	0	0	2,184	2,282	2,385	11,680	49,802	68,333

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
95C40400 Project 1 Design & Construction (e.g. Metcalf Ponds)	0	0	0	0	2,184	2,282	2,385	11,680	12,049	30,580
00C40401s Project 2 Construction (e.g. Ogier Ponds)	0	0	0	0	0	0	0	0	37,753	37,753
TOTAL	0	0	0	0	2,184	2,282	2,385	11,680	49,802	68,333

FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	49,456
SCVWD Watershed and Stream Stewardship Fund	18,877
SCVWD Safe, Clean Water Fund	0
Total	68,333

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs for routine maintenance of the channel. The amount of the increase will be developed in the design phase, when adequate information on the staff-recommended alternative is available.

USEFUL LIFE: 50 years

Project	Salt Ponds A5-11 Restoration (D8)
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	20444001s
Contact	John Bourgeois jbourgeois@valleywater.org



View of one of the former salt evaporation facilities near Alviso

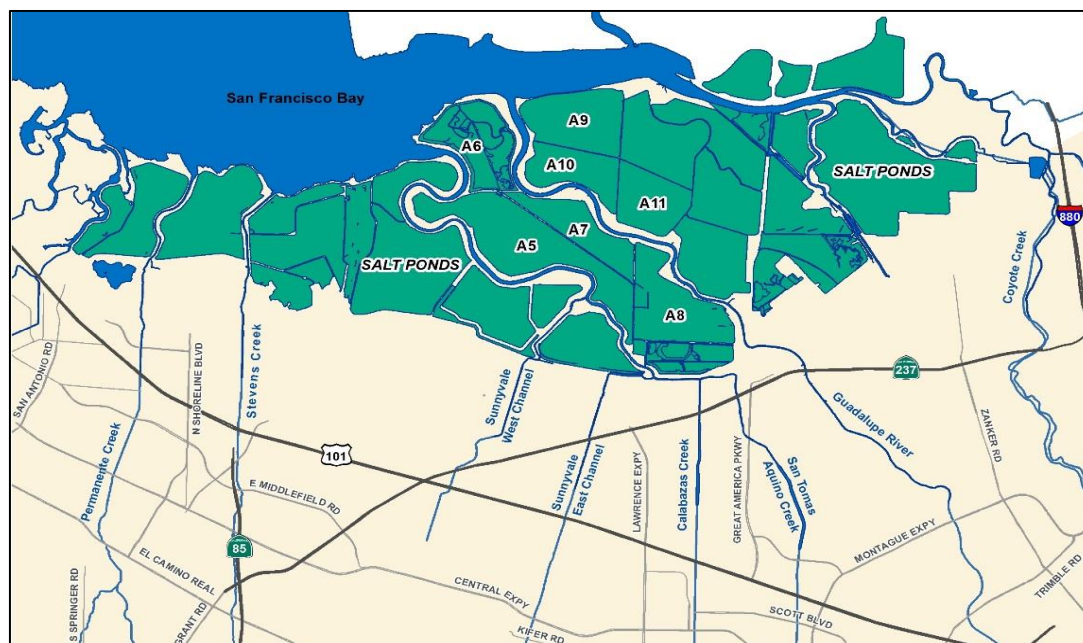
PROJECT DESCRIPTION


This project plans, designs, and constructs improvements to the South Bay Salt Ponds to accomplish the following objectives:

- Realign Calabazas and San Tomas Creeks to flow directly into Pond A8.
- Meet permitting requirements for the creek's realignment or further restoration efforts.
- Fully open the Pond A8 Notch to increase tidal flow into the pond.
- Restoration of Ponds A5 through A11 of the Alviso Complex.
- Improve or construct roads at new placement sites.
- Restore the South Bay Salt Ponds to improve wildlife habitat and protect residents from tidal flooding.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D8. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION



 Project Location

SCHEDULE & STATUS

July 2013 to June 2024

Phase	Cost	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
Plan	5,194											
Permits	171											
Design	702											
Construct	1,651											
Closeout	5											
	7,723											

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
20444001 - Salt Ponds A5-11 Restoration	4,814	439	585	1,190	390	0	0	0	7,418
with inflation	4,814	439	585	1,268	435	0	0	0	7,542
26444003 - South Salt Ponds Restoration (D8)	281	24	0	0	0	0	0	0	305
with inflation	281	24	0	0	0	0	0	0	305
TOTAL	5,095	463	585	1,190	390	0	0	0	7,723
with inflation	5,095	463	585	1,268	435	0	0	0	7,847

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
20444001 - Salt Ponds A5-11 Restoration	5,082	171	0	585	1,268	435	0	0	0	7,542
26444003 - South Salt Ponds Restoration (D8)	548	0	243	0	0	0	0	0	0	548
TOTAL	5,630	171	243	585	1,268	435	0	0	0	8,090

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately \$243,000.

Excess funding will be returned to reserves upon the end of the project.

FUNDING SOURCES

(in thousands \$)

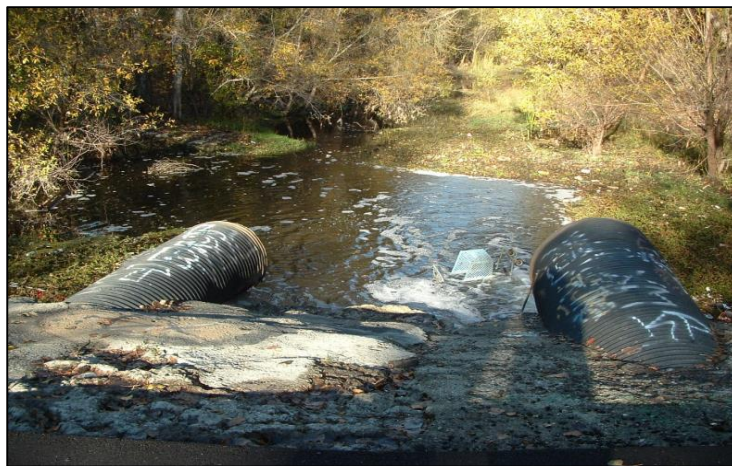
SCVWD Watershed and Stream Stewardship Fund	7,542
SCVWD Safe, Clean Water Fund	548
Other Funding Sources	0
Total	8,090

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately \$4 million every three years, beginning in FY24, by reducing on-going sediment removal.

USEFUL LIFE: Not Available

Project	SCW Fish Passage Improvements (D4.3)
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	26044002
Contact	John Bourgeois jbourgeois@valleywater.org



Fish barrier across Coyote Creek at Singleton Road

PROJECT DESCRIPTION

This project plans, designs and constructs improvements for two high priority fish barriers in Santa Clara County. Valley Water has partnered with the City of San José to remove the fish passage barrier at the city-owned Singleton Road crossing on Coyote Creek near Capitol Expressway. The project will remove the barrier and restore a free-flowing condition for Coyote Creek providing migratory fish access to approximately 18 miles of creek habitat. The Evelyn Bridge Road project was completed in November 2015 to remove a migratory fish passage barrier that redirects high flow events leaving the channel dry under the bridge and downstream of the fish ladder. Removal of the barrier under Evelyn Bridge provided nearly 9 miles of creek habitat along Stevens Creek. The project also contributed funds for planning and design of the Bolsa Road Fish Passage Project, which originated under this project to remove a fish passage impediment at the Bolsa Road railroad bridge. During the design phase, this project was extracted from the fish passage project because geomorphic design features were identified to restore bank stability and improve stream function that better aligned with Project D6 under the Safe, Clean Water Program.

- Planning, design and construction for a passage impediment at the Evelyn Bridge preventing upstream/downstream movement of steelhead in the Stevens Creek watershed. Remediation of this barrier will facilitate movement to 8.8 miles of higher quality upstream habitat and allow for out-migrant fish to access San Francisco Bay unimpeded. (Completed in 2016)
- Execute a partnership agreement to provide technical support to the City of San Jose for removal of the Singleton Road low water crossing in Coyote Creek. Removal of the fish passage barrier will provide migratory fish access to approximately 18 miles of creek habitat upstream from the site and will allow for unimpeded access of out-migrant fish through the site. An interim project will install a temporary flatcar bridge to meet these objectives. The City of San Jose will continue to seek funding for the permanent bridge solution.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D4.3. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2015 to June 2023

Phase	Cost	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
Plan	283											
Permits	356											
Design	1,824											
Construct	3,974											
Closeout	-											
	6,500											

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26044002-SCW Fish Passage Improvements (D4.3)	3,397	1,930	980	193	0	0	0	0	6,500
with inflation	3,397	1,930	980	211	0	0	0	0	6,518

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26044002-SCW Fish Passage Improvements (D4.3)	5,328	0	1	979	211	0	0	0	0	6,518

FUNDING SOURCES

(in thousands \$)

SCVWD Safe, Clean Water Fund	6,518
Other Funding Sources	0
Total	6,518

OPERATING COST IMPACTS

TBD

USEFUL LIFE: 50 Years

Project	Bolsa Road Fish Passage Improvements (D6.2)
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	26044004
Contact	Rechelle Blank rblank@valleywater.org



Removal of the Bolsa Road fish barrier will allow fish to travel upstream

PROJECT DESCRIPTION

This project removes a fish passage impediment at the Bolsa Road railroad bridge while incorporating geomorphic design features to restore bank stability and improve stream function. The project will accomplish the following objectives:

- ♦ Remediation of the fish passage impediment will allow access to approximately 22 miles of higher quality upstream habitat in the Uvas Watershed, as well as unimpeded access for out-migrant fish through the project site. A riffle pool system extending approximately 1,700 feet downstream of the Union Pacific Railroad bridge will also include geomorphic design features to restore bank stability and improve stream function.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D6.2. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2015 to December 2023

Phase	Cost	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
Plan	-											
Permits	67											
Design	268											
Construct	5,962											
Closeout	50											
	6,347											

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26044004-Bolsa Road Fish Passage Improvements (D6.2)	0	0	2,205	4,142	0	0	0	0	6,347
with inflation	0	0	2,205	4,385	0	0	0	0	6,590

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26044004-Bolsa Road Fish Passage Improvements (D6.2)		0	0	2,205	4,385	0	0	0	0	6,590

FUNDING SOURCES

(in thousands \$)

SCVWD Safe, Clean Water Fund	6,590
Other Funding Sources	0
Total	6,590

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$20,000 per year beginning in FY23.

USEFUL LIFE: 50 Years

Project	SCW Implementation: Fish Passage Improvements (Future D4)
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	26C40370
Contact	John Bourgeois jbourgeois@valleywater.org



This project seeks to help restore populations of native fish species, such as steelhead trout by removing impediments to the passage of fish for spawning

PROJECT DESCRIPTION

This project is a placeholder for future capital projects that have not been fully defined. The project(s) will implement the renewed Safe Clean Water (SCW) objectives for Project D4 Fish Habitat and Passage Improvement projects that remove barriers to fish passage. Funds will be moved from this placeholder into projects once they have been defined and vetted to ensure they meet the following program objectives:

- ♦ Improve habitat and passage for Steelhead and other native fish of Santa Clara County.

PROJECT LOCATION

No map is provided for this project

SCHEDULE & STATUS

July 2022 to June 2032

Data provided is based on preliminary information. Specific projects identified to move forward will require further refinement. A Phase schedule will be defined in the planning phase.

Phase	Cost
Plan	-
Design	-
Construct	6,813
Closeout	-

6,813

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26C40370-SCW Implementation: Fish Passage Improvements (Future D4)	0	0	0	2,127	1,184	1,000	1,250	1,252	6,813
with inflation	0	0	0	2,127	1,184	1,000	1,250	1,252	6,813

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future		
26C40370-SCW Implementation: Fish Passage Improvements (Future D4)	0	0	0	0	2,127	1,184	1,000	1,250	1,252	6,813

FUNDING SOURCES

(in thousands \$)

SCVWD Safe, Clean Water Fund	6,813
Total	6,813

OPERATING COST IMPACTS

No operating cost impacts are anticipated from this project, as it is a placeholder project only.

USEFUL LIFE: Not Available

Project	SCW Ogier Ponds Separation from Coyote Creek (Planning & Design) (D4.1b)
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	26044003
Contact	John Bourgeois jbourgeois@valleywater.org



Ogier Pond complex looking downstream. Coyote Creek enters in lower right. The pond is bordered by Coyote Creek Trail on the right, and a cherry orchard on the left.

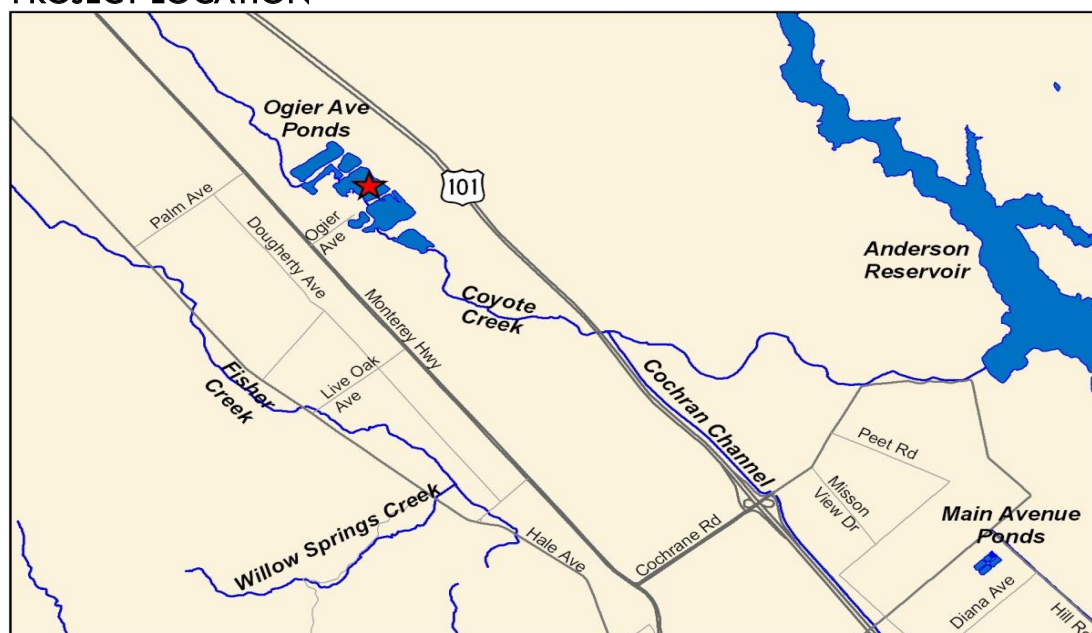
PROJECT DESCRIPTION

This project plans and designs possible improvements to separate Ogier Ponds from Coyote Creek where they meet, approximately 3,800 feet upstream of Ogier Avenue in San Jose, to meet the following objectives:

- ♦ Meet regulatory requirements for implementation of the Dam Maintenance Program so Valley Water can continue to maintain adequate water supply for Santa Clara Valley residents.
- ♦ Eliminate the temperature and predation traps and improve passage for Chinook salmon and steelhead.
- ♦ Preserve the existing open water habitat.
- ♦ Minimize impacts to the future recreational uses being planned by Santa Clara County.

This project was approved by the voters in the Safe, Clean Water Program (SCW) as Project D4.1b (planning & design phase). For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

March 2019 through March 2023

Phase	Cost	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
Plan	1,761											
Design	2,242											
Construct	-											
Closeout	-											
	4,005											

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26044003-SCW Ogier Ponds Separation from Coyote Creek (Planning & Design) (D4.1b)	347	739	1,562	1,357	0	0	0	0	4,005
with inflation	347	739	1,562	1,482	0	0	0	0	4,130

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26044003-SCW Ogier Ponds Separation from Coyote Creek (Planning & Design) (D4.1b)	1,598	0	512	1,050	1,482	0	0	0	0	4,130

FUNDING SOURCES

(in thousands \$)

SCVWD Safe, Clean Water Fund	4,130
Other Funding Sources	0
Total	4,130

OPERATING COST IMPACTS

No operating cost impacts are anticipated from this project, as it includes only the planning and design phases.

USEFUL LIFE: Not Available

Project**Watershed Habitat Enhancements****Program**

Water Resources Stewardship -
Feasibility Studies

Project No.

62044001

Contact

John Bourgeois
jbourgeois@valleywater.org

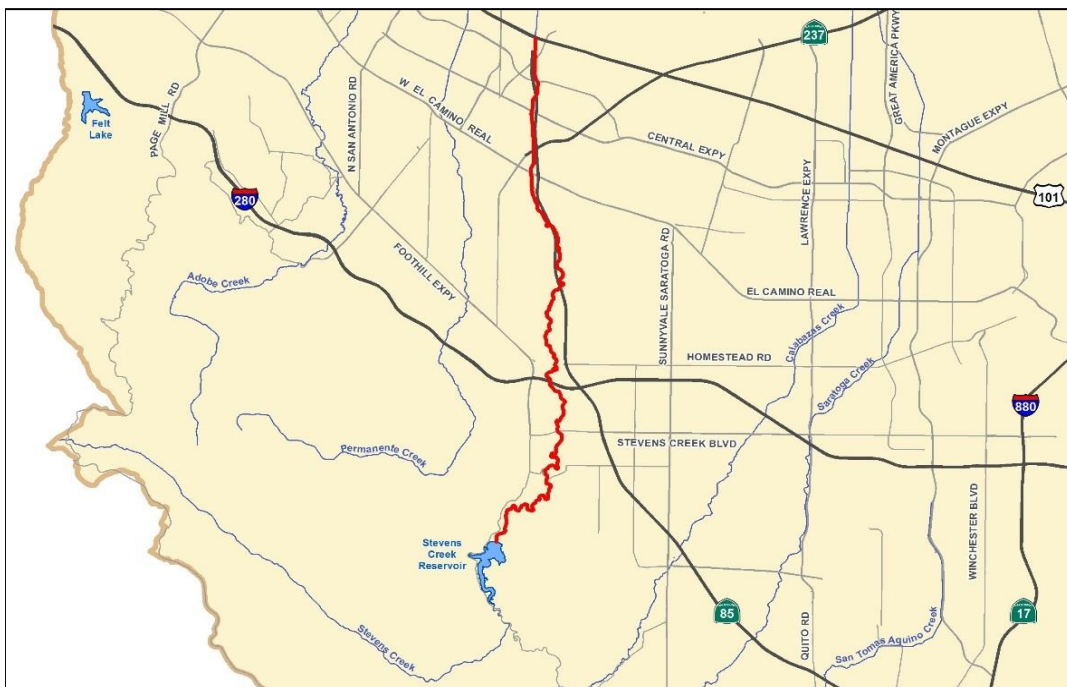


Aerial view looking downstream of the Ogier Pond complex

PROJECT DESCRIPTION

This project provides for feasibility studies of possible habitat enhancements at the Ogier Ponds and Metcalf Ponds along Coyote Creek, and an evaluation and determination of priority for addressing various fish passage barriers along Stevens Creek. This project accomplishes the following objectives:

- Enhance a healthy steelhead trout and salmon population in the Coyote Creek Watershed.
- Provide adequate passage for adult steelhead trout to reach suitable spawning and rearing habitat and for out-migration of juveniles along Stevens Creek.

PROJECT LOCATION

 Project Location

SCHEDULE & STATUS

April 2017 to June 2021

Phase	Cost	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
Plan	2,978											
Permits	-											
Design	33											
Construct	-											
Closeout	-											
	4,204											

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
62044001-Watershed Habitat Enhancements	3,057	1,147	0	0	0	0	0	0	4,204
with inflation	3,057	1,147	0	0	0	0	0	0	4,204

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
62044001-Watershed Habitat Enhancements	3,170	1,034	0	0	0	0	0	0	0	4,204

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

SCVWD Watershed & Stream Stewardship Fund	4,204
Other Funding Sources	0
Total	4,204

OPERATING COST IMPACTS

No operating impacts are anticipated from this project because this is a feasibility study.

USEFUL LIFE: N/A

Project	SMP Mitigation Stream and Watershed Land Preservation
Program	Water Resources Stewardship – Mitigation
Project No.	62184001
Contact	John Bourgeois jbourgeois@valleywater.org



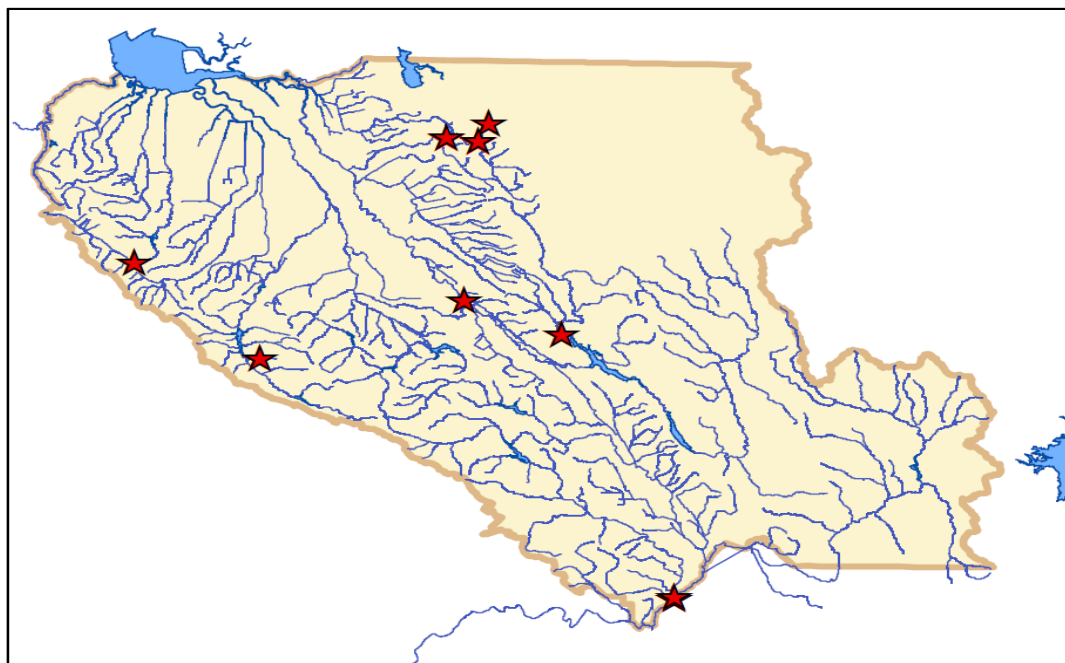
Creek-side settings such as this will be used for stream and watershed land preservation.

PROJECT DESCRIPTION

This project preserves streams and watershed lands in Santa Clara County and implements appropriate restorations in these lands to accomplish the following objectives:

- ♦ Provide Stream Maintenance Program (SMP) mitigation credits through preservation of streams and watershed lands to provide long-term protection of unique and valuable local stream resources and watersheds, in a largely self-sustaining setting. Approximately 110 acres of the total land preservation will be for protection of riparian and upland habitats that are known to support California red-legged frogs.
- ♦ Seek opportunities to partner with other organizations to accomplish the project objectives.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2004 to June 2021

Some environmental tasks in the planning phase continue through construction. Land acquisition is shown in the design phase, with restoration of site habitat shown in the construction phase.

Phase	Cost	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
Plan	1,940											
Permits	3,621											
Design	9,593											
Construct	1,464											
Closeout	150											
	16,768											

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
62184001-SMP Mitigation Stream and Watershed Land Preservation	15,804	964	0	0	0	0	0	0	16,768
with inflation	15,804	964	0	0	0	0	0	0	16,768

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
62184001-SMP Mitigation Stream and Watershed Land Preservation	16,769	0	1	0	0	0	0	0	0	16,769

FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	16,769
Other Funding Source	0
Total	16,769

OPERATING COST IMPACTS

Operating costs will vary depending on the type of acquisition of ownership, and requirements for maintenance of each site. Long-term management costs of acquired properties are budgeted in the SMP Mitigation Site Management project.

USEFUL LIFE: 50+ Years