

Santa Clara Valley Water District

Fiscal Years 2017-21 Capital Improvement Plan

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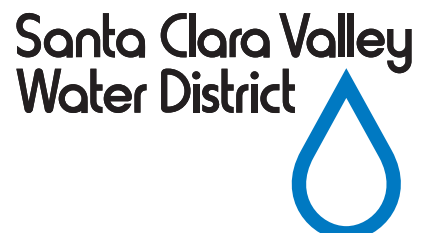
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May 10, 2016



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Overview

OVERVIEW

The Santa Clara Valley Water District's (District) Fiscal Year 2017-21 Five-Year Capital Improvement Program (CIP) is a projection of the District's capital funding for planned capital projects from Fiscal Year 2016-17 through Fiscal Year 2020-21. The purpose of the CIP is to document planned District projects to help integrate District work with the larger community by aligning District planning with other local agency planning efforts.

The District's CIP is developed following the guidelines of Government Code (GC) § 65403 which governs the development and annual review of Capital Improvement Programs developed by special districts in the State of California. State law requires that the program be reviewed and updated annually. It also requires circulation of the document to all agencies having land use authority within the District boundaries prior to adoption of the program. This document is intended to provide the information necessary to facilitate planning and construction of water related infrastructure to meet the needs of Santa Clara County.

The CIP is prepared in accordance with the guidelines established by the Government Finance Officer Association (GFOA). Capital projects in this document are defined by both the accounting criteria for capital investment and Public Contract Code definition of public works. They exceed \$50,000 in cost, have long-term life spans and are generally nonrecurring. They usually fall within one of the following six categories.

1. Acquisition of land for public purpose
2. Construction of a significant facility, i.e. a flood protection facility, a water treatment facility, or a building
3. Addition to or expansion of an existing facility

4. Nonrecurring rehabilitation or major repair to all or part of a facility provided the total cost is more than \$50,000
5. Specific planning, engineering study, or design work related to an individual project which falls within the above categories
6. Significant one-time investment in tangible goods of any nature, the benefit of which will accrue

over several years. Examples include items such as large initial investments or improvements in technology or the purchase of a new telephone system.

The CIP includes several Small Capital Improvement Projects in the various cost centers. These projects will be ongoing and will be used to fund multiple small projects to undertake repairs, replacements, and minor modifications to existing water utility, watershed or campus facilities. Small Capital Improvements generally meet the following criteria:

1. Project cost is less than \$1.5 million
2. Project can be completed within 2 fiscal years
3. Rights-of-Way acquisition is not required.

The proposed funding for the Water Supply Small Capital Improvement projects is anticipated to vary each year based on the work identified in the Water Utility Asset Management Plan. The Almaden Campus Small Capital Improvements project is funded at a flat rate each year. Unspent funds in these projects will not carry forward from previous years.

There are some miscellaneous capital expenditures incurred by the District that are not captured in the CIP. These capital expenditures include certain components of water purchases, indirect costs to manage and train staff that are fully engaged in capital work, and routine replacement of computers, vehicles and large equipment.

Mission

SANTA CLARA VALLEY WATER

The mission of the district is to provide Silicon Valley safe, clean water for a healthy life, environment, and economy.

Overview

ALIGNMENT WITH ENDS POLICIES

The District plans, manages and carries out capital improvements to comply with the Ends Policies and Executive Limitations established by its Board of Directors. Under the District's Policy Governance Model, Ends Policies describe the outcomes or results to be achieved by District staff. Balancing the Ends Policies are the Executive Limitations, which set limits on staff activities in fulfilling the Ends.

Program plans or master plans are developed to achieve the results established by the Ends Policies and to further define the goals and objectives of each Ends Policy. The Board either formally approves the plans or provides direction to staff, confirming the goals and objectives. These plans then become the basis for staff to propose and develop individual capital projects. Project ideas that are proposed by Operation staff must be vetted via a feasibility study and then validated to prepare a business case for proceeding with a capital investment. Appendix E contains the project feasibility studies that are currently underway. Alignment of the CIP with program or master plans provides a direct link to Ends Policies and ensures the District's long-term capital investments are planned and executed according to the Board's priorities. Three Ends Policies directly drive program or master plans and the types of capital improvements described in the CIP.

- Ends Policy E-2 "There is a reliable, clean water supply for current and future generations.
- Ends Policy E-3 "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations."
 - E-3.1 "Provide natural flood protection for residents, businesses, and visitors"
 - E-3.2 "Reduce potential for flood damages"
- Ends Policy E-4 "There is water resources stewardship to protect and enhance watersheds and natural resources and to improve the quality of life in Santa Clara County."

(See flowchart "CIP Process Alignment with Ends Policies" on page I-5)

CIP PLANNING PROCESS

The District conducts an annual planning process for its Capital Improvement Program. The purpose of the planning process is to ensure the capital projects included in the CIP:

- meet the Board's priorities and contribute to the objectives of the District's various programs
- have identified funding for the duration of the projects
- are coordinated with the local jurisdiction's General Plans.

The CIP planning process is carried out in accordance with the following Executive Limitations.

- Executive Limitation EL-4.3.1., "A BAO shall produce an annual Rolling Five-Year Capital Improvement Plan with the first year serving as the adopted capital budget and the remaining years in place as a projected capital funding plan."
- Executive Limitation EL-4.4.1., "A BAO shall demonstrate to the Board the planned expenditures for the identified and selected capital projects in the Rolling Five-Year Capital Improvement Plan are aligned with the Board's capital priorities."

The annual CIP process is the responsibility of the CIP Committee comprised of division managers, with the responsibility to initiate or implement capital projects. The detailed process is a documented ISO procedure. It includes the following key steps:

- Management review and approval, to ensure staff proposed projects are aligned with Board policies and approved program plans
- Validation of projects to ensure there is a business case for doing the project and that a capital investment is the best solution
- Prioritization of all projects, including continuing and newly proposed projects, to ensure the projects in the CIP reflect Board priorities
- Financial analysis, to determine the capacity of the District's capital funding sources to fund the proposed capital projects

Overview

- Outreach to local jurisdictions within Santa Clara County, to coordinate the District's Capital Improvement Program with their General Plans
- Board review and direction at appropriate steps, to ensure the CIP reflects Board policies and priorities
- Board adoption of the CIP plan

The annual CIP planning process starts with collecting information on proposed new capital projects in July, followed by preliminary scoping, priority and financial analyses to produce a Draft CIP in February. The Draft CIP serves as a multi-year plan, together with other long-term planning efforts of the District, is the basis for the budget for the following fiscal year. This Draft CIP plan is also reviewed by local jurisdictions for consistency with their General Plans. While the CIP is being reviewed by the cities and County the budget is being reviewed and finalized. The Board concludes the outreach on the CIP with a public hearing. The first year of the CIP is reconciled with the budget and the two documents are presented to the board for formal adoption in May.

Board Direction and CIP Outreach

The Board has many opportunities each year to provide direction on projects contained in the Capital Improvement Program. The CIP is developed in parallel with the budget and the water rates. It is presented to the Board on three separate occasions for review and input. Early in the process the project list is presented to the board so they can provide direction to staff, ensuring that the document is developed in accordance with board priorities. The direction received is used to develop the Draft CIP which is reviewed by the Board before staff is authorized to release the document for public review. The CIP is adopted by the Board in May following a public hearing.

On January 12, 2016 the FY 2017-21 project list and prioritization criteria were reviewed and endorsed by the Board. The following are highlights of changes from the previous year that have been approved as the basis for the FY 2017-21 CIP:

- To fully fund the Water Supply projects in the FY 2017-21 CIP, an increase in the groundwater production charges of 19.9% in North County and 10.4% for South County will be required.
- Four new projects with a combined cost of \$198 million were added to the CIP. They are; Coyote Pumping Plant ASD Replacement, 10-Year Pipeline Rehabilitation, Penitencia Water Treatment Plant Residuals Management, and Erosion Repair Program.
- The proposed PureWater Silicon Valley Program components have been fully incorporated in the FY 2017-21 CIP. Using a 2014 initial cost estimate of \$800M for this Program and applying cost escalation factors, the current Program cost estimate is \$945M. In previous 5-year CIPs, a placeholder cost of about \$500M-\$600M had been used for this Program. The updated \$945M Program cost is a \$370M increase from the current CIP. Board decisions on how to proceed with this project will be incorporated into future CIPs as they are made. Changes to a project of this size will have a significant effect on the overall cost of the CIP.
- The Erosion Repair Program was added to the FY 2017-21 CIP. More than 30 erosion sites along District-owned portions of creeks throughout the county have been identified. The current plan is to fund only a portion of the identified sites in the FY 2017-21 CIP.

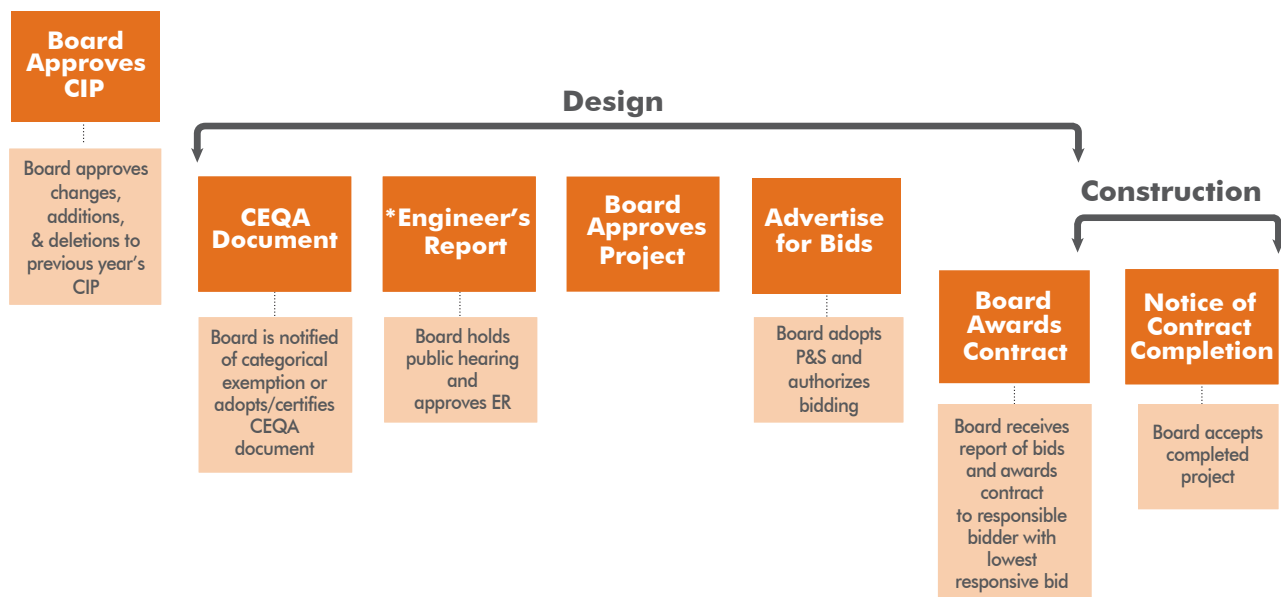


Overview

Each project in the CIP goes through a planning phase, design phase and construction phase. The Board may determine to not implement a project based on various considerations such as financial constraints, environmental impacts or community desire during a project's planning or design phases. Approval of

a capital project by the Board occurs at the end of the design phase when the Board approves the plans and specifications to solicit bids for construction of the project.

OPPORTUNITIES FOR BOARD DIRECTION ON CAPITAL PROJECTS



* Board approval of the Engineer's Report is required only on projects with zone funding.



Rinconada Water Treatment Plant Residuals Management

Overview

CIP PROCESS ALIGNMENT WITH ENDS POLICIES



Overview

FISCAL YEAR 2017-21 CIP SUMMARY

The recommended CIP for FY 2017-21 includes 65 priority projects to implement the goals and objectives of the District's program plans and master plans. These projects are grouped into five types of improvements.

- **Water Supply Capital Improvements**
30 projects contributing to Ends Policy E-2
- **Flood Protection Capital Improvements**
19 projects contributing to Ends Policy E-3
- **Water Resources Stewardship Capital Improvements**
8 projects contributing to Ends Policy E-4
- **Buildings and Grounds Capital Improvements**
3 projects supporting District efforts to achieve the Ends Policies
- **Information Technology Capital Improvements**
5 projects supporting District efforts to achieve the Ends Policies

Each of the 65 projects in the CIP has an identified funding source based on the type of improvement or function of the project.

The principal sources of revenue for the District are property taxes, a special parcel tax and water production charges for use of groundwater, treated water, and surface water. These revenues are organized into eight funds. Seven of the eight funds have a specific purpose and only finance the operational and capital expenditures related to that purpose. In 2008 the Board decided to combine the individual watershed funds into a county-wide watershed and stream stewardship fund to send the message that the watershed activities are managed for the benefit of the county. This also streamlines most tracking and accounting activities for staff. The District continues to receive a small amount of revenue from

benefit assessments that were approved by voters in the 80s and 90s. These funds are dedicated to specific watersheds and the accounting practices to ensure that they are spent and accounted for appropriately have been kept in place. As shown in the chart below, five of the eight funds are used to finance the five types of capital improvements in the CIP.

In November 2012 the voters overwhelmingly approved the Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water). This program replaces the Clean, Safe Creeks Program that would sunset in 2016. Safe, Clean Water has an expanded focus that includes funding for important Water Utility projects as well as additional funding for Flood Protection and Water Resources Stewardship projects. The Safe, Clean Water program will provide over \$750 million of special parcel tax revenue for operations and capital projects.

The District aggressively pursues external funding to supplement its principal revenue when practical. In recent years District projects benefited from \$43.4 million in American Recovery and Reinvestment Act (ARRA) funding. A number of District projects are receiving substantial State funding through grants from the Department of Water Resources (DWR) either directly or through local partner agencies. For a complete listing of grants and partnerships see Appendix C.

- \$25 million for Lower Silver Creek from DWR
- \$8 million for San Francisco Creek through the Joint Powers Authority
- \$30 million Upper Berryessa, Lower Berryessa, and Lower Penitencia from DWR
- \$2.5 million for Wolfe Road Recycled Water Pipeline from DWR

| DISTRICT PRIORITIES | District Funds | | | | |
|------------------------------------|-------------------------------|-----------------------------------|--------------|------------------------|-----------------------------|
| Type of Improvement | Water Utility Enterprise Fund | Watershed Stream Stewardship Fund | General Fund | Safe, Clean Water Fund | Information Technology Fund |
| Water Supply | 💧 | | | 💧 | |
| Flood Protection | | 💧 | | 💧 | |
| Water Resources Stewardship | 💧 | 💧 | | 💧 | |
| Buildings and Grounds | | | 💧 | | |
| Information Technology | 💧 | | | | 💧 |

This chart identifies which types of improvement are associated with each of the District's five capital funds.

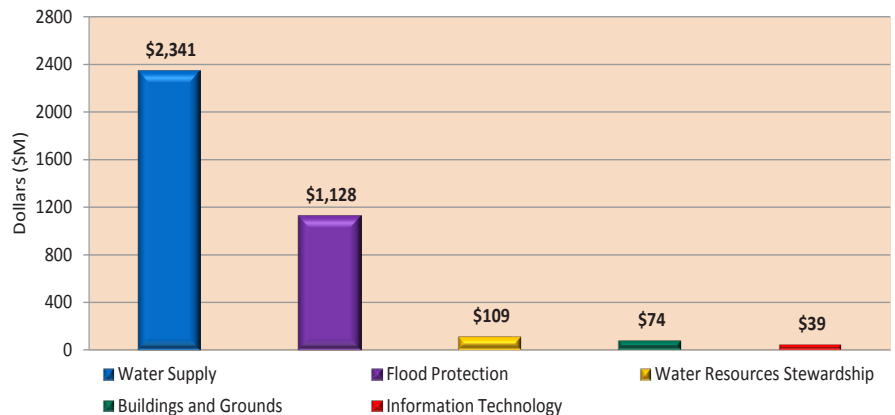
Overview

The estimated total funding required to implement the 65 projects defined in the CIP is \$4.16 billion. The District has been and continues to be successful in leveraging funding for its capital projects through partnerships with federal, state, and local agencies. Of the \$4.16 billion total funding, \$711 million is expected from the District's various partners, such as the U.S. Army Corps of Engineers (USACE), and \$3.450 billion from the District. A list of projects that are funded cooperatively with the District's partners is summarized in Appendix C. Funding from partners for the cooperative capital projects generally come in two ways:

- Funds that are made available by the partners when needed, or
- Funds that are reimbursed by the partners after the District advances the needed funds.

Of the \$711 million that is expected from the District's partners, \$242 million is advanced by the District and reimbursed later. This \$242 million is included in the CIP, and increases the District's total funding requirement from \$3.450 billion to \$3.692 billion, to ensure that the District has adequate funding to advance the reimbursement.

CIP Funding by Type of Improvement

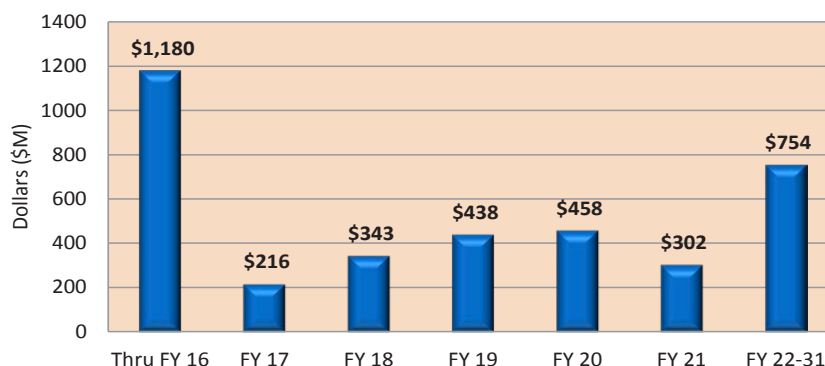


The chart above shows the distribution by type of improvement, of the \$3.692 billion total CIP funding as planned in the FY 2017-21 CIP.

The chart above shows how the \$3.692 billion to implement the 65 projects is allocated to each of the five Types of Improvements.

Of the \$3.692 billion in total funding for the 65 projects identified in the CIP, the Board has appropriated \$1.180 billion in prior years (through June 30, 2016 the end of Fiscal Year 2015-16). This year's CIP process identified additional funding needs of \$2.512 billion to complete the projects in the CIP, with \$216 million allocated in Fiscal Year 2016-17 and a total of \$2.296 billion proposed for future years. The table shown on page I-8 breaks down the fiscal year total by the five types of improvement and by applicable funding sources.

CIP Funding Schedule



The chart above shows how the \$3.692 billion is distributed by fiscal year.

Overview

CIP Funding Schedule by Type of Improvement and Funding Sources (\$K)

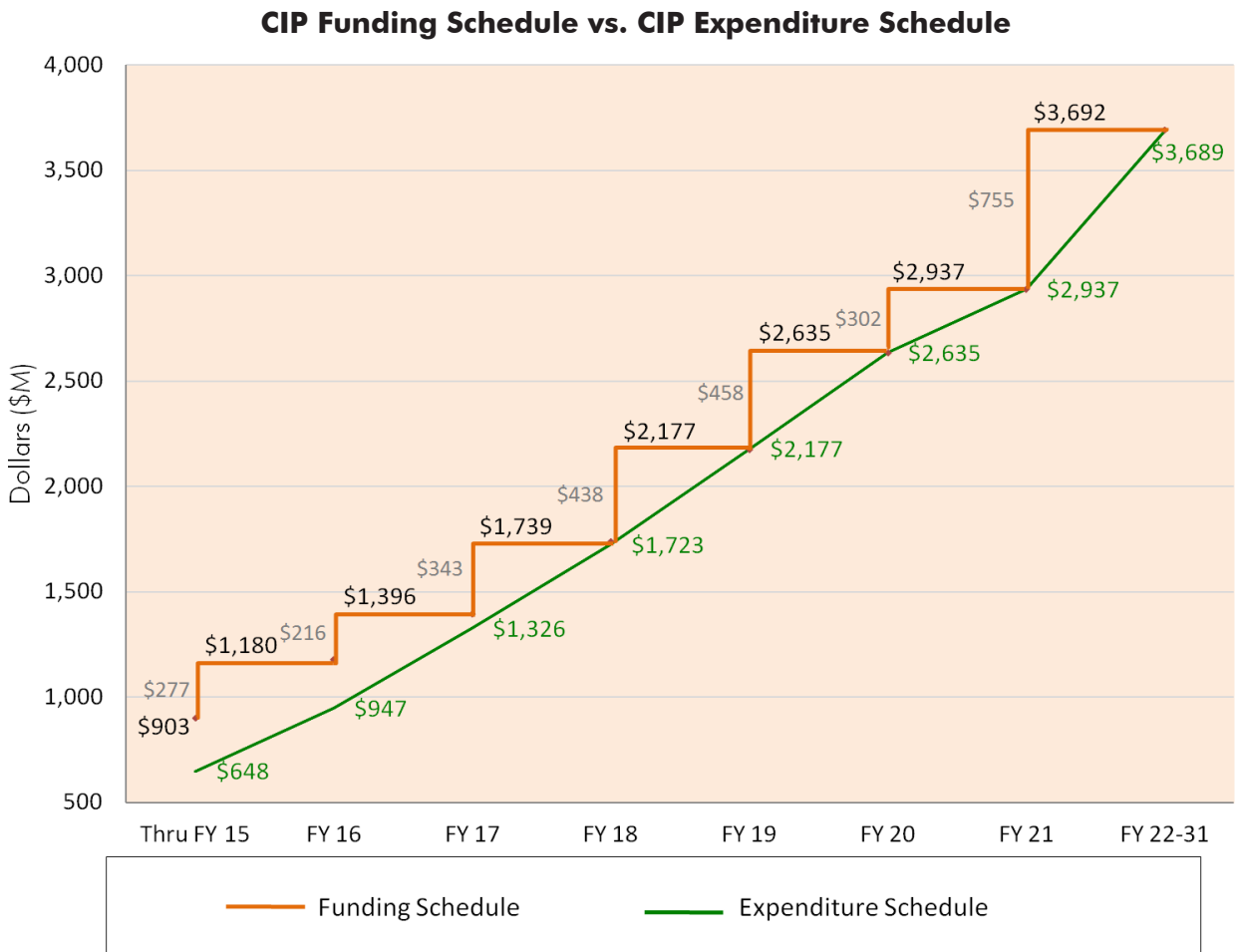
| | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|--|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| WATER SUPPLY | | | | | | | | | | |
| Water Utility Enterprise Fund | 278,011 | 136,877 | 27,447 | 114,041 | 187,229 | 345,912 | 399,647 | 254,681 | 594,748 | 2,311,146 |
| Safe, Clean Water and Natural Flood Protection Fund | 630 | 1,178 | - | 520 | 13,488 | 281 | - | - | 13,918 | 30,015 |
| Water Supply Total | 278,641 | 138,055 | 27,447 | 114,561 | 200,717 | 346,193 | 399,647 | 254,681 | 608,666 | 2,341,161 |
| FLOOD PROTECTION | | | | | | | | | | |
| Watershed Stream Stewardship Fund | 222,849 | 44,724 | 39,878 | 40,032 | 29,513 | 27,227 | 8,800 | 11,526 | 49,400 | 434,071 |
| Safe, Clean Water and Natural Flood Protection Fund | 375,486 | 75,473 | 154,497 | 43,359 | 89,022 | 32,891 | 27,980 | 25,518 | 24,653 | 694,382 |
| Flood Protection Total | 598,335 | 120,197 | 194,375 | 83,391 | 118,535 | 60,118 | 36,780 | 37,044 | 74,053 | 1,128,453 |
| WATER RESOURCES STEWARDSHIP | | | | | | | | | | |
| Water Utility Enterprise Fund | 765 | - | - | - | 2,079 | 3,652 | 775 | 802 | 7,886 | 15,959 |
| Watershed Stream Stewardship Fund | 14,289 | 3,075 | - | 2,225 | 2,519 | 2,970 | 775 | 802 | 7,886 | 34,540 |
| Safe, Clean Water and Natural Flood Protection Fund | 2,477 | 2,991 | 561 | 3,729 | 12,620 | 18,306 | 9,510 | 802 | 7,886 | 58,321 |
| Mitigation Total | 17,531 | 6,066 | 561 | 5,954 | 17,218 | 24,928 | 11,060 | 2,405 | 23,658 | 108,820 |
| BUILDINGS AND GROUNDS | | | | | | | | | | |
| General Fund | 1,904 | 10,455 | 8,534 | 7,989 | 3,735 | 6,017 | 9,209 | 7,191 | 27,526 | 74,026 |
| Buildings and Grounds Total | 1,904 | 10,455 | 8,534 | 7,989 | 3,735 | 6,017 | 9,209 | 7,191 | 27,526 | 74,026 |
| INFORMATION TECHNOLOGY | | | | | | | | | | |
| Water Utility Enterprise Fund | 473 | 267 | 12 | 180 | 757 | 407 | 166 | - | 6,738 | 8,988 |
| General Fund | 1,199 | - | - | - | - | - | - | - | - | 1,199 |
| Information Technology Fund | 4,671 | 1,914 | 1,983 | 4,142 | 1,915 | 686 | 880 | 1,004 | 13,698 | 28,910 |
| Information Technology Total | 6,343 | 2,181 | 1,995 | 4,322 | 2,672 | 1,093 | 1,046 | 1,004 | 20,436 | 39,097 |
| TOTAL | 902,754 | 276,954 | 232,912 | 216,217 | 342,877 | 438,349 | 457,742 | 302,325 | 754,339 | 3,691,557 |
| CUMULATIVE TOTAL | 902,754 | 1,179,708 | | 1,395,925 | 1,738,802 | 2,177,151 | 2,634,893 | 2,937,218 | 3,691,557 | |

FY 2015-16 Funds to be reappropriated

Overview

As shown in the table, CIP Funding Schedule by Type of Improvement and Funding Sources (on the previous page): approximately \$233 million of the already appropriated \$1.180 billion is not spent and is reappropriated to Fiscal Year 2016-17 for continued use

in those same projects in amounts consistent with the project expenditure schedule for Fiscal Year 2016-17. The following chart explains the relationship between the CIP Funding Schedule and Expenditure Schedule.



Overview

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Water Supply Capital Improvements

WATER SUPPLY OVERVIEW

The District manages and operates a complex and integrated water supply infrastructure, including storage, transmission, treatment, and recycled water facilities, to meet the Board's Ends Policy E-2, "There is a reliable, clean water supply for current and future generations."

Storage Facilities

- 10 surface reservoirs
- 393 acres of recharge ponds
- 76 miles of in-stream recharge
- Ground water basins

Transmission Facilities

- 142 miles of pipelines
- 3 pump stations

Treatment Facilities

- 3 treatment plants

Recycled Water Facilities

- Silicon Valley Advanced Water Purification Center
- South County Recycled Water Distribution System

Planning, design and construction of the above facilities took decades of effort. Beginning in the 1930s, reservoirs and recharge ponds were built to halt depletion of the ground water basin and subsidence, followed by pipelines and treatment plants to bring in state and federal water to meet growing water demands in the County.

In the early 1990s, the District embarked on new and challenging capital improvements to upgrade its three drinking water treatment plants in order to meet new Environmental Protection Agency rules for improved water quality required by 1996 amendments to the Safe Drinking Water Act. Fifteen years of effort and capital funding brought the upgrades at Penitencia and Santa Teresa Water Treatment Plants to completion. Delivery of ozonated water produced at these two treatment plants began in 2006.

The Rinconada Water Treatment Plant (RWTP) was built in the late 1960s and is reaching the end of its useful life. Projects to replace and update the treated water valves and residuals management process, and to seismically retrofit the Operations Building are nearing completion. The RWTP Reliability Improvement Project will add raw water ozonation, construct new flocculation and plate settler clarification, and dual media filtration facilities. It will also increase plant capacity from 80 to 100 million gallons per day. Construction of this Project began in the summer 2015 and will continue for approximately 5 years. It will be constructed in a phased approach that will allow the plant to continue operations throughout the construction process.

With a significant portion of the Water Supply infrastructure approaching fifty to sixty years of age, maintaining and upgrading the existing infrastructure to ensure each facility functions as intended for its useful life became the focus of the Water Supply Capital Improvement Program in recent years, as shown in the CIP.

The District owns and operates ten dams. While these dams provide water supply, flood management, recreation, and environmental flow benefits, there are consequences and costs for dam ownership. Knowledge of seismic stability design and construction was very rudimentary during the design and construction of District dams in the 1930s and 50s. Both liquefaction of dam embankments and foundations and embankment stability is critical for seismic stability. Several of the District reservoirs have operating restrictions imposed by the Department of Safety of Dams (DSOD) while an engineering analysis of how the District's dams would perform under a major seismic event is completed and appropriate corrective actions are implemented.

On November 26, 2010 the Board was informed that Anderson Dam will require a seismic retrofit and the operating restriction was increased to 45 feet below the crest of the dam. Since this briefing, the consultant

Water Supply Capital Improvements

has determined that a magnitude 7.2 Maximum Credible Earthquake on nearby Calaveras Fault could cause a deformation (slumping) of the dam crest by 25 feet. The Anderson Dam Seismic Retrofit Project (\$200 million) was initiated in January 2011.

The District completed a seismic stability evaluation of Almaden, Calero, and Guadalupe Dams in late 2010. Almaden Dam was found to be seismically stable; however both Calero and Guadalupe Dams will require seismic retrofitting to meet DSOD performance criteria. A project was initiated in fiscal year 2013 to address the Calero and Guadalupe Dams retrofit needs. A separate capital project to address outlet and spillway improvements at Almaden Dam is continuing. Seismic stability evaluations were conducted at Lenihan and Stevens Creek Dams. Both were found to be seismically stable.

Major Capital Improvements Identified in CIP

Storage:

- Almaden Dam Improvements
- Anderson Dam Seismic Retrofit
- Calero Dam Seismic Retrofit
- Guadalupe Dam Seismic Retrofit

Transmission:

- 10-Year Pipeline Rehabilitation
- FAHCE Implementation
- Main and Madrone Pipeline Rehabilitation
- Penitencia Delivery Main/Force Main Seismic Retrofit
- Vasona Pumping Plant Upgrades

Treatment:

- IRP2 WTP Operations Buildings Seismic Retrofit
- PWTP Residuals Management
- RWTP Reliability Improvement

Recycled Water:

- South County Recycled Water Pipeline
- PureWater Silicon Valley

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to ensure that the new water supply projects proposed to be added to the Fiscal Year 2017-21 CIP reflect the Board's priorities. The priority criteria used to evaluate these projects is included in Appendix A.

A financial analysis of the Water Utility Enterprise Fund, the funding source for water supply capital improvements, was performed to determine the limitations to funding the projects proposed for the Fiscal Year 2017-21 capital program. Results of this year's prioritization process and financial analysis are summarized in Appendix B.

Based on the feedback from the FY 2006-07 CIP and Board direction, a concerted effort was made to develop a multi-year water charge structure that would support the priority work of the water utility business. Staff analyzed both immediate requirements and anticipated future needs to support operations and the continued appropriations for capital investment needed to maintain infrastructure and comply with water quality regulations. Each year staff reviews Board priorities, the financial needs of the water utility enterprise fund, current political and economic factors and updates the multi-year structure. The rate structure for the first year is recommended to the Board for adoption during the annual rate setting process.

While the District has one Water Utility fund, the District has two zones of benefit for the purposes of setting groundwater production charges. The North County Zone is very different from the South County Zone in that the water infrastructure is substantially separate and distinct with an entirely different cost of providing service. For example the north zone overlays the Santa Clara groundwater subbasin and is much more densely populated requiring a large amount of imported water from outside the county to provide a reliable water supply. To receive, filter and distribute

Water Supply Capital Improvements

the imported water, the District chose to build 3 water treatment plants and a network of raw water and treated water distribution pipelines many decades ago. The south zone on the other hand overlays the Coyote and Llagas groundwater subbasins and is more sparsely populated. South County relies primarily on groundwater to serve roughly 50% agricultural and 50% non-agricultural water needs. A small amount of recycled water is served in the Gilroy area. No treated water is served in South County. A small amount of imported water is used to recharge the groundwater subbasins in the South County. The groundwater subbasins have the ability to absorb the recharge and remain healthy under normal water usage levels unlike the North County where several sections of the groundwater basin are very sensitive, which is the main reason for building the treatment plant system long ago.

To fully fund the Water Supply projects in the FY 2017-21 CIP an increase in the groundwater production charges of 19.9% in Zone W-2 (North County) and 10.4% in Zone W-5 (South County) will be required in FY 2016-

17. Preliminary projections indicate the need for annual rate increases in subsequent years ranging from 11% to 17% for North County and 5% to 6% for South County.

The majority of capital projects included in the 5-Year CIP are related to asset management which replaces aging equipment and facilities, infrastructure reliability, which protects the county's baseline water supply or Advanced Purified Water which produces a drought proof source of water.

The District is currently engaged in several critical studies related to understanding the conditions of various existing water supply facilities and meeting future water supply needs of the county including South Bay Water Recycling Strategic Master Plan, which will be presented to the Board in the summer of 2016, and collaborating with the City of Sunnyvale on their Recycled Water Master Plan. These studies will likely identify a number of new capital projects with significant capital investments.



Water Supply Capital Improvements

The following table is a project funding schedule for water supply capital improvements resulting from this year's priority process and 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 2015-16.

Water Supply Capital Improvements

| Project Number | PROJECT NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|--------------------------------|--|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| STORAGE FACILITY | | | | | | | | | | | |
| 91854001 | Almaden Dam Improvements | 7,360 | 2,712 | - | 2,482 | 17,716 | 10,917 | 9,799 | 5,532 | - | 56,518 |
| 91864005 | Anderson Dam Seismic Retrofit (C1) | 30,230 | 1,006 | 1,804 | - | 54,430 | 66,699 | 48,593 | - | - | 200,958 |
| 91084020s | Calero and Guadalupe Dams Seismic Retrofits | 9,567 | 7,966 | 2,182 | 9,267 | 15,889 | 57,150 | 27,036 | 22,818 | 6,040 | 155,733 |
| 91C40377 | Coyote Pumping Plant ASD Replacement | - | - | - | - | - | 562 | 1,954 | 9,586 | 5,029 | 17,131 |
| 91234011 | Coyote Pumping Plant Warehouse | 416 | 2,597 | 2,106 | 121 | - | - | - | - | - | 3,134 |
| 91084019 | Dam Seismic Stability Evaluation | 18,812 | - | 1,821 | - | - | - | 485 | 487 | - | 19,784 |
| 91214010s | Small Capital Improvements, San Felipe Reach 1-3 | n/a | 1,628 | - | 3,608 | 706 | 1,226 | - | 756 | 25,998 | 33,922 |
| TRANSMISSION FACILITY | | | | | | | | | | | |
| 95084001s | 5-Year Pipeline Rehabilitation | 14,362 | 9,481 | 885 | 9,208 | - | - | - | - | - | 33,051 |
| 95084002 | 10-Year Pipeline Rehabilitation (FY18-FY27) | - | - | - | - | 16,444 | 20,762 | 11,818 | 4,637 | 46,483 | 100,144 |
| 92C40357 | FAHCE Implementation | - | - | - | - | 4,739 | 4,379 | 14,691 | 14,690 | 106,609 | 145,108 |
| 26C40349 | IRP2 Additional Line Valves (A3) | - | - | - | - | - | - | - | - | 13,918 | 13,918 |
| 26564001 | Main & Madrone Pipelines Restoration (A1) | 630 | 1,178 | - | 520 | 13,488 | 281 | - | - | - | 16,097 |
| 92144001 | Pacheco/Santa Clara Conduit Right of Way Acquisition | 1,142 | 8 | - | 1,470 | 328 | 106 | - | - | - | 3,054 |
| 94384002s | Penitencia Delivery Main/Force Main Seismic Retrofit | 4,067 | 17,773 | 3,439 | 9,172 | 103 | - | - | - | - | 31,115 |
| 92374005 | SCADA Remote Architecture & Communications Upgrade | 370 | 32 | - | 374 | 389 | 619 | 819 | 852 | 3,477 | 6,932 |
| 92764009 | Small Capital Improvements, Raw Water Transmission | n/a | 38 | - | - | 115 | - | 53 | - | 3,438 | 3,644 |
| 94764006 | Small Capital Improvements, Treated Water Transmission | n/a | - | - | - | 61 | 84 | - | - | - | 145 |
| 92264001 | Vasona Pumping Plant Upgrade | - | - | - | 119 | 1,321 | 1,789 | 17,673 | 85 | - | 20,987 |
| TREATMENT FACILITY | | | | | | | | | | | |
| 93084011 | Fluoridation at WTPs | 1,148 | 5,338 | 3 | 3,009 | - | - | - | - | - | 9,495 |
| 93764003 | IRP2 WTP Ops Bldgs Seismic Retrofit | 19,686 | 1,306 | 684 | 798 | 76 | - | - | - | - | 21,866 |
| 93234043 | PWTP Clearwell Recoating & Repair | 4,516 | 1,403 | 2,593 | 550 | 119 | - | - | - | - | 6,588 |
| 93C40390 | PWTP Residuals Management | - | - | - | - | 703 | 1,462 | 7,835 | - | - | 10,000 |
| 93294051 | RWTP FRP Residuals Management Modifications | 26,022 | 286 | - | 118 | - | - | - | - | - | 26,426 |
| 93294057 | RWTP Reliability Improvement | 26,507 | 45,009 | - | 44,712 | 44,496 | 44,811 | 46,345 | 146 | - | 252,026 |
| 93294056 | RWTP Treated Water Valves Upgrade | 8,075 | 296 | 18 | 55 | - | - | - | - | - | 8,426 |
| 93764004 | Small Capital Improvements, Water Treatment | n/a | 3,509 | - | 2,831 | 782 | 5,465 | 3,562 | 3,492 | 41,770 | 61,411 |
| RECYCLED WATER FACILITY | | | | | | | | | | | |
| 91304001s | PureWater Silicon Valley (PWSV) | 2,000 | 18,499 | 1,030 | 9,669 | 28,629 | 129,802 | 208,623 | 191,600 | 355,904 | 944,726 |
| 91184008 | Silicon Valley Advanced Water Purification Center | 75,928 | 838 | 86 | 49 | - | - | - | - | - | 76,815 |
| 91094007s | South County Recycled Water Pipeline | 17,195 | 10,589 | 10,326 | 15,772 | 183 | 79 | 361 | - | - | 44,179 |
| 91244001 | Wolfe Road Recycled Water Pipeline | 10,608 | 6,563 | 470 | 657 | - | - | - | - | - | 17,828 |
| TOTAL | | 278,641 | 138,055 | 27,447 | 114,561 | 200,717 | 346,193 | 399,647 | 254,681 | 608,666 | 2,341,161 |

FY 2015-16 Funds to be reappropriated

Water Supply Capital Improvements

The following table shows funding requirements from each funding source for water supply capital.

Water Supply - Funding Source (\$K)

| Fund Number | FUND NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|--------------|---|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| 61 | Water Utility Enterprise Fund | 278,011 | 136,877 | 27,447 | 114,041 | 187,229 | 345,912 | 399,647 | 254,681 | 594,748 | 2,311,146 |
| 26 | Safe, Clean Water and Natural Flood Protection Fund | 630 | 1,178 | - | 520 | 13,488 | 281 | - | - | 13,918 | 30,015 |
| TOTAL | | 278,641 | 138,055 | 27,447 | 114,561 | 200,717 | 346,193 | 399,647 | 254,681 | 608,666 | 2,341,161 |

FY 2015-16 Funds to be reappropriated

Water Supply Capital Improvements

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| | |
|-------------------------|---|
| Project | Almaden Dam Improvements |
| Program | Water Supply – Storage |
| Priority No. | 51 |
| Project No. | 91854001 |
| District Contact | Katherine Oven koven@valleywater.org |



Aerial view of Almaden Dam and spillway, with a portion of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Almaden Dam Outlet Works to accomplish the following objectives:

- Modify or construct a new intake structure, capable of releasing 246 cubic feet-per-second (cfs) of water without flushing of sediments through the outlet works.
- Correct existing problems with the outlet energy dissipation structure, piping and valves.
- Restore operational capacity to the Almaden-Calero Canal and stabilize and improve maintenance access.

PROJECT LOCATION



SCHEDULE & STATUS

July 1995 to June 2021

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 6,974 | | | | | | | | | | | |
| Design | 3,528 | | | | | | | | | | | |
| Construct | 39,686 | | | | | | | | | | | |
| Closeout | 302 | | | | | | | | | | | |
| | 50,490 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|-----------------------------------|-----------------|----------------------|-------|--------|--------|-------|-------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91854001-Almaden Dam Improvements | 7,386 | 2,686 | 2,482 | 16,095 | 10,815 | 8,135 | 5,402 | 0 | 53,001 |
| with inflation | 7,386 | 2,686 | 2,482 | 17,716 | 10,917 | 9,799 | 5,532 | 0 | 56,518 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|-----------------------------------|----------------|----------------|-----------------|--------------------------|--------|--------|-------|--------|---|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 91854001-Almaden Dam Improvements | 7,360 | 2,712 | 0 | 2,482 | 17,716 | 10,917 | 9,799 | 5,532 | 0 | 56,518 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$34,000.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|---------------|
| SCVWD Water Utility Enterprise Fund | 56,518 |
| Other Funding Source | 0 |
| Total | 56,518 |

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately \$2,000 per year, beginning in FY 2022. Manually flushing the control valves during the winter months to remove silt will no longer be required.

USEFUL LIFE: 50+ Years

| | |
|-------------------------|---|
| Project | Anderson Dam Seismic Retrofit |
| Program | Water Supply – Storage |
| Priority No. | 100 |
| Project No. | 91864005 |
| District Contact | Katherine Oven koven@valleywater.org |



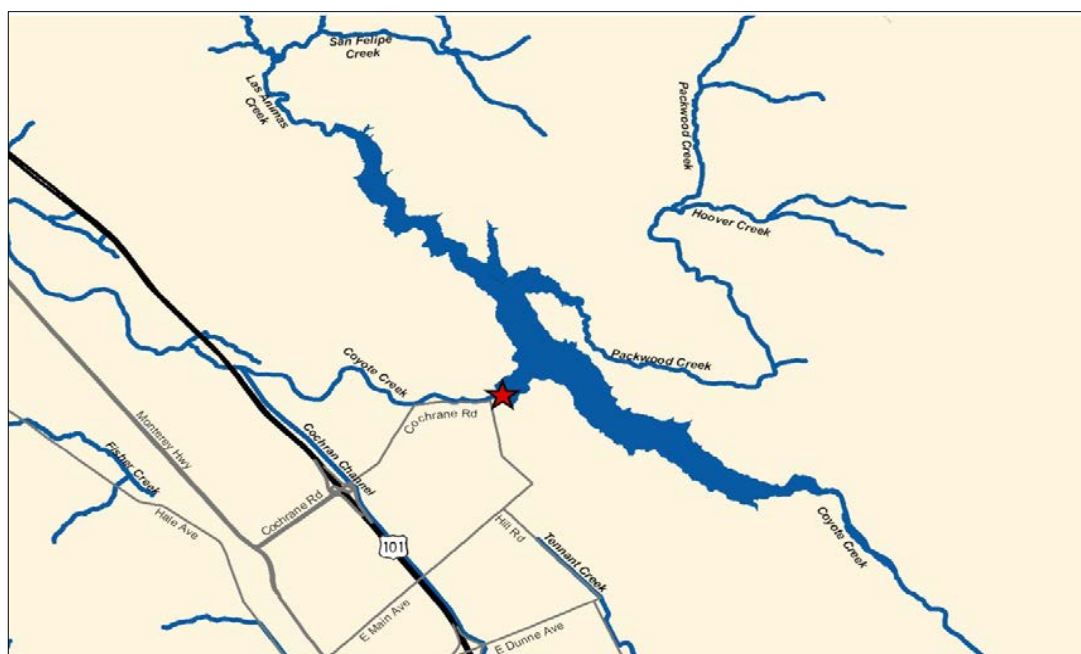
Aerial view of Anderson Dam and spillway, with a portion of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic retrofit or replacement of outlet works at Anderson Dam, pending completion of a field investigation that will determine whether the Coyote Fault is determined to be "active". Seismic stability improvements will accomplish the following objectives:

- ♦ Resolve seismic stability deficiencies to ensure public safety.
- ♦ Restore lost reservoir storage capacity resulting from the operational restriction issued by Division of Safety of Dams (DSOD).
- ♦ Resolve the DSOD/FERC (Federal Energy Regulatory Commission) requirements in a timely manner.

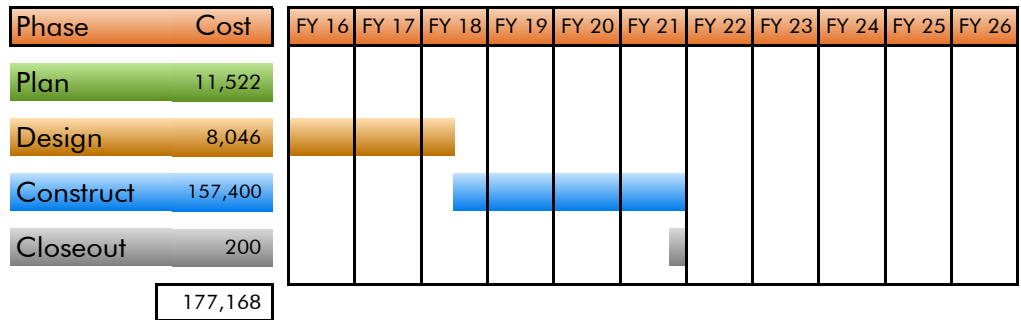
PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

January 2011 to June 2021



EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|------|--------|--------|--------|------|--------|---------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91864005-Anderson Dam Seismic Retrofit | 28,014 | 1,418 | 940 | 46,500 | 65,400 | 47,200 | 0 | 0 | 189,472 |
| with inflation | 28,014 | 1,418 | 940 | 55,294 | 66,699 | 48,593 | 0 | 0 | 200,957 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|----------------|----------------|-----------------|--------------------------|--------|--------|--------|--------|---|---------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 91864005-Anderson Dam Seismic Retrofit | 30,230 | 1,006 | 1,804 | 0 | 54,430 | 66,699 | 48,593 | 0 | 0 | 200,957 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|---|----------------|
| SCVWD Water Utility Enterprise Fund | 130,814 |
| SCVWD Safe Clean Water Fund | 66,053 |
| Department of Water Resources (Prop 84) | 4,090 |
| Total | 200,957 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project Calero and Guadalupe Dams Seismic Retrofits

Program Water Supply - Storage

District Contact Katherine Oven koven@valleywater.org

Priority No. 94

Project No. 91084020s



Aerial view of the Calero Dam and reservoir



Aerial view of the Guadalupe Dam, spillway, and part of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Calero and Guadalupe Dams to accomplish the following objectives:

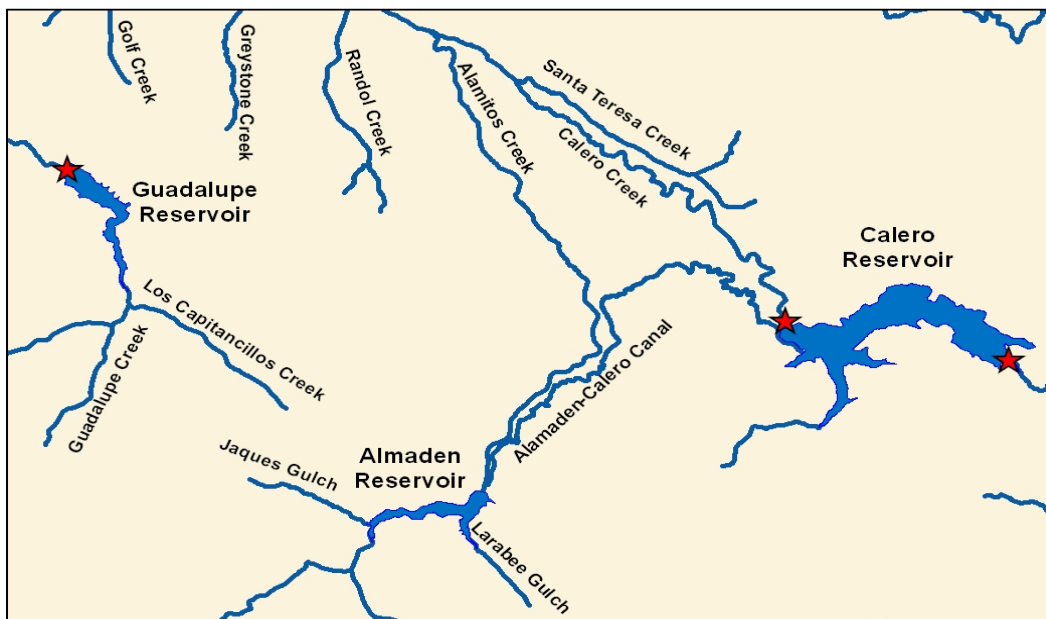
Calero Dam

- ♦ Stabilize the embankment to withstand a Maximum Credible Earthquake (MCE).
- ♦ Modify or replace the outlet works if determined to be inadequate.
- ♦ Modify the spillway or increase the freeboard of the dam for safe passage of the Probable Maximum Flood (PMF).
- ♦ Provide modifications that do not preclude potential future expansion of dam and reservoir to provide additional reservoir storage.
- ♦ Remove or relocate the Bailey Ranch structures and breach Fellow's Dike.

Guadalupe Dam

- ♦ Stabilize the embankment to withstand a MCE.
- ♦ Implement improvements as necessary for the Dam system to safely pass the PMF.
- ♦ Ensure that the outlet works and hydraulic control system meet the Division of Safety of Dams (DSOD) requirements.
- ♦ Relocate the intake structure out of the upstream berm in a timely manner
- ♦ Incorporate other measures to address seismic and other dam safety deficiencies that are identified through the Project delivery process.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2012 to March 2022

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 5,622 | | | | | | | | | | | |
| Design | 18,385 | | | | | | | | | | | |
| Construct | 117,300 | | | | | | | | | | | |
| Closeout | 360 | | | | | | | | | | | |
| | 141,667 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|--------------|----------------------|--------------|---------------|---------------|---------------|---------------|--------------|----------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91084020 - Calero and Guadalupe Dams Seismic Retrofits-Planning | 6,882 | 437 | 201 | 150 | 150 | 0 | 0 | 0 | 7,820 |
| with inflation | 6,882 | 437 | 201 | 162 | 169 | 0 | 0 | 0 | 7,851 |
| 91874004 - Calero Dam Seismic Retrofit-Design & Construct | 64 | 4,555 | 4,604 | 11,930 | 46,000 | 5,750 | 1,438 | 0 | 74,341 |
| with inflation | 64 | 4,555 | 4,604 | 15,497 | 46,749 | 5,877 | 1,533 | 0 | 78,880 |
| 91894002 - Guadalupe Dam Seismic Retrofit-Design & Construct | 2 | 3,411 | 4,696 | 362 | 6,010 | 20,700 | 20,700 | 5,822 | 61,703 |
| with inflation | 2 | 3,411 | 4,696 | 392 | 10,401 | 21,159 | 21,285 | 6,040 | 67,385 |
| TOTAL | 6,948 | 8,403 | 9,501 | 12,442 | 52,160 | 26,450 | 22,138 | 5,822 | 143,864 |
| with inflation | 6,948 | 8,403 | 9,501 | 16,051 | 57,319 | 27,036 | 22,818 | 6,040 | 154,116 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|--------|--------|--------|--------|--------|---------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91084020 - Calero and Guadalupe Dams Seismic Retrofits-Planning | 13,967 | -4,499 | 2,149 | 0 | 0 | 0 | 0 | 0 | 0 | 9,468 |
| 91874004 - Calero Dam Seismic Retrofit-Design & Construct | 75 | 4,555 | 11 | 4,593 | 15,497 | 46,749 | 5,877 | 1,533 | 0 | 78,880 |
| 91894002 - Guadalupe Dam Seismic Retrofit-Design & Construct | 24 | 3,411 | 22 | 4,674 | 392 | 10,401 | 21,159 | 21,285 | 6,040 | 67,385 |
| TOTAL | 14,066 | 3,467 | 2,182 | 9,267 | 15,889 | 57,150 | 27,036 | 22,818 | 6,040 | 155,733 |

Adjusted Budget includes adopted budget plus approved budget adjustments. Total allocated funding exceeds current planned expenditures by approximately \$1,617,000. Excess funds will be returned to Fund Reserves at the close of the project.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|----------------|
| SCVWD Water Utility Enterprise Fund | 155,733 |
| Other Funding Source | 0 |
| Total | 155,733 |

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 50+ Years

| | |
|-------------------------|---|
| Project | Coyote Pumping Plant ASD Replacement |
| Program | Water Supply – Storage |
| Priority No. | 71 |
| Project No. | 91C40377 |
| District Contact | Katherine Oven koven@valleywater.org |



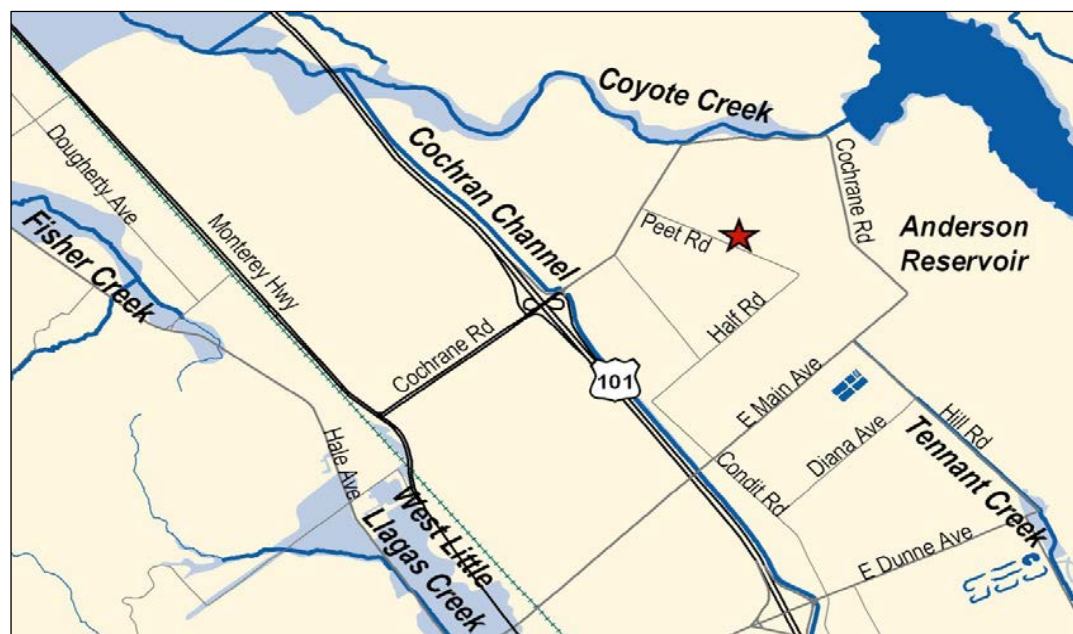
ASD Motors at the Coyote Pumping Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Coyote Pumping Plant Adjustable Speed Drives (ASD) to accomplish the following objectives:

- ♦ Replace existing outdated and unsupported ASDs with the latest technology.
- ♦ Modify/convert existing six wound rotor motors to be compatible with new stator fed ASD.
- ♦ Upgrade the HVAC system to support the additional cooling requirements.
- ♦ Modify/upgrade Supervisory Control and Data Acquisition (SCADA) control and instrumentation systems, and control strategy to support the new ASDs.
- ♦ Replace two main medium voltage circuit breaker and one medium voltage tie circuit breaker (switch) which are at the end of service life.
- ♦ Replace motor control equipment line-up (MCE) with new switchgears.
- ♦ Installation of a pump motor vibration and a power monitoring systems and motor control center.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2018 to June 2022

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 520 | | | | | | | | | | | |
| Design | 1,650 | | | | | | | | | | | |
| Construct | 12,285 | | | | | | | | | | | |
| Closeout | 65 | | | | | | | | | | | |
| | 14,520 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|------|------|------|-------|-------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91C40377-Coyote Pumping Plant ASD Replacement | 0 | 0 | 0 | 0 | 500 | 1,670 | 8,190 | 4,160 | 14,520 |
| with inflation | 0 | 0 | 0 | 0 | 562 | 1,954 | 9,586 | 5,029 | 17,131 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|------|------|-------|-------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91C40377-Coyote Pumping Plant ASD Replacement | 0 | 0 | 0 | 0 | 0 | 562 | 1,954 | 9,586 | 5,029 | 17,131 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|---------------|
| SCVWD Water Utility Enterprise Fund | 17,131 |
| Other Funding Sources | 0 |
| Total | 17,131 |

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately \$60,000 per year beginning in FY 2023.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | Coyote Pumping Plant Warehouse |
| Program | Water Supply - Storage |
| Priority No. | 50 |
| Project No. | 91234011 |
| District Contact | Katherine Oven koven@valleywater.org |



Existing storage containers being used to secure equipment and spare parts

PROJECT DESCRIPTION

This project plans, designs, and constructs the Coyote Pumping Plant Warehouse to accomplish the following objectives:

- ♦ Provide suitable storage space for pipeline spare parts and appurtenances to protect such materials from weather.
- ♦ Improve District's staff efficiency and effectiveness in pipeline maintenance work.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2014 to June 2017

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | - | | | | | | | | | | | |
| Design | 630 | | | | | | | | | | | |
| Construct | 2,076 | | | | | | | | | | | |
| Closeout | 60 | | | | | | | | | | | |
| | 2,766 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|-------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91234011-Coyote Pumping Plant Warehouse | 368 | 539 | 2,227 | 0 | 0 | 0 | 0 | 0 | 3,134 |
| with inflation | 368 | 539 | 2,227 | 0 | 0 | 0 | 0 | 0 | 3,134 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91234011-Coyote Pumping Plant Warehouse | 416 | 2,597 | 2,106 | 121 | 0 | 0 | 0 | 0 | 0 | 3,134 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|--------------|
| SCVWD Water Utility Enterprise Fund | 3,134 |
| Other Funding Sources | 0 |
| Total | 3,134 |

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined upon completion of the design phase.

USEFUL LIFE: 50 years

| | |
|-------------------------|--|
| Project | Dam Seismic Stability Evaluations |
| Program | Water Supply – Storage |
| Priority No. | 100 |
| Project No. | 91084019 |
| District Contact | Hemang Desai hdesai@valleywater.org |



Field exploration for seismic stability evaluations

PROJECT DESCRIPTION

This project conducts preliminary planning (seismic stability evaluation) for 9 dams (shown on the map) to accomplish the following objectives:

- ♦ Address seismic stability issues.
- ♦ Provide for public safety.
- ♦ Ensure operational availability of reservoirs.
- ♦ Address protection of the assets.

Site specific planning, design, and construction of dam seismic stability improvements will be funded separately. This project funds preliminary planning (seismic stability evaluation, to determine the need for seismic stability improvements) for eight dams. The seismic stability evaluation for Anderson Dam was completed in a separate project. The seismic analysis for Almaden, Calero, Guadalupe, Lenihan, and Stevens Creek Dams has been completed. The analysis for Coyote, Chesbro and Uvas is continuing through 2020.

PROJECT LOCATION



SCHEDULE & STATUS

August 2009 to December 2020

(Planning Phase Only)
Dam Safety Evaluation Report
will take 5 years to complete,
starting in 2015

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 12,026 | | | | | | | | | | | |
| Design | - | | | | | | | | | | | |
| Construct | - | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| 12,026 | | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91084019-Dam Seismic Stability Evaluations | 16,159 | 832 | 676 | 500 | 500 | 450 | 400 | 0 | 19,517 |
| with inflation | 16,159 | 832 | 676 | 541 | 562 | 526 | 487 | 0 | 19,783 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|----------------|----------------|-----------------|--------------------------|------|------|------|--------|---|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 91084019-Dam Seismic Stability Evaluations | 18,812 | 0 | 1,821 | 0 | 0 | 0 | 485 | 487 | 0 | 19,783 |

Adjusted Budget includes adopted budget plus approved budget adjustments

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|---------------|
| SCVWD Water Utility Enterprise Fund | 19,783 |
| Other Funding Source | 0 |
| Total | 19,783 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

| | |
|-------------------------|---|
| Project | Small Capital Improvements, San Felipe |
| Program | Water Supply – Storage |
| Priority No. | 78 |
| Project No. | 91214010s |
| District Contact | Angela Cheung acheung@valleywater.org |



Suction wear ring bacterial corrosion of Impeller. Similar rehabilitation projects will be done in this project.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project implements a systematic approach to equipment replacement and renewal at facilities contained within San Felipe Division by designing and constructing improvements identified through the District's 10-year asset management program. Infrastructure within this project includes tunnels, large diameter pipelines and valve structures, pumps and associated equipment, as well as a large above ground storage tank. The Reach 1 renewal and replacement activities are conducted in coordination and cooperation with San Felipe Division Reach 1 contractors, partner cities, and other agencies. Planned projects for FY 2017 include:

- ♦ 91214010–Reach 1: Replace Pacheco Pumping Plant Fire Pump
- ♦ 91224010–Reach 2: Fix Calaveras Fault Inlet/Outlet road access; Fix Santa Clara Tunnel leakage, grouting and lining ; Cathodic protection for 2 rectifiers and Anodes Well.
- ♦ 91234010–Reach 3: Cathodic protection for 2 rectifiers and Anodes Well; Replace Coyote pump discharge valve operator, flowmeter, HVOS air compressor, and isolation vavle control valve operator.

All three projects have positive NPV saving at feasibility study phase subject to design phase validation.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

| Phase | Cost |
|-----------|------|
| Plan | n/a |
| Design | n/a |
| Construct | n/a |
| Closeout | n/a |

24,453

| FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|--------------|----------------------|--------------|------------|--------------|----------|------------|---------------|---------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91214010-Small Capital Improvements, San Felipe Reach 1 | n/a | 1,412 | 1,497 | 563 | 780 | 0 | 0 | 5,277 | 9,529 |
| with inflation | n/a | 1,412 | 1,497 | 609 | 877 | 0 | 0 | 8,048 | 12,443 |
| 91224010-Small Capital Improvements, San Felipe Reach 2 | n/a | 180 | 1,145 | 46 | 0 | 0 | 0 | 0 | 1,371 |
| with inflation | n/a | 180 | 1,145 | 50 | 0 | 0 | 0 | 0 | 1,375 |
| 91234010-Small Capital Improvements, San Felipe Reach 3 | n/a | 35 | 966 | 43 | 310 | 0 | 621 | 11,578 | 13,553 |
| with inflation | n/a | 35 | 966 | 47 | 349 | 0 | 756 | 17,951 | 20,103 |
| TOTAL | 0 | 1,627 | 3,608 | 652 | 1,090 | 0 | 621 | 16,855 | 24,453 |
| with inflation | 0 | 1,627 | 3,608 | 705 | 1,226 | 0 | 756 | 25,999 | 33,921 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|--------------|--------------|--------------------------|------------|--------------|----------|------------|---------------|---------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 91214010-Small Capital Improvements, San Felipe Reach 1 | n/a | 1,413 | 0 | 1,497 | 609 | 877 | 0 | 0 | 8,048 | 12,444 |
| 91224010-Small Capital Improvements, San Felipe Reach 2 | n/a | 180 | 0 | 1,145 | 50 | 0 | 0 | 0 | 0 | 1,375 |
| 91234010-Small Capital Improvements, San Felipe Reach 3 | n/a | 35 | 0 | 966 | 47 | 349 | 0 | 756 | 17,951 | 20,103 |
| TOTAL | 0 | 1,628 | 0 | 3,608 | 705 | 1,226 | 0 | 756 | 25,999 | 33,922 |

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|---------------|
| SCVWD Water Utility Enterprise Fund | 30,941 |
| San Benito County Water District | 2,981 |
| Total | 33,922 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | 5-Year Pipeline Rehabilitation |
| Program | Water Supply – Transmission |
| Priority No. | 56 |
| Project No. | 95084001s |
| District Contact | Jim Crowley jcrowley@valleywater.org |



A typical line valve assembly to be rehabilitated

PROJECT DESCRIPTION

This project plans, designs, and constructs major repairs and improvements to the District's pipelines and tunnels to accomplish the following objectives:

- ♦ Perform internal inspections, maintenance, and repair activities as required.
- ♦ Replace old valves, flow meters, pipeline appurtenance assemblies, and piping as appropriate.
- ♦ Upgrade pipeline air valve venting in accordance with CA Department of Public Health (CDPH) guidelines.
- ♦ Modify failure prone pipeline appurtenance connections.

This project funds inspection and rehabilitation work along the pipeline and tunnel as identified below:

- ♦ 2017: West Pipeline Inspection and Rehabilitation Project

The project also funds the development of the Pipeline Maintenance Program document for Fiscal Years 2018 to 2027 and CEQA/NEPA documentation and permit acquisitions.

PROJECT LOCATION



SCHEDULE & STATUS

July 2012 to June 2017

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 1,656 | | | | | | | | | | | |
| Design | 4,448 | | | | | | | | | | | |
| Construct | 26,234 | | | | | | | | | | | |
| Closeout | 87 | | | | | | | | | | | |
| | 32,425 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|---------------|----------|----------|----------|----------|----------|---------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 95084001-5-year Pipeline Rehabilitation | 12,612 | 8,868 | 4,637 | 0 | 0 | 0 | 0 | 0 | 26,117 |
| with inflation | 12,612 | 8,868 | 4,637 | 0 | 0 | 0 | 0 | 0 | 26,117 |
| 91214001-Pacheco Conduit Inspection and Rehabilitation | 0 | 1,478 | 5,434 | 0 | 0 | 0 | 0 | 0 | 6,912 |
| with inflation | 0 | 1,478 | 5,434 | 0 | 0 | 0 | 0 | 0 | 6,912 |
| TOTAL | 12,612 | 10,346 | 10,071 | 0 | 0 | 0 | 0 | 0 | 33,029 |
| with inflation | 12,612 | 10,346 | 10,071 | 0 | 0 | 0 | 0 | 0 | 33,029 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 95084001-5-year Pipeline Rehabilitation | 14,362 | 7,981 | 863 | 3,774 | 0 | 0 | 0 | 0 | 0 | 26,117 |
| 91214001-Pacheco Conduit Inspection and Rehabilitation | 0 | 1,500 | 22 | 5,434 | 0 | 0 | 0 | 0 | 0 | 6,934 |
| TOTAL | 14,362 | 9,481 | 885 | 9,208 | 0 | 0 | 0 | 0 | 0 | 33,051 |

Adjusted Budget includes adopted budget plus approved budget adjustments. Total funding allocation exceeds total project cost by approximately \$22,000. Excess funds will be returned to Fund Reserves at the close of the project.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|---------------|
| SCVWD Water Utility Enterprise Fund | 33,051 |
| San Benito County Water District | 1,520 |
| Total | 34,571 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | 10-Year Pipeline Inspection & Rehabilitation |
| Program | Water Supply – Transmission |
| Priority No. | 79 |
| Project No. | 95084002 |
| District Contact | Jim Crowley jcrowley@valleywater.org |



A typical rehabilitated line valve assembly

PROJECT DESCRIPTION

This project involves the inspection, planning, design, and renewal of the District's pipelines and tunnels to accomplish the following objectives:

- ♦ Perform dewatering and internal inspections of District's pipelines and tunnels.
- ♦ Renew distressed pipe sections as required. Renew encompasses the actions of repair, rehabilitation, and replacement.
- ♦ Perform maintenance and repair activities as required.
- ♦ Replace old valves, flow meters, pipeline appurtenance assemblies, and piping as appropriate.
- ♦ Modify failure prone pipeline appurtenance connections.

This project funds inspection and renewal work along the various pipelines and tunnels as identified below:

- ♦ 2018: Cross Valley Pipeline, Calero Pipeline, Central Pipeline
- ♦ 2019: Almaden Valley Pipeline, Santa Teresa Force Main, Rinconada Force Main, Santa Clara Conduit (SC Tunnel to SV1), West Pipeline (RWTP to Cox LV)
- ♦ 2020: Parallel East Pipeline, West Pipeline, Santa Clara Distributary, Santa Clara Conduit, Anderson Force Main
- ♦ 2021: Almaden Valley Pipeline, Santa Teresa Force Main, Rinconada Force Main, Santa Clara Conduit, West Pipeline (Cox LV to Grainger)
- ♦ 2022: Pacheco Conduit, Pacheco Tunnel Reach 2, Santa Clara Tunnel, Penitencia Force Main, Penitencia Delivery Main, South Bay Aqueduct Retrofit Inspection

PROJECT LOCATION



 Project Location

SCHEDULE & STATUS

July 2017 to June 2027

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | - | | | | | | | | | | | |
| Design | - | | | | | | | | | | | |
| Construct | 85,300 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 85,300 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|------|--------|--------|--------|-------|--------|---------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 95084002-10-Year Pipeline Inspection & Rehabilitation | 0 | 0 | 0 | 15,500 | 19,000 | 10,500 | 4,000 | 36,300 | 85,300 |
| with inflation | 0 | 0 | 0 | 16,444 | 20,762 | 11,818 | 4,637 | 46,484 | 100,145 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|----------------|----------------|-----------------|--------------------------|--------|--------|-------|--------|---------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 95084002-10-Year Pipeline Inspection & Rehabilitation | 0 | 0 | 0 | 16,444 | 20,762 | 11,818 | 4,637 | 46,484 | 100,145 | |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|----------------|
| SCVWD Water Utility Enterprise Fund | 100,145 |
| Other Funding Sources | 0 |
| Total | 100,145 |

OPERATING COST IMPACTS

Operating cost impacts will be determined during the construction phase.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | FAHCE Implementation |
| Program | Water Supply - Transmission |
| Priority No. | 73 |
| Project No. | 92C40357 |
| District Contact | Katherine Oven koven@valleywater.org |



Fish habitats such as this will be developed for Habitat Conservation. Actual locations will differ.

PROJECT DESCRIPTION

This project funds habitat conservation projects to be implemented as part of the Three Creeks Habitat Conservation Plan (TC HCP). The Three Creeks HCP grew out of the 1996 Water Rights Complaint and subsequent Fish and Aquatic Habitat Conservation Effort (FAHCE). The capital project components of the conservation measures are likely to include projects such as: upgrades for operational adaptability and flexibility; instream channel enhancements; new fish screens, and instream barrier removals. When implemented, the TC HCP currently under development will contain conservation measures designed to:

- ♦ Meet instream flows to support fish spawning, rearing and migration.
- ♦ Provide fish passages to accommodate annual migration.
- ♦ Improve instream habitat for steelhead.

PROJECT LOCATION

Project sites will be located at reservoirs and streams within the Three Creeks Project Area, in the Guadalupe, Coyote and Stevens Creek Watersheds. Project site locations are yet to be determined and no map is provided.

SCHEDULE & STATUS

July 2017 to June 2023

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 145,108 | | | | | | | | | | | |
| Design | - | | | | | | | | | | | |
| Construct | - | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 145,108 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|-------------------------------|-----------------|----------------------|------|-------|-------|--------|--------|---------|---------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 92C40357-FAHCE Implementation | 0 | 0 | 0 | 4,739 | 4,379 | 14,691 | 14,690 | 106,609 | 145,108 |
| with inflation | 0 | 0 | 0 | 4,739 | 4,379 | 14,691 | 14,690 | 106,609 | 145,108 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|-------------------------------|-------------|-------------|--------------|--------------------------|-------|-------|--------|--------|---------|---------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 92C40357-FAHCE Implementation | 0 | 0 | 0 | 0 | 4,739 | 4,379 | 14,691 | 14,690 | 106,609 | 145,108 |

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|----------------|
| SCVWD Water Utility Enterprise Fund | 145,108 |
| Other Funding Source | 0 |
| Total | 145,108 |

OPERATING COST IMPACTS

Operating cost impacts will vary, depending on the requirements for maintenance of each site. Once the sites have been identified, operating costs will be determined based on the existing conditions and maintenance identified for each site.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | IRP2 Additional Line Valves |
| Program | Water Supply – Transmission |
| Priority No. | 63 |
| Project No. | 26C40349 |
| District Contact | Katherine Oven koven@valleywater.org |



New line valves, actuators, and vaults similar to this will be installed along the East, West, and Snell pipelines

PROJECT DESCRIPTION

This project plans, designs, and constructs four additional line valves in the treated water distribution system, as defined in the Water Infrastructure Reliability Plan, Phase 2 (IRP2). The new line valves will be at various locations along the East, West, and Snell pipeline to accomplish the following objectives:

- ♦ Allow the district to isolate sections of the treated water pipeline to prevent water from bleeding out damaged sections following a major seismic event.
- ♦ Allow the network of emergency wells to operate, even when there is damage upstream and downstream of individual wells.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2024 to June 2027

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 894 | | | | | | | | | | | |
| Design | 1,080 | | | | | | | | | | | |
| Construct | 7,655 | | | | | | | | | | | |
| Closeout | 146 | | | | | | | | | | | |
| | 9,774 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--------------------------------------|-----------------|----------------------|------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26C40349-IRP2 Additional Line Valves | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9,774 | 9,774 |
| with inflation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13,918 | 13,918 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | Total |
|--------------------------------------|----------------|----------------|-----------------|--------------------------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26C40349-IRP2 Additional Line Valves | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13,918 | 13,918 |

FUNDING SOURCES

(in thousands \$)

| | |
|-----------------------------|---------------|
| SCVWD Safe Clean Water Fund | 13,918 |
| Other Funding Source | 0 |
| Total | 13,918 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 35 Years

Project Main & Madrone Pipelines Restoration

Program Water Supply - Transmission

District Contact Katherine Oven koven@valleywater.org

Priority No. 70

Project No. 26564001s



Main Avenue Ponds facing North



Madrone Pipeline Outlet into Madrone Channel
looking North along Northbound Interstate 101

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on the full length of the Madrone Pipeline and rehabilitates the Main Avenue Pipeline to accomplish the following objectives:

- ♦ Provide the means to utilize another reliable water source, (e.g. Anderson Reservoir) to supply water to the Main Avenue Ponds and the Madrone Channel.
- ♦ Allow for greater flows to the Main Avenue Ponds and the Madrone Channel.
- ♦ Maximize imported water flows to the treatment plants.

PROJECT LOCATION



 Project Location

SCHEDULE & STATUS

July 2014 to December 2018

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 361 | | | | | | | | | | | |
| Design | 1,949 | | | | | | | | | | | |
| Construct | 20,210 | | | | | | | | | | | |
| Closeout | 90 | | | | | | | | | | | |
| | 22,610 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|------|--------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26564001-Main & Madrone Pipelines Restoration | 260 | 1,548 | 520 | 12,700 | 250 | 0 | 0 | 0 | 15,278 |
| with inflation | 260 | 1,548 | 520 | 13,488 | 281 | 0 | 0 | 0 | 16,097 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|--------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26564001-Main & Madrone Pipelines Restoration | 630 | 1,178 | 0 | 520 | 13,488 | 281 | 0 | 0 | 0 | 16,097 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|---------------|
| SCVWD Safe, Clean Water Fund | 8,300 |
| SCVWD Water Utility Enterprise Fund | 7,797 |
| Total | 16,097 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as it does not significantly alter the facility or modes of operation.

USEFUL LIFE: 40 Years

| | |
|-------------------------|---|
| Project | Pacheco/Santa Clara Conduit Right of Way Acquisition |
| Program | Water Supply – Transmission |
| Priority No. | 77 |
| Project No. | 92144001 |
| District Contact | Katherine Oven koven@valleywater.org |



Access to much of the San Felipe Division pipelines must currently be made through private property, due to a lack of easements, such as Bloomfield access at Vault 21-23.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements related to the acquisition of right-of-way along the South County Pipeline to accomplish the following objectives:

- ♦ Provide unlimited access to District owned pipeline.
- ♦ Reduce conflicts with local land owners and improve response time for emergency repairs or operations.

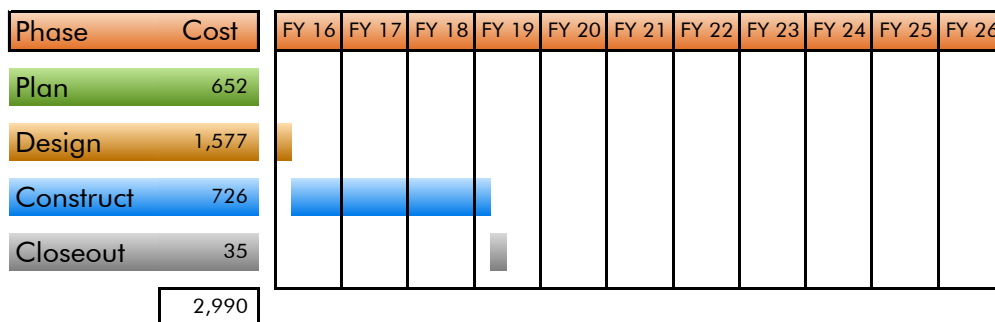
PROJECT LOCATION



 Project Location

SCHEDULE & STATUS

July 2009 to December 2018



EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|-------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition | 1,018 | 132 | 1,470 | 304 | 95 | 0 | 0 | 0 | 3,019 |
| with inflation | 1,018 | 132 | 1,470 | 328 | 106 | 0 | 0 | 0 | 3,054 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition | 1,142 | 8 | 0 | 1,470 | 328 | 106 | 0 | 0 | 0 | 3,054 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$8,000.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|--------------|
| SCVWD Water Utility Enterprise Fund | 3,035 |
| San Benito County Water District | 19 |
| Total | 3,054 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$8,000 per year, beginning in FY 2020, for vegetation control and/or maintenance of fences, gates and locks for the access roads.

USEFUL LIFE: 15-20 Years

| | |
|-------------------------|---|
| Project | Penitencia Delivery Main/Force Main Seismic Retrofit |
| Program | Water Supply – Transmission |
| Priority No. | 84 |
| Project No. | 94384002s |
| District Contact | Katherine Oven koven@valleywater.org |



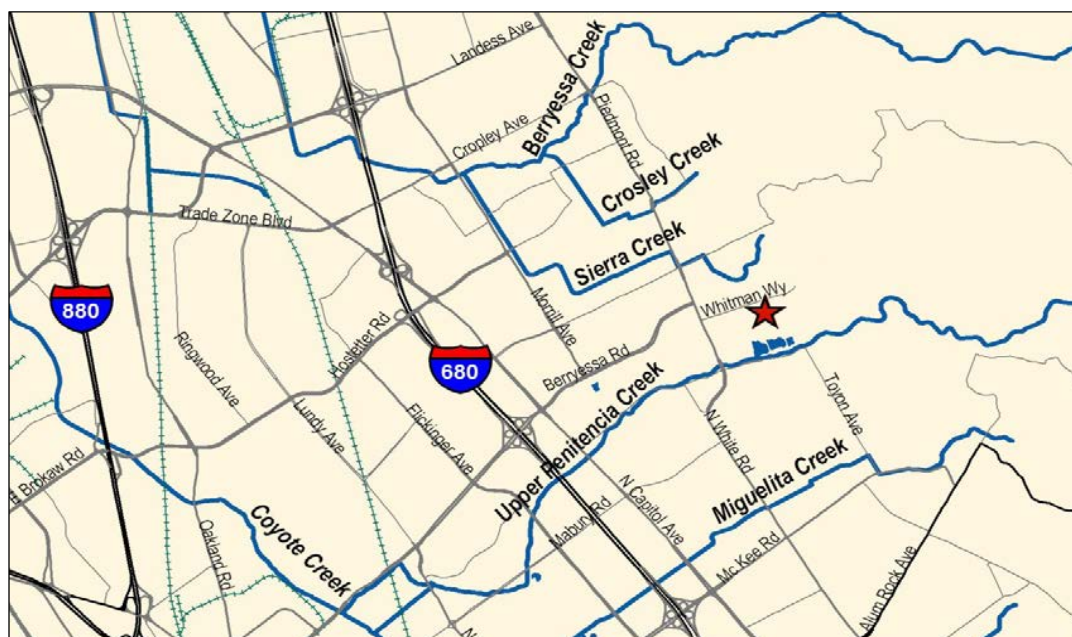
View of the Delivery Main for the Penitencia Water Treatment Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic improvements to the delivery main and force main junctions to prevent catastrophic failure due to an earthquake by accomplishing the following objectives:

- Perform a structural survey of the Penitencia Vault and Penitencia Delivery Main (PDM) Effluent Vault to ascertain the existing condition, their life expectancy, and whether any changes are necessary to accommodate the seismic retrofit project.
- Perform a seismic retrofit to the PDM, Penitencia Force Main (PFM), South Bay Aqueduct (SBA), and the Finished Water Meter Vault to accommodate both the creeping and potentially extensive seismically-induced movements of the active landslide over a 50-year design life. The Penitencia Vault is no longer necessary and will be demolished.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2012 to September 2017

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 1,881 | | | | | | | | | | | |
| Design | 1,747 | | | | | | | | | | | |
| Construct | 26,581 | | | | | | | | | | | |
| Closeout | 20 | | | | | | | | | | | |
| | 30,229 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|--------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 94384002-Penitencia Delivery Main Seismic Retrofit | 1,427 | 4,990 | 4,242 | 33 | 0 | 0 | 0 | 0 | 10,692 |
| with inflation | 1,427 | 4,990 | 4,242 | 36 | 0 | 0 | 0 | 0 | 10,695 |
| 92224001-Penitencia Force Main Seismic Retrofit | 2,105 | 9,879 | 8,353 | 62 | 0 | 0 | 0 | 0 | 20,399 |
| with inflation | 2,105 | 9,879 | 8,353 | 67 | 0 | 0 | 0 | 0 | 20,404 |
| TOTAL: | 3,532 | 14,869 | 12,595 | 95 | 0 | 0 | 0 | 0 | 31,091 |
| Total with inflation | 3,532 | 14,869 | 12,595 | 103 | 0 | 0 | 0 | 0 | 31,099 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 94384002-Penitencia Delivery Main Seismic Retrofit | 1,785 | 8,047 | 3,415 | 843 | 36 | 0 | 0 | 0 | 0 | 10,711 |
| 92224001-Penitencia Force Main Seismic Retrofit | 2,282 | 9,726 | 24 | 8,329 | 67 | 0 | 0 | 0 | 0 | 20,404 |
| TOTAL | 4,067 | 17,773 | 3,439 | 9,172 | 103 | 0 | 0 | 0 | 0 | 31,115 |

Adjusted Budget includes adopted budget plus approved budget adjustments. Allocated funding exceeds planned expenditures by approximately \$16,000. Excess funds will be returned to Fund Reserves at the close of the project.

FUNDING SOURCES

(in thousands \$)

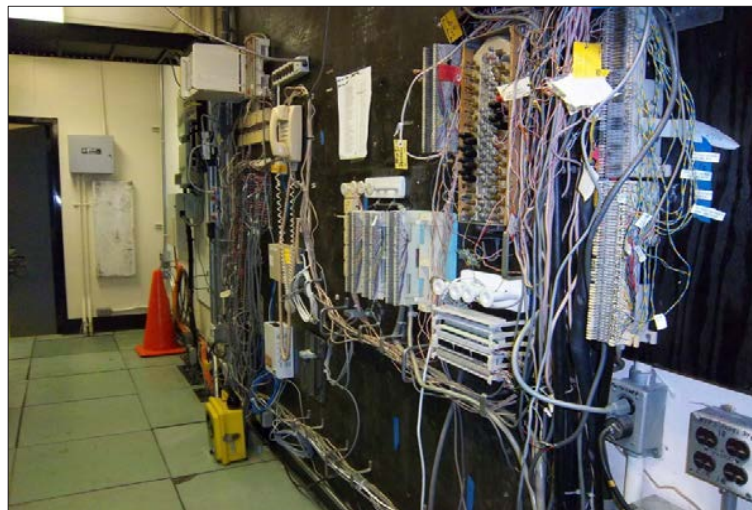
| | |
|-------------------------------------|---------------|
| SCVWD Water Utility Enterprise Fund | 31,115 |
| Other Funding Source | 0 |
| Total | 31,115 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | SCADA Remote Architecture and Communications Upgrade |
| Program | Water Supply – Transmission |
| Priority No. | 75 |
| Project No. | 92374005 |
| District Contact | Katherine Oven koven@valleywater.org |



Raw Water Control Center Hub at Rinconada Water Treatment Plant similar to what will be installed at other facilities

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to the back-up raw water control center and Process Control Systems (SCADA) telemetry to accomplish the following objectives:

- Complete the mobilizable raw water control center so it can be operated at any of the water treatment plants, pumping plants, or at District Headquarters/Almaden Campus.
- Upgrade the SCADA telemetry system to remove the single points of failure and to provide a robust and reliable telemetry system.

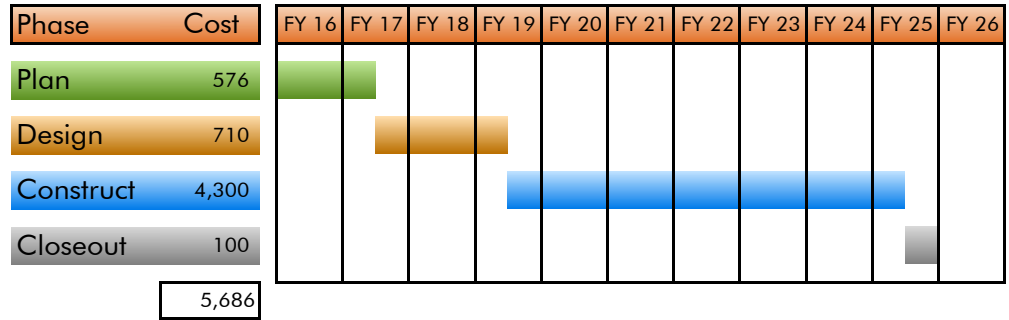
PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2015 to June 2025



EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 92374005-SCADA Remote Architecture and Communications Upgrade | 28 | 374 | 374 | 360 | 550 | 700 | 700 | 2,600 | 5,686 |
| with inflation | 28 | 374 | 374 | 389 | 619 | 819 | 852 | 3,477 | 6,931 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | Total |
|---|----------------|----------------|-----------------|--------------------------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 92374005-SCADA Remote Architecture and Communications Upgrade | 370 | 32 | 0 | 374 | 389 | 619 | 819 | 852 | 6,931 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|--------------|
| SCVWD Water Utility Enterprise Fund | 6,931 |
| Other Funding Source | 0 |
| Total | 6,931 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$80,440 per year, beginning in FY 2026 for operational support provided by control technicians, IT technicians, and SCADA engineers.

USEFUL LIFE: 25 Years

| | |
|-------------------------|---|
| Project | Small Capital Improvements, Raw Water Transmission |
| Program | Water Supply – Transmission |
| Priority No. | 73 |
| Project No. | 92764009 |
| District Contact | Angela Cheung acheung@valleywater.org |



Major repair and replacement of turnout roofs and similar small raw water capital projects will be done, per the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project will repair or rehabilitate various existing raw water distribution facilities. These activities include identifying and fixing corrosion problems, replacing valves and other appurtenances and modifying water recharge facilities to avoid failure of the raw water transmission system and extend the life of the infrastructure. This project is part of the District's 10-year asset management program. No activities planned for FY 2017.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | n/a | | | | | | | | | | | |
| Design | n/a | | | | | | | | | | | |
| Construct | n/a | | | | | | | | | | | |
| Closeout | n/a | | | | | | | | | | | |
| | n/a | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|--------------|----------------------|------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 92764009-Small Capital Improvements, Raw Water Transmission | n/a | 38 | 0 | 106 | 0 | 45 | 0 | 2,240 | 2,429 |
| with inflation | n/a | 38 | 0 | 115 | 0 | 53 | 0 | 3,438 | 3,643 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 92764009-Small Capital Improvements, Raw Water Transmission | n/a | 38 | 0 | 0 | 115 | 0 | 53 | 0 | 3,438 | 3,643 |

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|--------------|
| SCVWD Water Utility Enterprise Fund | 3,643 |
| Other Funding Source | 0 |
| Total | 3,643 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | Small Capital Improvements, Treated Water Transmission |
| Program | Water Supply – Transmission |
| Priority No. | 73 |
| Project No. | 94764006 |
| District Contact | Angela Cheung acheung@valleywater.org |

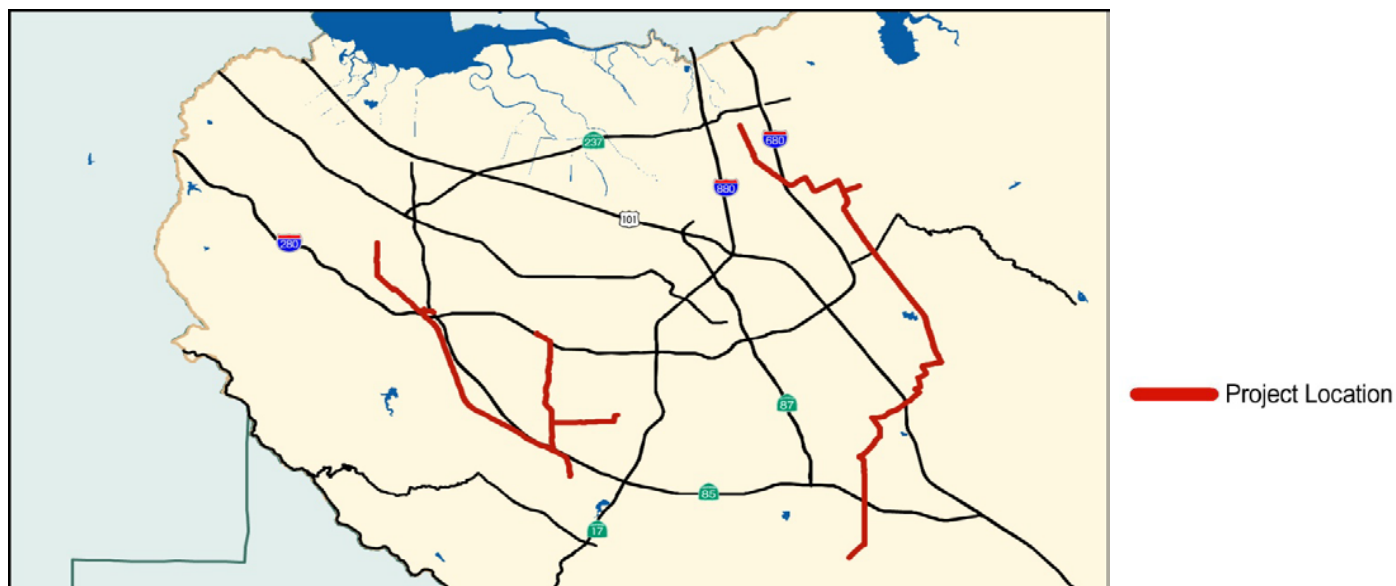


Small Capital projects at treated water transmission facilities, similar to this new valve installation in the Piedmont Line Valve Vault, will be done, per the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project will repair or rehabilitate various existing treated water distribution facilities, such as identifying and treating corrosion problems, replacing valves and other appurtenances and repairing or adding turnouts to avoid failure of the treated water transmission system and to extend the life of the infrastructure. This project is part of the District's 10-year asset management program.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | n/a | | | | | | | | | | | |
| Design | n/a | | | | | | | | | | | |
| Construct | n/a | | | | | | | | | | | |
| Closeout | n/a | | | | | | | | | | | |
| | n/a | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|--------------|----------------------|------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 94764006-Small Capital Improvements, Treated Water Transmission | n/a | 0 | 0 | 56 | 75 | 0 | 0 | 0 | 131 |
| with inflation | n/a | 0 | 0 | 61 | 84 | 0 | 0 | 0 | 145 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|------|------|------|--------|---|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 94764006-Small Capital Improvements, Treated Water Transmission | n/a | 0 | 0 | 0 | 61 | 84 | 0 | 0 | 0 | 145 |

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|------------|
| SCVWD Water Utility Enterprise Fund | 145 |
| Other Funding Source | 0 |
| Total | 145 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | Vasona Pumping Plant Upgrades |
| Program | Water Supply – Transmission |
| Priority No. | 68 |
| Project No. | 92264001 |
| District Contact | Katherine Oven koven@valleywater.org |



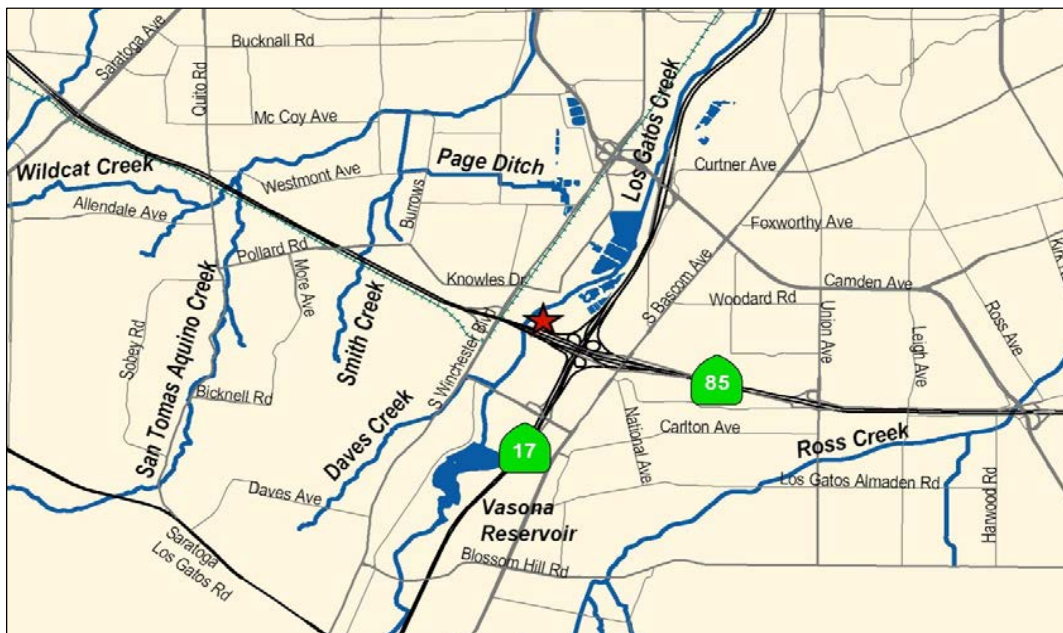
Vasona Pumping Plant Pump

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Vasona Pump Station, including replacing aging pumps, motors, drives, valves, actuators, and electrical and control systems that have reached the end of their useful life; and adding one redundant pump. The project will accomplish the following objectives:

- ♦ Eliminate the risk of failure by replacing assets that have reached the end of their useful life, including four pumps (two 200 horsepower, two 400 horsepower) and associated motors, drives, electrical and control systems, as well as pump discharge and suction valves and actuators.
- ♦ Increase operational flexibility and prepare for future capacity needs by adding one redundant pump and increasing the size of the two 200 horsepower pumps.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2016 to September 2020

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 570 | | | | | | | | | | | |
| Design | 2,360 | | | | | | | | | | | |
| Construct | 15,600 | | | | | | | | | | | |
| Closeout | 70 | | | | | | | | | | | |
| | 18,600 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|------|-------|-------|--------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 92264001-Vasona Pumping Plant Upgrades | 0 | 0 | 119 | 1,221 | 1,590 | 15,600 | 70 | 0 | 18,600 |
| with inflation | 0 | 0 | 119 | 1,321 | 1,789 | 17,673 | 85 | 0 | 20,987 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|----------------|----------------|-----------------|--------------------------|-------|-------|--------|--------|---|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 92264001-Vasona Pumping Plant Upgrades | 0 | 0 | 0 | 119 | 1,321 | 1,789 | 17,673 | 85 | 0 | 20,987 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|---------------|
| SCVWD Water Utility Enterprise Fund | 20,987 |
| Other Funding Sources | 0 |
| Total | 20,987 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$70,000 per year beginning in FY 2021.

USEFUL LIFE: 50 years

| | |
|-------------------------|---|
| Project | Fluoridation at Water Treatment Plants |
| Program | Water Supply – Treatment |
| Priority No. | 51 |
| Project No. | 93084011 |
| District Contact | Katherine Oven koven@valleywater.org |



Chemical storage tank and associated hardware will be installed at the water treatment plants for the fluoridation process

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at the water treatment plants to provide fluoridation facilities that will include fluorosilicic acid storage tanks, tank foundations, chemical feed facilities, spill containment, storage and feed equipment areas, piping, online fluoride analyzers, and accessories.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

September 2013 to June 2017

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 230 | | | | | | | | | | | |
| Design | 885 | | | | | | | | | | | |
| Construct | 8,210 | | | | | | | | | | | |
| Closeout | 85 | | | | | | | | | | | |
| | 9,410 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|-------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93084011-Fluoridation at Water Treatment Plants | 1,156 | 5,327 | 3,012 | 0 | 0 | 0 | 0 | 0 | 9,495 |
| with inflation | 1,156 | 5,327 | 3,012 | 0 | 0 | 0 | 0 | 0 | 9,495 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|----------------|----------------|-----------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93084011-Fluoridation at Water Treatment Plants | 1,148 | 5,338 | 3 | 3,009 | 0 | 0 | 0 | 0 | 0 | 9,495 |

Adjusted Budget includes adopted budget plus a planned budget adjustment for \$11,000.

FUNDING SOURCES

(in thousands \$)

| | |
|--|--------------|
| SCVWD Water Utility Enterprise Fund | 7,095 |
| The Health Trust | 1,000 |
| First 5 of Santa Clara County | 900 |
| California Dental Association Foundation | 500 |
| Total | 9,495 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$1,000,000 per year, beginning in FY 2018.

USEFUL LIFE: Fluoride System: 10 years
Bulk Storage Tanks: 20 years



The RWTP control building is one of the four buildings that will be studied and possibly retrofitted to meet safety requirements



The PWTP control building is another of the four buildings that will be studied and possibly retrofitted to meet safety requirements

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements, including seismic retrofitting of two water treatment plant operations buildings and two buildings at the Vasona Pump Station that were built prior to 1980, as defined in the Water Infrastructure Reliability Plan, Portfolio 2 (IRP2), to ensure a healthy and safe work environment for employees and provide for continued functionality of these critical facilities after a major earthquake.

In addition, this Project will consider some non-structural elements of the Rinconada Water Treatment Plant (RWTP) Control Building, such as space reallocation, Americans with Disabilities Act (ADA) improvements, and heating, ventilation, and air conditioning (HVAC) system rehabilitation.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

January 2008 to September 2017

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 1,403 | | | | | | | | | | | |
| Design | 2,934 | | | | | | | | | | | |
| Construct | 11,356 | | | | | | | | | | | |
| Closeout | 70 | | | | | | | | | | | |
| | 15,763 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|-------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93764003-IRP2 WTP Operations Buildings Seismic Retrofit | 16,178 | 4,130 | 1,482 | 70 | 0 | 0 | 0 | 0 | 21,860 |
| with inflation | 16,178 | 4,130 | 1,482 | 76 | 0 | 0 | 0 | 0 | 21,866 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93764003-IRP2 WTP Operations Buildings Seismic Retrofit | 19,686 | 1,306 | 684 | 798 | 76 | 0 | 0 | 0 | 0 | 21,866 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$600,000.

FUNDING SOURCES

(in thousands \$)

| | |
|--|---------------|
| SCVWD Water Utility Enterprise Fund | 21,162 |
| Federal Emergency Management Agency (FEMA) | 704 |
| Total | 21,866 |

OPERATING COST IMPACTS

Completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not alter the existing modes of operation. However, seismic retrofit will reduce or avoid structural damages and reduce the cost of post-earthquake repairs.

USEFUL LIFE: 50+ Years

| | |
|-------------------------|--|
| Project | PWTP Clearwell Recoating and Repair |
| Program | Water Supply – Treatment |
| Priority No. | 68 |
| Project No. | 93234043 |
| District Contact | Katherine Oven koven@valleywater.org |



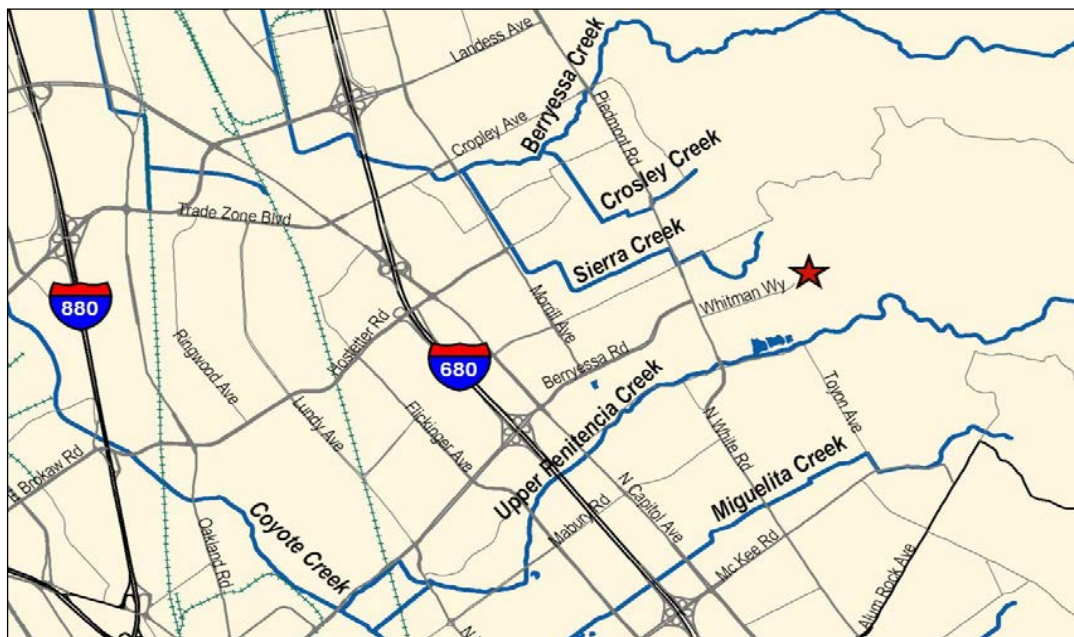
Active corrosion of the rafters and rafter support

PROJECT DESCRIPTION

This project plans, designs, and constructs corrosion repairs to the existing clearwell at Penitencia Water Treatment Plant (PWTP) to accomplish the following objectives:

- Extend the life of the PWTP Clearwell by replacing the roof and removing as much corrosion as possible from the walls and recoating surfaces as necessary.
- Replace the existing roof and supports to address the corrosion as identified in the January 2009 report by Bay Area Coating Consultants.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2010 to June 2017

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 530 | | | | | | | | | | | |
| Design | 535 | | | | | | | | | | | |
| Construct | 5,153 | | | | | | | | | | | |
| Closeout | 15 | | | | | | | | | | | |
| | 6,233 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|-------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93234043-PWTP Clearwell Recoating and Repair | 1,241 | 2,085 | 3,008 | 110 | 0 | 0 | 0 | 0 | 6,444 |
| with inflation | 1,241 | 2,085 | 3,008 | 119 | 0 | 0 | 0 | 0 | 6,453 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93234043-PWTP Clearwell Recoating and Repair | 4,516 | 1,403 | 2,593 | 550 | 119 | 0 | 0 | 0 | 0 | 6,588 |

Adjusted Budget includes adopted budget plus approved budget adjustments. Allocated funding exceeds total planned expenditures by approximately \$135,000. Excess funds will be returned to Fund Reserves at the close of the project.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|--------------|
| SCVWD Water Utility Enterprise Fund | 6,588 |
| Other Funding Source | 0 |
| Total | 6,588 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs as it does not alter existing modes of operation.

USEFUL LIFE: 15 Years

Project PWTP Residuals Management

Program Water Supply - Treatment

District Contact Katherine Oven koven@valleywater.org

Priority No. 57

Project No. 93C40390



Existing belt press to be replaced with new residuals management facility



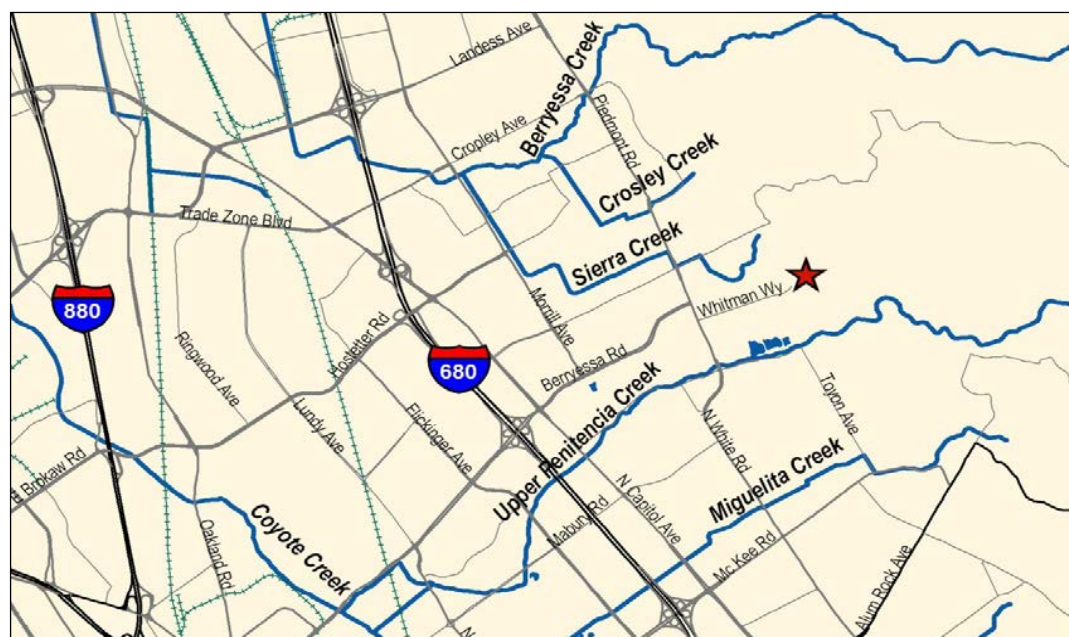
Existing belt press to be replaced with new residuals management facility

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Penitencia Water Treatment Plant (PWTP) residuals management process to accomplish the following objectives:

- Extend the useful life of the treatment plant.
- Improve the efficiency of the residual management processes.
- Minimize or eliminate (existing) operational constraints and impacts to the drinking water treatment process.
- Minimize risk of discharge violations.
- Improve the reliability of PWTP.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

January 2018 to June 2020

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 650 | | | | | | | | | | | |
| Design | 1,300 | | | | | | | | | | | |
| Construct | 6,925 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 8,875 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|------------------------------------|-----------------|----------------------|------|------|-------|-------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93C40390-PWTP Residuals Management | 0 | 0 | 0 | 650 | 1,300 | 6,925 | 0 | 0 | 8,875 |
| with inflation | 0 | 0 | 0 | 703 | 1,462 | 7,835 | 0 | 0 | 10,001 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|------------------------------------|----------------|----------------|-----------------|--------------------------|-------|-------|------|--------|--|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 93C40390-PWTP Residuals Management | 0 | 0 | 0 | 703 | 1,462 | 7,835 | 0 | 0 | | 10,001 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|---------------|
| SCVWD Water Utility Enterprise Fund | 10,001 |
| Other Funding Sources | 0 |
| Total | 10,001 |

OPERATING COST IMPACTS

Operating cost impacts will be determined during the construction phase.

USEFUL LIFE: Not Available

Project RWTP FRP Residuals Management

Program Water Supply - Treatment

District Contact Katherine Oven koven@valleywater.org

Priority No. 87

Project No. 93294051



Centrifuge for mechanical dewatering of sludge



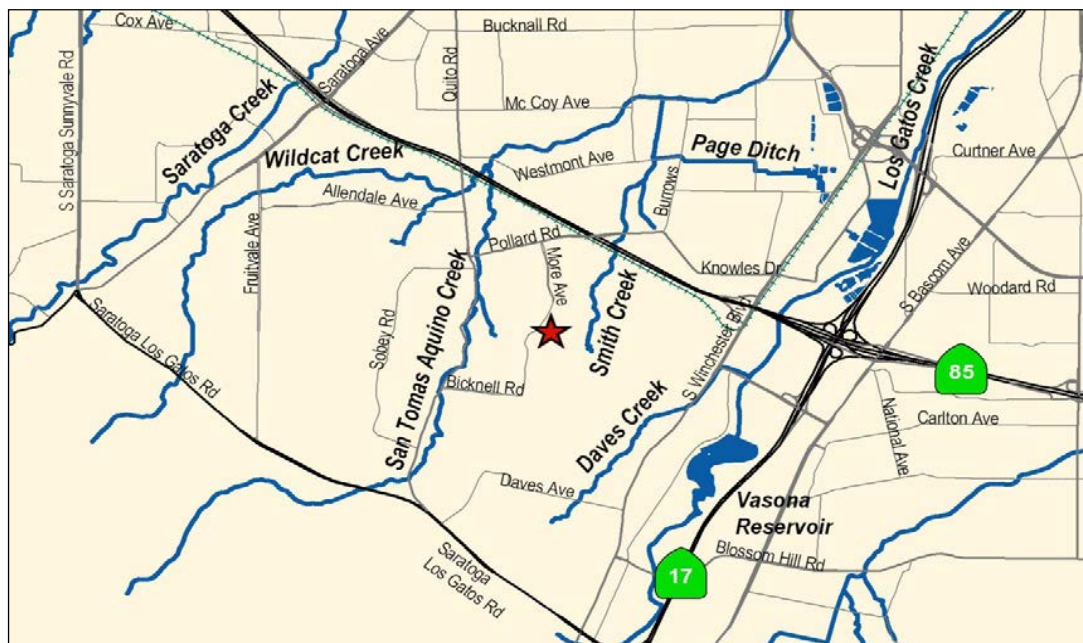
New Gravity Thickeners and Mix Tank for sludge thickening and blending

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) residuals management processes, consistent with the Facility Renewal Program (FRP) to accomplish the following objectives:

- ♦ Extend the useful life of the treatment plant.
- ♦ Improve the efficiency of the residual management processes.
- ♦ Minimize risk of discharge violations.
- ♦ Improve the reliability of RWTP.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2008 to December 2016

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 1,434 | | | | | | | | | | | |
| Design | 2,312 | | | | | | | | | | | |
| Construct | 17,510 | | | | | | | | | | | |
| Closeout | 95 | | | | | | | | | | | |
| | 21,351 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93294051-RWTP FRP Residuals Management | 24,720 | 1,588 | 118 | 0 | 0 | 0 | 0 | 0 | 26,426 |
| with inflation | 24,720 | 1,588 | 118 | 0 | 0 | 0 | 0 | 0 | 26,426 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93294051-RWTP FRP Residuals Management | 26,022 | 286 | 0 | 118 | 0 | 0 | 0 | 0 | 0 | 26,426 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$212,000.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|---------------|
| SCVWD Water Utility Enterprise Fund | 26,426 |
| Other Funding Source | 0 |
| Total | 26,426 |

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease annual operating costs by approximately \$200,000 per year starting in 2018.

USEFUL LIFE: Structures – 50 Years; Mechanical Equipment – 15 Years; Electrical Equipment – 10 Years

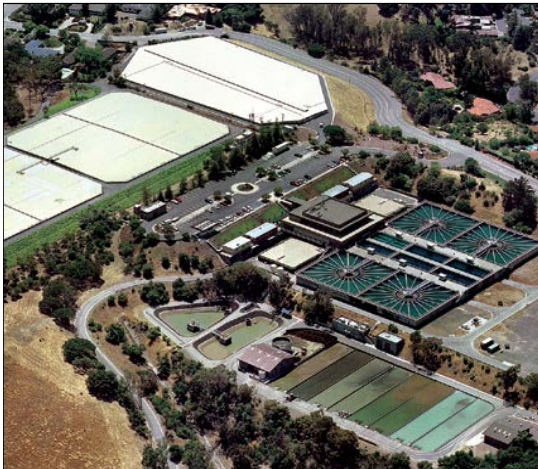
Project RWTP Reliability Improvement

Program Water Supply - Treatment

District Contact Katherine Oven koven@valleywater.org

Priority No. 91

Project No. 93294057



Aerial view of the Rinconada Water Treatment Plant facing west



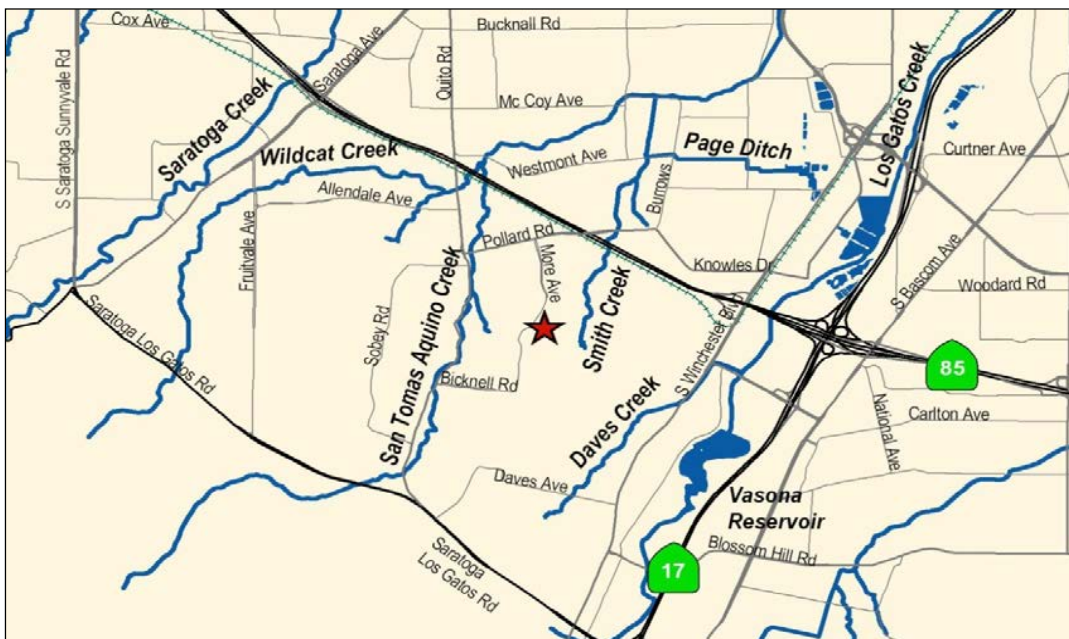
Artist rendering of the aerial view of the Rinconada Water Treatment Plant facing south after construction

PROJECT DESCRIPTION

This project plans, designs, and constructs new facilities at Rinconada Water Treatment Plant (RWTP) that will improve plant reliability by accomplishing the following objectives:

- ♦ Construct a new raw water ozonation facility.
- ♦ Construct a new flocculation and plate settler clarification facility.
- ♦ Implement a dual media filtration system.
- ♦ Increase plant capacity to 100 million gallons per day (MGD).

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2009 to June 2021

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 1,801 | | | | | | | | | | | |
| Design | 11,352 | | | | | | | | | | | |
| Construct | 223,630 | | | | | | | | | | | |
| Closeout | 120 | | | | | | | | | | | |
| | 236,903 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---------------------------------------|-----------------|----------------------|--------|--------|--------|--------|------|--------|---------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93294057-RWTP Reliability Improvement | 25,764 | 45,752 | 44,712 | 43,900 | 43,900 | 44,930 | 120 | 0 | 249,078 |
| with inflation | 25,764 | 45,752 | 44,712 | 44,496 | 44,811 | 46,345 | 146 | 0 | 252,025 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---------------------------------------|----------------|----------------|-----------------|--------------------------|--------|--------|--------|------|--------|---------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93294057-RWTP Reliability Improvement | 26,507 | 45,009 | 0 | 44,712 | 44,496 | 44,811 | 46,345 | 146 | 0 | 252,025 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$7,000.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|----------------|
| SCVWD Water Utility Enterprise Fund | 252,025 |
| Other Funding Source | 0 |
| Total | 252,025 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$1.4 million per year, beginning in FY 2022. Increases are for routine maintenance and operation of new equipment.

USEFUL LIFE: Media – 20 Years; Structures – 50 Years; Equipment – 15 Years

| | |
|-------------------------|--|
| Project | RWTP Treated Water Valves Upgrade |
| Program | Water Supply – Treatment |
| Priority No. | 87 |
| Project No. | 93294056 |
| District Contact | Katherine Oven koven@valleywater.org |



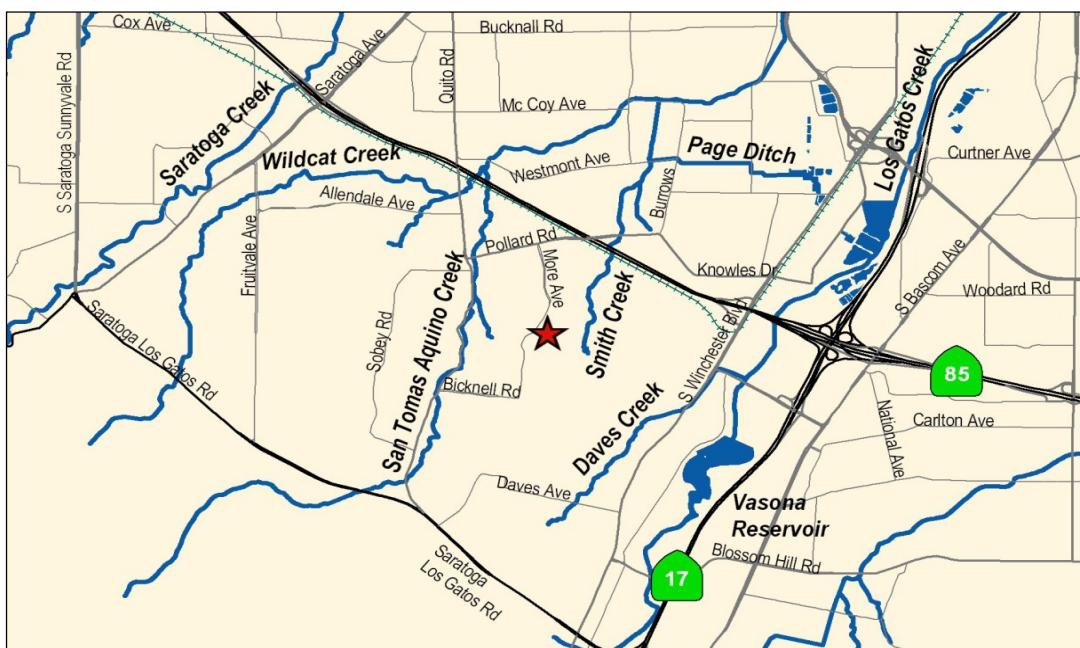
Example of a valve to be replaced or upgraded

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) including seismically strengthening the chemical storage structures; replacing/upgrading the valves and appurtenances used to control treated water at the clearwells and the Rinconada Reservoir; repairing a damaged baffle wall in the Rinconada Reservoir; and installing a 48-inch magnetic flow meter on the treatment plant's treated water effluent pipeline. Consistent with the Facility Renewal Program (FRP), this project will accomplish the following objectives:

- ♦ Ensure plant operational reliability.
- ♦ Improve ability to maintain the plant.
- ♦ Allow for better isolation of the treated water control valves for future work.
- ♦ Achieve greater accuracy in measuring treated water deliveries.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2009 to December 2016

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 465 | | | | | | | | | | | |
| Design | 1,476 | | | | | | | | | | | |
| Construct | 6,417 | | | | | | | | | | | |
| Closeout | 33 | | | | | | | | | | | |
| | 8,391 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93294056-RWTP Treated Water Valves Upgrade | 7,736 | 617 | 73 | 0 | 0 | 0 | 0 | 0 | 8,426 |
| with inflation | 7,736 | 617 | 73 | 0 | 0 | 0 | 0 | 0 | 8,426 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93294056-RWTP Treated Water Valves Upgrade | 8,075 | 296 | 18 | 55 | 0 | 0 | 0 | 0 | 0 | 8,426 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$2,000.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|--------------|
| SCVWD Water Utility Enterprise Fund | 8,426 |
| Other Funding Source | 0 |
| Total | 8,426 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operations.

USEFUL LIFE: 40 Years

| | |
|-------------------------|--|
| Project | Small Capital Improvements, Water Treatment |
| Program | Water Supply – Treatment |
| Priority No. | 73 |
| Project No. | 93764004 |
| District Contact | Angela Cheung acheung@valleywater.org |



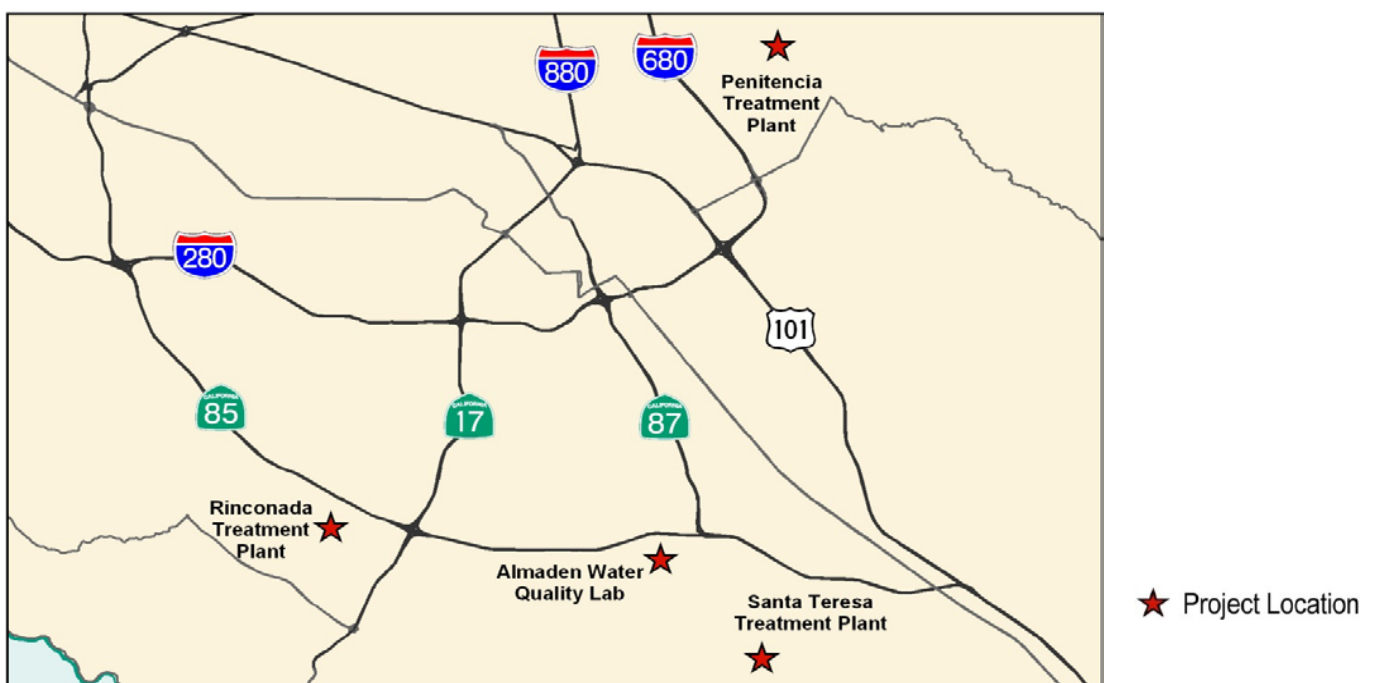
Sludge pond sediment removal at Santa Teresa Water Treatment Plant

PROJECT DESCRIPTION

This project provides resources for small capital improvements that replace or extend the life of an asset. This project implements a systematic approach of equipment replacement and renewal at the three water treatment plants and laboratory by designing and constructing improvements identified as part of the District's 10-year asset management program. Typical activities included in this project include pump, motor, instrumentation and valve replacement; chemical tank repairs; and large-scale renewal and replacement activities like clarifier mechanism overhaul and replacement. Planned projects to complete in FY 2017 for Santa Teresa Water Treatment Plant (STWTP), Penitencia Water Treatment Plan (PWTP), Rinconada Water Treatment Plant (RWTP, West Pipeline, and Silicon Valley Advanced Water Purification Center (SVAWPC) include:

- Provide electrical and control system engineering services for District SCADA standards development, Operational Data Management System Upgrade, and other HMI and PLC technical upgrades.
- Purchase and install Water Quality Lab Instrumentation.
- Complete Small Capital Projects at STWTP, RWTP, PWTP and Campbell Well Field.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | n/a | | | | | | | | | | | |
| Design | n/a | | | | | | | | | | | |
| Construct | n/a | | | | | | | | | | | |
| Closeout | n/a | | | | | | | | | | | |
| | n/a | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|--------------|----------------------|-------|------|-------|-------|-------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 93764004-Small Capital Improvements, Water Treatment | n/a | 3,509 | 2,831 | 723 | 4,858 | 3,045 | 2,870 | 27,500 | 45,336 |
| with inflation | n/a | 3,509 | 2,831 | 782 | 5,465 | 3,562 | 3,492 | 41,768 | 61,409 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|-------|-------|--------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 93764004-Small Capital Improvements, Water Treatment | n/a | 3,509 | 0 | 2,831 | 782 | 5,465 | 3,562 | 3,492 | 41,768 | 61,409 |

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Excess funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|---------------|
| SCVWD Water Utility Enterprise Fund | 61,409 |
| Other Funding Source | 0 |
| Total | 61,409 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | PureWater Silicon Valley |
| Program | Water Supply – Recycled Water |
| Priority No. | 81 |
| Project No. | 91304001s |
| District Contact | Katherine Oven koven@valleywater.org |



Reverse osmosis membranes used for water purification

PROJECT DESCRIPTION

This project plans, designs, and constructs new infrastructure proposed in the District's 2012 Water Supply and Infrastructure Master Plan to accomplish the following objectives:

- Expand the District's long-term water supply portfolio.
- Ensure a drought-proof and reliable water supply for Silicon Valley.

Project elements may include, but are not limited to:

- Expansion of the Silicon Valley Advanced Water Purification Center.
- Installation of pipelines to convey advanced purified water to the District's existing groundwater recharge ponds.
- Installation of purified water injection wells at strategic locations to better manage the groundwater basin.
- Construction and operation of an advanced water purification center for groundwater recharge at Ford Ponds.
- Partnership with the City of Sunnyvale to implement advanced water purification facilities at the City's wastewater treatment plant.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

April 2015 to June 2025

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 23,395 | | | | | | | | | | | |
| Design | 60,412 | | | | | | | | | | | |
| Construct | 739,962 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| 823,769 | | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91304001 - Indirect Potable Water Reuse Projects - Planning | 951 | 16,500 | 3,120 | 500 | 500 | 500 | 0 | 0 | 22,071 |
| with inflation | 951 | 16,500 | 3,120 | 541 | 562 | 585 | 0 | 0 | 22,259 |
| 91284009 - Silicon Valley Advanced Water Purification Center Expansion | 18 | 2,000 | 4,228 | 14,972 | 48,500 | 117,000 | 107,000 | 6,000 | 299,718 |
| with inflation | 18 | 2,000 | 4,228 | 16,194 | 73,528 | 118,189 | 108,517 | 6,266 | 328,939 |
| 91384001 - Purified Water Pipelines | 0 | 0 | 3,351 | 10,997 | 36,600 | 89,000 | 82,000 | 4,500 | 226,448 |
| with inflation | 0 | 0 | 3,351 | 11,894 | 55,712 | 89,849 | 83,083 | 4,686 | 248,576 |
| 91C40389 - Other IPR Project Elements | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 276,212 | 276,212 |
| with inflation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344,952 | 344,952 |
| TOTAL | 969 | 18,500 | 10,699 | 26,469 | 85,600 | 206,500 | 189,000 | 286,712 | 824,449 |
| with inflation | 969 | 18,500 | 10,699 | 28,629 | 129,802 | 208,623 | 191,600 | 355,904 | 944,726 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|----------------|----------------|-----------------|--------------------------|---------------|----------------|----------------|----------------|----------------|----------------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91304001 - Indirect Potable Water Reuse Projects - Planning | 2,000 | 16,481 | 1,030 | 2,090 | 541 | 562 | 585 | 0 | 0 | 22,259 |
| 91284009 - Silicon Valley Advanced Water Purification Center Expansion | 0 | 2,018 | 0 | 4,228 | 16,194 | 73,528 | 118,189 | 108,517 | 6,266 | 328,939 |
| 91384001 - Purified Water Pipelines | 0 | 0 | 0 | 3,351 | 11,894 | 55,712 | 89,849 | 83,083 | 4,686 | 248,576 |
| 91C40389 - Other IPR Project Elements | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344,952 | 344,952 |
| TOTAL | 2,000 | 18,499 | 1,030 | 9,669 | 28,629 | 129,802 | 208,623 | 191,600 | 355,904 | 944,726 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$3,299,000.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|----------------|
| SCVWD Water Utility Enterprise Fund | 944,726 |
| Other Funding Sources | 0 |
| Total | 944,726 |

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: Not Available

Project Silicon Valley Advanced Water Purification Center

Program Water Supply - Recycled Water

District Contact Katherine Oven koven@valleywater.org

Priority No. 17

Project No. 91184008



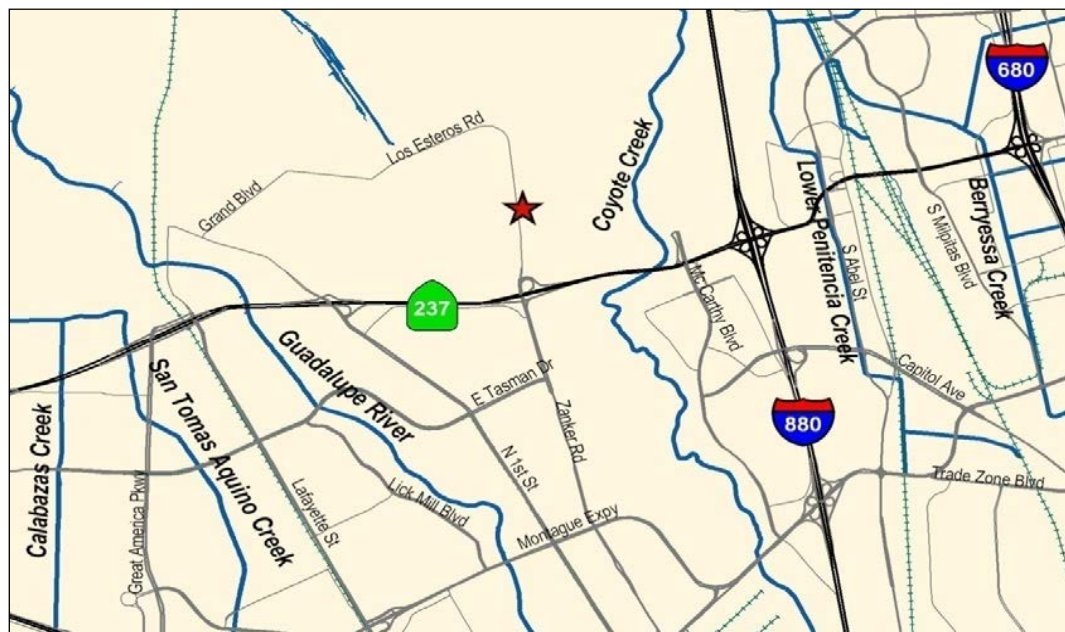
Panoramic view of the Silicon Valley Advanced Water Purification Center

PROJECT DESCRIPTION

This project plans, designs, and constructs a 10-mgd (million-gallons-per-day) Silicon Valley Advanced Water Purification Center (SVAWPC) within the footprint of the South Bay Water Recycling's Water Pollution Control Plant (WPCP) in San Jose, to accomplish the following objectives:

- ♦ Improve recycled water quality to enhance marketability.
- ♦ Increase the operational reliability and flexibility of recycled water.
- ♦ Retain existing customers who may have water quality (especially salinity) issues.
- ♦ Improve public acceptance of recycled water.
- ♦ Maximize water recycling alternatives.
- ♦ Reduce fresh water effluent discharges into San Francisco Bay to protect endangered species.
- ♦ Increase tertiary treatment capacity for the water pollution control plant.
- ♦ Preserve options for future groundwater recharge and reuse.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

January 2004 to December 2016

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 2,672 | | | | | | | | | | | |
| Design | 3,267 | | | | | | | | | | | |
| Construct | 69,932 | | | | | | | | | | | |
| Closeout | 92 | | | | | | | | | | | |
| | 75,963 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91184008-Silicon Valley Advanced Water Purification Center | 75,959 | 721 | 135 | 0 | 0 | 0 | 0 | 0 | 76,815 |
| with inflation | 75,959 | 721 | 135 | 0 | 0 | 0 | 0 | 0 | 76,815 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91184008-Silicon Valley Advanced Water Purification Center | 75,928 | 838 | 86 | 49 | 0 | 0 | 0 | 0 | 0 | 76,815 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$247,000.

FUNDING SOURCES

(in thousands \$)

| | |
|--|--------|
| SCVWD Water Utility Enterprise Fund | 54,770 |
| City of San Jose | 8,500 |
| California Department of Water Resources - Prop 50 | 2,935 |
| California Department of Water Resources - Prop 84 | 2,485 |
| United States Bureau of Reclamation (USBR) ARRA | 8,125 |
| Total | 76,815 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase the District's operating costs by approximately \$1.75 million per year, beginning in FY 2018. The City of San Jose will also be responsible for contributing the same amount to cover total annual operations costs of approximately \$3.5 million. Total cost includes labor, membranes replacement, energy, UV lamp replacement, chemicals, and other necessary items.

USEFUL LIFE: 20-30 Years

| | |
|-------------------------|---|
| Project | South County Recycled Water Pipeline |
| Program | Water Supply – Recycled Water |
| Priority No. | 17 |
| Project No. | 91094007s |
| District Contact | Katherine Oven koven@valleywater.org |



Recycled water purple pipeline waiting to be laid during construction of Immediate Term project

PROJECT DESCRIPTION

This project plans, designs, and constructs water recycling systems based on the South County Recycled Water Master Plan accepted in December 2004 to improve system redundancy, reliability, and capacity. The current Master Plan report presents a 20-year capital program for expanding water recycling in South County in three phases; Immediate Term, Short Term, and Long Term:

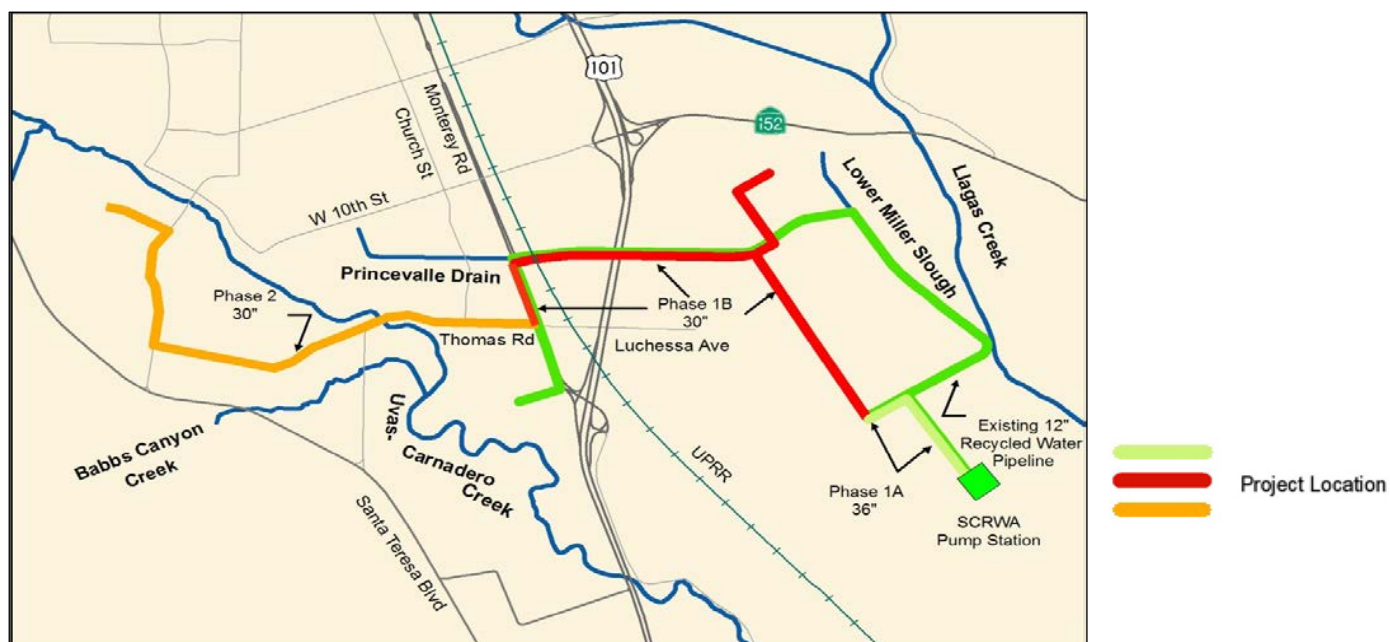
Completed:

- ♦ 91094007 Gilroy Pipelines and Reservoir (Immediate Term) which included design and construction of recycled water storage, pumping, and distribution facilities for agricultural use near the SCRWA treatment plant.
- ♦ 91094008 Gilroy Pipelines (Short Term) Phase 1A, installation of approximately 3000 feet of 30-inch and 36-inch pipeline.

Currently Underway:

- ♦ 91094009 Gilroy Pipelines (Short Term) Phase 1B/2A will construct an additional 14,000 linear feet of pipeline.
- ♦ 91094010 Gilroy Pipelines (Short Term) Phase 2 will be completed through cost-sharing opportunities with the City of Gilroy and land developers to construct approximately 3,900 linear feet of 30-inch diameter pipe.
- ♦ 91094010 Gilroy Pipelines (Long-Term) Phase 1 to be completed through cost-sharing opportunities with the land developers through coordination by the City of Gilroy to construct approximately 9,200 linear feet of 24-inch diameter pipe.

PROJECT LOCATION



SCHEDULE & STATUS

July 2009 to June 2020

The schedule chart shows Short-Term Phase 1B and Phase 2 projects only. The Immediate-Term and Short-Term Phase 1A projects are complete.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 2,736 | | | | | | | | | | | |
| Design | 7,361 | | | | | | | | | | | |
| Construct | 33,395 | | | | | | | | | | | |
| Closeout | 154 | | | | | | | | | | | |
| | 43,646 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|---------------|----------------------|---------------|------------|------------|------------|----------|----------|---------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91094007-Recycled Water South County Masterplan - Immediate Term | 3,257 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,257 |
| with inflation | 3,257 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,257 |
| 91094008-Recycled Water South County Masterplan - Short Term 1A | 5,391 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,391 |
| with inflation | 5,391 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,391 |
| 91094009-South County Recycled Water Pipeline - Short Term 1B | 6,978 | 1,406 | 18,416 | 169 | 0 | 0 | 0 | 0 | 26,969 |
| with inflation | 6,978 | 1,406 | 18,416 | 183 | 0 | 0 | 0 | 0 | 26,983 |
| 91094010-South County Recycled Water Pipeline - Short Term 2 | 108 | 318 | 6,964 | 420 | 320 | 320 | 0 | 0 | 8,450 |
| with inflation | 108 | 318 | 6,964 | 446 | 350 | 361 | 0 | 0 | 8,547 |
| TOTAL | 15,734 | 1,724 | 25,380 | 589 | 320 | 320 | 0 | 0 | 44,067 |
| with inflation | 15,734 | 1,724 | 25,380 | 629 | 350 | 361 | 0 | 0 | 44,178 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91094007-Recycled Water South County Masterplan - Immediate Term | 3,257 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,257 |
| 91094008-Recycled Water South County Masterplan - Short Term 1A | 5,391 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,391 |
| 91094009-South County Recycled Water Pipeline - Short Term 1B | 6,547 | 4,481 | 2,644 | 15,772 | 183 | 0 | 0 | 0 | 0 | 26,983 |
| 91094010-South County Recycled Water Pipeline - Short Term 2 | 2,000 | 6,108 | 7,682 | 0 | 0 | 78 | 361 | 0 | 0 | 8,547 |
| TOTAL | 17,195 | 10,589 | 10,326 | 15,772 | 183 | 78 | 361 | 0 | 0 | 44,178 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|---|---------------|
| SCVWD Water Utility Enterprise Fund | 42,175 |
| South County Regional Wastewater Authority | 708 |
| United States Bureau of Reclamation (USBR) ARRA | 1,295 |
| Total | 44,178 |

OPERATING COST IMPACTS

Estimated District share of the operating and maintenance costs are \$8,000 per year for the Immediate-Term phase, beginning in FY 2007 and an additional \$25,000 for the Short-Term Phase 1, beginning in FY 2019. Increases for Immediate Term are primarily labor costs for operating the new 3mg reservoir and its pump station. Increases for Short Term are labor and materials to maintain the 42,000 feet of new pipeline, exercising valves and cathodic protection.

USEFUL LIFE: Pipelines – 50 Year; Pumps – 20 Years

| | |
|-------------------------|---|
| Project | Wolfe Road Recycled Water Facility |
| Program | Water Supply – Recycled Water |
| Priority No. | 39 |
| Project No. | 91244001 |
| District Contact | Katherine Oven koven@valleywater.org |



Artist's rendering of the new Apple campus and surrounding grounds that will be maintained using recycled water supplied by the Wolfe Road pipeline

PROJECT DESCRIPTION

This project plans, designs, and constructs approximately 13,300 linear feet of pipeline along Wolfe Road to deliver recycled water to the west side of Sunnyvale and the new Apple campus in Cupertino.

PROJECT LOCATION



 Project Location

SCHEDULE & STATUS

September 2013 to January 2017

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 13 | | | | | | | | | | | |
| Design | 1,675 | | | | | | | | | | | |
| Construct | 16,050 | | | | | | | | | | | |
| Closeout | 17 | | | | | | | | | | | |
| | 17,755 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|-------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91244001-Wolfe Road Recycled Water Facility | 1,302 | 15,399 | 1,127 | 0 | 0 | 0 | 0 | 0 | 17,828 |
| with inflation | 1,302 | 15,399 | 1,127 | 0 | 0 | 0 | 0 | 0 | 17,828 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 91244001-Wolfe Road Recycled Water Facility | 10,608 | 6,563 | 470 | 657 | 0 | 0 | 0 | 0 | 0 | 17,828 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|--|---------------|
| SCVWD Water Utility Enterprise Fund | 6,928 |
| Apple Inc. | 4,800 |
| California Department of Water Resources | 2,500 |
| Cal Water | 1,500 |
| City of Sunnyvale | 2,100 |
| Total | 17,828 |

OPERATING COST IMPACTS

The operating budget impact to operate and maintain the Wolfe Rd. Recycled Water Facilities is estimated to be \$25,000 per year beginning in FY18, plus power costs of approximately \$56 per each acre-foot of water delivered.

USEFUL LIFE: 50 Years

Flood Protection Capital Improvements

FLOOD PROTECTION OVERVIEW

The District manages approximately 800 miles of creeks in Santa Clara County to meet the Board's Ends Policy E-3, "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations." The district's goals are further defined in E-3.1, "Provide natural flood protection for residents, businesses, and visitors" and E-3.2, "Reduce potential for flood damages." The 800 miles of creeks are located in five watersheds: Lower Peninsula, West Valley, Guadalupe, Coyote, and Uvas/Llagas. The District administers an asset management program for its flood protection infrastructure. The program includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

Fifty years of working for flood protection has significantly reduced the intensity and frequency of flooding in Santa Clara County. By 2005 the District had provided flood protection to 93,253 of the 166,526 parcels in the flood plain and another 6,642 have been protected since then.

The voters in Santa Clara County have supported the District's flood protection efforts by approving benefit assessment funding in 1982, 1986, and 1990. Voters approved a special parcel tax in 2000 and 2012 to fund the continuation of the District's flood protection capital improvements, specifically, moving upstream from the completed downstream work or starting new work on creeks that have not had flood protection work.

Lower Peninsula Watershed

Major Capital Improvements Completed

- Adobe Creek from El Camino to West Edith Ave.
- Barron Creek
- Matadero Creek from Palo Alto Flood Basin to Barron Creek
- Stevens Creek from Highway 101 to Homestead Road

Major Capital Improvements Identified in the CIP

- Palo Alto Flood Basin Structure Improvements
- Permanente Creek from S.F. Bay to Foothill Expressway (Safe, Clean Water)
- San Francisquito Creek from S.F. Bay to Searsville Dam (Clean, Safe Creeks/Safe, Clean Water)

West Valley Watershed

Major Capital Improvements Completed

- Calabazas Creek from Guadalupe Slough to Wardell Road
- San Tomas Creek from Southern Pacific Railroad to Cabrillo Avenue
- Saratoga Creek from San Tomas Creek to Lawrence Expressway

Major Capital Improvements Identified in the CIP

- Sunnyvale East and West Channels (Clean, Safe Creeks)

Guadalupe Watershed

Major Capital Improvements Completed

- Alamitos Creek
- Guadalupe River-Lower from Alviso Marina to Interstate 880
- Guadalupe River-Downtown from Interstate 880 to Interstate 280

Major Capital Improvements Identified in the CIP

- Guadalupe River-Upper, Interstate 280 to Blossom Hill Road (Clean, Safe Creeks/Safe, Clean Water)

Coyote Watershed

Major Capital Improvements Completed

- Coyote Creek from S.F. Bay to Montague Expressway
- Lower Penitencia Creek from Coyote Creek to Tasman Drive
- Lower Silver Creek from Coyote Creek to Interstate 680 (Reaches 1-3, 4, 5 & 6A)
- Wrigley Ford Creek

Major Capital Improvements Identified in the CIP

- Berryessa Creek from Calaveras Boulevard to Old Piedmont Road (Clean, Safe Creeks)
- Berryessa Creek from Lower Penitencia Creek to Calaveras Boulevard
- Coyote Creek Montague Expressway to Interstate 280 (Clean, Safe Creeks)
- Lower Silver Creek from Interstate 680 to Lake Cunningham (Reaches 6B)
- Upper Penitencia Creek from Coyote Creek to Dorel Drive (Safe, Clean Water)

Flood Protection Capital Improvements

Uvas/Llagas Watershed

Major Capital Improvements Completed

- Llagas Creek–Lower from Pajaro River to Buena Vista Road
- Uvas Creek

Major Capital Improvements Identified in the CIP

- Llagas Creek Capacity Restoration from Buena Vista Road to Pajaro River
- Llagas Creek–Upper, Buena Vista Road to Llagas Road (Clean, Safe Creeks/Safe, Clean Water)

Multiple Watersheds

Major Capital Improvements Identified in the CIP

- Erosion Repair Program
- San Francisco Bay Shoreline (Safe, Clean Water)

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to ensure that the new flood protection projects proposed to be added to the Fiscal Year 2016-20 CIP reflect the Board's priorities. The priority criteria used are included in Appendix A.

A financial analysis of the Watershed and Steam Stewardship Fund and Safe, Clean Water Fund, the funding sources for flood protection capital improvements, was conducted to determine if there are limitations to funding all of the projects proposed for the Fiscal Year 2016-20 CIP. Results of the prioritization process and financial analysis are summarized in Appendix B.

The watersheds have benefited from higher than projected property tax revenue in fiscal years 2013, 2014 and 2015. The District will also receive \$55 million from DWR to assist with construction of Lower Silver, Lower Berryessa, Upper Berryessa, and Lower Penitencia.

The voter approved Safe, Clean Water program will provide funding for some of the highest priority unfunded projects including:

- San Francisco Bay Shoreline - Design and Partial Construction of EIA 11 and Planning for other EIAs
- San Francisquito Creek, SF Bay to Middlefield Road
- Upper Guadalupe River, I-280 to Blossom Hill Road
- Upper Llagas Creek, Buena Vista Road to Wright Avenue
- Upper Penitencia Creek, Coyote to Dorel Drive

An implementation schedule for the Safe, Clean Water projects is available in Appendix G.

Delays in the federal funding for many of the USACE projects have extended the schedules beyond the dates committed by the District. Therefore, the District is evaluating the option of proceeding with the local funding option on several of these projects. Construction on a number of flood protection projects have been delayed due to either Federal funding issues or delays in receiving environmental permits.

The following high priority flood protection projects, unfunded or partially funded, are of major concern to meet the Board's Ends Policy E-3, "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations."

Partially Funded and Unfunded CIP Projects

- Coyote Creek, Montague Expressway to Interstate 280 (Construction is unfunded)
- San Francisco Bay Shoreline Project - except EIA 11 (Design and Construction is unfunded)
- San Francisquito Creek 100 year flood protection upstream of Highway 101
- Upper Berryessa Creek, Interstate 680 to Old Piedmont Road (unfunded; \$20 million)

Flood Protection Capital Improvements

The following table is a project funding schedule for flood protection capital improvements resulting from this year's priority process and 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 2015-16.

Flood Protection Capital Improvements (\$K)

| Project Number | PROJECT NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|----------------------------------|---|----------------|----------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|------------------|
| LOWER PENINSULA WATERSHED | | | | | | | | | | | |
| 10394001 | Palo Alto Flood Basin Tide Gate Structure Improvements | 816 | 384 | 858 | - | 4,340 | 6 | - | - | - | 5,546 |
| 10244001s | Permanente Creek, SF Bay to Foothill Expressway | 62,569 | - | 467 | 11,722 | 6,564 | 112 | - | - | - | 80,967 |
| 10284007s | San Francisquito Creek, SF Bay thru Searsville Dam (E5) | 37,996 | 7,446 | 635 | 536 | 13,770 | - | - | - | - | 59,748 |
| WEST VALEY WATERSHED | | | | | | | | | | | |
| 20194005 | San Tomas Creek, Quito Road Bridge Replacement | 292 | 271 | - | - | 129 | - | - | - | - | 692 |
| 26074002 | Sunnyvale East and West Channels | 37,878 | 8,299 | 31,960 | - | 23,217 | 56 | - | - | - | 69,450 |
| GUADALUPE WATERSHED | | | | | | | | | | | |
| 30114002 | Canoas Creek, Rodent Damage Repair | 300 | 5,320 | - | 388 | 446 | - | - | - | - | 6,454 |
| 26154001s | Guadalupe River--Upper, I-280 to Blossom Hill Road (E8) | 112,579 | 302 | 11,776 | 8,615 | 25,613 | 10,115 | 12,024 | 8,522 | 6,764 | 184,534 |
| COYOTE WATERSHED | | | | | | | | | | | |
| 26174041s | Berryessa Creek, Calaveras Boulevard to Interstate 680 | 28,839 | 4,003 | - | 14,747 | 1,500 | 940 | 825 | - | - | 50,854 |
| 40174004s | Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd | 55,191 | 31,530 | 26,474 | 27,176 | 1,268 | 251 | 309 | 161 | - | 115,886 |
| 26174043 | Coyote Creek, Montague Expressway to Interstate 280 | 30,486 | - | 17,643 | - | - | - | 831 | 821 | 747 | 32,885 |
| 40264011 | Cunningham Flood Detention Certification | 4,458 | - | 1,183 | 3,829 | 2,216 | 675 | 129 | - | - | 11,307 |
| 40334005 | Lower Penitencia Ck Improvements, Berryessa to Coyote Cks. | 4,807 | 1,993 | - | 2,891 | 14,503 | 6,829 | 351 | 365 | 400 | 32,139 |
| 40264007s | Lower Silver Creek, I-680 to Cunningham (Reach 4-6) | 95,304 | 1,484 | 3,440 | 710 | 276 | 56 | 11 | - | - | 97,841 |
| 40324003s | Upper Penitencia Creek, Coyote Creek to Dorel Drive | 17,514 | 385 | 2,173 | - | 5,023 | 6,134 | 6,379 | 16,175 | 17,142 | 68,752 |
| UVAS LLAGAS WATERSHED | | | | | | | | | | | |
| 50284010 | Llagas Creek--Lower, Capacity Restoration, Buena Vista Road to Pajaro River | 7,046 | - | 3,749 | - | 2,335 | 2,410 | - | - | - | 11,791 |
| 26174051s | Llagas Creek--Upper, Buena Vista Avenue to Llagas Road | 80,480 | 53,034 | 91,476 | 1,071 | 5,860 | 25,000 | 6,125 | - | - | 171,570 |
| MULTIPLE WATERSHEDS | | | | | | | | | | | |
| 40214021s | Erosion Repair Program (ERP) | - | - | - | 4,251 | 4,000 | - | 2,000 | 11,000 | 49,000 | 70,251 |
| 00044026s | San Francisco Bay Shoreline (E7) | 21,252 | 3,546 | 2,218 | 6,668 | 7,475 | 7,534 | 7,796 | - | - | 54,271 |
| 62084001 | Small Capital Improvements - Regnart Creek | 528 | 2,200 | 323 | 787 | - | - | - | - | - | 3,515 |
| TOTAL | | 598,335 | 120,197 | 194,375 | 83,391 | 118,535 | 60,118 | 36,780 | 37,044 | 74,053 | 1,128,453 |

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

Flood Protection - Funding Sources (\$K)

| Fund Number | FUND NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|--------------|---|----------------|----------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|------------------|
| 12 | Watershed Stream Stewardship Fund | 222,849 | 44,724 | 39,878 | 40,032 | 29,513 | 27,227 | 8,800 | 11,526 | 49,400 | 434,071 |
| 26 | Safe, Clean Water and Natural Flood Protection Fund | 375,486 | 75,473 | 154,497 | 43,359 | 89,022 | 32,891 | 27,980 | 25,518 | 24,653 | 694,382 |
| TOTAL | | 598,335 | 120,197 | 194,375 | 83,391 | 118,535 | 60,118 | 36,780 | 37,044 | 74,053 | 1,128,453 |

FY 2015-16 Funds to be reappropriated

Flood Protection Capital Improvements

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| | |
|-------------------------|---|
| Project | Palo Alto Flood Basin Tide Gate Structure Improvements |
| Program | Flood Protection - Lower Peninsula Watershed |
| Priority No. | 48 |
| Project No. | 10394001 |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



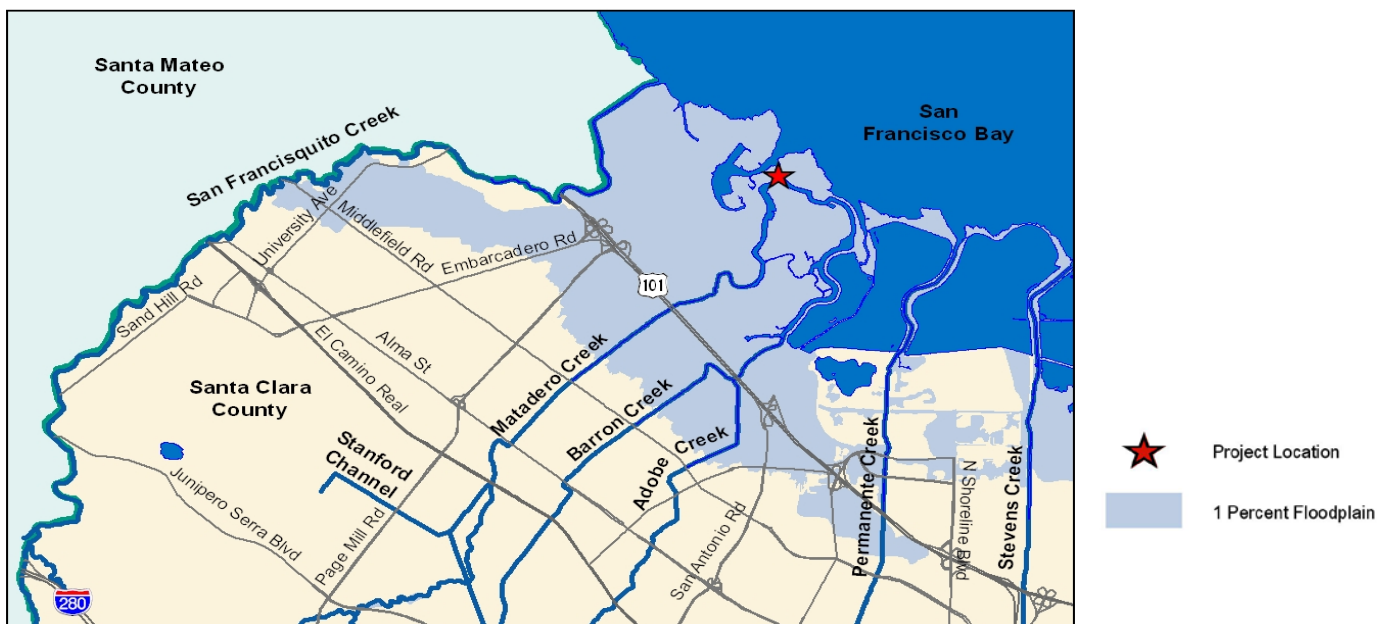
View from the west side of the Palo Alto tide gates facing east

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Palo Alto Flood Basin structure to accomplish the following objectives:

- ♦ Replace or repair the existing tide gate structure to improve the functionality of the flood barrier system.
- ♦ Reduce the possibility of flooding in lower reaches of Matadero, Adobe, and Barron Creeks.
- ♦ Prevent environmental impacts due to submergence of habitat areas within the Basin for Salt Marsh Harvest Mouse, California Clapper Rail bird and the Black Rail bird.
- ♦ Prevent impacts due to sea level rise or a 100-year fluvial flood.

PROJECT LOCATION



SCHEDULE & STATUS

October 2014 to September 2018

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 333 | | | | | | | | | | | |
| Permits | 150 | | | | | | | | | | | |
| Design | 787 | | | | | | | | | | | |
| Construct | 4,145 | | | | | | | | | | | |
| Closeout | 5 | | | | | | | | | | | |
| | 5,420 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|------|-------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 10394001-Palo Alto Flood Basin Tide Gate Structure Improvements | 176 | 166 | 777 | 4,155 | 5 | 0 | 0 | 0 | 5,279 |
| with inflation | 176 | 166 | 777 | 4,422 | 6 | 0 | 0 | 0 | 5,546 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|----------------|----------------|-----------------|--------------------------|-------|------|------|--------|---|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 10394001-Palo Alto Flood Basin Tide Gate Structure Improvements | 816 | 384 | 858 | 0 | 4,341 | 6 | 0 | 0 | 0 | 5,546 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|---|--------------|
| SCVWD Watershed and Stream Stewardship Fund | 5,546 |
| Other Funding Sources | 0 |
| Total | 5,546 |

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

USEFUL LIFE: 50 Years

| | |
|-------------------------|---|
| Project | Permanente Creek, San Francisco Bay to Foothill Expressway |
| Program | Flood Protection – Lower Peninsula Watershed |
| Priority No. | 76 |
| Project No. | 10244001s |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



Permanente Creek, looking downstream at the golf course foot bridge

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along 10.6 miles of Permanente Creek, from San Francisco Bay to Foothill Expressway, Hale Creek from Foothill Expressway to its confluence with Permanente Creek, and the diversion structure between Permanente and Stevens Creeks, to accomplish the following objectives:

- Provide flood protection to 1,664 parcels, including Middlefield Road and Central Expressway.
- Reduce erosion and sedimentation, reduce maintenance costs, and improve safety and stability of the failing channel on Permanente Creek from the San Francisco Bay to Foothill Expressway.
- Provide environmental restoration and enhancement benefits, where opportunities exist.
- Provide recreation enhancements, where opportunities exist.
- Provide natural flood protection by taking a multiple-objective approach.

PROJECT LOCATION



SCHEDULE & STATUS

July 2001 to December 2018

Construction includes multiple contract phases and three years of plant establishment monitoring.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 10,048 | | | | | | | | | | | |
| Permits | 3,261 | | | | | | | | | | | |
| Design | 14,223 | | | | | | | | | | | |
| Construct | 52,763 | | | | | | | | | | | |
| Closeout | 100 | | | | | | | | | | | |
| 80,395 | | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|---------------|----------------------|---------------|--------------|------------|----------|----------|----------|---------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund | 17,363 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,363 |
| with inflation | 17,363 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,363 |
| 26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund | 10,380 | 34,359 | 12,011 | 6,180 | 100 | 0 | 0 | 0 | 63,030 |
| with inflation | 10,380 | 34,359 | 12,011 | 6,564 | 112 | 0 | 0 | 0 | 63,427 |
| TOTAL | 27,743 | 34,359 | 12,011 | 6,180 | 100 | 0 | 0 | 0 | 80,393 |
| with inflation | 27,743 | 34,359 | 12,011 | 6,564 | 112 | 0 | 0 | 0 | 80,790 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|-------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund | 17,541 | 0 | 178 | 0 | 0 | 0 | 0 | 0 | 0 | 17,541 |
| 26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund | 45,028 | 0 | 289 | 11,722 | 6,564 | 112 | 0 | 0 | 0 | 63,427 |
| TOTAL | 62,569 | 0 | 467 | 11,722 | 6,564 | 112 | 0 | 0 | 0 | 80,968 |

Adjusted Budget includes adopted budget plus approved budget adjustments. Total Funding exceed total planned expenditures by approximately \$178,000. Excess funds will be returned to the fund reserver at the end of the project.

FUNDING SOURCES

(in thousands \$)

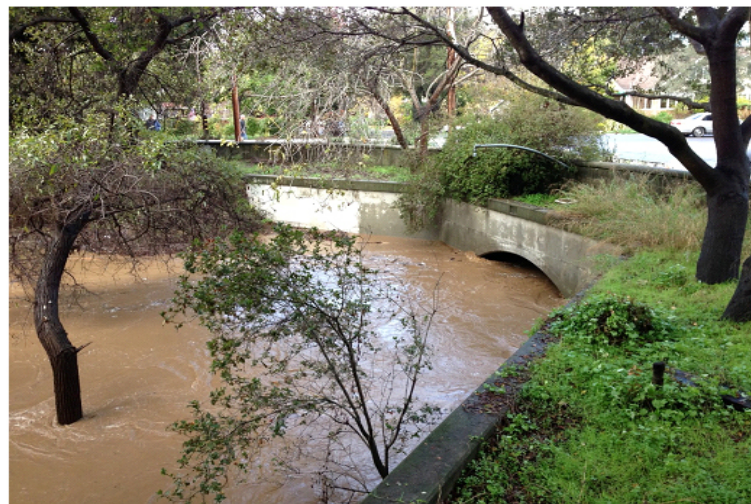
| | |
|--|---------------|
| SCVWD Watershed Stream Stewardship Fund | 17,541 |
| SCVWD Clean, Safe Creeks and Natural Flood Protection Fund | 63,427 |
| Total | 80,968 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$100,000 per year, beginning in FY 2020. Increases in operations and maintenance costs include sediment removal at three flood detention sites, and bypass channel inlet and outlet operations and maintenance.

USEFUL LIFE: 30+ Years

| | |
|-------------------------|---|
| Project | San Francisquito Creek, San Francisco Bay through Searsville Dam |
| Program | Flood Protection – Lower Peninsula Watershed |
| Priority No. | 85 |
| Project No. | 10284007s |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



Upstream face of Pope/Chaucer Street with water surface approximately 2 feet below the soffit

PROJECT DESCRIPTION

This project provides coordination and support to the San Francisquito Joint Powers Authority, in partnership with the U.S. Army Corps of Engineers, to complete planning and design documents for an approved project alternative on San Francisquito Creek, from San Francisco Bay through Searsville Dam. This project will accomplish the following objectives:

- Provide flood protection.
- Reduce bank erosion and sedimentation-related impacts along San Francisquito Creek.
- Avoid potential adverse impacts on fish and wildlife habitats.
- Minimize impacts to the creek's environmental resources and restore the riparian corridor where feasible.
- Develop public support for the preferred alternative.

The San Francisquito construction project will provide 100-year flood protection from San Francisco Bay to Highway 101 starting in FY16 and replace two bridges between Highway 101 and Middlefield Road with construction starting in FY16.

This project is accounted for in the following job numbers:

- 10284007 – SF Bay through Searsville Dam
- 26284001 – SF Bay through Searsville Dam
- 10284008 – Early Implementation
- 26284002 – Construction - San Francisco Bay to Middlefield Rd.

PROJECT LOCATION



SCHEDULE & STATUS

June 2003 to June 2018

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 4,314 | | | | | | | | | | | |
| Permits | 815 | | | | | | | | | | | |
| Design | 9,331 | | | | | | | | | | | |
| Construct | 42,411 | | | | | | | | | | | |
| Closeout | 100 | | | | | | | | | | | |
| | 56,971 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|--------------|---------------|----------|----------|----------|----------|---------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 10284007-San Francisquito Ck, Bay-Searsville Dam | 4,064 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,064 |
| with inflation | 4,064 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,064 |
| 10284008-San Francisquito Ck, Early Implementation | 1,614 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,614 |
| with inflation | 1,614 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,614 |
| 26284001-San Francisquito Ck, Bay-Searsville Dam | 5,099 | 1,048 | 614 | 0 | 0 | 0 | 0 | 0 | 6,761 |
| with inflation | 5,099 | 1,048 | 614 | 0 | 0 | 0 | 0 | 0 | 6,761 |
| 26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd. | 3,976 | 29,006 | 536 | 12,926 | 0 | 0 | 0 | 0 | 46,444 |
| with inflation | 3,976 | 29,006 | 536 | 13,770 | 0 | 0 | 0 | 0 | 47,288 |
| TOTAL | 14,753 | 30,054 | 1,150 | 12,926 | 0 | 0 | 0 | 0 | 58,883 |
| with inflation | 14,753 | 30,054 | 1,150 | 13,770 | 0 | 0 | 0 | 0 | 59,727 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|--------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 10284007-San Francisquito Ck, Bay-Searsville Dam | 4,064 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,064 |
| 10284008-San Francisquito Ck, Early Implementation | 1,614 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,614 |
| 26284001-San Francisquito Ck, Bay-Searsville Dam | 6,684 | 98 | 635 | 0 | 0 | 0 | 0 | 0 | 0 | 6,782 |
| 26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd. | 25,634 | 7,348 | 0 | 536 | 13,770 | 0 | 0 | 0 | 0 | 47,288 |
| TOTAL | 37,996 | 7,446 | 635 | 536 | 13,770 | 0 | 0 | 0 | 0 | 59,748 |

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately \$21,000. Excess funding will be returned to reserves upon completion of the project.

FUNDING SOURCES

(in thousands \$)

| | |
|---|---------------|
| SCVWD Watershed Stream Stewardship Fund | 5,678 |
| SCVWD Safe, Clean Water and Natural Flood Protection Fund | 46,070 |
| San Francisquito Joint Powers Authority (DWR) | 8,000 |
| Total | 59,748 |
| U.S. Army Corps of Engineers - In-kind Services | 3,000 |
| County of San Mateo - In-kind Services | 1,500 |

County and Corps participation are for Feasibility Study activities only. Additional funding will be negotiated during subsequent phases.

OPERATING COST IMPACTS

No operating budget impacts are expected from the construction of this project.

USEFUL LIFE: Not Available

| | |
|-------------------------|--|
| Project | San Tomas Creek, Quito Road Bridges Replacement |
| Program | Flood Protection - West Valley Watershed |
| Priority No. | 76 |
| Project No. | 20194005 |
| District Contact | Liang Lee llee@valleywater.org |



San Tomas Aquino Creek, looking upstream at one of the Quito Road bridge crossings and an adjacent pedestrian footbridge.

PROJECT DESCRIPTION

This project partners with the City of Saratoga, the Town of Los Gatos, and Caltrans to plan, design, and construct two bridge replacements on San Tomas Aquino Creek at Quito Road, to provide one-percent flood protection.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2001 to September 2017

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | - | | | | | | | | | | | |
| Permits | - | | | | | | | | | | | |
| Design | - | | | | | | | | | | | |
| Construct | 658 | | | | | | | | | | | |
| Closeout | 24 | | | | | | | | | | | |
| | 682 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|--------------|----------------------|------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 20194005-San Tomas Creek, Quito Road Bridges Replacement | 292 | 271 | 0 | 119 | 0 | 0 | 0 | 0 | 682 |
| with inflation | 292 | 271 | 0 | 129 | 0 | 0 | 0 | 0 | 692 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 20194005-San Tomas Creek, Quito Road Bridges Replacement | 292 | 271 | 0 | 0 | 129 | 0 | 0 | 0 | 0 | 692 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|--|------------|
| SCVWD Watershed Stream Stewardship Fund | 692 |
| Other Funding Sources | 0 |
| Total | 692 |
| City of Saratoga | 300 |
| Town of Los Gatos | 300 |
| Caltrans (Highway Bridge Replacement and Rehabilitation Program) - 80% | 4,115 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease District operating costs as the facility is owned by the City of Saratoga.

USEFUL LIFE: 30+ Years

| | |
|-------------------------|---|
| Project | Sunnyvale East and West Channels Improvement |
| Program | Flood Protection – West Valley Watershed |
| Priority No. | 68 |
| Project No. | 26074002 |
| District Contact | Ngoc Nguyen nnguyen@valleywater.org |



Sunnyvale West Channel looking upstream from Java Drive

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to approximately 6.4 miles of the Sunnyvale East Channel, from Guadalupe Slough to Interstate 280, and 2.3 miles of the Sunnyvale West Channel, from Guadalupe Slough to Highway 101, to accomplish the following objectives:

- ♦ Provide flood protection to over 1,600 parcels along Sunnyvale East and West Channels.
- ♦ Provide environmental enhancement benefits where opportunities exist.
- ♦ Provide recreation enhancements where opportunities exist.
- ♦ Reduce erosion, sedimentation, and maintenance costs.
- ♦ Protect fish and wildlife habitat.

The Sunnyvale East and Sunnyvale West Channels were originally identified as separate projects. In order to improve efficiency by combining efforts, the planning, design and construction phases for both projects will be performed as a single effort.

PROJECT LOCATION



SCHEDULE & STATUS

March 2006 to December 2018

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 5,765 | | | | | | | | | | | |
| Permits | 858 | | | | | | | | | | | |
| Design | 7,177 | | | | | | | | | | | |
| Construct | 53,685 | | | | | | | | | | | |
| Closeout | 50 | | | | | | | | | | | |
| | 67,535 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|--------------|----------------------|--------|--------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26074002-Sunnyvale East and West Channels Improvement | 13,517 | 700 | 22,268 | 31,000 | 50 | 0 | 0 | 0 | 67,535 |
| with inflation | 13,517 | 700 | 22,268 | 32,909 | 56 | 0 | 0 | 0 | 69,450 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|--------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26074002-Sunnyvale East and West Channels Improvement | 37,878 | 8,299 | 31,960 | 0 | 23,217 | 56 | 0 | 0 | 0 | 69,450 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|--|---------------|
| SCVWD Clean, Safe Creeks and Natural Flood Protection Fund | 69,450 |
| Other Funding Source | 0 |
| Total | 69,450 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$50,000 per year, beginning in FY 2020. Increases in operations and maintenance costs include graffiti removal, mowing and weed control under the levees, and for operation and maintenance of the Pond A4 detention basin.

USEFUL LIFE: 30+ Years

| | |
|-------------------------|---|
| Project | Canoas Creek Rodent Damage Repair |
| Program | Flood Protection - Guadalupe Watershed |
| Priority No. | 51 |
| Project No. | 30114002 |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



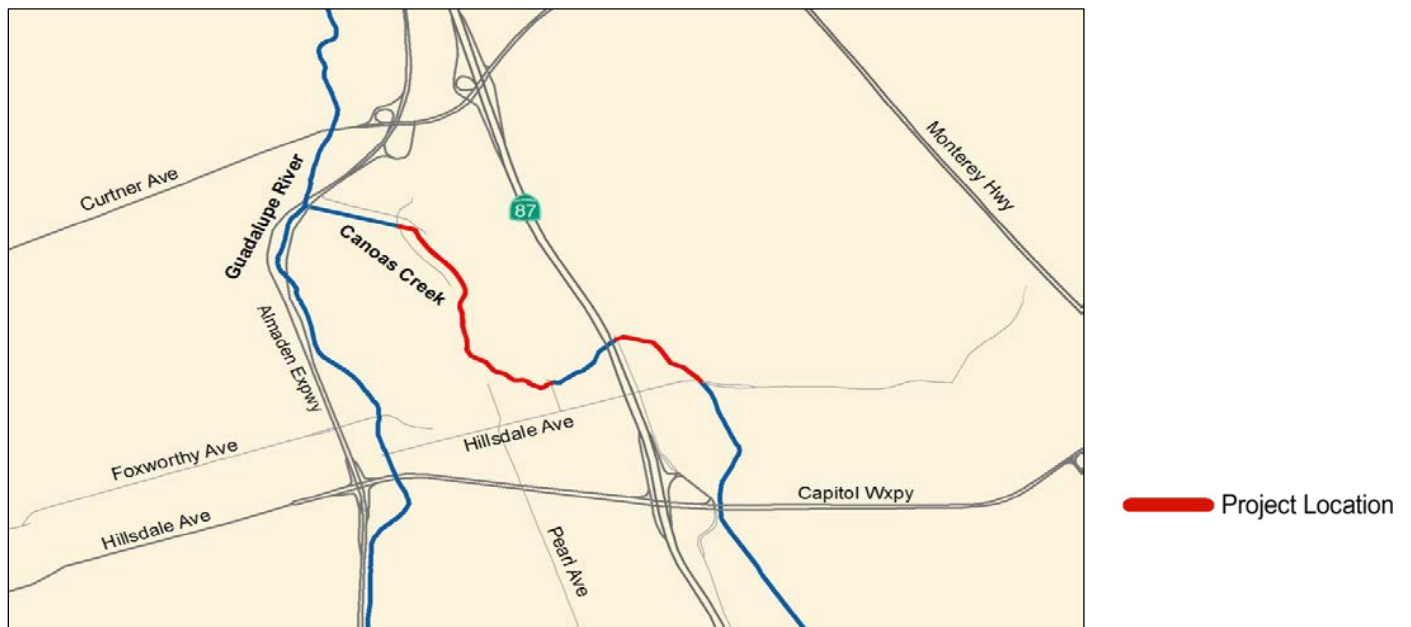
View of damage caused by burrowing animals along Canoas Creek in the Guadalupe Watershed

PROJECT DESCRIPTION

This project plans, designs, and constructs repairs to Canoas Creek to accomplish the following objectives:

- Repair approximately 1 mile of damaged creek's levee and embankment.
- Reduce frequent maintenance costs associated with routine bank erosion repair projects.
- Reduce the risk of levee/bank slope failure due to damage caused from burrowing animals

PROJECT LOCATION



SCHEDULE & STATUS

May 2015 to June 2018

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 27 | | | | | | | | | | | |
| Permits | - | | | | | | | | | | | |
| Design | 219 | | | | | | | | | | | |
| Construct | 6,144 | | | | | | | | | | | |
| Closeout | 25 | | | | | | | | | | | |
| | 6,415 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 30114002-Canoas Creek Rodent Damage Repair | 181 | 5,439 | 388 | 412 | 0 | 0 | 0 | 0 | 6,420 |
| with inflation | 181 | 5,439 | 388 | 446 | 0 | 0 | 0 | 0 | 6,454 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 30114002-Canoas Creek Rodent Damage Repair | 300 | 5,320 | 0 | 388 | 446 | 0 | 0 | 0 | 0 | 6,454 |

Adjusted Budget includes adopted budget plus a planned budget adjustment for \$1,291,000.

FUNDING SOURCES

(in thousands \$)

| | |
|------------------------------|--------------|
| Watershed Stream Stewardship | 6,454 |
| Other Funding Sources | 0 |
| Total | 6,454 |

OPERATING COST IMPACTS

Operating cost impacts will be determined during the construction phase.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | Guadalupe River–Upper, Interstate 280 to Blossom Hill Road |
| Program | Flood Protection – Guadalupe Watershed |
| Priority No. | 82 |
| Project No. | 26154001s |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



Flooding from Guadalupe River on Willow Street near the Southern Pacific Railroad Bridge

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 6 miles of the Guadalupe River, from Interstate 280 to Blossom Hill Road, to accomplish the following objectives:

- Provide one-percent flood protection to nearly 7,000 parcels along the Guadalupe River, from I-280 to Blossom Hill Road, including portions of Ross Creek and Canoas Creek.
- Provide long-term net gains of 15 acres in riparian forest acreage, quality, and continuity of wildlife habitat, and conditions favoring Chinook salmon and steelhead trout.
- Provide access to an additional 19 miles of suitable upstream spawning and rearing habitat, which would result in significant long-term beneficial impacts on fisheries resources.
- Coordinate with the City of San Jose and the community to establish a continuous maintenance road suitable for trail development between Interstate 280 and Los Alamitos Creek.
- Improve water quality by reducing bank erosion and sedimentation-related impacts along the river and tributaries.
- Address and resolve permit coordination activities and watershed integration issues through the Guadalupe Watershed Integration Working Group.

This project is accounted for in the following job numbers:

- 26154001—Fish Passage Modification (Completed)
- 26154002—I-280 to Southern Pacific Railroad Bridge (Reach 6)
- 26154003—Southern Pacific Railroad Bridge to Blossom Hill Road (Reaches 7-12)

PROJECT LOCATION



SCHEDULE & STATUS

July 2001 to June 2025

Planning phase is complete.
Design and construction of
eight individual reaches are
being done sequentially.

| Phase | Cost |
|-----------|--------|
| Plan | 8,970 |
| Permits | 2,410 |
| Design | 86,909 |
| Construct | 78,475 |
| Closeout | 197 |

n/a

| FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|---------------|---------------|---------------|---------------|--------------|--------------|----------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26154001-Guadalupe Rv—Upr, Fish Passage Mod | 2,651 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,651 |
| with inflation | 2,651 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,651 |
| 26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6) | 32,390 | 1,320 | 909 | 0 | 0 | 1,250 | 1,270 | 30 | 37,169 |
| with inflation | 32,390 | 1,320 | 909 | 0 | 0 | 1,462 | 1,485 | 39 | 37,606 |
| 26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12) | 38,648 | 18,209 | 19,482 | 24,035 | 9,035 | 9,085 | 5,855 | 5,465 | 129,814 |
| with inflation | 38,648 | 18,209 | 19,482 | 25,613 | 10,115 | 10,562 | 7,037 | 6,725 | 136,392 |
| Actuals in closed project numbers | 7,887 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,887 |
| with inflation | 7,887 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,887 |
| TOTAL | 81,576 | 19,529 | 20,391 | 24,035 | 9,035 | 10,335 | 7,125 | 5,495 | 177,521 |
| with inflation | 81,576 | 19,529 | 20,391 | 25,613 | 10,115 | 12,024 | 8,522 | 6,765 | 184,535 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|----------------|----------------|-----------------|--------------------------|--------|--------|--------|-------|--------|---------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26154001-Guadalupe Rv—Upr, Fish Passage Mod | 2,651 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,651 |
| 26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6) | 34,201 | 302 | 793 | 116 | 0 | 0 | 1,462 | 1,485 | 39 | 37,606 |
| 26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12) | 67,840 | 0 | 10,983 | 8,499 | 25,613 | 10,115 | 10,562 | 7,037 | 6,725 | 136,392 |
| Actuals in closed project numbers | 7,887 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,887 |
| TOTAL | 112,579 | 302 | 11,776 | 8,615 | 25,613 | 10,115 | 12,024 | 8,522 | 6,765 | 184,535 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|---|----------------|
| SCVWD Clean, Safe Creeks and Natural Flood Protection Fund | 124,052 |
| SCVWD Watershed Stream Stewardship Fund | 12,000 |
| SCVWD Safe, Clean Water and Natural Flood Protection Fund | 23,098 |
| State of California | 21,600 |
| City of San Jose | 3,785 |
| Total | 184,535 |
| U.S. Army Corps of Engineers - In-kind Services | 188,000 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$480,000 per year, beginning in FY 2025, for mitigation and monitoring labor and equipment, implementation of adaptive management measures, and operations and maintenance in accordance with the Corps Operations and Maintenance Manual.

USEFUL LIFE: 30+ Years

| | |
|-------------------------|---|
| Project | Berryessa Creek, Calaveras Boulevard to Interstate 680 |
| Program | Flood Protection – Coyote Watershed |
| Priority No. | 75 |
| Project No. | 26174041s |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



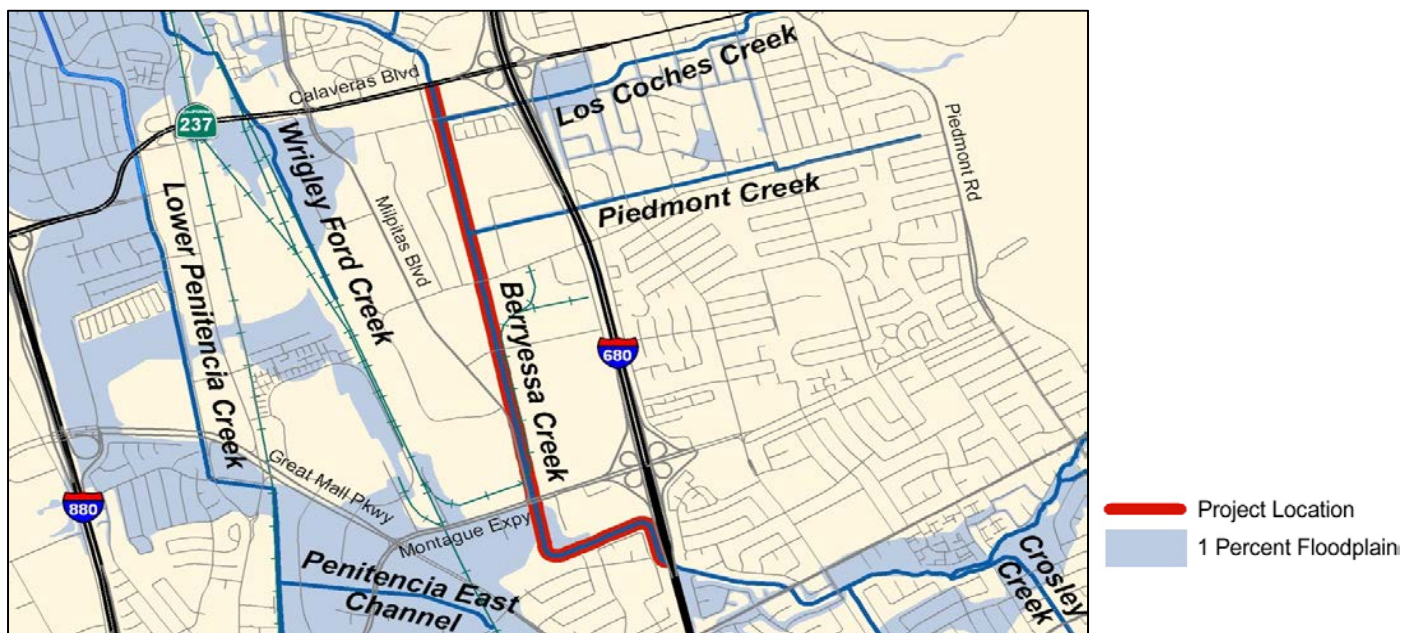
Berryessa Creek near flood stage at Piedmont Road in San Jose

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 2 miles of Berryessa Creek, from Calaveras Boulevard to Interstate 680, to accomplish the following objectives:

- Provide one-percent flood protection to more than 1,100 homes, businesses, and public buildings.
- Reduce sedimentation and maintenance requirements.
- Mitigate for project impacts.
- Improve stream habitat values.
- Coordinate with the cities of San Jose and Milpitas, and the community to establish a continuous maintenance road suitable for trail development along the Berryessa Creek project.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection Program Objectives.

PROJECT LOCATION



SCHEDULE & STATUS

January 2000 to June 2020

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 7,879 | | | | | | | | | | | |
| Design | 550 | | | | | | | | | | | |
| Design | 11,908 | | | | | | | | | | | |
| Construct | 27,467 | | | | | | | | | | | |
| Closeout | 203 | | | | | | | | | | | |
| | 48,007 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|---------------|--------------|------------|------------|----------|----------|---------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26174041-Berryessa Creek, Corps Coordination | 9,156 | 2,868 | 14,747 | 1,396 | 850 | 724 | 0 | 0 | 29,741 |
| with inflation | 9,156 | 2,868 | 14,747 | 1,500 | 940 | 825 | 0 | 0 | 30,035 |
| 26174042-Berryessa Creek, LERRDs | 14,657 | 6,161 | 0 | 0 | 0 | 0 | 0 | 0 | 20,818 |
| with inflation | 14,657 | 6,161 | 0 | 0 | 0 | 0 | 0 | 0 | 20,818 |
| TOTAL | 23,813 | 9,029 | 14,747 | 1,396 | 850 | 724 | 0 | 0 | 50,559 |
| with inflation | 23,813 | 9,029 | 14,747 | 1,500 | 940 | 825 | 0 | 0 | 50,853 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|-------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26174041-Berryessa Creek, Corps Coordination | 9,375 | 2,649 | 0 | 14,747 | 1,500 | 940 | 825 | 0 | 0 | 30,035 |
| 26174042-Berryessa Creek, LERRDs | 19,464 | 1,354 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20,818 |
| TOTAL | 28,839 | 4,003 | 0 | 14,747 | 1,500 | 940 | 825 | 0 | 0 | 50,853 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$164,000.

FUNDING SOURCES

(in thousands \$)

| | |
|--|---------------|
| SCVWD Clean, Safe Creeks and Natural Flood Protection Fund | 17,800 |
| State of California | 23,053 |
| Department of Water Resources (Prop 1E) | 10,000 |
| Total | 50,853 |
| U.S. Army Corps of Engineers - In-kind Services | 13,600 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$80,000 per year, beginning in FY 2021, to maintain approximately 2 miles of new levees and flood walls, and for activities such as vegetation spraying and graffiti removal.

USEFUL LIFE: 30+ Years

| | |
|-------------------------|---|
| Project | Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard |
| Program | Flood Protection – Coyote Watershed |
| Priority No. | 67 |
| Project No. | 40174004s |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



Berryessa Creek upstream of the confluence with Lower Penitencia Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately 3 miles of Berryessa Creek and its tributaries, from the confluence with Lower Penitencia Creek to Calaveras Boulevard (Phase 1 and 2) and the lower reaches of both Calera and Tularcitos Creeks (Phase 3), to accomplish the following objectives:

- Provide one-percent flood protection to 1,100 homes, businesses, and public buildings in the surrounding area.
- Improve the structural integrity of the levees.
- Improve maintenance access and safety for District staff.
- Identify opportunities to integrate recreation inputs consistent with the City of Milpitas' Trail Master Plan.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection (NFP) Program Objectives.

PROJECT LOCATION



SCHEDULE & STATUS

March 2001 to June 2021

Planning phase is complete.
Construction includes three phases
and three years of plant
establishment monitoring.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 6,899 | | | | | | | | | | | |
| Permits | 1,282 | | | | | | | | | | | |
| Design | 9,526 | | | | | | | | | | | |
| Construct | 81,678 | | | | | | | | | | | |
| Closeout | 89 | | | | | | | | | | | |
| | 99,474 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|---------------|--------------|------------|------------|------------|----------|----------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 1 | 47,021 | 2,200 | 6,274 | 142 | 132 | 172 | 0 | 0 | 55,941 |
| with inflation | 47,021 | 2,200 | 6,274 | 154 | 148 | 201 | 0 | 0 | 55,998 |
| 40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 2 | 0 | 11,026 | 47,376 | 1,030 | 92 | 92 | 132 | 0 | 59,748 |
| with inflation | 0 | 11,026 | 47,376 | 1,114 | 103 | 108 | 161 | 0 | 59,888 |
| TOTAL | 47,021 | 13,226 | 53,650 | 1,172 | 224 | 264 | 132 | 0 | 115,689 |
| with inflation | 47,021 | 13,226 | 53,650 | 1,268 | 252 | 309 | 161 | 0 | 115,886 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|----------------|----------------|-----------------|--------------------------|-------|------|------|------|--------|---------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 1 | 55,191 | 304 | 6,274 | 0 | 154 | 148 | 201 | 0 | 0 | 55,998 |
| 40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 2 | 0 | 31,226 | 20,200 | 27,176 | 1,114 | 103 | 108 | 161 | 0 | 59,888 |
| TOTAL | 55,191 | 31,530 | 26,474 | 27,176 | 1,268 | 252 | 309 | 161 | 0 | 115,886 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|---|----------------|
| SCVWD Watershed Stream Stewardship Fund | 100,886 |
| Department of Water Resources (Prop 1E) | 15,000 |
| Total | 115,886 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase annual operating costs by approximately \$100,000 per year. Operating costs will increase with completion of construction of each of 3 phases: beginning with a \$50,000 increase in FY 2017 (with completion of Phase 1), increasing to \$65,000 in FY 2018 (with completion of Phase 2), and finally increasing to \$100,000 with the completion of Phase 3. These costs will be for increased maintenance activities such as sediment removal, vegetation management, levee maintenance, graffiti abatement, and trash & debris cleanup.

USEFUL LIFE: 30+ Years

| | |
|-------------------------|--|
| Project | Coyote Creek, Montague Expressway to Interstate 280 |
| Program | Flood Protection – Coyote Watershed |
| Priority No. | 72 |
| Project No. | 26174043 |
| District Contact | Liang Lee LLee@valleywater.org |



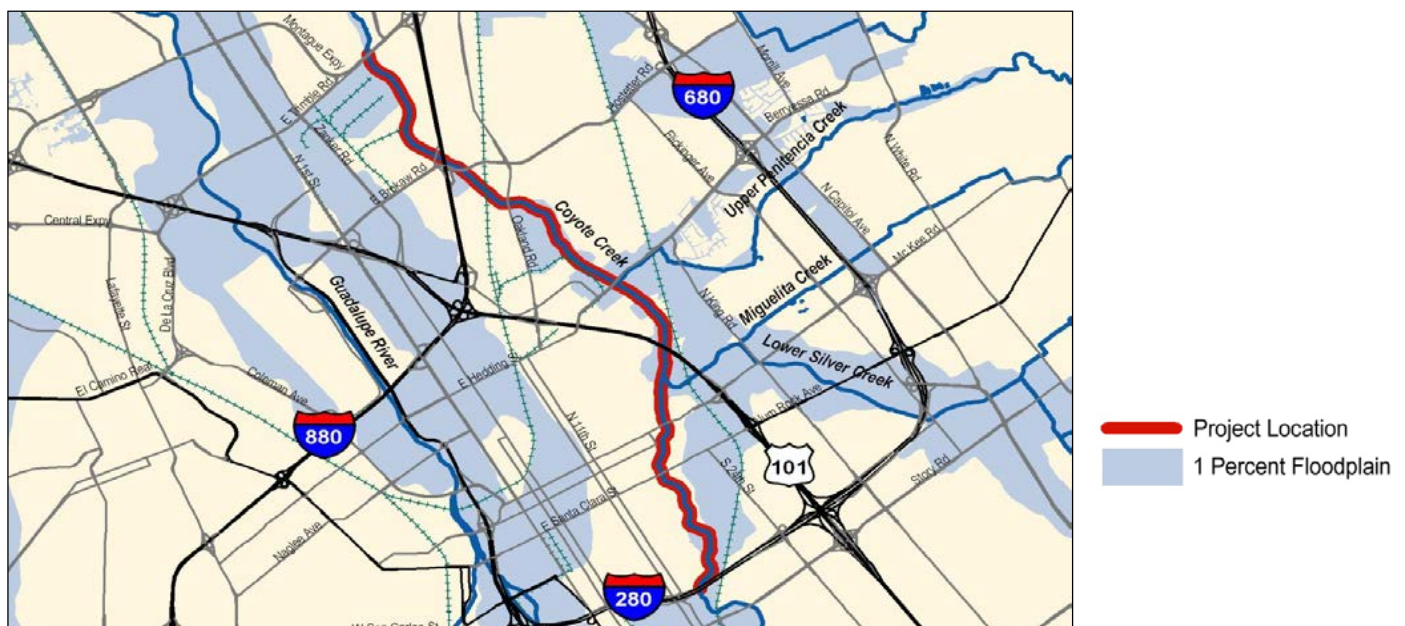
Flooding from Coyote Creek on 17th Street near downtown San Jose in January 1997

PROJECT DESCRIPTION

This project plans, designs, and partially constructs improvements along approximately 6.1 miles of Coyote Creek, from Montague Expressway to Interstate 280, to accomplish the following objectives:

- Complete planning and design for flood protection of 1,400 businesses and homes from a one percent flood for Coyote Creek from Montague Expwy to I-280.
- Improve water quality, enhance stream habitat, and provide recreational opportunities.
- Incorporate revegetation and aesthetic elements of the Coyote Creek park chain.
- Minimize long term maintenance needs.

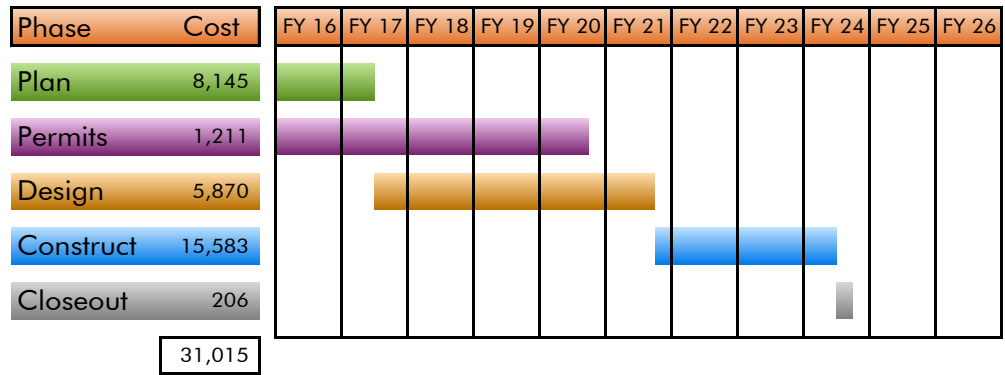
PROJECT LOCATION



SCHEDULE & STATUS

September 2002 to March 2024

Project is on hold and will resume in 2018.



EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|--------------|----------------------|-------|-------|--------|-------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26174043-Coyote Creek, Montague Expressway to Interstate 280 | 10,775 | 2,068 | 1,235 | 1,366 | 13,455 | 865 | 675 | 590 | 31,029 |
| with inflation | 10,775 | 2,068 | 1,235 | 1,477 | 14,749 | 1,012 | 821 | 747 | 32,885 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26174043-Coyote Creek, Montague Expressway to Interstate 280 | 30,486 | 0 | 17,643 | 0 | 0 | 0 | 831 | 821 | 747 | 32,885 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|--|---------------|
| SCVWD Clean, Safe Creeks and Natural Flood Protection Fund | 32,885 |
| Other Funding Source | 0 |
| Total | 32,885 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$100,000 per year, beginning in FY 2025. Currently the District has limited and sporadic property rights within the project limits along the creek, and ongoing maintenance costs are relatively small. Project implementation may include acquisition of continuous right of way for construction and future operations and maintenance.

USEFUL LIFE: 30+ Years

Project**Cunningham Flood
Detention Certification****Program**Flood Protection – Coyote
Watershed**Priority No.**

78

Project No.

40264011

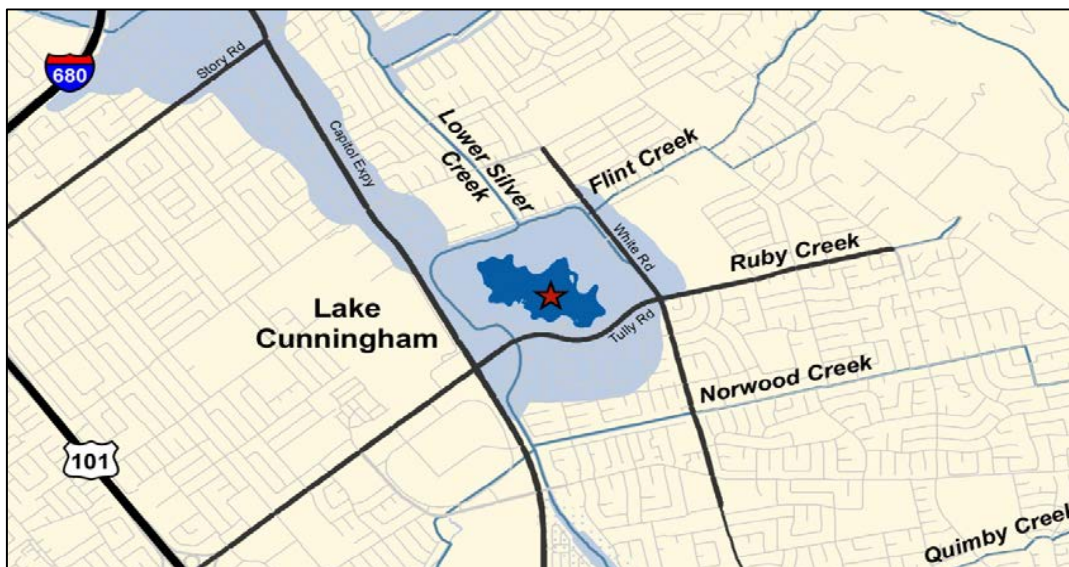
District ContactMelanie Richardson
mrichardson@valleywater.org

Flooding from Lower Silver Creek in February 1969 at the future site of Lake Cunningham Regional Park

PROJECT DESCRIPTION

This project plans, designs, and constructs final improvements at Lake Cunningham Regional Park (Park) to ensure the site operates as a flood detention facility in accordance with the 1978 agreement with the City of San Jose (City) and to ensure the Lower Silver Creek Project (LSC Project) improvements downstream of Cunningham Avenue function as designed. This project will accomplish the following objectives:

- Validate that the flood detention facility can attenuate the volume of water associated with 2,249 cfs below the park land elevation as stipulated in the 1978 Joint Use Agreement between the City and the District.
- Obtain Federal Emergency Management Agency (FEMA) certification of the flood detention facility and Lower Silver Creek improvements north of the Park to revise the applicable flood insurance rate maps in the Lower Silver Creek 1-percent floodplain near the north of the Park.
- Update the 1978 Joint Use Agreement between the City and the District to meet the flood detention facility's validated condition.

PROJECT LOCATION

★ Project Location
■ 1 Percent Floodplain

SCHEDULE & STATUS

August 1999 to June 2020

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 1,826 | | | | | | | | | | | |
| Permits | 650 | | | | | | | | | | | |
| Design | 2,388 | | | | | | | | | | | |
| Construct | 6,323 | | | | | | | | | | | |
| Closeout | 10 | | | | | | | | | | | |
| | 11,197 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|-------|-------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 40264011-Cunningham Flood Detention Certification | 1,540 | 1,735 | 5,012 | 2,200 | 600 | 110 | 0 | 0 | 11,197 |
| with inflation | 1,540 | 1,735 | 5,012 | 2,216 | 675 | 129 | 0 | 0 | 11,307 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|-------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 40264011-Cunningham Flood Detention Certification | 4,458 | 0 | 1,183 | 3,829 | 2,216 | 675 | 129 | 0 | 0 | 11,307 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|---|---------------|
| SCVWD Watershed Stream Stewardship Fund | 11,307 |
| Other Funding Source | 0 |
| Total | 11,307 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operations costs. The project is within District jurisdiction and it is designed to minimize maintenance activities such as sediment removal, so as to have minimal or no additional impact to the operating budget.

USEFUL LIFE: 30+ Years

| | |
|-------------------------|--|
| Project | Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks |
| Program | Flood Protection – Coyote Watershed |
| Priority No. | 78 |
| Project No. | 40334005 |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



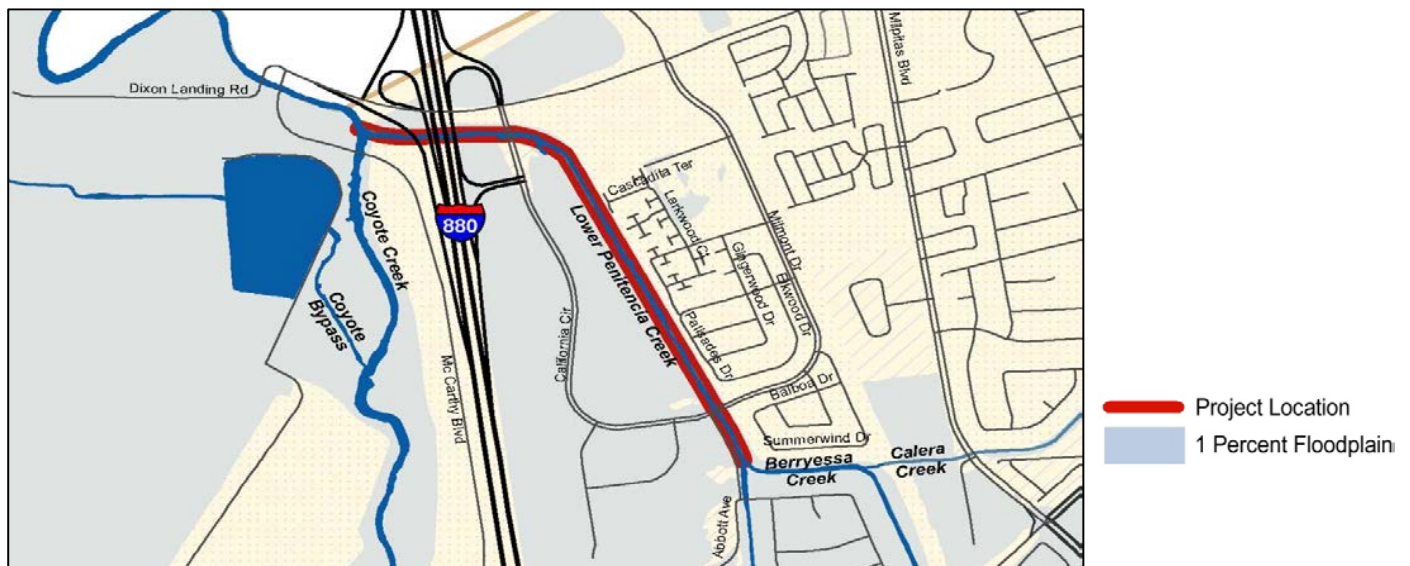
Lower Penitencia Creek, looking downstream from Milmont Drive

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately 1 mile of Lower Penitencia Creek from the downstream confluence with Coyote Creek to the upstream confluence with Lower Berryessa Creek, to accomplish the following objectives:

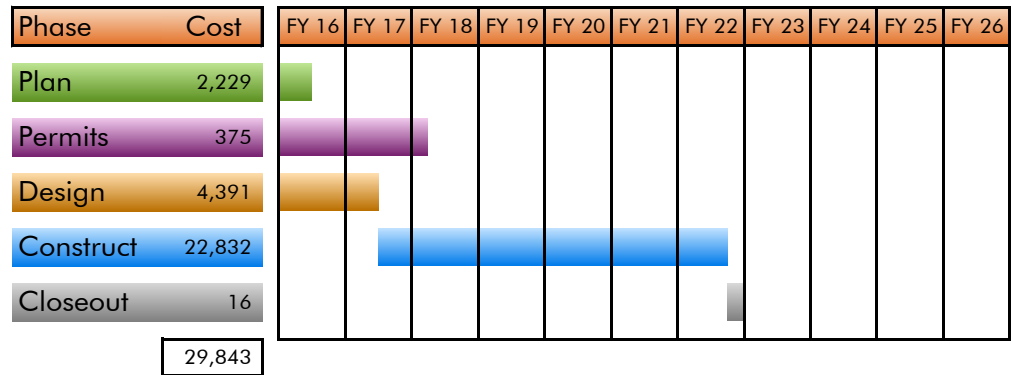
- ♦ Provide one-percent flood protection along the creek.
- ♦ Identify opportunities for environmental enhancement, such as stream restoration, trails, parks, and open space for District Board consideration.
- ♦ Minimize impacts to environmental resources and provide opportunities to protect and enhance existing riparian habitat.

PROJECT LOCATION



SCHEDULE & STATUS

October 2010 to June 2022



EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|-------|--------|-------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 40334005-Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks | 2,713 | 4,087 | 2,891 | 13,661 | 6,235 | 300 | 300 | 316 | 30,503 |
| with inflation | 2,713 | 4,087 | 2,891 | 14,503 | 6,829 | 351 | 365 | 400 | 32,139 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|----------------|----------------|-----------------|--------------------------|--------|-------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 40334005-Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks | 4,807 | 1,993 | 0 | 2,891 | 14,503 | 6,829 | 351 | 365 | 400 | 32,139 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|---|---------------|
| SCVWD Watershed Stream Stewardship Fund | 27,139 |
| Department of Water Resources (Prop 1E) | 5,000 |
| Total | 32,139 |

OPERATING COST IMPACTS

Operating cost impacts will be established during the design phase.

USEFUL LIFE: 50 Years

| | |
|-------------------------|--|
| Project | Lower Silver Creek, I-680 to Cunningham Avenue (R4-6) |
| Program | Flood Protection – Coyote Watershed |
| Priority No. | 95 |
| Project No. | 40264007s |
| District Contact | Ngoc Nguyen NNguyen@valleywater.org |



Lower Silver Creek looking upstream from Capital Expressway

PROJECT DESCRIPTION

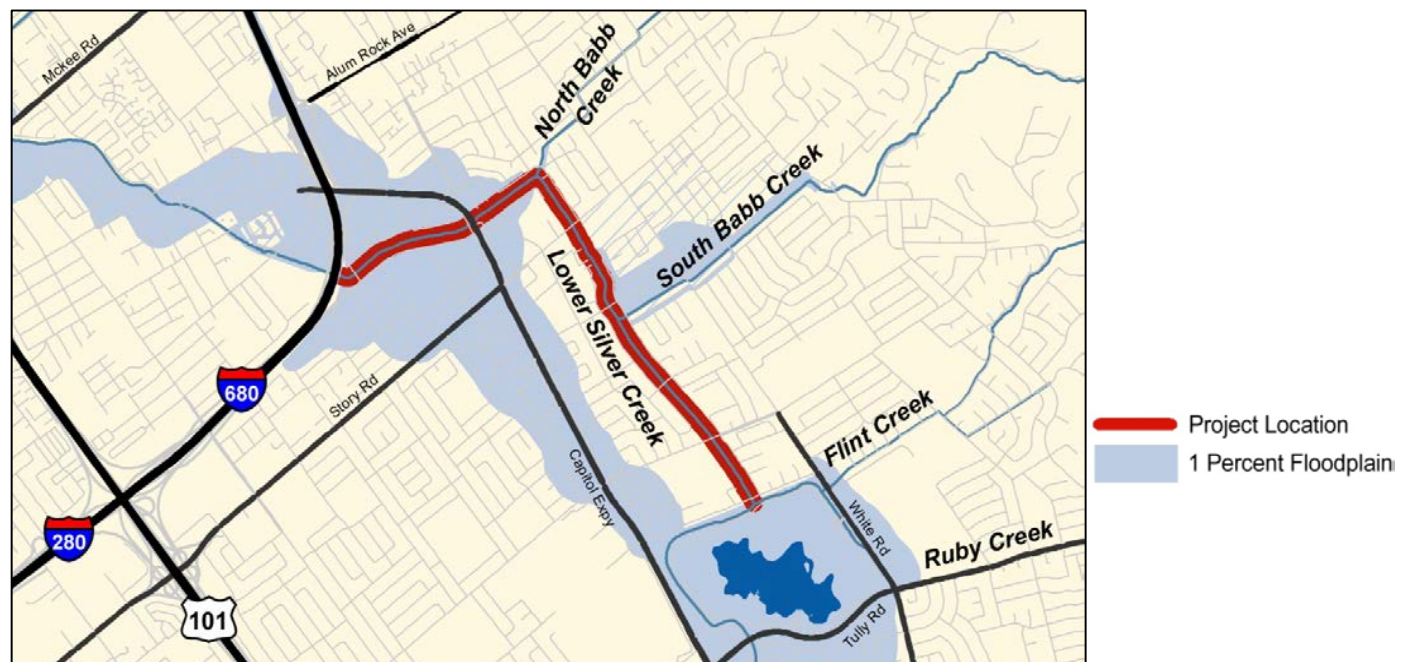
This project is part of a flood control project that partners with the Natural Resource Conservation Service (NRCS) to plan, design and construct improvements along approximately 2.3 miles of Lower Silver Creek, from Interstate 680 to Lake Cunningham. This project includes elements that are eligible for reimbursement from the state and federal governments to accomplish the following objectives:

- ♦ Increase flood protection to 3,800 parcels in the surrounding area.
- ♦ Allow for on-site mitigation of project impacts, and in some cases enhancement of existing habitat values by increased wetlands and riparian habitat.
- ♦ Improve vehicle and pedestrian bridges crossing Lower Silver Creek.
- ♦ Develop the footprint for a future trail project between Capitol Avenue-Frontage Road and Jackson Avenue that ensures pedestrians and bicyclists may travel beneath the Dobern Pedestrian Bridge.

This project is accounted for in the following job numbers:

- ♦ 40264007–Lower Silver Creek, I-680 to N. Babb Rd. (Reach 4 Planning) - Completed
- ♦ 40264008–Lower Silver Creek, I-680 to Cunningham Rd. (Reaches 4-6)
- ♦ 40264012–Lower Silver Creek (Reaches 4-6) Reimbursable

PROJECT LOCATION



SCHEDULE & STATUS

August 1991 to March 2020

Planning and Design phases are complete

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 6,309 | | | | | | | | | | | |
| Permits | 147 | | | | | | | | | | | |
| Design | 10,766 | | | | | | | | | | | |
| Construct | 74,787 | | | | | | | | | | | |
| Closeout | 126 | | | | | | | | | | | |
| | 92,135 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|--------------|----------------------|-------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 40264007-Lower Silver Creek, Reach 4 Planning | 2,371 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,371 |
| with inflation | 2,371 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,371 |
| 40264008-Lower Silver Ck, Nonreimbursable (R4-6) | 86,838 | 2,293 | 3,084 | 255 | 50 | 10 | 0 | 0 | 92,530 |
| with inflation | 86,838 | 2,293 | 3,084 | 276 | 56 | 11 | 0 | 0 | 92,558 |
| 40264012-Lower Silver Creek, LERRDs (R4-6) | 1,786 | 60 | 749 | 50 | 50 | 40 | 0 | 0 | 2,735 |
| with inflation | 1,786 | 60 | 749 | 54 | 56 | 47 | 0 | 0 | 2,752 |
| TOTAL | 90,995 | 2,353 | 3,833 | 305 | 100 | 50 | 0 | 0 | 97,636 |
| with inflation | 90,995 | 2,353 | 3,833 | 330 | 112 | 58 | 0 | 0 | 97,681 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 40264007-Lower Silver Creek, Reach 4 Planning | 2,371 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,371 |
| 40264008-Lower Silver Ck, Nonreimbursable (R4-6) | 90,021 | 1,484 | 2,374 | 710 | 276 | 56 | 11 | 0 | 0 | 92,558 |
| 40264012-Lower Silver Creek, LERRDs (R4-6) | 2,912 | 0 | 1,066 | 0 | 0 | 0 | 0 | 0 | 0 | 2,912 |
| TOTAL | 95,304 | 1,484 | 3,440 | 710 | 276 | 56 | 11 | 0 | 0 | 97,841 |

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved budget exceeds planned expenditures by approximately \$160,000. Excess funds will be returned to fund reserves at the end of the project.

FUNDING SOURCES

(in thousands \$)

| | |
|--|---------------|
| SCVWD Watershed Stream Stewardship Fund | 44,778 |
| State of California | 8,387 |
| Natural Resource Conservation Service - ARRA | 20,676 |
| California Department of Water Resources | 24,000 |
| Total | 97,841 |

OPERATING COST IMPACTS

Operating budget impacts from construction of this project are expected to be insignificant. Repair of several erosion sites will reduce maintenance needs, but will not affect overall sediment removal or vegetation control practices.

USEFUL LIFE: 50+ Years

| | |
|-------------------------|--|
| Project | Upper Penitencia Creek, Coyote Creek to Dorel Drive |
| Program | Flood Protection – Coyote Watershed |
| Priority No. | 77 |
| Project No. | 40324003s |
| District Contact | Liang Lee LLee@valleywater.org |



Flooding at King Road on Upper Penitencia Creek

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 4.2 miles of Upper Penitencia Creek, from the confluence with Coyote Creek to Dorel Drive, to accomplish the following objectives.

- Provide one-percent flood protection to more than 5,000 homes, businesses, and public buildings.
- Mitigate for project impacts.
- Improve stream habitat values and fisheries potential.
- Reduce sedimentation and maintenance requirements.
- Identify opportunities to integrate recreation improvements consistent with the City of San Jose's Master Plans for Penitencia Creek Park Chain Reach 1 and Reach 2, the County's Penitencia Creek Master Plan, and Santa Clara Countywide Trails Master Plan.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection (NFP) Program Objectives.
- Coordinate with local agencies to ensure that planned flood control improvements do not conflict with trail construction by the City of San Jose that is scheduled to begin in the latter part of 2013.

This project is accounted for in the following job numbers:

- 40324003—District coordination with Corps for Corps' work
- 40324005—District's Lands, Easements, Rights of Way, Relocation, and Disposal (LERRDs)
- 26324001—Safe Clean Water Program coordination with Corps for Corps' work

PROJECT LOCATION



| | |
|-------------------------|---|
| Project | Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River |
| Program | Flood Protection – Uvas/Llagas Watershed |
| Priority No. | 78 |
| Project No. | 50284010 |
| District Contact | Ngoc Nguyen NNguyen@valleywater.org |



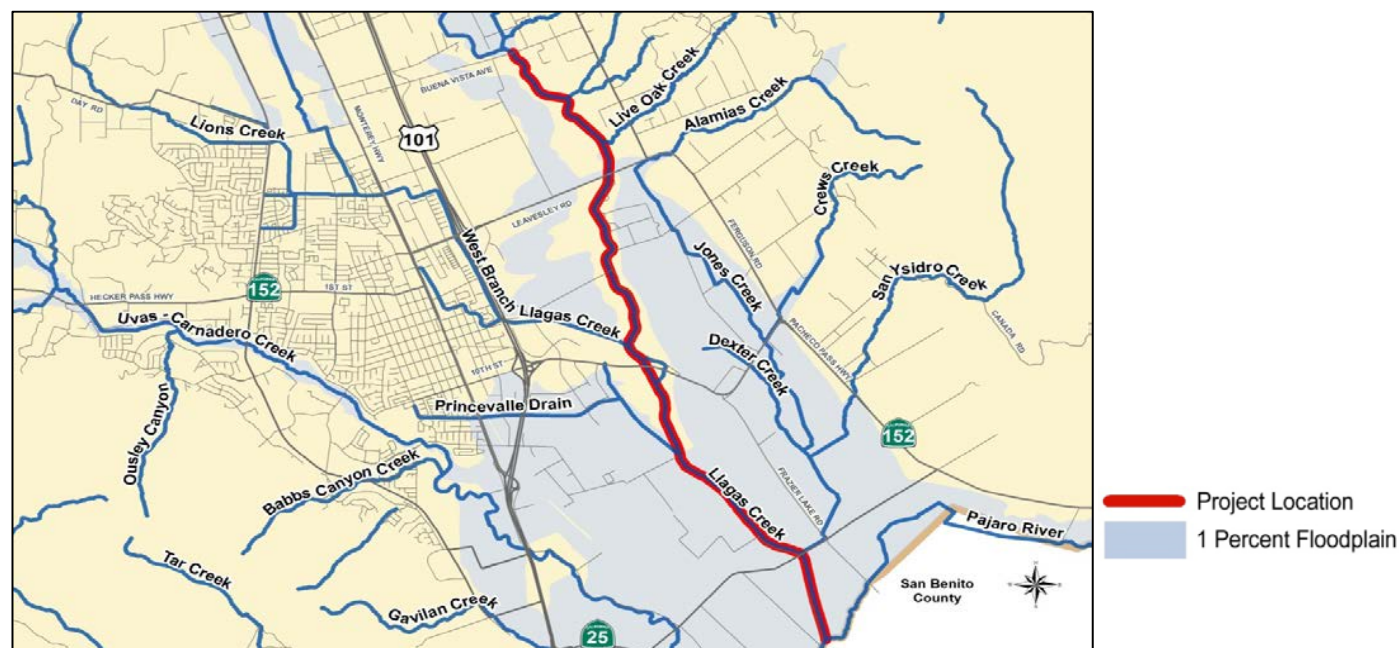
Lower Llagas Creek near Pajaro River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on approximately 7.15 miles of Lower Llagas Creek, from Buena Vista Avenue to Pajaro River, to accomplish the following objectives:

- Evaluate the current flood risk in the area surrounding the project versus the design level flood risk.
- Develop options to provide flood protection for Lower Llagas Creek Reaches 2 and 3 in accordance with Federal Emergency Management Agency (FEMA) criteria where applicable.
- Identify feasible opportunities for environmental restoration and corridor preservation.

PROJECT LOCATION



SCHEDULE & STATUS

July 2008 to June 2019

Project is "On Hold" until the Post-Project Hydraulic Analysis for the Upper Llagas Creek project is completed to address the City of Gilroy's request.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 2,898 | | | | | | | | | | | |
| Permits | 1,202 | | | | | | | | | | | |
| Design | 2,505 | | | | | | | | | | | |
| Construct | 4,600 | | | | | | | | | | | |
| Closeout | 50 | | | | | | | | | | | |
| | 11,255 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|--------------|----------------------|-------|-------|-------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River | 3,297 | 0 | 1,258 | 4,500 | 2,200 | 0 | 0 | 0 | 11,255 |
| with inflation | 3,297 | 0 | 1,258 | 4,826 | 2,410 | 0 | 0 | 0 | 11,791 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|-------|-------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River | 7,046 | 0 | 3,749 | 0 | 2,335 | 2,410 | 0 | 0 | 0 | 11,791 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|---|---------------|
| SCVWD Watershed Stream Stewardship Fund | 11,791 |
| Other Funding Source | 0 |
| Total | 11,791 |

OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

USEFUL LIFE: 30+ Years

| | |
|-------------------------|--|
| Project | Llagas Creek–Upper, Buena Vista Avenue to Llagas Road |
| Program | Flood Protection – Uvas/Llagas Watershed |
| Priority No. | 75 |
| Project No. | 26174051s |
| District Contact | Ngoc Nguyen NNguyen@valleywater.org |



Llagas Creek floods at Watsonville Road and the surrounding area

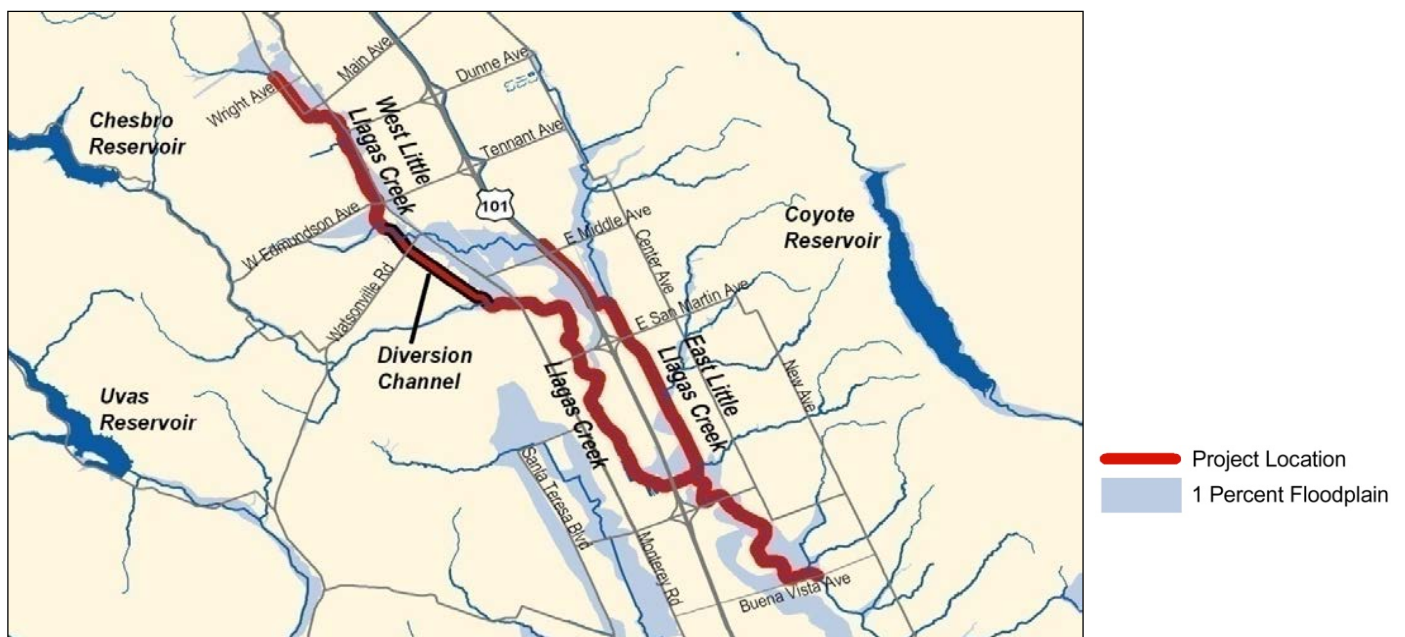
PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements on approximately 13.6 miles of Upper Llagas Creek, from Buena Vista Avenue to Llagas Road, to provide an increased level of flood protection with adequate freeboard. SCVWD shall coordinate with the County of Santa Clara and the City of Morgan Hill on public access and recreational trail opportunities within Reaches 7 and 8 of this project.

This project is accounted for in the following job numbers:

- 26174051 - Reaches 4-8 & 14 - Reimbursable - Lands, Easements, Rights of Way, Relocation, & Disposal (LERRDs)
- 26174052 - Reaches 4-8 & 14 - Coordination with the Corps
- 26174053 - Technical Studies (completed)
- 26174054 - Design
- 50C40335 - Construction, Reach 5, 6, & 7b

PROJECT LOCATION



SCHEDULE & STATUS

August 2000 to June 2020

Project schedule may vary considerably and is dependent upon the Corps and Congress.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 3,720 | | | | | | | | | | | |
| Permits | 3,279 | | | | | | | | | | | |
| Design | 59,466 | | | | | | | | | | | |
| Construct | 103,773 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| 170,238 | | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|---------------|----------------------|---------------|---------------|---------------|--------------|----------|----------|----------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26174051-Llagas Ck—Upper, LERRDs | 14,965 | 2,966 | 24,700 | 0 | 0 | 0 | 0 | 0 | 42,631 |
| with inflation | 14,965 | 2,966 | 24,700 | 0 | 0 | 0 | 0 | 0 | 42,631 |
| 26174052-Llagas Ck—Upper, Corps Coordination | 2,118 | 0 | 30,219 | 42,400 | 8,000 | 125 | 0 | 0 | 82,862 |
| with inflation | 2,118 | 0 | 30,219 | 42,416 | 8,000 | 125 | 0 | 0 | 82,878 |
| 26174053-Llagas Ck—Upper, Technical Studies | 1,446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,446 |
| with inflation | 1,446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,446 |
| 26174054-Llagas Ck—Upper, Design | 18,993 | 1,550 | 1,071 | 0 | 0 | 0 | 0 | 0 | 21,614 |
| with inflation | 18,993 | 1,550 | 1,071 | 0 | 0 | 0 | 0 | 0 | 21,614 |
| 50C40335-Llagas Ck—Upper, Construction Rch 5, 6, & 7b | 0 | 0 | 0 | 0 | 17,000 | 6,000 | 0 | 0 | 23,000 |
| with inflation | 0 | 0 | 0 | 0 | 17,000 | 6,000 | 0 | 0 | 23,000 |
| TOTAL | 37,522 | 4,516 | 55,990 | 42,400 | 25,000 | 6,125 | 0 | 0 | 171,553 |
| with inflation | 37,522 | 4,516 | 55,990 | 42,416 | 25,000 | 6,125 | 0 | 0 | 171,569 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|----------------|----------------|-----------------|--------------------------|-------|--------|-------|------|--------|---------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26174051-Llagas Ck—Upper, LERRDs | 41,670 | 962 | 24,701 | 0 | 0 | 0 | 0 | 0 | 0 | 42,632 |
| 26174052-Llagas Ck—Upper, Corps Coordination | 18,509 | 50,384 | 66,775 | 0 | 5,860 | 8,000 | 125 | 0 | 0 | 82,878 |
| 26174053-Llagas Ck—Upper, Technical Studies | 1,446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,446 |
| 26174054-Llagas Ck—Upper, Design | 18,855 | 1,688 | 0 | 1,071 | 0 | 0 | 0 | 0 | 0 | 21,614 |
| 50C40335-Llagas Ck—Upper, Construction Rch 5, 6, & 7b | 0 | 0 | 0 | 0 | 0 | 17,000 | 6,000 | 0 | 0 | 23,000 |
| TOTAL | 80,480 | 53,034 | 91,476 | 1,071 | 5,860 | 25,000 | 6,125 | 0 | 0 | 171,570 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$962,000.

FUNDING SOURCES

(in thousands \$)

| | |
|--|----------------|
| SCVWD Clean, Safe Creeks and Natural Flood Protection Fund | 17,900 |
| SCVWD Safe Clean Water Program Fund | 89,987 |
| Watershed Stream Stewardship Fund | 23,000 |
| State of California | 37,342 |
| City of Morgan Hill | 3,341 |
| Total | 171,570 |
| U.S. Army Corps of Engineers - In-kind Services | 65,000 |

OPERATING COST IMPACTS

Operating cost impacts will be provided after completion of the design phase.

USEFUL LIFE: 30+ Years

| | |
|-------------------------|---|
| Project | Erosion Repair Program |
| Program | Flood Protection - Multiple Watersheds |
| Priority No. | 67 |
| Project No. | 40214021s |
| District Contact | Melanie Richardson MRichardson@valleywater.org |



View of damage caused by burrowing animals along West Branch of Llagas Creek in the Uvas/Llagas Watershed

PROJECT DESCRIPTION

This project plans, designs, and constructs repairs to levee and stream bank sites that have erosion damage. Each site requires a different type of repair based on location, severity, and velocities in the creek. The objective of this project is to restore the stream bank or levee to a stable condition so as to reduce the risk of flooding and/or damage to adjacent properties and facilities. For facilities with animal conflict damage, the objective is to repair the damage caused by animals and where applicable, install deterrents for future animal activities. The repair work consists of, but is not limited to:

- Excavation and rebuilding of eroded soil material.
- Installation of rodent barriers such as mesh or fabric.
- Repairing the banks with methods commensurate with the extents of damage and environmental constraints.

This project is accounted for in the following job numbers:

- 40214021 – ERP-Coyote Creek, Upstream Hwy 237
- 40214022 – ERP-Coyote Creek, Downstream Hwy 237
- 50184003 – ERP-Uvas Creek, Wren-Levee End
- 50314001 – ERP-West Branch Llagas Creek
- 62C40392 - ERP-Future Work

PROJECT LOCATION



SCHEDULE & STATUS

July 2016 to June 2024

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 245 | | | | | | | | | | | |
| Permits | - | | | | | | | | | | | |
| Design | 2,066 | | | | | | | | | | | |
| Construct | 56,733 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 59,044 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|--------------|----------------------|-------|-------|------|-------|--------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 40214021-Coyote Ck, U/S of Hwy 237 | 0 | 0 | 1,104 | 0 | 0 | 0 | 0 | 0 | 1,104 |
| with inflation | 0 | 0 | 1,104 | 0 | 0 | 0 | 0 | 0 | 1,104 |
| 40214022-Coyote Ck, D/S of Hwy 237 | 0 | 0 | 1,111 | 0 | 0 | 0 | 0 | 0 | 1,111 |
| with inflation | 0 | 0 | 1,111 | 0 | 0 | 0 | 0 | 0 | 1,111 |
| 50184003-Uvas Ck, Wren Ave to end of Levee | 0 | 0 | 1,015 | 0 | 0 | 0 | 0 | 0 | 1,015 |
| with inflation | 0 | 0 | 1,015 | 0 | 0 | 0 | 0 | 0 | 1,015 |
| 50314001-West Branch Llagas Ck | 0 | 0 | 1,021 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| with inflation | 0 | 0 | 1,021 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| 62C40392-Future Work | 0 | 0 | 0 | 3,770 | 0 | 1,777 | 9,489 | 39,757 | 54,793 |
| with inflation | 0 | 0 | 0 | 4,000 | 0 | 2,000 | 11,000 | 49,000 | 65,999 |
| TOTAL | 0 | 0 | 4,251 | 3,770 | 0 | 1,777 | 9,489 | 39,757 | 59,044 |
| with inflation | 0 | 0 | 4,251 | 4,000 | 0 | 2,000 | 11,000 | 49,000 | 70,250 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|-------|------|-------|--------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 40214021-Coyote Ck, U/S of Hwy 237 | 0 | 0 | 0 | 1,104 | 0 | 0 | 0 | 0 | 0 | 1,104 |
| 40214022-Coyote Ck, D/S of Hwy 237 | 0 | 0 | 0 | 1,111 | 0 | 0 | 0 | 0 | 0 | 1,111 |
| 50184003-Uvas Ck, Wren Ave to end of Levee | 0 | 0 | 0 | 1,015 | 0 | 0 | 0 | 0 | 0 | 1,015 |
| 50314001-West Branch Llagas Ck | 0 | 0 | 0 | 1,021 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| 62C40392-Future Work | 0 | 0 | 0 | 0 | 4,000 | 0 | 2,000 | 11,000 | 49,000 | 65,999 |
| TOTAL | 0 | 0 | 0 | 4,251 | 4,000 | 0 | 2,000 | 11,000 | 49,000 | 70,250 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|---|---------------|
| SCVWD Watershed Stream Stewardship Fund | 70,250 |
| Other Funding Sources | 0 |
| Total | 70,250 |

OPERATING COST IMPACTS

Operating cost impacts will be determined during the construction phase.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | San Francisco Bay Shoreline |
| Program | Flood Protection – Multiple Watersheds |
| Priority No. | 87 |
| Project No. | 00044026s |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



Typical natural tidal marshland in San Francisco Bay near the Shoreline project area

PROJECT DESCRIPTION

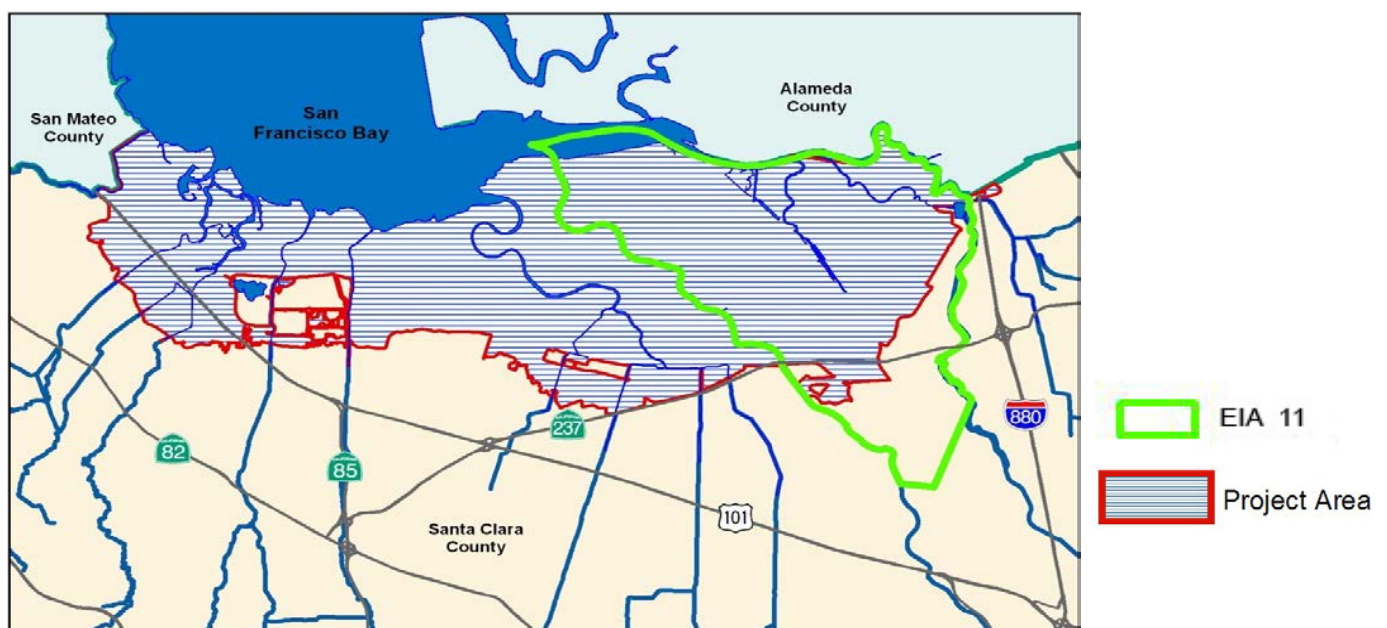
This project partners with the California Coastal Conservancy, U.S. Army Corps of Engineers (Corps), and key stakeholders to conduct an integrated, multi-objective project along the San Francisco Bay Shoreline. The planning efforts for the North San Jose area, known as Economic Impact Area 11 (EIA 11), will be funded from project number 00044026. Safe, Clean Water funds will provide \$15 million toward the District's cost share of the design and partial construction efforts for EIA 11 and \$5 million toward the District's cost share of the planning efforts for the remaining EIAs to accomplish the following objectives:

- Provide integrated fluvial and one-percent tidal flood protection.
- Provide protection for future sea level rise projections.
- Restore and/or enhance tidal marsh and related habitats.
- Provide recreational and public access opportunities throughout the tidal floodplain of Santa Clara County.
- Pursue continued federal funding.
- Obtain a Letter of Map Revision from the Federal Emergency Management Agency at completion of the Construction Phase.
- Coordinate closely with the South Bay Salt Pond Restoration Project, City of San Jose, U.S. Fish and Wildlife Services, the community and key stakeholders.

This project is accounted for in the following job numbers:

- 00044026—San Francisco Bay Shoreline
- 62044042—Shoreline, Early Implementation (Feasibility)
- 26444001—Shoreline, EIA 11 Design & Partial Constr.
- 26444002—Shoreline, Other EIAs Planning

PROJECT LOCATION



SCHEDULE & STATUS

July 2003 to June 2020

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 13,818 | | | | | | | | | | | |
| Permits | 487 | | | | | | | | | | | |
| Design | 9,368 | | | | | | | | | | | |
| Construct | 16,216 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 39,889 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|--------------|--------------|--------------|--------------|----------|----------|---------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 00044026-San Francisco Bay Shoreline | 12,255 | 802 | 1,500 | 0 | 0 | 0 | 0 | 0 | 14,557 |
| with inflation | 12,255 | 802 | 1,500 | 0 | 0 | 0 | 0 | 0 | 14,557 |
| 62044042-Shoreline Early Implementation | 359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 359 |
| with inflation | 359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 359 |
| 26444001-EIA 11 Design & Part Construction | 0 | 6,448 | 6,346 | 4,180 | 4,000 | 4,000 | 0 | 0 | 24,974 |
| with inflation | 0 | 6,448 | 6,346 | 4,447 | 4,384 | 4,520 | 0 | 0 | 26,144 |
| 26444002-Other EIAs Planning | 1,021 | 1,695 | 1,040 | 2,800 | 2,800 | 2,800 | 0 | 0 | 12,156 |
| with inflation | 1,021 | 1,695 | 1,040 | 3,028 | 3,150 | 3,276 | 0 | 0 | 13,210 |
| TOTAL | 13,635 | 8,945 | 8,631 | 6,980 | 6,800 | 6,800 | 0 | 0 | 52,046 |
| with inflation | 13,635 | 8,945 | 8,886 | 7,475 | 7,533 | 7,795 | 0 | 0 | 54,270 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|----------------|----------------|-----------------|--------------------------|-------|-------|-------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 00044026-San Francisco Bay Shoreline | 13,015 | 1,542 | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 | 14,557 |
| 62044042-Shoreline Early Implementation | 359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 359 |
| 26444001-EIA 11 Design & Part Construction | 6,239 | 309 | 100 | 6,246 | 4,447 | 4,384 | 4,520 | 0 | 0 | 26,144 |
| 26444002-Other EIAs Planning | 1,639 | 1,695 | 618 | 422 | 3,028 | 3,150 | 3,276 | 0 | 0 | 13,210 |
| TOTAL | 21,252 | 3,546 | 2,218 | 6,668 | 7,475 | 7,533 | 7,795 | 0 | 0 | 54,270 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|--|---------------|
| SCVWD Watershed Stream Stewardship Fund | 12,485 |
| SCVWD Clean, Safe Creeks and Natural Flood Protection Fund (Environmental Enhancement Grant) | 2,011 |
| SCVWD Safe, Clean Water and Natural Flood Protection Fund | 39,354 |
| California Department of Water Resources (Pending) | 420 |
| Total | 54,270 |
| Federal Partners, South Bay Salt Ponds (SBSP) | 48,470 |
| State, SBSP | 14,720 |
| Foundations, Packard-Hewlett-Goldman-Moore, SBSP | 17,060 |
| Coastal Conservancy, Shoreline | 2,010 |
| Federal, Corps of Engineers, Shoreline | 8,990 |
| Total Partnership Funding for In-kind Services | 91,250 |

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | Small Capital Improvements - Regnart Creek |
| Program | Flood Protection - Multiple Watersheds |
| Priority No. | 63 |
| Project No. | 62084001 |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



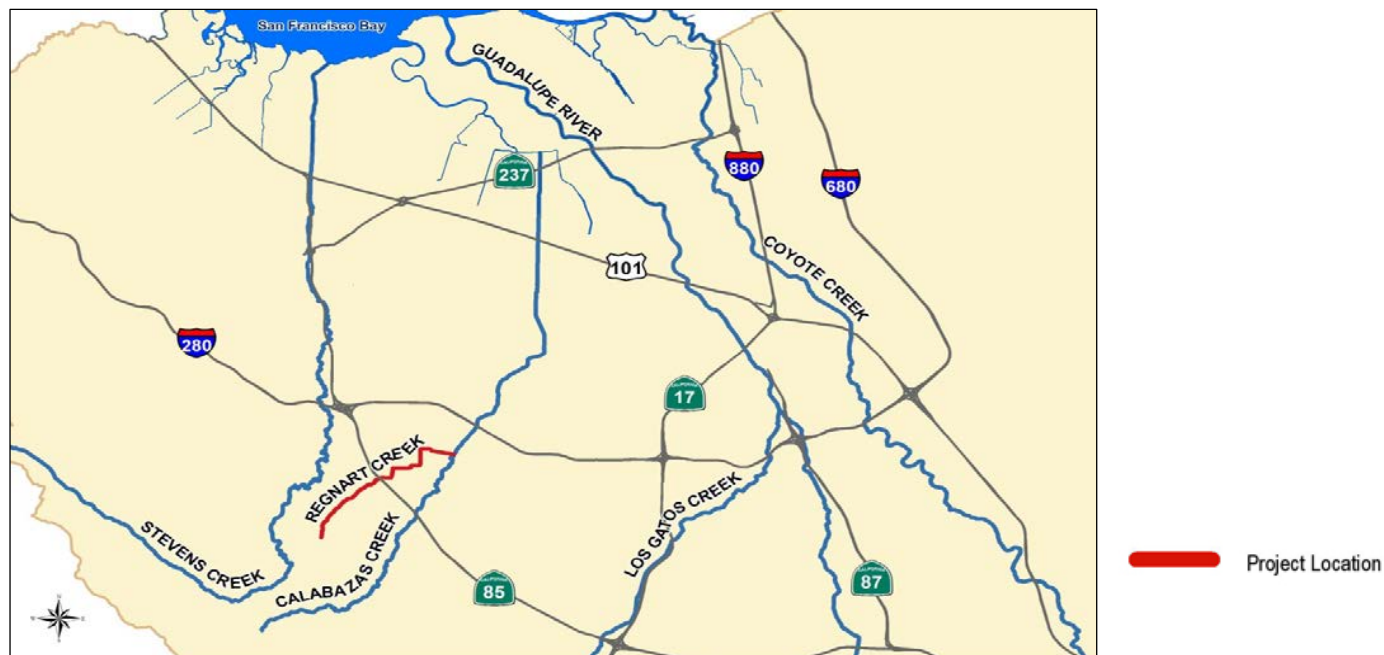
View of an outfall in need of restoration or repair

PROJECT DESCRIPTION

This project plans, designs, and constructs numerous small capital projects to address the following issues:

- ♦ Bank erosion repair.
- ♦ Geomorphic channel restoration with bed and bank repair.
- ♦ Outfall restoration and repair.
- ♦ Sediment removal and fish ladder and blockage repair.
- ♦ Fish ladder modifications and repairs.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 100 | | | | | | | | | | | |
| Permits | - | | | | | | | | | | | |
| Design | 320 | | | | | | | | | | | |
| Construct | 3,078 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| 3,498 | | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | | Total |
|---|--------------|----------------------|-------|------|------|------|------|--------|---|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 62084001-Small Capital Improvements - Regnart Creek | 855 | 1,550 | 1,110 | 0 | 0 | 0 | 0 | 0 | 0 | 3,515 |
| with inflation | 855 | 1,550 | 1,110 | 0 | 0 | 0 | 0 | 0 | 0 | 3,515 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|------|------|------|--------|---|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 62084001-Small Capital Improvements - Regnart Creek | 528 | 2,200 | 323 | 787 | 0 | 0 | 0 | 0 | 0 | 3,515 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$1,500,000.

FUNDING SOURCES

(in thousands \$)

| | |
|---|--------------|
| SCVWD Watershed Stream Stewardship Fund | 3,515 |
| Other Funding Sources | 0 |
| Total | 3,515 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Water Resources Stewardship Capital Improvements

WATER RESOURCES STEWARDSHIP OVERVIEW

The District 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.

The District has placed an emphasis on stewardship since 1999 when the Water District'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 the Water District's purpose. Specifically, the Water District'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

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

- Rehabilitated or restored 90 acres of riparian habitat and 600 acres of tidal wetland habitat
- Provided funding for 92 projects that resulted in 71 miles of public access
- Removed over 2,660 lbs of mercury from the Guadalupe Watershed
- Made 40 miles of streams accessible for fish
- 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

Environmental Commitment Projects

Beginning in FY 2011-12 a fourth sub-category was added to Water Resources Stewardship to clarify the differences between regulatory-driven and optional environmental enhancements. The Environmental Commitment sub-category includes projects that are implemented to satisfy agreements made with regulatory agencies that improve the watershed environment.

Environmental Enhancement Projects

Environmental Enhancement projects are constructed at the direction of the Board either to meet the Safe, Clean Water and Natural Flood Protection program (SCW) obligations or to meet other Board priorities.

The District's Safe, Clean Water Program, approved by the voters of Santa Clara County in 2012, committed funding for environmental enhancement activities that create or restore tidal or riparian habitat. A selection process will be conducted to allocate the SCW funding to the enhancement opportunities that meet Board-defined characteristics.

Major Capital Improvements Identified in the CIP

- Lake Almaden, Guadalupe River, Los Alamitos Creek Planning and Design
- South Bay Salt Ponds Restoration
- South Bay Salt Ponds Restoration

Mitigation Projects

The District manages many mitigation sites and continues to plan, design, and construct new mitigation sites to fulfill CEQA and regulatory permit requirements for both capital projects and operations activities. Mitigation requirements for capital projects may be incorporated into the project scope or accomplished as a separate project.

Major Capital Improvements Identified in the CIP

- SMP Mitigation, Stream and Watershed Land Preservation

Water Resources Stewardship Capital Improvements

Stewardship Projects

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 green house gas. Stewardship projects are implemented at the discretion of the Board when reasonable and appropriate. These projects are often accomplished in partnership with or support of other agencies.

Stewardship projects may be constructed to fulfill SCW obligations or to meet other Board priorities. A selection process will be conducted to allocate SCW funding to the Stewardship projects that meet the SCW requirements.

Major Capital Improvements Identified in the CIP

- Alviso Slough Restoration
- FAHCE Stevens Creek Fish Passage Enhancement
- SCW Implementation Fund



PRIORITY PROCESS AND FINANCIAL ANALYSIS

Environmental Enhancement and Stewardship projects are implemented at the discretion of the Board.

Projects may go through a ranking process to compete for Safe, Clean Water funds or the board may direct that other available revenue be used to implement the proposed projects. The inclusion of these projects in the Fiscal Year 2017-21 CIP has been approved by the Board. The priority criteria used to evaluate these projects are included in Appendix A.

Implementation of Mitigation projects is considered non-discretionary since they are needed to meet California Environmental Quality Act (CEQA) or regulatory permit commitments. Funding for mitigation projects is allocated without a prioritization process.

Financial analysis of the following funding sources for Water Resources Stewardship capital improvements was conducted to determine if there are limitations to funding currently planned capital projects.

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

Funding needs for approved Water Resources Stewardship projects can be met.



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 2015-16.

Water Resources Stewardship Capital Improvements (\$K)

| Project Number | PROJECT NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|----------------------------------|---|---------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|---------------|----------------|
| ENVIRONMENTAL COMMITMENT | | | | | | | | | | | |
| N/A | None | - | - | - | - | - | - | - | - | - | - |
| ENVIRONMENTAL ENHANCEMENT | | | | | | | | | | | |
| 26044001 | Almaden Lake Improvements (D4.1a) | 1,960 | 940 | 235 | 1,044 | - | - | - | - | - | 3,944 |
| 00294001s | FAHCE Stevens Creek Fish Passage Enhancement D4.x | 850 | - | - | - | 1,506 | 3,226 | - | - | - | 5,582 |
| 26164001 | Hale Creek Enhancement Pilot Study (D6) | - | 462 | - | 482 | 1,627 | - | - | - | - | 2,571 |
| 20444001 | Salt Ponds A5-11 Restoration | - | 1,565 | - | 1,715 | 784 | 1,898 | - | - | - | 5,962 |
| 26044002 | SCW Fish Passage Improvements (D4.3; Bolsa Road) | - | 1,571 | - | 2,203 | 1,472 | 1,410 | - | - | - | 6,656 |
| 26444003 | South Bay Salt Ponds Restoration (D8) | 517 | 18 | 326 | - | 1,712 | 1,863 | - | - | - | 4,110 |
| MITIGATION | | | | | | | | | | | |
| 62184001 | SMP Mitigation, Stream and Watershed Land Preservatic | 14,204 | 1,510 | - | 510 | 860 | - | - | - | - | 17,084 |
| STEWARDSHIP | | | | | | | | | | | |
| 26C40370 | SCW Implementation Fund | - | - | - | - | 9,257 | 16,531 | 11,060 | 2,405 | 23,658 | 62,911 |
| TOTAL | | 17,531 | 6,066 | 561 | 5,954 | 17,218 | 24,928 | 11,060 | 2,405 | 23,658 | 108,820 |

 FY 2015-16 Funds to be reappropriated

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

Water Resources Stewardship – Funding Sources (\$K)

| Fund Number | FUND NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|--------------|---|---------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|---------------|----------------|
| 61 | Water Utility Enterprise Fund | 765 | - | - | - | 2,079 | 3,652 | 775 | 802 | 7,886 | 15,959 |
| 12 | Watershed Stream Stewardship Fund | 14,289 | 3,075 | - | 2,225 | 2,519 | 2,970 | 775 | 802 | 7,886 | 34,540 |
| 26 | Safe, Clean Water and Natural Flood Protection Fund | 2,477 | 2,991 | 561 | 3,729 | 12,620 | 18,306 | 9,510 | 802 | 7,886 | 58,321 |
| TOTAL | | 17,531 | 6,066 | 561 | 5,954 | 17,218 | 24,928 | 11,060 | 2,405 | 23,658 | 108,820 |

 FY 2015-16 Funds to be reappropriated

Water Resources Stewardship Capital Improvements

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| | |
|-------------------------|---|
| Project | Almaden Lake Improvements |
| Program | Water Resources Stewardship – Environmental Enhancement |
| Priority No. | 39 |
| Project No. | 26044001 |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



Looking southerly at Lake Almaden, which has fish with the highest concentrations of mercury in California in 2010.

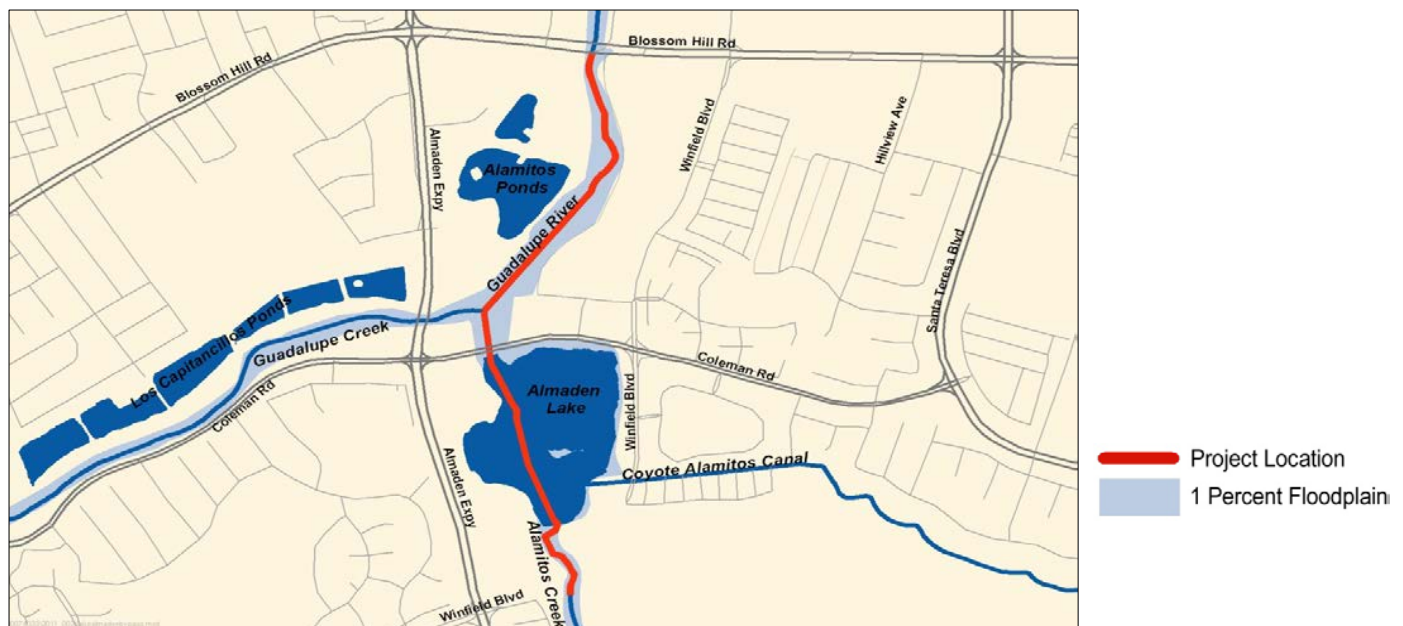
PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Guadalupe River from Blossom Hill Road to the Guadalupe Creek/Alamitos Creek confluence, and Alamitos Creek from the Guadalupe Creek confluence to Winfield Boulevard, including Lake Almaden. This Project will evaluate alternatives aimed to reduce impacts from mercury-containing sediment to water quality and habitat, and high water temperatures and predation to anadromous fish in Almaden Lake, to accomplish the following objectives:

- ♦ Separate Alamitos Creek from Almaden Lake.
- ♦ Reduce thermal barrier 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. Funding for construction may be available from Safe, Clean Water, Priority D.

PROJECT LOCATION



SCHEDULE & STATUS

July 2011 to June 2017

Planning Phase and some Design tasks. Construction is not funded at this time.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 1,360 | | | | | | | | | | | |
| Permits | 349 | | | | | | | | | | | |
| Design | 1,469 | | | | | | | | | | | |
| Construct | - | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 3,178 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|------------------------------------|--------------|----------------------|-------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26044001-Almaden Lake Improvements | 1,900 | 765 | 1,279 | 0 | 0 | 0 | 0 | 0 | 3,944 |
| with inflation | 1,900 | 765 | 1,279 | 0 | 0 | 0 | 0 | 0 | 3,944 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|------------------------------------|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26044001-Almaden Lake Improvements | 1,960 | 940 | 235 | 1,044 | 0 | 0 | 0 | 0 | 0 | 3,944 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|--|--------------|
| SCVWD Clean, Safe Creeks and Natural Flood Protection Fund | 800 |
| SCWD Safe Clean Water Fund | 3,144 |
| Total | 3,944 |

OPERATING COST IMPACTS

No operating cost impacts are expected from the completion of the planning and design phases of the project.

USEFUL LIFE: 100 Years

| | |
|-------------------------|---|
| Project | FAHCE Stevens Creek Fish Passage Enhancement |
| Program | Water Resources Stewardship - Environmental Enhancement |
| Priority No. | 40 |
| Project No. | 00294001s |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



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

PROJECT DESCRIPTION

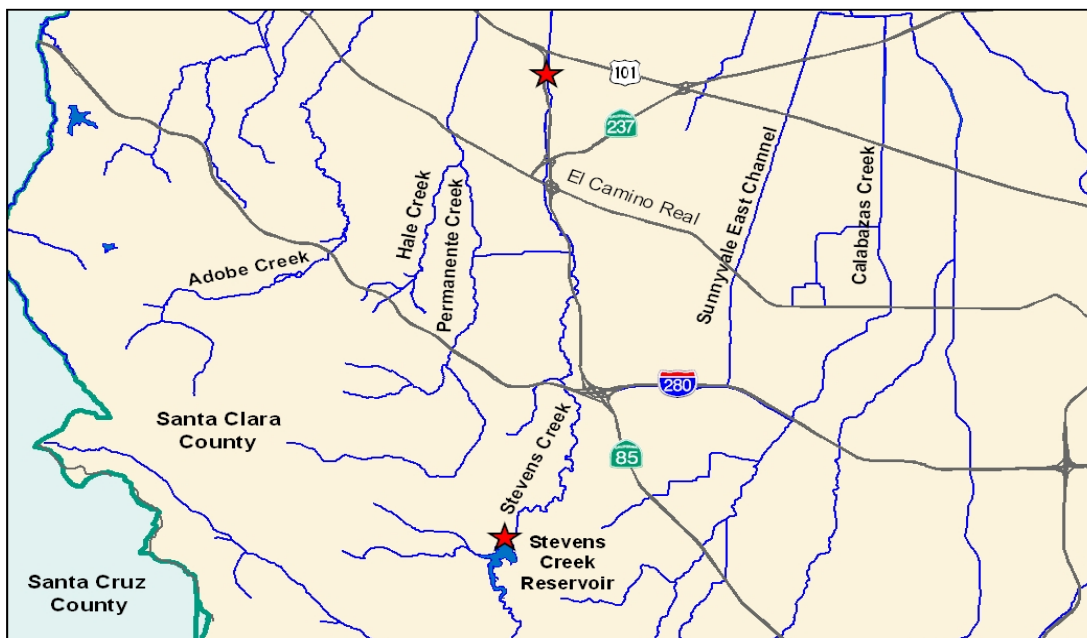
This project plans, designs, and constructs improvements to the Moffett Boulevard fish ladder to improve fish passage as well as a multiport outlet at Stevens Creek Dam to accomplish the following objectives:

- Restore and maintain a healthy steelhead trout population in the Stevens Creek watershed.
- Provide a suitable spawning and rearing habitat below Stevens Creek Dam within a cold water management zone determined on an annual basis through the development of an operations plan.
- 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 job numbers:

- 00294001—Fish Passage Planning
- 00C40145—Moffett Boulevard Fish Ladder
- 00C40198—Multi-Port Outlet at Dam

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2008 to June 2019

Planning phase is complete. Project on hold pending completion of the Three Creeks Habitat Conservation Plan, to be done in a separate operating project.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 850 | | | | | | | | | | | |
| Permits | 104 | | | | | | | | | | | |
| Design | 1,289 | | | | | | | | | | | |
| Construct | 2,917 | | | | | | | | | | | |
| Closeout | 34 | | | | | | | | | | | |
| | 5,194 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|--------------|----------------------|----------|--------------|--------------|----------|----------|----------|--------------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | 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 | 1,110 | 1,907 | 0 | 0 | 0 | 3,016 |
| with inflation | 0 | 0 | 0 | 1,200 | 2,083 | 0 | 0 | 0 | 3,284 |
| 00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet | 0 | 0 | 0 | 283 | 1,045 | 0 | 0 | 0 | 1,328 |
| with inflation | 0 | 0 | 0 | 306 | 1,143 | 0 | 0 | 0 | 1,449 |
| TOTAL | 850 | 0 | 0 | 1,393 | 2,951 | 0 | 0 | 0 | 5,194 |
| with inflation | 850 | 0 | 0 | 1,506 | 3,226 | 0 | 0 | 0 | 5,582 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|-------|-------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | 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 | 1,200 | 2,083 | 0 | 0 | 0 | 3,284 |
| 00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet | 0 | 0 | 0 | 0 | 306 | 1,143 | 0 | 0 | 0 | 1,449 |
| TOTAL | 850 | 0 | 0 | 0 | 1,506 | 3,226 | 0 | 0 | 0 | 5,582 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|---|--------------|
| SCVWD Watershed Stream Stewardship Fund-10% | 558 |
| SCVWD Water Utility Enterprise Fund-90% | 5,024 |
| Total | 5,582 |

OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

USEFUL LIFE: 50 Years

| | |
|-------------------------|--|
| Project | Hale Creek Enhancement Pilot Study |
| Program | Water Resources Stewardship - Environmental Enhancements |
| Priority No. | 67 |
| Project No. | 26164001 |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



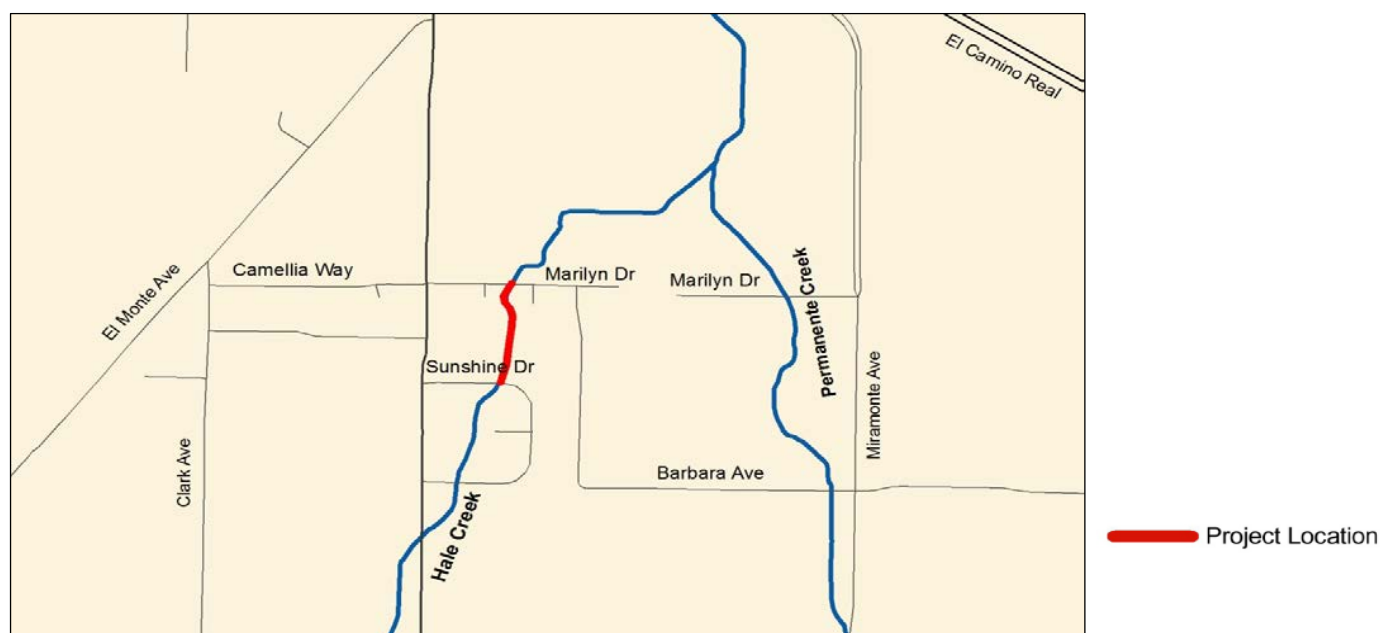
Reach to be modified downstream of 7th Day Adventist foot bridge between Marilyn Drive and North Sunshine Drive.

PROJECT DESCRIPTION

This pilot project plans, designs, and constructs improvements to an approximately 500-foot long reach in Hale Creek to accomplish the following objectives:

- ♦ Provide flood protection and enhance habitat values.
- ♦ Restore stream recharge capability to a concrete-lined portion.
- ♦ Remove existing concrete channel and replace with a vegetated soft-bottom channel.

PROJECT LOCATION



SCHEDULE & STATUS

May 2015 to June 2018

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 75 | | | | | | | | | | | |
| Permits | 144 | | | | | | | | | | | |
| Design | 702 | | | | | | | | | | | |
| Construct | 1,500 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 2,421 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|--------------|----------------------|------|-------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26164001-Hale Creek Enhancement Pilot Study | 46 | 416 | 482 | 1,523 | 0 | 0 | 0 | 0 | 2,467 |
| with inflation | 46 | 416 | 482 | 1,627 | 0 | 0 | 0 | 0 | 2,571 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|-------|------|------|--------|---|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 26164001-Hale Creek Enhancement Pilot Study | 0 | 462 | 0 | 482 | 1,627 | 0 | 0 | 0 | 0 | 2,571 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$462,000.

FUNDING SOURCES

(in thousands \$)

| | |
|------------------------------|--------------|
| SCVWD Safe, Clean Water Fund | 2,571 |
| Other Funding Sources | 0 |
| Total | 2,571 |

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

USEFUL LIFE: Not available

| | |
|-------------------------|---|
| Project | Salt Ponds A5-11 Restoration |
| Program | Water Resources Stewardship - Environmental Enhancements |
| Priority No. | 36 |
| Project No. | 20444001 |
| District Contact | Liang Lee llee@valleywater.org |



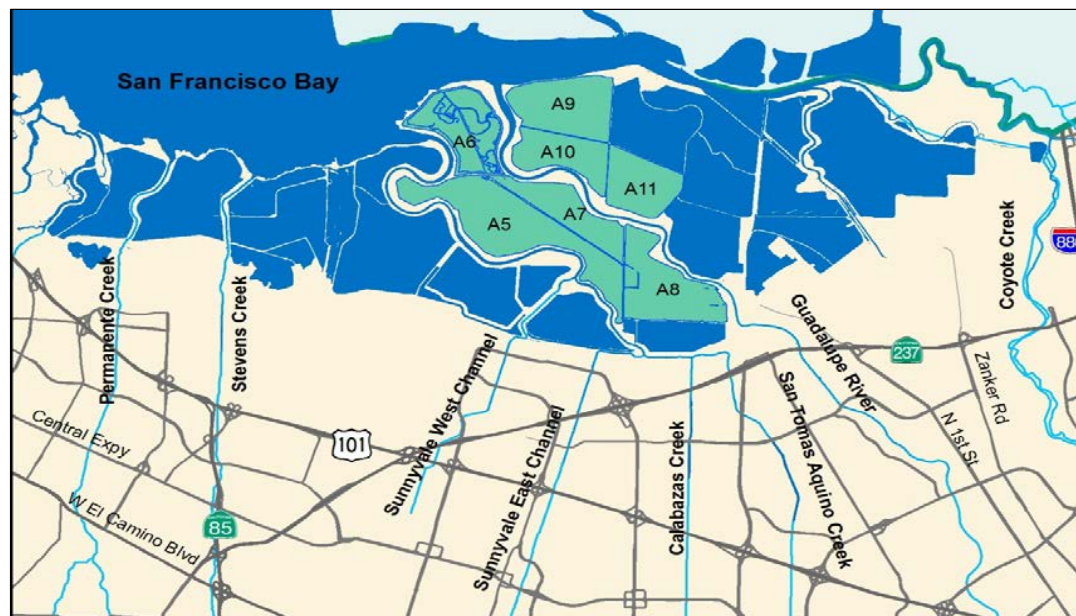
View of Notch Location at Pond A8

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the South Bay Salt Ponds (SBSP) and will collaborate with the SBSP Phase II restoration efforts to accomplish the following objectives:

- ♦ Investigate flood benefits provided by the existing salt pond levees, identify weaknesses, design correction and construct corrections to protect Santa Clara County.
- ♦ Collaborate with Phase II restoration efforts to make sure that adequate flood protection is provided.
- ♦ Collect data required to answer permitting questions on mercury and steelhead migration. Positive results should allow the Pond A8 notch to be fully operational.
- ♦ Investigate the re-alignment of Calabazas and San Tomas Creek into Pond A8 and design and implement re-alignment if feasible.

PROJECT LOCATION



SCHEDULE & STATUS

July 2015 to June 2019

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 2,372 | | | | | | | | | | | |
| Permits | 495 | | | | | | | | | | | |
| Design | 284 | | | | | | | | | | | |
| Construct | 2,524 | | | | | | | | | | | |
| Closeout | 5 | | | | | | | | | | | |
| | 5,680 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---------------------------------------|-----------------|----------------------|-------|------|-------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 20444001-Salt Ponds A5-11 Restoration | 47 | 1,518 | 1,715 | 725 | 1,722 | 0 | 0 | 0 | 5,727 |
| with inflation | 47 | 1,518 | 1,715 | 784 | 1,898 | 0 | 0 | 0 | 5,963 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---------------------------------------|-------------|-------------|--------------|--------------------------|------|-------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 20444001-Salt Ponds A5-11 Restoration | 0 | 1,565 | 0 | 1,715 | 784 | 1,898 | 0 | 0 | 0 | 5,963 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$47,000.

FUNDING SOURCES

(in thousands \$)

| | |
|---|--------------|
| SCVWD Watershed and Stream Stewardship Fund | 5,963 |
| Other Funding Sources | 0 |
| Total | 5,963 |

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$4 million every 3 years, beginning in FY 2020, for on-going sediment removal.

USEFUL LIFE: Not Available

| | |
|-------------------------|--|
| Project | SCW Fish Passage Improvements (Bolsa Rd.) |
| Program | Water Resources Stewardship - Environmental Enhancements |
| Priority No. | 46 |
| Project No. | 26044002 |
| District Contact | Liang Lee Llee@valleywater.org |



View of the Bolsa Road fish barrier removed will be allowing fish access to upstream habitat

PROJECT DESCRIPTION

This project plans, designs and constructs improvements for two high priority fish barriers in Santa Clara County. A third priority barrier, owned by the City of San Jose, will be remediated through a project partnership with funds allocated from this project. The project will accomplish the following objectives:

- 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)
- Planning, design and construction for a passage impediment at the Bolsa Road railroad bridge in the Uvas Watershed. Remediation of this site will allow access to approximately 22 miles of higher quality habitat upstream as well as unimpeded access for out-migrant fish through the project site.
- Prepare a partnership agreement and provide technical support to the City of San Jose for removal of the Singleton Road Bridge in Coyote Creek. Removal of this passage impediment will facilitate movement of migratory fish for approximately 17.6 miles creek above the site and allow for unimpeded access of out-migrant fish through the site.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2015 to June 2019

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 671 | | | | | | | | | | | |
| Permits | 301 | | | | | | | | | | | |
| Design | 2,277 | | | | | | | | | | | |
| Construct | 3,100 | | | | | | | | | | | |
| Closeout | 75 | | | | | | | | | | | |
| | 6,424 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|-------|-------|-------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26044002-SCW Fish Passage Improvements (Bolsa Rd.) | 110 | 1,461 | 2,203 | 1,375 | 1,275 | 0 | 0 | 0 | 6,424 |
| with inflation | 110 | 1,461 | 2,203 | 1,472 | 1,410 | 0 | 0 | 0 | 6,656 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|----------------|----------------|-----------------|--------------------------|-------|-------|------|--------|---|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 26044002-SCW Fish Passage Improvements (Bolsa Rd.) | 0 | 1,571 | 0 | 2,203 | 1,472 | 1,410 | 0 | 0 | 0 | 6,656 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$110,000.

FUNDING SOURCES

(in thousands \$)

| | |
|------------------------------|--------------|
| SCVWD Safe, Clean Water Fund | 6,656 |
| Other Funding Sources | 0 |
| Total | 6,656 |

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 50 Years

| | |
|-------------------------|---|
| Project | South Bay Salt Ponds Restoration |
| Program | Water Resources Stewardship - Environmental Enhancement |
| Priority No. | 30 |
| Project No. | 26444003 |
| District Contact | Liang Lee llee@valleywater.org |



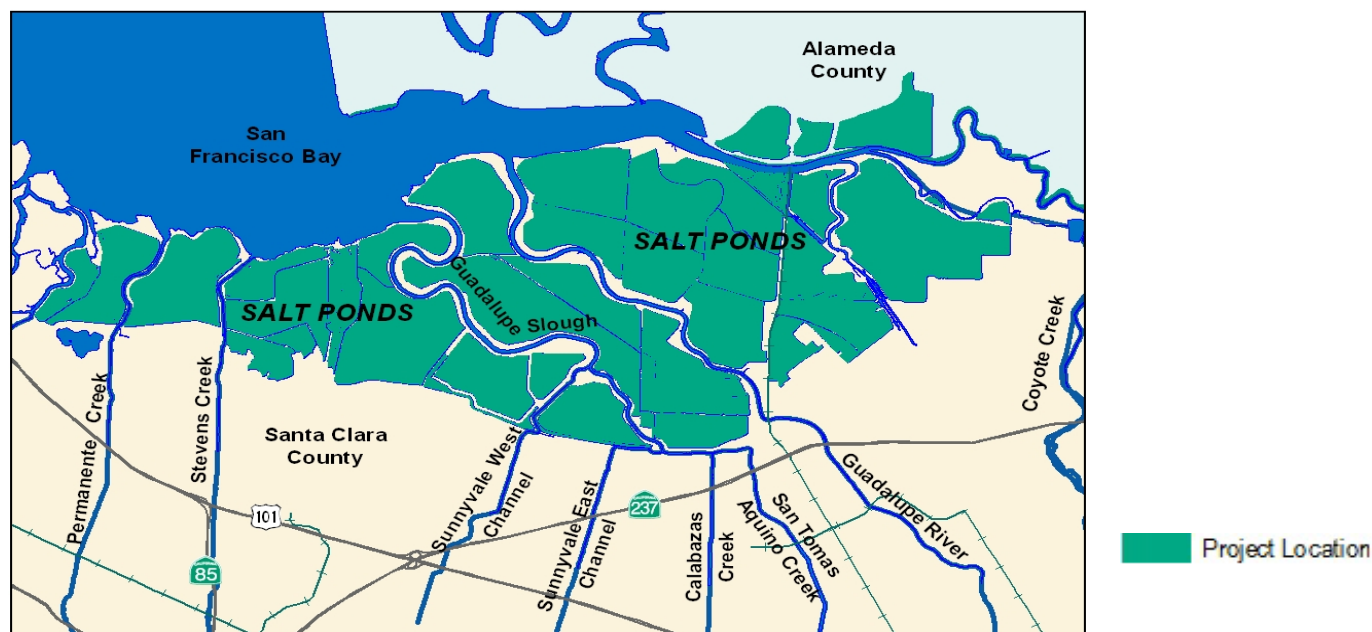
View of one of the salt evaporator facilities near Alviso

PROJECT DESCRIPTION

This project implements a planning study to investigate possible improvements to the South Bay Salt Ponds to accomplish the following objectives:

- Provide for beneficial reuse of dredge material, including materials excavated from the District's Stream Maintenance Program.
- Provide sediment disposal, storage, and reuse for a 5-year period.
- Examine restoration opportunities for riparian and wildlife habitat.

PROJECT LOCATION



SCHEDULE & STATUS

June 2013 to June 2019

Planning Study Only

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 3,601 | | | | | | | | | | | |
| Permits | 18 | | | | | | | | | | | |
| Design | - | | | | | | | | | | | |
| Construct | - | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 3,619 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|------|-------|-------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26444003-South Bay Salt Ponds Restoration | 191 | 18 | 269 | 1,636 | 1,656 | 0 | 0 | 0 | 3,770 |
| with inflation | 191 | 18 | 269 | 1,769 | 1,863 | 0 | 0 | 0 | 4,110 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|----------------|----------------|-----------------|--------------------------|-------|-------|------|--------|---|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 26444003-South Bay Salt Ponds Restoration | 517 | 18 | 326 | 0 | 1,712 | 1,863 | 0 | 0 | 0 | 4,110 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|------------------------------|--------------|
| SCVWD Safe, Clean Water Fund | 4,110 |
| Other Funding Sources | 0 |
| Total | 4,110 |

OPERATING COST IMPACTS

Planning Phase Only: The completion of this phase of the project is not anticipated to increase or decrease annual operating costs.

USEFUL LIFE: Not Available

| | |
|-------------------------|--|
| Project | SMP Mitigation Stream and Watershed Land Preservation |
| Program | Water Resources Stewardship – Mitigation |
| Priority No. | 99 |
| Project No. | 62184001 |
| District Contact | Melanie Richardson mrichardson@valleywater.org |



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

PROJECT DESCRIPTION

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

- ♦ Provide 71 acres of Stream Maintenance Program (SMP) mitigation credits through preservation of approximately 720 to 950 acres 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 108 acres of the total land preservation will be for protection of riparian and upland habitats that are known to support California red-legged frogs and Western pond turtles.
- ♦ Provide approximately 10 acres of SMP mitigation credits through environmental restoration on the lands acquired.
- ♦ Seek opportunities to partner with other organizations to accomplish the project objectives.

PROJECT LOCATION

The project will purchase multiple sites for preservation in Santa Clara Basin as they become available. No map is provided.

SCHEDULE & STATUS

July 2003 to June 2018

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

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 3,048 | | | | | | | | | | | |
| Permits | 820 | | | | | | | | | | | |
| Design | 12,092 | | | | | | | | | | | |
| Construct | 905 | | | | | | | | | | | |
| Closeout | 20 | | | | | | | | | | | |
| | 16,885 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|--------------|----------------------|------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 62184001-SMP Mitigation Stream and Watershed Land Preservation | 12,196 | 3,518 | 510 | 801 | 0 | 0 | 0 | 0 | 17,025 |
| with inflation | 12,196 | 3,518 | 510 | 860 | 0 | 0 | 0 | 0 | 17,084 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 62184001-SMP Mitigation Stream and Watershed Land Preservation | 14,204 | 1,510 | 0 | 510 | 860 | 0 | 0 | 0 | 0 | 17,084 |

Adjusted Budget includes adopted budget plus a planned budget adjustment of \$715,000.

FUNDING SOURCES

(in thousands \$)

| | |
|---|---------------|
| SCVWD Watershed Stream Stewardship Fund | 17,084 |
| Other Funding Source | 0 |
| Total | 17,084 |

OPERATING COST IMPACTS

Operating cost will vary, depending on the type of acquisition ownership and requirements for maintenance of each site. The Stevens Canyon Ranch Conservation Easement was acquired in December 2006 and there are no operating impacts to the District. The property owner, Mid-Peninsula Regional Open Space District is responsible for maintenance and management of the site.

USEFUL LIFE: 50+ Years

| | |
|-------------------------|---|
| Project | SCW Implementation Fund |
| Program | Water Resources Stewardship |
| Priority No. | 38 |
| Project No. | 26C40370 |
| District Contact | Melanie Richardson Mrichardson@valleywater.org |



Aerial view looking downstream of the Ogier Pond complex.
This is just one possible site under consideration.

PROJECT DESCRIPTION

This project is a placeholder for future capital projects that have not been fully defined. These projects will implement Safe Clean Water (SCW) objectives and are likely to include projects such as Comer Debris Basin, and construction of Lake Almaden-Guadalupe River-Alamitos Creek Restoration. Funds will be moved from this project into actual projects once they have been defined and vetted to ensure they meet the following program objectives:

- Create favorable stream conditions to restore and maintain fisheries.
- Increase the stability of stream channels through construction based on geomorphic principals.
- Acquisition of property for the conservation of habitat.

PROJECT LOCATION

No map is provided for this project

SCHEDULE & STATUS

July 2014 to June 2028

Data shown here 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 | 62,911 |
| Closeout | - |

62,911

| FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|----------------------------------|--------------|----------------------|------|-------|--------|--------|-------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 26C40370-SCW Implementation Fund | 0 | 0 | 0 | 9,257 | 16,531 | 11,060 | 2,405 | 23,658 | 62,911 |
| with inflation | 0 | 0 | 0 | 9,257 | 16,531 | 11,060 | 2,405 | 23,658 | 62,911 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|----------------------------------|-------------|-------------|--------------|--------------------------|-------|--------|--------|--------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 26C40370-SCW Implementation Fund | 0 | 0 | 0 | 0 | 9,257 | 16,531 | 11,060 | 2,405 | 23,658 | 62,911 |

FUNDING SOURCES

(in thousands \$)

| | |
|---|---------------|
| SCVWD Safe, Clean Water Fund | 41,039 |
| SCVWD Water Utility Enterprise Fund | 10,936 |
| SCVWD Watershed and Stream Stewardship Fund | 10,936 |
| Total | 62,911 |

OPERATING COST IMPACTS

Not Available

USEFUL LIFE: Not Available

Building and Grounds Capital Improvements

BUILDINGS AND GROUNDS OVERVIEW

The District's Almaden-Winfield campus occupies nearly 50 acres along Almaden Expressway in the City of San Jose. The District manages the campus to ensure a healthful and safe work environment for employees and visitors. The campus includes 10 buildings, multiple parking lots, a corporation yard, landscaping, and other appurtenances.

With most of the buildings on campus over 30 years old, the rehabilitation needs increased steadily in recent years. The District administers an asset management program for its buildings and grounds infrastructure that includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

In January of 2012 the Board approved implementation of the Campus Master Plan which includes the following:

- Repair and rehabilitate the existing Corporation yard.
- Repair Winfield Warehouse and Winfield Vegetation buildings.
- Replace the Maintenance Office and Ready Room buildings.

Major Capital Improvements Identified in the CIP

- Almaden & Winfield Campus Small Capital Improvements
- Winfield Capital Improvements
- Headquarters Operations Building

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to rate the buildings and grounds projects against other types of capital improvements. The priority criteria used are included in Appendix A.

Financial analysis of the following funding sources for buildings and grounds capital improvements was conducted to determine if there are limitations to funding all the proposed capital projects.

- Watershed and Stream Stewardship Fund
- General Fund
- Water Utility Enterprise Fund

Results of this year's prioritization process and financial analysis are summarized in Appendix B. The process concluded that the Almaden and Winfield Campus Small Capital Improvements will continue to be funded at \$2 million per year to meet the higher priority Buildings and Grounds needs. The first of the projects from the Campus Master Plan began in FY 2012-13 and the Headquarters Operations Building was added to the FY 2015-19 CIP.

Building and Grounds Capital Improvements

The following table is a project funding schedule for buildings and grounds capital improvements resulting from this year's priority process and 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 2015-16.

Buildings and Grounds Capital Improvements (\$K)

| Project Number | PROJECT NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|----------------|---|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| 60204016 | Almaden and Winfield Campus, Small Capital Improven | n/a | 1,880 | - | 2,062 | 2,126 | 2,192 | 2,260 | 2,324 | 27,526 | 40,370 |
| 60204032 | Headquarters Operations Building | 219 | 957 | 1,060 | - | 987 | 3,825 | 6,949 | 4,867 | - | 17,804 |
| 60204021 | Winfield Capital Improvements | 1,685 | 7,618 | 7,474 | 5,927 | 622 | - | - | - | - | 15,852 |
| TOTAL | | 1,904 | 10,455 | 8,534 | 7,989 | 3,735 | 6,017 | 9,209 | 7,191 | 27,526 | 74,026 |

 FY 2015-16 Funds to be reappropriated

The following table shows funding requirements from each funding source for buildings and grounds capital improvements.

Buildings and Grounds – Funding Sources (\$K)

| Fund Number | FUND NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| 11 | General Fund | 1,904 | 10,455 | 8,534 | 7,989 | 3,735 | 6,017 | 9,209 | 7,191 | 27,526 | 74,026 |
| TOTAL | | 1,904 | 10,455 | 8,534 | 7,989 | 3,735 | 6,017 | 9,209 | 7,191 | 27,526 | 74,026 |

 FY 2015-16 Funds to be reappropriated

| | |
|-------------------------|--|
| Project | Almaden and Winfield Campus, Small Capital Improvements |
| Program | Buildings and Grounds |
| Priority No. | 73 |
| Project No. | 60204016 |
| District Contact | Ravi Subramanian rsubramanian@valleywater.org |

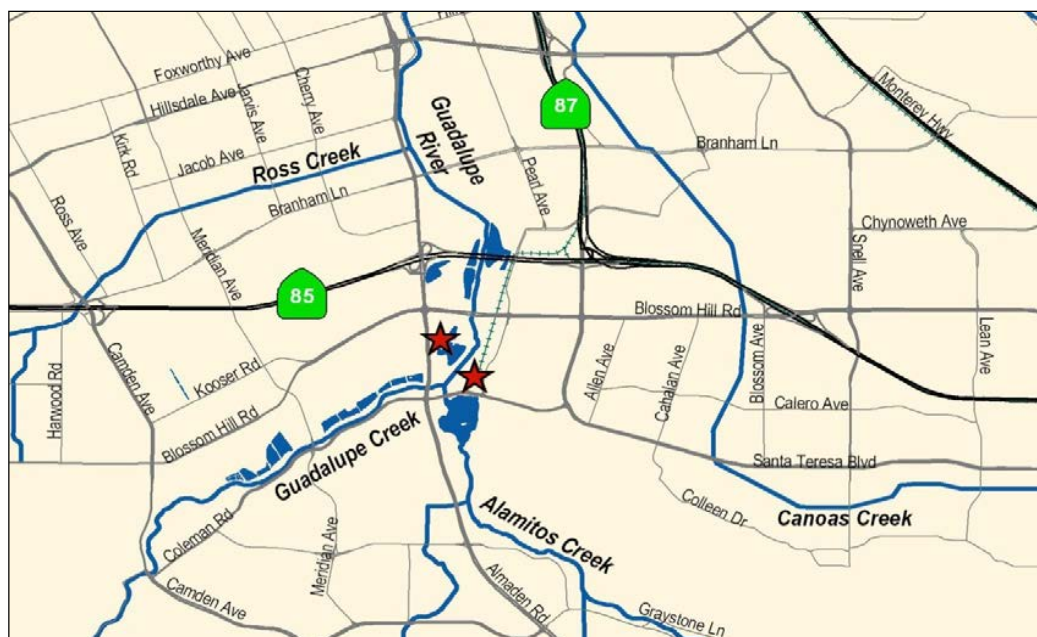


Front view of the Headquarters building at the Almaden Campus

PROJECT DESCRIPTION

This project reserves funding for capital maintenance and replacement of buildings, grounds, and facilities on the Almaden and Winfield campus, to provide a healthy and safe environment for staff and visitors.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

Improvements will be managed on an as-needed basis throughout the year.

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | n/a | | | | | | | | | | | |
| Design | n/a | | | | | | | | | | | |
| Construct | n/a | | | | | | | | | | | |
| Closeout | n/a | | | | | | | | | | | |
| | n/a | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|--------------|----------------------|-------|-------|-------|-------|-------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 60204016-Almaden and Winfield Campus, Small Capital Improvements | n/a | 1,880 | 2,062 | 2,000 | 2,000 | 2,000 | 2,000 | 20,000 | 31,942 |
| with inflation | n/a | 1,880 | 2,062 | 2,126 | 2,192 | 2,260 | 2,324 | 27,527 | 40,371 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|-------|-------|-------|-------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 60204016-Almaden and Winfield Campus, Small Capital Improvements | n/a | 1,880 | 0 | 2,062 | 2,126 | 2,192 | 2,260 | 2,324 | 27,527 | 40,371 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|----------------------|---------------|
| SCVWD General Fund | 40,371 |
| Other Funding Source | 0 |
| Total | 40,371 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs. The purpose of these maintenance projects is to avoid unnecessary financial impact caused by building shut-down and work stoppage.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | Headquarters Operations Building |
| Program | Buildings and Grounds |
| Priority No. | 65 |
| Project No. | 60204032 |
| District Contact | Katherine Oven koven@valleywater.org |



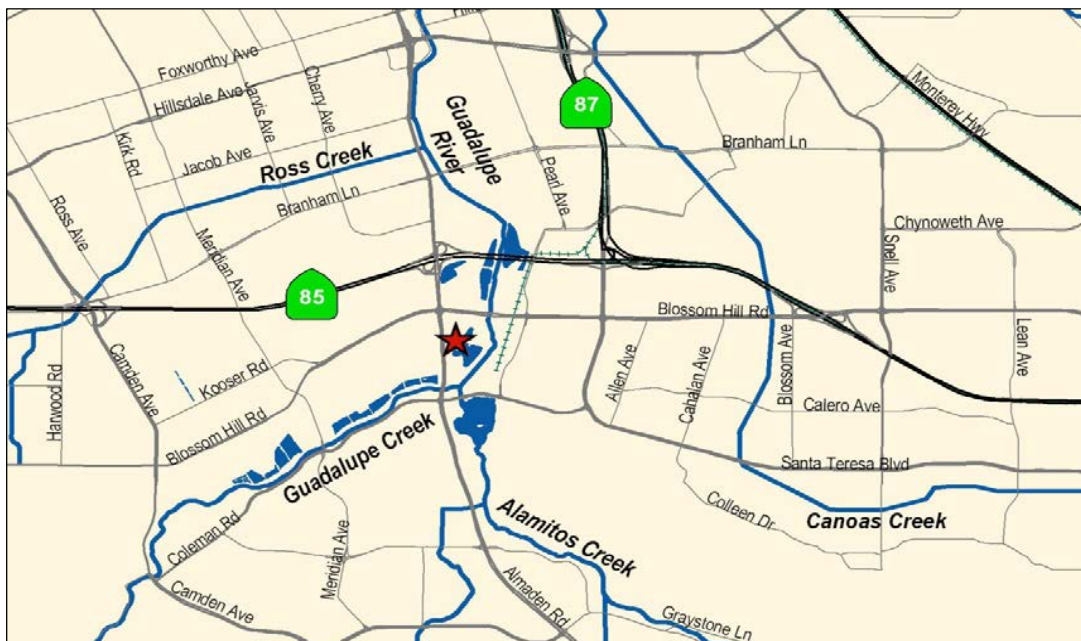
Existing Maintenance Building

PROJECT DESCRIPTION

This project plans, designs, and constructs a new operations building to replace the existing facility that has extensive deficiencies throughout. This project accomplishes the following objectives:

- ♦ Replace the Maintenance Office Building to provide a safe and healthy work environment and to meet code or regulatory requirements.
- ♦ Provide adequate and sufficient space to enable the District to efficiently perform its core business.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2014 to June 2021

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 2,998 | | | | | | | | | | | |
| Design | 1,857 | | | | | | | | | | | |
| Construct | 10,478 | | | | | | | | | | | |
| Closeout | 23 | | | | | | | | | | | |
| | 15,356 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|------|-------|-------|-------|-------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 60204032-Headquarters Operations Building | 16 | 100 | 100 | 1,800 | 3,400 | 5,940 | 4,000 | 0 | 15,356 |
| with inflation | 16 | 100 | 100 | 1,947 | 3,825 | 6,949 | 4,867 | 0 | 17,803 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|----------------|----------------|-----------------|--------------------------|------|-------|-------|--------|---|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 60204032-Headquarters Operations Building | 219 | 957 | 1,060 | 0 | 987 | 3,825 | 6,949 | 4,867 | 0 | 17,803 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-----------------------|---------------|
| SCVWD General Fund | 17,803 |
| Other Funding Sources | 0 |
| Total | 17,803 |

OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | Winfield Capital Improvements |
| Program | Buildings and Grounds |
| Priority No. | 70 |
| Project No. | 60204021 |
| District Contact | Katherine Oven koven@valleywater.org |

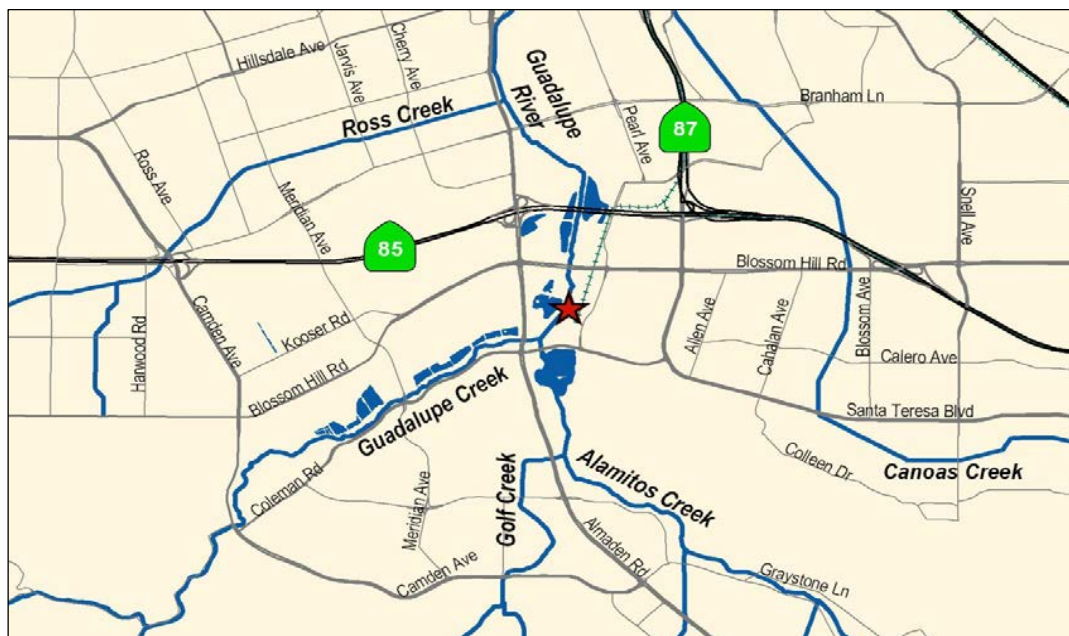


A view of the District's Vegetation Management building on Winfield Blvd

PROJECT DESCRIPTION

This project is to repair, maintain and improve the Winfield Warehouse and Winfield Vegetation Buildings, to provide a healthy and safe environment for staff and visitors. This includes improving restroom and shower facilities, enclosing the open section of the warehouse and providing a safe and fully functioning Class IV workshop, seismic upgrades and a new roof.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

September 2012 to December 2017

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | 97 | | | | | | | | | | | |
| Design | 1,316 | | | | | | | | | | | |
| Construct | 13,976 | | | | | | | | | | | |
| Closeout | 25 | | | | | | | | | | | |
| | 15,414 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|--------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 60204021-Winfield Capital Improvements | 1,279 | 550 | 13,401 | 575 | 0 | 0 | 0 | 0 | 15,805 |
| with inflation | 1,279 | 550 | 13,401 | 622 | 0 | 0 | 0 | 0 | 15,852 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 60204021-Winfield Capital Improvements | 1,685 | 7,618 | 7,474 | 5,927 | 622 | 0 | 0 | 0 | 0 | 15,852 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|----------------------|---------------|
| SCVWD General Fund | 15,852 |
| Other Funding Source | 0 |
| Total | 15,852 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs.

USEFUL LIFE: Not Available

Information Technology Capital Improvements

INFORMATION TECHNOLOGY OVERVIEW

The District relies on its software systems and technology infrastructure to help manage its core responsibilities of water supply, flood protection, and environmental stewardship. Recognizing the importance of Information Technology to its success, the District completed the Information Systems Master Plan (ISMP) in 2012. The ISMP is an 8-year plan consisting of 32 capital and non-capital improvement projects.

In 2014, the Information Technology Capital Fund was created, it accounts for the costs to acquire, and install capital information technology projects with District-wide benefit. Projects include acquisition and replacement of computers, networks, and communications systems as well as major investments in enterprise software systems.

Costs are billed to user departments as Intra-District Computer Equipment Charges. Billing rates will be set to smooth charges over time by recovering current costs and accumulating reserves for major planned future projects. Current year charges or a combination of current year charges and reserves may be used to fund authorized projects. The purpose of this fund is to provide adequate resources while avoiding peaks and valleys in charges to user departments.

Major Capital Improvements Identified in the CIP

- Information Technology Disaster Recovery
- PeopleSoft System Upgrade and Expansion
- Data Consolidation
- Software Upgrades & Enhancements
- WTP-WQL Network Equipment

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to rate the information technology projects against other types of capital improvements. The priority criteria used are included in Appendix A.

Financial analysis of the Information Technology Capital Fund was conducted to determine if there are limitations to funding the planned capital projects. Results of this year's prioritization process and financial analysis are summarized in Appendix B. Funding needs for approved Information Technology projects can be met.

Information Technology Capital Improvements

The following table is a project funding schedule for information technology capital improvements resulting from this year's priority process and 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 2015-16.

Information Technology Capital Improvements (\$K)

| Project Number | PROJECT NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|----------------|---------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| 73274009 | Data Consolidation | - | 336 | - | 325 | 271 | 281 | - | - | - | 1,213 |
| 73274001 | IT Disaster Recovery | 208 | 354 | - | 1,393 | 457 | - | - | - | - | 2,412 |
| 60274062s | PeopleSoft System Upgrade & Expansion | 5,662 | - | 1,749 | 2,415 | 765 | - | - | - | - | 8,842 |
| 73274008 | Software Upgrades & Enhancements | - | 1,224 | 234 | 9 | 422 | 405 | 880 | 1,004 | 13,698 | 17,642 |
| 95274003 | WTP-WQL Network Equipment | 473 | 267 | 12 | 180 | 757 | 407 | 166 | - | 6,738 | 8,988 |
| TOTAL | | 6,343 | 2,181 | 1,995 | 4,322 | 2,672 | 1,093 | 1,046 | 1,004 | 20,436 | 39,097 |

 FY 2015-16 Funds to be reappropriated

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

Information Technology – Funding Sources (\$K)

| Fund Number | FUND NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|--------------|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| 61 | Water Utility Enterprise Fund | 473 | 267 | 12 | 180 | 757 | 407 | 166 | - | 6,738 | 8,988 |
| 11 | General Fund | 1,199 | - | - | - | - | - | - | - | - | 1,199 |
| 73 | Information Technology Fund | 4,671 | 1,914 | 1,983 | 4,142 | 1,915 | 686 | 880 | 1,004 | 13,698 | 28,910 |
| TOTAL | | 6,343 | 2,181 | 1,995 | 4,322 | 2,672 | 1,093 | 1,046 | 1,004 | 20,436 | 39,097 |

 FY 2015-16 Funds to be reappropriated

| | |
|-------------------------|---|
| Project | Data Consolidation |
| Program | Information Technology |
| Priority No. | 40 |
| Project No. | 73274009 |
| District Contact | Sudhanshu Tikekar STikekar@valleywater.org |

No Photo is provided for this project.

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to Data Consolidation to accomplish the following objectives:

- ♦ Implement a Enterprise Content Management system with strong Business Intelligence.
- ♦ Move from a applications centric model (current) to a data centric model thereby removing silos of data stores.
- ♦ Information management for big data. Manage data as a strategic, core asset, with ongoing process and management control for big data analytics.
- ♦ High-Performance analytics for big data. Gain rapid insights from big data and the ability to solve increasingly complex business problems.
- ♦ Reduce the overall data footprint. Identify duplicate, and unstructured data and delete it.

PROJECT LOCATION

No Map is provided for this project

SCHEDULE & STATUS

July 2015 to June 2019

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | - | | | | | | | | | | | |
| Design | - | | | | | | | | | | | |
| Construct | 1,162 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 1,162 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|-----------------------------|-----------------|----------------------|------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 73274009-Data Consolidation | 0 | 336 | 325 | 251 | 250 | 0 | 0 | 0 | 1,162 |
| with inflation | 0 | 336 | 325 | 271 | 281 | 0 | 0 | 0 | 1,214 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|-----------------------------|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 73274009-Data Consolidation | 0 | 336 | 0 | 325 | 271 | 281 | 0 | 0 | 0 | 1,214 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-----------------------------------|--------------|
| SCVWD Information Technology Fund | 1,214 |
| Other Funding Sources | 0 |
| Total | 1,214 |

OPERATING COST IMPACTS

Ongoing annual costs will need to be determined and be based on implemented solutions.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | Information Technology Disaster Recovery |
| Program | Information Technology |
| Priority No. | 54 |
| Project No. | 73274001 |
| District Contact | Sudhanshu Tikekar stikekar@valleywater.org |



Existing Data Center that houses critical servers supporting the District's normal operations

PROJECT DESCRIPTION

This project plans and designs improvements to Information Technology to accomplish the following objectives:

- Enable coordinated, rapid recovery from a disaster.
- Reduce the District's business risk exposure.

PROJECT LOCATION

No Map is provided for this project

SCHEDULE & STATUS

July 2014 to June 2017

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | - | | | | | | | | | | | |
| Design | 287 | | | | | | | | | | | |
| Construct | 2,093 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 2,380 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|-------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 73274001-Information Technology Disaster Recovery | 25 | 537 | 1,393 | 427 | 0 | 0 | 0 | 0 | 2,382 |
| with inflation | 25 | 537 | 1,393 | 457 | 0 | 0 | 0 | 0 | 2,412 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 73274001-Information Technology Disaster Recovery | 208 | 354 | 0 | 1,393 | 457 | 0 | 0 | 0 | 0 | 2,412 |

FUNDING SOURCES

(in thousands \$)

| | |
|-----------------------------------|--------------|
| SCVWD Information Technology Fund | 2,412 |
| Other Funding Sources | 0 |
| Total | 2,412 |

OPERATING COST IMPACTS

Ongoing annual costs will need to be determined and be based on implemented solutions.

USEFUL LIFE: Not Available

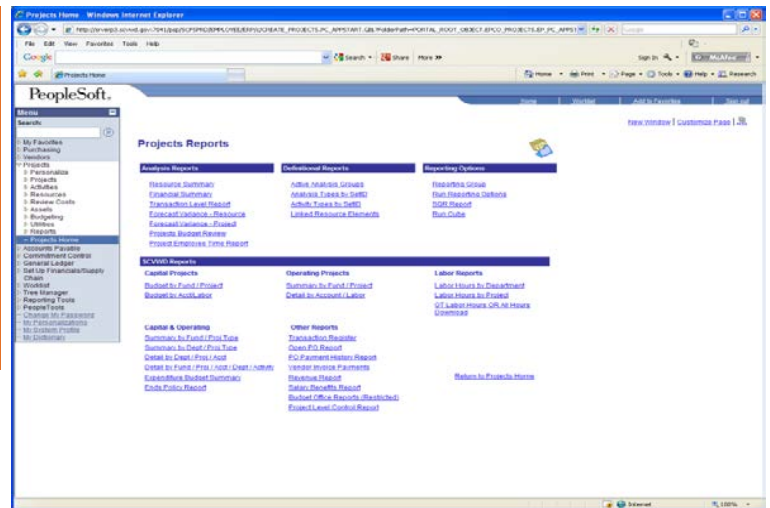
Project PeopleSoft System Upgrade and Expansion

Program Information Technology

Priority No. 70

Project No. 60274062s

District Contact Sudhanshu Tikekar
stikekar@valleywater.org



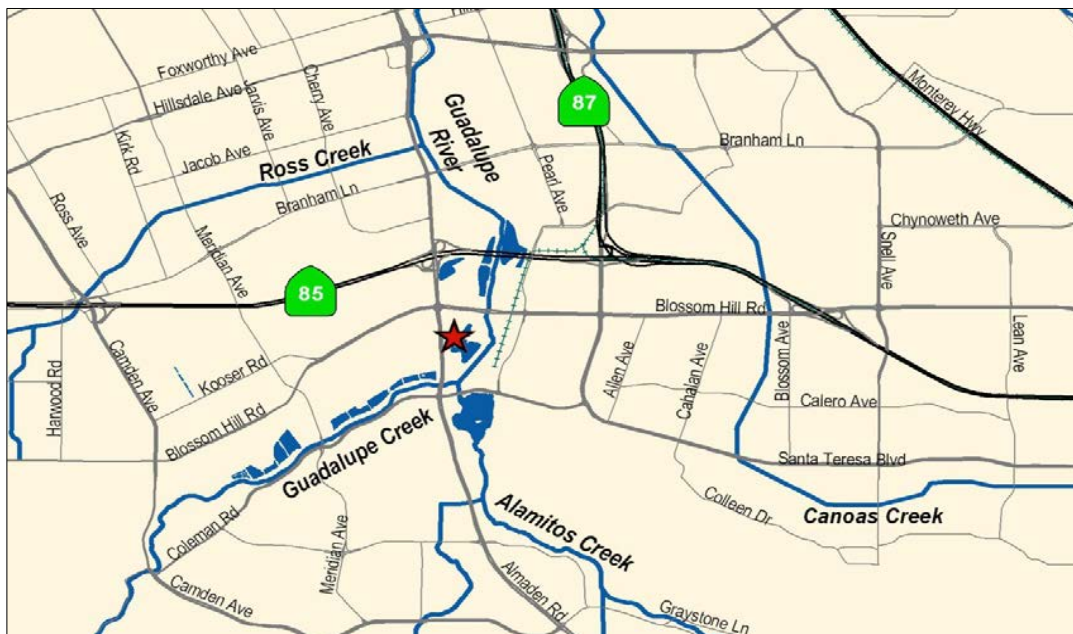
PeopleSoft Reports page from the District's intranet

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to the existing PeopleSoft system in order to accomplish the following objectives:

- Ensure the District has a current and functionally robust enterprise resource planning (ERP) solution, incorporating finance/human resource, timekeeping, planning and budgeting, and procurement functionality.
- Fully automate the District's financial and human resources management functions.
- Automate the tracking and reporting of the District's labor effort and employee leave.
- Automatically apply the District's business rules to employee time records.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2013 to February 2018

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | - | | | | | | | | | | | |
| Design | - | | | | | | | | | | | |
| Construct | 8,606 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 8,606 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|--|-----------------|----------------------|-------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 60274062-PeopleSoft System Upgrade and Expansion | 1,199 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,199 |
| with inflation | 1,199 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,199 |
| 73274002-PeopleSoft System Upgrade and Expansion | 433 | 2,281 | 4,164 | 707 | 0 | 0 | 0 | 0 | 7,585 |
| with inflation | 433 | 2,281 | 4,164 | 765 | 0 | 0 | 0 | 0 | 7,643 |
| TOTAL | 1,632 | 2,281 | 4,164 | 707 | 0 | 0 | 0 | 0 | 8,784 |
| with inflation | 1,632 | 2,281 | 4,164 | 765 | 0 | 0 | 0 | 0 | 8,842 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|--|-------------|-------------|--------------|--------------------------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 60274062-PeopleSoft System Upgrade and Expansion | 1,199 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,199 |
| 73274002-PeopleSoft System Upgrade and Expansion | 4,463 | 0 | 1,749 | 2,415 | 765 | 0 | 0 | 0 | 0 | 7,643 |
| TOTAL | 5,662 | 0 | 1,749 | 2,415 | 765 | 0 | 0 | 0 | 0 | 8,842 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-----------------------------------|--------------|
| SCVWD General Fund | 1,199 |
| SCVWD Information Technology Fund | 7,643 |
| Total | 8,842 |

OPERATING COST IMPACTS

Upon completion of this project, one full-time employee will be needed for expanded technical support for new system modules and features and to continue with operational refinements, enhancements, integrations, report development, etc. on an on-going annual basis. PeopleSoft software maintenance fees are required on an annual recurring basis and projected to increase by three percent each year. The projected annual software maintenance fee for FY 2019 is approximately \$164,324.

USEFUL LIFE: 5 Years

| | |
|-------------------------|---|
| Project | Software Upgrades & Enhancements |
| Program | Information Technology |
| Priority No. | 55 |
| Project No. | 73274008 |
| District Contact | Sudhanshu Tikekar stikekar@valleywater.org |



Existing District Systems to be upgraded and enhanced

PROJECT DESCRIPTION

This project provides upgrade and enhancement services to existing District systems including GIS, Maximo, Oracle Development system, internal and external District websites, and related databases. Previously, software upgrades were budgeted to their individual respective maintenance and support projects. This new project aims to consolidate upgrade activities into a single project for better organization, planning and budgeting purposes (the exception is Peoplesoft which has its own upgrade project).

The objective of this project is to regularly upgrade existing software packages to:

- ♦ Reduce current risks associated with being on a software version that is no longer supported by the vendor and is running on outdated operating systems.
- ♦ Increase the level of service provided by the software with new functionalities.

PROJECT LOCATION

No Map is provided for this project

SCHEDULE & STATUS

July 2015 to June 2031

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | - | | | | | | | | | | | |
| Design | - | | | | | | | | | | | |
| Construct | 12,696 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 12,696 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|---|-----------------|----------------------|------|------|------|------|-------|--------|--------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 73274008-Software Upgrades & Enhancements | 0 | 990 | 243 | 390 | 360 | 752 | 825 | 9,136 | 12,696 |
| with inflation | 0 | 990 | 243 | 422 | 405 | 880 | 1,004 | 13,698 | 17,641 |

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|---|----------------|----------------|-----------------|--------------------------|------|------|------|-------|--------|--------|
| Project | FY15 | FY16 | | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 73274008-Software Upgrades & Enhancements | 0 | 1,224 | 234 | 9 | 422 | 405 | 880 | 1,004 | 13,698 | 17,641 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-----------------------------------|---------------|
| SCVWD Information Technology Fund | 17,641 |
| Other Funding Sources | 0 |
| Total | 17,641 |

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

| | |
|-------------------------|---|
| Project | WTP-WQL Network Equipment |
| Program | Information Technology |
| Priority No. | 54 |
| Project No. | 95274003 |
| District Contact | Sudhanshu Tikekar stikekar@valleywater.org |



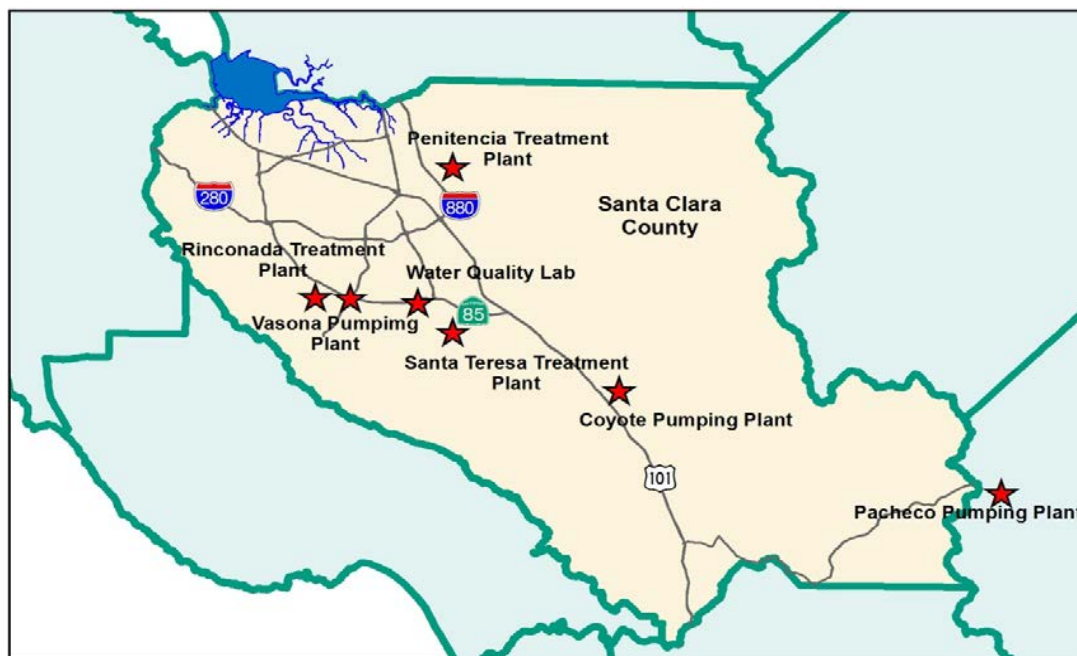
View of network equipment to be modernized at the Water Quality Lab

PROJECT DESCRIPTION

This project plans, designs, and implements upgrades to the existing network to ensure that the District has a current and robust computer network to accomplish the following objectives:

- Deliver greater access speeds.
- Restore vendor maintenance.
- Improve software application performance.
- Provide a path to meet future data communications needs.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2014 to June 2030

| Phase | Cost | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Plan | - | | | | | | | | | | | |
| Design | - | | | | | | | | | | | |
| Construct | 6,852 | | | | | | | | | | | |
| Closeout | - | | | | | | | | | | | |
| | 6,852 | | | | | | | | | | | |

EXPENDITURE SCHEDULE

(in thousands \$)

| | Actuals Thru | Planned Expenditures | | | | | | | Total |
|------------------------------------|-----------------|----------------------|------|------|------|------|------|--------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | |
| 95274003-WTP-WQL Network Equipment | 461 | 267 | 192 | 700 | 362 | 142 | 0 | 4,728 | 6,852 |
| with inflation | 461 | 267 | 192 | 757 | 407 | 166 | 0 | 6,737 | 8,987 |

FUNDING SCHEDULE

(in thousands \$)

| | Budget Thru | Adj. Budget | Est. Unspent | Planned Funding Requests | | | | | | Total |
|------------------------------------|----------------|----------------|-----------------|--------------------------|------|------|------|--------|-------|-------|
| Project | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | Future | | |
| 95274003-WTP-WQL Network Equipment | 473 | 267 | 12 | 180 | 757 | 407 | 166 | 0 | 6,737 | 8,987 |

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

| | |
|-------------------------------------|--------------|
| SCVWD Water Utility Enterprise Fund | 8,987 |
| Other Funding Sources | 0 |
| Total | 8,987 |

OPERATING COST IMPACTS

Upon completion of this project operating costs are anticipated to increase by \$37,000 beginning in FY2031 with an increase of 3% each year after that to pay for hardware maintenance agreements.

USEFUL LIFE: 10 Years

Financial Planning and Summary

CIP FINANCIAL PLANNING

Board policy regarding financial planning and budgeting provides the foundation for CIP financial planning. The policy states:

Executive Limitation EL-4, “Financial planning for any fiscal year shall be aligned with the Board’s Ends, not risk fiscal jeopardy, and be derived from a multi-year plan.”

Executive Limitation EL-4.3, “A BAO shall include credible projection of revenues and expenses, separation of capital and operational items, cash flow, and disclosure of planning assumptions.”

Executive Limitation EL-4.4, “A BAO shall plan the expenditure in any budget period within the funds that are conservatively projected to be received or appropriated from reserves in that period.”

KEY REVENUES SOURCES

Water Charges

- Water charges include a ground water production charge, which is equivalent to the basic user charge, and is associated with the benefit of managing groundwater supplies. The groundwater charge is applied to water extracted from the groundwater basin in Zones W-2 and W-5. The basic user charge is applied to other types of water delivered by the District. There are two rates: one for agricultural water and one for municipal and industrial water.
- A treated water surcharge, which is associated with the benefit of receiving treated water, is levied in addition to the basic user charge on water delivered from the District’s water treatment plants.

Property Tax

Santa Clara County allocates property tax revenue to the District from ad valorem taxes levied on land within the county.

Special Parcel Tax

A special parcel tax, with a 2016 sunset, was approved by the voters in Santa Clara County in November 2000. This revenue source was restricted to financing the costs of the District’s Clean, Safe Creeks and Natural Flood Protection Program. In November 2012 the special parcel tax was continued by voter approval to 2028. This revenue can be used for both the continuing Clean, Safe Creeks and new Safe, Clean Water programs.

Benefit Assessments

Benefit assessment revenue consists of levies approved by voters in 1986 and 1990 to support financing for flood control capital improvements. The current FY 2015-16 budget amount is approximately 1.25 times the duly authorized annual debt service requirements for each Watershed.

Capital Reimbursements

Capital reimbursement revenues are from local, state and federal partners for capital projects carried on cooperatively by the District and its partners. The District fronts the partners’ shares of capital expenditures and receives reimbursements from the partners at a later time.

Interest

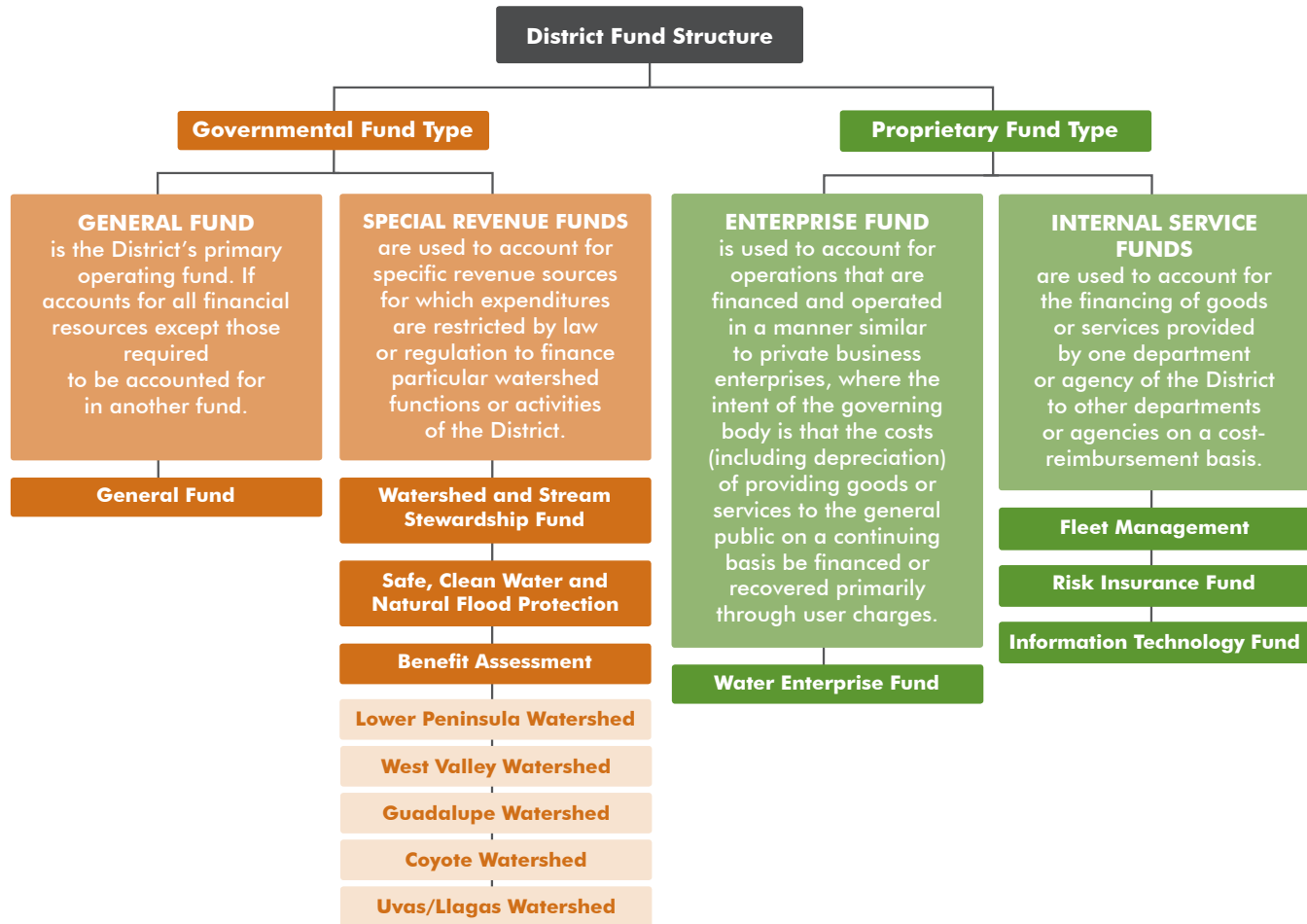
Interest is earned from the District’s investment portfolio.

Financial Planning and Summary

District Fund Structure

The District's revenue sources are organized into eight funds. Each fund has specific revenue sources according to their intended purposes, and each fund

is an independent accounting entity with a self-balancing set of accounts comprised of its assets, liabilities, fund equity, revenue, and expenditures or expenses, as appropriate.



Revenue by Fund (\$K)

| FUND NAME | FY16 Budget | FY17 | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25 | FY26 |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Water Utility Enterprise | 205,319 | 237,761 | 276,553 | 319,272 | 381,526 | 438,264 | 474,441 | 515,022 | 536,897 | 559,504 | 585,594 |
| Watershed Stream Stewardship | 79,823 | 96,930 | 88,350 | 76,748 | 78,154 | 80,977 | 83,961 | 86,993 | 90,097 | 93,362 | 97,197 |
| Safe, Clean Water and Natural Flood Protection | 49,063 | 62,410 | 60,661 | 77,225 | 54,876 | 50,650 | 50,378 | 52,242 | 54,285 | 56,585 | 58,826 |
| Benefit Assessment | 14,778 | 14,785 | 14,778 | 14,778 | 13,447 | 13,458 | 13,457 | 13,448 | 13,443 | 6,850 | 6,855 |
| General | 6,405 | 6,596 | 6,828 | 7,067 | 7,316 | 7,572 | 7,838 | 8,114 | 8,399 | 8,694 | 8,999 |
| Internal Service | 155 | 230 | 227 | 236 | 246 | 256 | 264 | 276 | 289 | 299 | 309 |
| TOTAL | 355,542 | 418,712 | 447,395 | 495,326 | 535,565 | 591,177 | 630,341 | 676,094 | 703,410 | 725,295 | 757,781 |

Note: Internal Service Funds (ISF) is the combination of the Fleet Management, IT Capital, and Risk Funds

Financial Planning and Summary

Revenue Projections

The District regularly updates the projected revenues based on the best information available.

- Revenues from water charges are estimated based on projections of water demand for residential, commercial and industrial, and agricultural consumption combined with rates per acre-foot. Rates are set at a level that will provide revenue needed to meet operating and capital needs.
- Revenues from property taxes, special parcel taxes, and benefit assessments are estimated based on projection of growth in assessed value and number of developed parcels in Santa Clara County.
- Interest earnings are estimated based on the projected average cash balances during the fiscal year and expected yield from the District's investment portfolio.
- Revenue from capital reimbursements partnerships are estimated based on the terms of agreements executed by the District and its partners.

Expenditure Projections

The District regularly updates the operation and capital expenditures based on the best information available.

Each capital project cost estimate includes the yearly expenditures through completion based on the project's scope and schedule. The expenditures are monitored regularly and updated when necessary, e.g. expenditures are updated when a project's scope changes. A management review process is enforced to ensure only justified expenditure changes are approved.

Operation cost projections for the next 15 years are updated annually and are based on assumptions derived from the District's strategic plans, including the impact of completed capital projects. Capital and operations expenditure projections are the foundation for the development of the District's budget.

Financial Analysis

The District regularly performs financial analysis to comply with the Board's Financial Planning/Budgeting Policy. The District uses sophisticated financial models

to perform the analysis for each fund. The projected operation expenditures, capital expenditures, and revenues for the next ten years are incorporated into the financial models to analyze the health of each fund under various economic scenarios. This process assures that funds will be available when needed to implement the CIP.

The financial analysis generates alternatives for funding capital projects based on the available yearly revenues, from all sources, allocated to the capital program, and the debt financing capacity of each fund. The financial analysis establishes the parameters within which the capital project schedule is developed.

Debt Projections and Debt Ratios

Debt is managed at the District depending on the type of District business involved. The SCW program approved by the voters in 2012 includes the authority to issue debt against future revenue in order to accelerate completion of projects sooner. Debt service on outstanding benefit assessment debt is funded by benefit assessments levied on property owners in the county.

The water utility business, on the other hand, uses a combination of short-term and long-term debt financing in conjunction with pay-as-you-go financing to lessen impacts to the water rate caused by fluctuations in capital funding needs. In the 1984 general election, Measure B was passed by the voters, which gave the District's water utility the authority to issue bonds on an "as required" basis. Debt service on outstanding debt is paid from water revenues. Bond covenants stipulate that the District must maintain a 1.25 debt coverage ratio on all parity bonds. The long-term financial analysis targets a debt coverage ratio of 2.0, which helps establish the parameters for capital planning that ensure bond covenants will be met.

The District currently enjoys credit ratings that are among the highest for a water-related governmental entity in the state of California, which helps keep interest costs borne by the District at a minimum.

Financial Planning and Summary

Relationship between the Operating Budget and CIP

Whenever the District commits to capital improvements, there is a potential for associated long-range commitment of operating funds. For example, if 20-year bonds are issued to finance capital needs, then the operating funds will need to budget debt service payments for the next two decades. For this reason, it is important to evaluate capital commitments in the context of their long-range operating impact.

In addition to the long-range debt service payments, some capital projects affect future operating budgets

either positively or negatively due to an increase or decrease in maintenance and operation costs. Such impacts vary widely from project to project and, are evaluated individually during the project development stage. The District is committing to a potential change in the operating budget when a capital project is approved.

The projected debt service payments and the positive or negative operating budget impacts are important factors considered in the District's financial analysis.

This chart identifies the operating budget impacts to each fund from projected debt service payments. The debt service payment in the Watershed Stream Stewardship Fund is a total of payments associated with each individual watershed.

Debt Payment Schedule (\$K)

| Fund | FY17 | FY18 | FY19 | FY20 | FY21 |
|---|---------------|---------------|---------------|----------------|----------------|
| General Fund | 538 | 538 | 538 | 539 | 539 |
| Benefit Assessment Fund | 12,168 | 12,162 | 12,162 | 11,085 | 11,094 |
| Safe, Clean Water and Natural Flood Protection Fund | 212 | 7,539 | 7,539 | 7,539 | 7,539 |
| Water Utility Enterprise Fund | 27,309 | 42,597 | 65,164 | 90,115 | 110,424 |
| Information Technology Fund | - | - | - | - | - |
| TOTAL | 40,227 | 62,835 | 85,403 | 109,278 | 129,595 |

This chart identifies the net operating budget impacts to each fund resulting from annual maintenance and/or operating cost for newly completed capital projects. Additional information regarding operating impacts related to individual projects can be found on the project pages.

Estimated Operating Impacts (\$K)

| Fund | FY17 | FY18 | FY19 | FY20 | FY21 | BEYOND |
|---|-----------|--------------|--------------|--------------|--------------|--------------|
| General Fund | - | - | - | - | - | - |
| Watershed Stream Stewardship Fund | 65 | 65 | 100 | 4,100 | 100 | 100 |
| Safe, Clean Water and Natural Flood Protection Fund | - | - | - | 50 | 150 | 730 |
| Water Utility Enterprise Fund | - | 2,550 | 2,575 | 2,583 | 2,653 | 4,168 |
| Information Technology Fund | - | - | 164 | 169 | 174 | 179 |
| TOTAL | 65 | 2,615 | 2,839 | 6,902 | 3,077 | 5,177 |

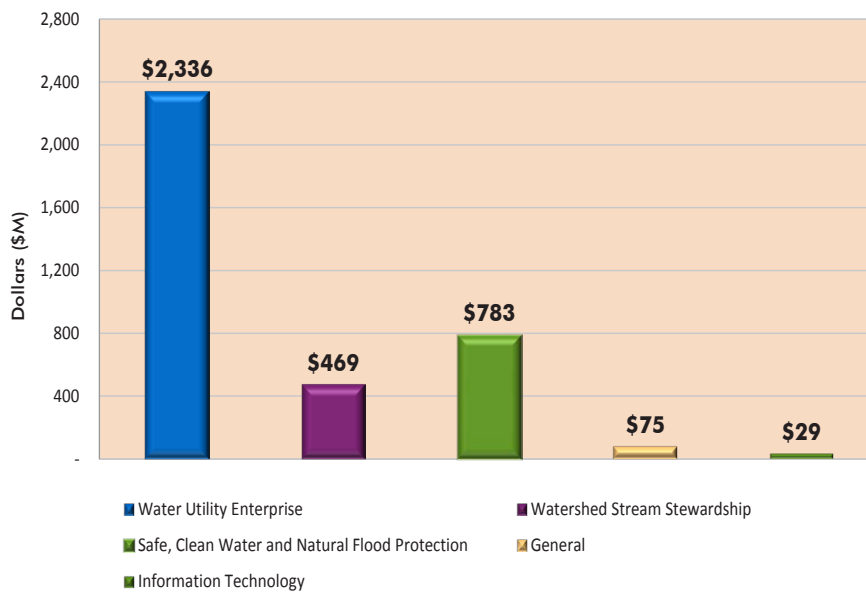
Financial Planning and Summary

CIP FUNDING SUMMARY

Of the \$3.692 billion in total District funding for current and future projects, the Board appropriated \$1.180 billion in prior years through June 30, 2016 (the end of Fiscal Year 2015-16). This year's CIP process identified

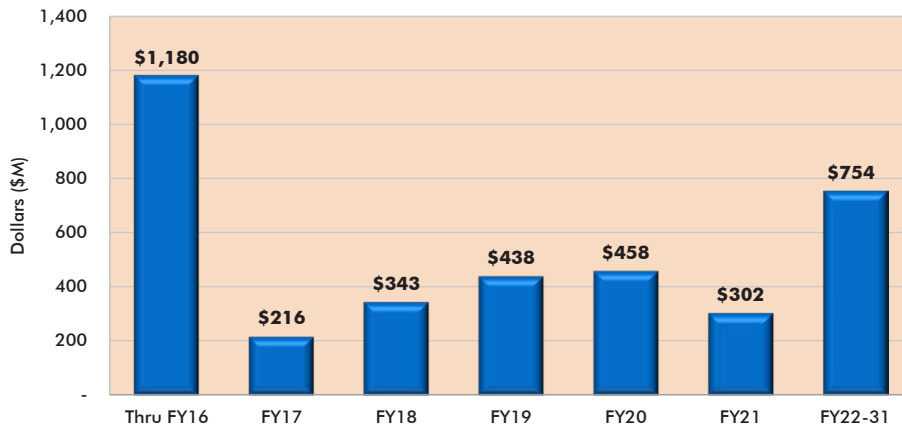
additional funding needs of \$2.512 billion to complete the projects in the CIP, with \$216 million allocated in Fiscal Year 2016-17 and a total of \$2.296 billion proposed for future years.

CIP Total Funding by Fund



The needed \$3.692 billion to implement the 65 projects as defined in the CIP are funded by four of the District's seven Funds.

CIP Funding Schedule



The following chart shows the funding schedule for the \$3.692 billion to implement the 65 projects.

Financial Planning and Summary

CIP Project Funding Schedule for Water Utility Enterprise Fund (\$K)

| PROJECT NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|--|-----------------|--------|-----------------|--------|--------|---------|---------|---------|---------|---------|
| Almaden Dam Improvements | 7,360 | 2,712 | - | 2,482 | 17,716 | 10,917 | 9,799 | 5,532 | - | 56,518 |
| Anderson Dam Seismic Retrofit (C1) | 30,230 | 1,006 | 1,804 | - | 54,430 | 66,699 | 48,593 | - | - | 200,958 |
| Calero and Guadalupe Dams Seismic Retrofits | 9,567 | 7,966 | 2,182 | 9,267 | 15,889 | 57,150 | 27,036 | 22,818 | 6,040 | 155,733 |
| Coyote Pumping Plant ASD Replacement | - | - | - | - | - | 562 | 1,954 | 9,586 | 5,029 | 17,131 |
| Coyote Pumping Plant Warehouse | 416 | 2,597 | 2,106 | 121 | - | - | - | - | - | 3,134 |
| Dam Seismic Stability Evaluation | 18,812 | - | 1,821 | - | - | - | 485 | 487 | - | 19,784 |
| Small Capital Improvements, San Felipe Reach 1-3 | n/a | 1,628 | - | 3,608 | 706 | 1,226 | - | 756 | 25,998 | 33,922 |
| 5-Year Pipeline Rehabilitation | 14,362 | 9,481 | 885 | 9,208 | - | - | - | - | - | 33,051 |
| 10-Year Pipeline Rehabilitation (FY18-FY27) | - | - | - | - | 16,444 | 20,762 | 11,818 | 4,637 | 46,483 | 100,144 |
| FAHCE Implementation | - | - | - | - | 4,739 | 4,379 | 14,691 | 14,690 | 106,609 | 145,108 |
| Pacheco/Santa Clara Conduit Right of Way Acquisition | 1,142 | 8 | - | 1,470 | 328 | 106 | - | - | - | 3,054 |
| Penitencia Delivery Main/Force Main Seismic Retrofit | 4,067 | 17,773 | 3,439 | 9,172 | 103 | - | - | - | - | 31,115 |
| SCADA Remote Architecture & Communications Upgrade | 370 | 32 | - | 374 | 389 | 619 | 819 | 852 | 3,477 | 6,932 |
| Small Capital Improvements, Raw Water Transmission | n/a | 38 | - | - | 115 | - | 53 | - | 3,438 | 3,644 |
| Small Capital Improvements, Treated Water Transmission | n/a | - | - | - | 61 | 84 | - | - | - | 145 |
| Vasona Pumping Plant Upgrade | - | - | - | 119 | 1,321 | 1,789 | 17,673 | 85 | - | 20,987 |
| Fluoridation at WTPs | 1,148 | 5,338 | 3 | 3,009 | - | - | - | - | - | 9,495 |
| IRP2 WTP Ops Bldgs Seismic Retrofit | 19,686 | 1,306 | 684 | 798 | 76 | - | - | - | - | 21,866 |
| PWTP Clearwell Recoating & Repair | 4,516 | 1,403 | 2,593 | 550 | 119 | - | - | - | - | 6,588 |
| PWTP Residuals Management | - | - | - | - | 703 | 1,462 | 7,835 | - | - | 10,000 |
| RWTP FRP Residuals Management Modifications | 26,022 | 286 | - | 118 | - | - | - | - | - | 26,426 |
| RWTP Reliability Improvement | 26,507 | 45,009 | - | 44,712 | 44,496 | 44,811 | 46,345 | 146 | - | 252,026 |
| RWTP Treated Water Valves Upgrade | 8,075 | 296 | 18 | 55 | - | - | - | - | - | 8,426 |
| Small Capital Improvements, Water Treatment | n/a | 3,509 | - | 2,831 | 782 | 5,465 | 3,562 | 3,492 | 41,770 | 61,411 |
| PureWater Silicon Valley (PWSV) | 2,000 | 18,499 | 1,030 | 9,669 | 28,629 | 129,802 | 208,623 | 191,600 | 355,904 | 944,726 |
| Silicon Valley Advanced Water Purification Center | 75,928 | 838 | 86 | 49 | - | - | - | - | - | 76,815 |
| South County Recycled Water Pipeline | 17,195 | 10,589 | 10,326 | 15,772 | 183 | 79 | 361 | - | - | 44,179 |
| Wolfe Road Recycled Water Pipeline | 10,608 | 6,563 | 470 | 657 | - | - | - | - | - | 17,828 |

FY 2015-16 Funds to be reappropriated

Financial Planning and Summary

CIP Project Funding Schedule for Water Utility Enterprise Fund (\$K) (cont'd)

| PROJECT NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|--|-----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| FAHCE Stevens Creek Fish Passage Enhancement - 90% | 765 | - | - | - | 1,355 | 2,903 | - | - | - | 5,024 |
| SCW Implementation Fund | - | - | - | - | 724 | 749 | 775 | 802 | 7,886 | 10,936 |
| WTP-WQL Network Equipment | 473 | 267 | 12 | 180 | 757 | 407 | 166 | - | 6,738 | 8,988 |
| TOTAL | 279,249 | 137,144 | 27,459 | 114,221 | 190,065 | 349,971 | 400,588 | 255,483 | 609,372 | 2,336,093 |

 FY 2015-16 Funds to be reappropriated

Financial Planning and Summary

Project Funding Schedule for Watershed and Stream Stewardship Fund (\$K)

| PROJECT NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|--|-----------------|---------------|-----------------|---------------|---------------|---------------|--------------|---------------|---------------|----------------|
| Palo Alto Flood Basin Tide Gate Structure Improvements | 816 | 384 | 858 | - | 4,340 | 6 | - | - | - | 5,546 |
| Permanente Creek, SF Bay to Foothill Expressway | 17,541 | - | 178 | - | - | - | - | - | - | 17,541 |
| San Francisquito Creek, SF Bay thru Searsville Dam | 4,064 | - | - | - | - | - | - | - | - | 4,064 |
| San Francisquito Creek, Early Implementation | 1,614 | - | - | - | - | - | - | - | - | 1,614 |
| San Tomas Creek, Quito Road Bridge Replacement | 292 | 271 | - | - | 129 | - | - | - | - | 692 |
| Canoas Creek, Rodent Damage Repair | 300 | 5,320 | - | 388 | 446 | - | - | - | - | 6,454 |
| Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd | 55,191 | 31,530 | 26,474 | 27,176 | 1,268 | 251 | 309 | 161 | - | 115,886 |
| Cunningham Flood Detention Certification | 4,458 | - | 1,183 | 3,829 | 2,216 | 675 | 129 | - | - | 11,307 |
| Lower Penitencia Ck Improvements, Berryessa to Coyote Cks. | 4,807 | 1,993 | - | 2,891 | 14,503 | 6,829 | 351 | 365 | 400 | 32,139 |
| Lower Silver Creek, I-680 to Cunningham (Reach 4-6) | 95,304 | 1,484 | 3,440 | 710 | 276 | 56 | 11 | - | - | 97,841 |
| Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps | 8,970 | - | 13 | - | - | - | - | - | - | 8,970 |
| Upper Penitencia Ck, Coyote Ck-Dorel Dr, LERRDs | 8,544 | - | 2,160 | - | - | - | - | - | - | 8,544 |
| Llagas Creek-Lower, Capacity Restoration, Buena Vista Road to Pajaro River | 7,046 | - | 3,749 | - | 2,335 | 2,410 | - | - | - | 11,791 |
| Llagas Creek-Upper, R5,6,&7b | - | - | - | - | - | 17,000 | 6,000 | - | - | 23,000 |
| Erosion Repair Program (ERP) | - | - | - | 4,251 | 4,000 | - | 2,000 | 11,000 | 49,000 | 70,251 |
| San Francisco Bay Shoreline | 12,525 | 1,542 | 1,500 | - | - | - | - | - | - | 14,067 |
| San Francisco Bay Shoreline - Contribution | 490 | - | - | - | - | - | - | - | - | 490 |
| Shoreline Early Implementation | 359 | - | - | - | - | - | - | - | - | 359 |
| Small Capital Improvements - Regnart Creek | 528 | 2,200 | 323 | 787 | - | - | - | - | - | 3,515 |
| FAHCE Stevens Creek Fish Passage Enhancement - 10% | 85 | - | - | - | 151 | 323 | - | - | - | 558 |
| Salt Ponds A5-11 Restoration | - | 1,565 | - | 1,715 | 784 | 1,898 | - | - | - | 5,962 |
| SMP Mitigation, Stream and Watershed Land Preservation | 14,204 | 1,510 | - | 510 | 860 | - | - | - | - | 17,084 |
| SCW Implementation Fund | - | - | - | - | 724 | 749 | 775 | 802 | 7,886 | 10,936 |
| TOTAL | 237,138 | 47,799 | 39,878 | 42,257 | 32,032 | 30,197 | 9,575 | 12,328 | 57,286 | 468,611 |

FY 2015-16 Funds to be reappropriated

Financial Planning and Summary

Project Funding Schedule for Safe, Clean Water and Natural Flood Protection Fund (\$K)

| PROJECT NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|---|-----------------|---------------|-----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|
| IRP2 Additional Line Valves (A3) | - | - | - | - | - | - | - | - | 13,918 | 13,918 |
| Main & Madrone Pipelines Restoration (A1) | 630 | 1,178 | - | 520 | 13,488 | 281 | - | - | - | 16,097 |
| Permanente Creek, SF Bay to Foothill Expressway | 45,028 | - | 289 | 11,722 | 6,564 | 112 | - | - | - | 63,426 |
| San Francisquito Creek, SF Bay thru Searsville Dam (E5) | 6,684 | 98 | 635 | - | - | - | - | - | - | 6,782 |
| San Francisquito Creek - Construction, SF Bay to Middlefield Road (E5) | 25,634 | 7,348 | - | 536 | 13,770 | - | - | - | - | 47,288 |
| Sunnyvale East and West Channels | 37,878 | 8,299 | 31,960 | - | 23,217 | 56 | - | - | - | 69,450 |
| Guadalupe River-Upper, I-280 to Blossom Hill Road (E8) | 112,579 | 302 | 11,776 | 8,615 | 25,613 | 10,115 | 12,024 | 8,522 | 6,764 | 184,534 |
| Berryessa Creek, Calaveras Boulevard to Interstate 680 | 28,839 | 4,003 | - | 14,747 | 1,500 | 940 | 825 | - | - | 50,854 |
| Coyote Creek, Montague Expressway to Interstate 280 | 30,486 | - | 17,643 | - | - | - | 831 | 821 | 747 | 32,885 |
| Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps (E4) | - | 385 | - | - | 5,023 | 6,134 | 6,379 | 16,175 | 17,142 | 51,238 |
| Llagas Creek-Upper, Reimbursable (E6b) | 41,670 | 962 | 24,701 | - | - | - | - | - | - | 42,632 |
| Llagas Creek-Upper, Corps Coordination (E6a) | 18,509 | 50,384 | 66,775 | - | 5,860 | 8,000 | 125 | - | - | 82,878 |
| Llagas Creek-Upper, Technical Studies | 1,446 | - | - | - | - | - | - | - | - | 1,446 |
| Llagas Creek-Upper, Design | 18,855 | 1,688 | - | 1,071 | - | - | - | - | - | 21,614 |
| San Francisco Bay Shoreline - EIA 11 Design & Partial Construction (E7) | 6,239 | 309 | 100 | 6,246 | 4,447 | 4,384 | 4,520 | - | - | 26,145 |
| San Francisco Bay Shoreline - Other EIAs Planning (E7) | 1,639 | 1,695 | 618 | 422 | 3,028 | 3,150 | 3,276 | - | - | 13,210 |
| Almaden Lake Improvements (D4.1a) | 1,960 | 940 | 235 | 1,044 | - | - | - | - | - | 3,944 |
| Hale Creek Enhancement Pilot Study (D6) | - | 462 | - | 482 | 1,627 | - | - | - | - | 2,571 |
| SCW Fish Passage Improvements (D4.3; Bolsa Road) | - | 1,571 | - | 2,203 | 1,472 | 1,410 | - | - | - | 6,656 |
| South Bay Salt Ponds Restoration (D8) | 517 | 18 | 326 | - | 1,712 | 1,863 | - | - | - | 4,110 |
| SCW Implementation Fund, Comer Debris Basin (D6.2) | - | - | - | - | 290 | 1,184 | 218 | - | - | 1,692 |
| SCW Implementation Fund, Creek Bank Stability (D6.1) | - | - | - | - | 4,277 | 4,540 | 6,210 | - | - | 15,027 |
| SCW Implementation Fund, Ogier Ponds Separation from Coyote Creek (D4.1b) | - | - | - | - | 2,518 | 8,560 | 2,307 | - | - | 13,385 |
| SCW Implementation Fund, Regionally Significant Habitat Land Acquisition (D7) | - | - | - | - | 724 | 749 | 775 | 802 | 7,886 | 10,936 |
| TOTAL | 378,593 | 79,642 | 155,058 | 47,608 | 115,130 | 51,478 | 37,490 | 26,320 | 46,457 | 782,718 |

FY 2015-16 Funds to be reappropriated

Financial Planning and Summary

Project Funding Schedule for General Fund (\$K)

| PROJECT NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|---|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| Almaden and Winfield Campus, Small Capital Improvements | n/a | 1,880 | - | 2,062 | 2,126 | 2,192 | 2,260 | 2,324 | 27,526 | 40,370 |
| Headquarters Operations Building | 219 | 957 | 1,060 | - | 987 | 3,825 | 6,949 | 4,867 | - | 17,804 |
| Winfield Capital Improvements | 1,685 | 7,618 | 7,474 | 5,927 | 622 | - | - | - | - | 15,852 |
| PeopleSoft System Upgrade & Expansion | 1,199 | - | - | - | - | - | - | - | - | 1,199 |
| TOTAL | 3,103 | 10,455 | 8,534 | 7,989 | 3,735 | 6,017 | 9,209 | 7,191 | 27,526 | 75,225 |

FY 2015-16 Funds to be reappropriated

Project Funding Schedule for Information Technology Fund (\$K)

| PROJECT NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|---------------------------------------|--------------|--------------|--------------|--------------|--------------|------------|------------|--------------|---------------|---------------|
| Data Consolidation | - | 336 | - | 325 | 271 | 281 | - | - | - | 1,213 |
| IT Disaster Recovery | 208 | 354 | - | 1,393 | 457 | - | - | - | - | 2,412 |
| PeopleSoft System Upgrade & Expansion | 4,463 | - | 1,749 | 2,415 | 765 | - | - | - | - | 7,643 |
| Software Upgrades & Enhancements | - | 1,224 | 234 | 9 | 422 | 405 | 880 | 1,004 | 13,698 | 17,642 |
| TOTAL | 4,671 | 1,914 | 1,983 | 4,142 | 1,915 | 686 | 880 | 1,004 | 13,698 | 28,910 |

FY 2015-16 Funds to be reappropriated

CIP Funding Schedule Summary for All Funds (\$K)

| FUND NAME | Through FY15 | FY16 | FY16 Unspent | FY17 | FY18 | FY19 | FY20 | FY21 | FY22-31 | TOTAL |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| Water Utility Enterprise | 279,249 | 137,144 | 27,459 | 114,221 | 190,065 | 349,971 | 400,588 | 255,483 | 609,372 | 2,336,093 |
| Watershed Stream Stewardship | 237,138 | 47,799 | 39,878 | 42,257 | 32,032 | 30,197 | 9,575 | 12,328 | 57,286 | 468,611 |
| Safe, Clean Water and Natural Flood Protection | 378,593 | 79,642 | 155,058 | 47,608 | 115,130 | 51,478 | 37,490 | 26,320 | 46,457 | 782,718 |
| General | 3,103 | 10,455 | 8,534 | 7,989 | 3,735 | 6,017 | 9,209 | 7,191 | 27,526 | 75,225 |
| Information Technology | 4,671 | 1,914 | 1,983 | 4,142 | 1,915 | 686 | 880 | 1,004 | 13,698 | 28,910 |
| TOTAL | 902,754 | 276,954 | 232,912 | 216,217 | 342,877 | 438,349 | 457,742 | 302,325 | 754,339 | 3,691,557 |

FY 2015-16 Funds to be reappropriated

Appendix A - CIP Priority Criteria

WATER SUPPLY CAPITAL PROJECTS Priority Ranking Criteria

NORMALIZED PRIORITY SCORE = 0

RAW SCORE = 0

Project Name Here

| | | | |
|---|--|---|---|
| PRIMARY OBJECTIVE (75%) | Water Supply (E 2) | | 0 |
| | A | <input type="checkbox"/> I <input type="checkbox"/> P Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements. I = Impact (H, M, L); P = Probability (H, M, L) | |
| | B | <input type="checkbox"/> Project increases water supply portfolio, increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or adding redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L) | |
| | C | <input type="checkbox"/> Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.)) | |
| COMMUNITY ENGAGEMENT (7.5%) | Social Factor - Check if applicable | | 0 |
| | <input type="checkbox"/> Promotes Emergency Recovery Positive Interaction (E 4) - Check all that apply <input type="checkbox"/> With the Community <input type="checkbox"/> With other agencies | | |
| ENVIRONMENTAL SUSTAINABILITY (7.5%) | Water Quality (E 3.2) - Check if applicable | | 0 |
| | <input type="checkbox"/> Promotes drinking water quality Natural Resources Sustainability (E 3.2) - Check all that apply <input type="checkbox"/> Promotes water use efficiency <input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features <input type="checkbox"/> Promotes stream management | | |
| | Lifecycle costs are minimized - Check One <input type="checkbox"/> Annual cost savings of more than \$500,000 <input type="checkbox"/> Annual cost savings of \$200,000 to \$500,000 <input type="checkbox"/> Annual cost savings of less than \$200,000 (reference 1/2 PY) Funding Available from Other Agencies - Check One <input type="checkbox"/> Over 50% of project costs available from other agencies <input type="checkbox"/> 26% to 50% of project costs available from other agencies <input type="checkbox"/> Up to 25% of project costs available from other agencies | | 0 |
| COST RECOVERY (10%) | | | |

Appendix A - CIP Priority Criteria

FLOOD PROTECTION PROJECTS Priority Ranking Criteria

PRIORITY SCORE = 0
RAW SCORE = 0

Project Name Here

| | | | |
|---------------------------------------|--|--|---|
| PRIMARY OBJECTIVE (60%) | Flood Protection (E 3) | | 0 |
| | <input type="checkbox"/> I <input type="checkbox"/> P Project restores existing watershed infrastructure to its intended level of flood protection. I = Impact (H, M, L); P = Probability (H, M, L) | | |
| | <input type="checkbox"/> Project is a Board or USACE priority, improves watershed infrastructure to achieve the committed level of flood protection, or provides flood protection beyond the level of commitment. (H, M, L) | | |
| | <input type="checkbox"/> Timing of when the flood protection benefit will be realized by the community. I = Immediate (0-3 years); S = Short-term (3-5 years); L - Long-term (more than 5 years) | | |
| COMMUNITY ENGAGEMENT (10%) | Positive Interaction (E 4) - Check all that apply | | 0 |
| | <input type="checkbox"/> With the Community | <input type="checkbox"/> With other agencies | |
| | Good Neighbor (E 4) - Check all that apply | | |
| | <input type="checkbox"/> Graffiti removal or Prevention Features <input type="checkbox"/> Trash removal features (vortex weirs) <input type="checkbox"/> Improves aesthetics of project location | | |
| ENVIRONMENTAL SUSTAINABILITY (15%) | Ecological Function (E 3.1, 4.1) | | 0 |
| | <input type="checkbox"/> Project incorporates at least one of the following: removal of fish barrier; structural improvements to fish habitat; inclusion of riparian habitat (planting, setback or protect in place); inclusion of SRA plantings and/or features designed to improve water temperature; improvements to facilitate habitat connectivity, upland habitat and/or wetland habitat protection or preservation; or reduction of hardscape elements. | | |
| | Physical Function (E 3.2) | | |
| | <input type="checkbox"/> Project incorporates at least one of the following: a holistic watershed approach; geomorphic design elements; erosion control (sediment source reduction); floodplain connectivity; or protection from sea level rise. | | |
| | Water Quality and Supply (E 3.2) | | |
| | <input type="checkbox"/> Project incorporates TMDL improvements or provides opportunity for recharge | | |
| | Trails & Open Space (E4.2, E4.3) - Check all that apply | | |
| | <input type="checkbox"/> Project incorporates trail friendly features, provides protection or preservation of open space, or provides/improves Bicycle Commute Route | | |
| COST RECOVERY (15%) | Funding Available from Other Agencies - Check One | | 0 |
| | <input type="checkbox"/> % <input type="checkbox"/> C 50% or more of project costs available from other agencies % = Percentage of cost provided; C = Confidence Level (H, M, L) | | |
| | <input type="checkbox"/> % <input type="checkbox"/> C 26% to 49% of project costs available from other agencies % = Percentage of cost provided; C = Confidence Level (H, M, L) | | |
| | <input type="checkbox"/> % <input type="checkbox"/> C Up to 25% of project costs available from other agencies % = Percentage of cost provided; C = Confidence Level (H, M, L) | | |

Appendix A - CIP Priority Criteria

WATER RESOURCES STEWARDSHIP PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

RAW SCORE = 0

Project Name

| | | | |
|--|--|--|---|
| PRIMARY OBJECTIVE (55%) | Stewardship Projects | | 0 |
| | <p>A <input type="checkbox"/> <input type="checkbox"/> Project restores a previously constructed environmental enhancement so that it can continue to provide the benefits for which it was created or project meets a permit condition/requirement. I = Impact (H, M, L); P = Probability (H, M, L)</p> <p>B <input type="checkbox"/> Project creates Stewardship features to achieve stewardship commitments. (H, M, L)</p> <p>C <input type="checkbox"/> Stewardship activities beyond the current commitment. (H, M, L)</p> | | |
| | Positive Interaction (E 4) - Check all that apply | | 0 |
| | <p><input type="checkbox"/> With the Community <input type="checkbox"/> With other agencies</p> <p>Good Neighbor (E 4) - Check all that apply</p> <p><input type="checkbox"/> Graffiti removal or Prevention Features <input type="checkbox"/> Promotes water conservation</p> <p><input type="checkbox"/> Trash removal features (vortex weirs) <input type="checkbox"/> Promotes stream stewardship</p> <p><input type="checkbox"/> Improves aesthetics of project location <input type="checkbox"/> Promotes flood protection</p> <p><input type="checkbox"/> <input type="checkbox"/> Promotes Bay protection</p> | | |
| ENVIRONMENTAL SUSTAINABILITY (15%) | Ecological Function (E 3.2) - Check all that apply | | 0 |
| | <p><input type="checkbox"/> Fish Barrier Removal / Structural or nonstructural improvement to fish habitat <input type="checkbox"/> Upland Habitat Protection/Preservation</p> <p><input type="checkbox"/> Riparian Habitat (planting, setback or protect in place) <input type="checkbox"/> Wetland Habitat Protection/Preservation</p> <p><input type="checkbox"/> SRA Plantings or Improved water temperature <input type="checkbox"/> Hardscape Reduction</p> | | |
| | Physical Stream Function (E 3.2) - Check all that apply | | |
| | <p><input type="checkbox"/> Holistic Watershed Approach <input type="checkbox"/> Erosion Control or Sediment Source Reduction</p> <p><input type="checkbox"/> Geomorphologic Design Elements</p> | | |
| | Water Quality (E 3.2) - Check all that apply | | |
| COST RECOVERY (15%) | Funding Available from Other Agencies - Check One | | 0 |
| | <p><input type="checkbox"/> <input type="checkbox"/> Over 50% of project costs available from other agencies % = Percentage of cost provided; C = Confidence Level (H, M, L)</p> <p><input type="checkbox"/> <input type="checkbox"/> 26% to 50% of project costs available from other agencies % = Percentage of cost provided; C = Confidence Level (H, M, L)</p> <p><input type="checkbox"/> <input type="checkbox"/> Up to 25% of project costs available from other agencies % = Percentage of cost provided; C = Confidence Level (H, M, L)</p> | | |

Appendix A - CIP Priority Criteria

BUILDINGS & GROUNDS PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

RAW SCORE = 0

Project Name

| | | | | | | |
|--|---|--|--|---|------|--|
| PRIMARY OBJECTIVE (60%) | Buildings and Grounds (EL 3.4) | | Impact = | ; Probability = | 0.00 | |
| | A | <input type="checkbox"/> Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards. | | | | |
| | B | <input type="checkbox"/> Project enhances building infrastructure to address treatment of staff issues. | | | | |
| | C | <input type="checkbox"/> Project positions the District to meet projected future space needs. | | | | |
| COMMUNITY ENGAGEMENT (10%) | Positive Interaction (E 4) - Check all that apply | | | | | |
| | <input type="checkbox"/> With the Community | | <input type="checkbox"/> With other agencies | | | |
| | Good Neighbor (E 4) - Check all that apply | | | | | |
| | <input type="checkbox"/> Graffiti removal or Prevention Features <input type="checkbox"/> Trash removal features (vortex weirs) <input type="checkbox"/> Improves esthetics of project location | | | | | |
| ENVIRONMENTAL SUSTAINABILITY (15%) | Natural Resources Sustainability (E 3.2) - Check all that apply | | | | | |
| | <input type="checkbox"/> | Air Quality & Visibility Improvement | <input type="checkbox"/> | Recycled Water, rain water or gray water utilized | | |
| | <input type="checkbox"/> | Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.) | <input type="checkbox"/> | Construction Site Waste Management | | |
| | <input type="checkbox"/> | Renewable Energy Use | <input type="checkbox"/> | Recycle/Re-use Solid Waste | | |
| | <input type="checkbox"/> | Water Efficient Features: Plumbing fixtures, Landscaping, etc. | <input type="checkbox"/> | Reduce Solid Waste Production | | |
| | Trails & Open Space (E3.3) - Check all that apply | | | | | |
| | <input type="checkbox"/> | Trail friendly features | <input type="checkbox"/> | Open Space Protection / Preservation | | |
| | <input type="checkbox"/> | Provides/Improves Bicycle Commute Route | | | | |
| COST RECOVERY (15%) | Funding Available from Other Agencies (Grants & Cost-share) - Check One | | | | | |
| | <input type="checkbox"/> | Over 50% of project costs available from other agencies | | | | |
| | <input type="checkbox"/> | 26% to 50% of project costs available from other agencies | | | | |
| | <input type="checkbox"/> | Up to 25% of project costs available from other agencies | | | | |

Appendix A - CIP Priority Criteria

INFORMATION TECHNOLOGY PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

SCORE = 0

Project Name

| | | | | |
|----------------------------|--|--|--------------------------|------|
| PRIMARY OBJECTIVE (90%) | Information Technology (EL 7.5) | | Impact = ; Probability = | 0.00 |
| | A | <input type="checkbox"/> Project maintains existing mission critical software systems and/or IT infrastructure to improve reliability for business continuity. (H+, H-, M+, M-, L) | | |
| | B | <input type="checkbox"/> Project enhances mission critical software systems and/or IT infrastructure to improve user functionality. (H, M, L) | | |
| | C | <input type="checkbox"/> Project enhances mission critical software systems and/or IT infrastructure to meet projected future needs. (H, M, L) | | |
| | D | <input type="checkbox"/> Ties into IT master Plan finding and/or recommendations (10 pts.) | | |
| COST RECOVERY (10%) | Funding Available from Other Agencies - Check One | | | 0.00 |
| | <input type="checkbox"/> | Over 50% of project costs available from other agencies | | |
| | <input type="checkbox"/> | 26% to 50% of project costs available from other agencies | | |
| | <input type="checkbox"/> | Up to 25% of project costs available from other agencies | | |

Appendix A - CIP Priority Criteria

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Appendix B - Project List By Priority

Water Supply Capital Projects in Order of Priority

FUNDED

| FY17 Priority | Name | Total Project Value (\$K) | Remaining Funding (\$K) (FY-17 to Completion) | Phase |
|------------------|--|------------------------------|--|---------------|
| 100 | Anderson Dam Seismic Retrofit | \$200,958 | \$171,526 | Des |
| 100 | Dam Safety Program Seismic Stability | \$19,783 | \$2,792 | Pln |
| 94 | Calero and Guadalupe Dams Seismic Retrofits | \$154,116 | \$138,765 | Pln/Des |
| 91 | RWTP Reliability Improvement | \$252,026 | \$180,510 | Const |
| 87 | RWTP FRP Residuals Management Modifications | \$26,426 | \$118 | Const/CO |
| 87 | RWTP Treated Water Valves Upgrade | \$8,426 | \$73 | Const/CO |
| 84 | Penitencia Delivery Main/Force Main Seismic Retrofit | \$31,099 | \$12,698 | Const |
| 81 | PureWater Silicon Valley | \$944,726 | \$925,257 | Pln/Des |
| 79 | 10-Year Pipeline Rehabilitation | \$100,144 | \$100,144 | Pln/Des |
| 78 | Small Capital Improvements, San Felipe Reach 1-3 | \$33,921 | \$32,294 | Continuing |
| 77 | Pacheco/Santa Clara Conduit Right of Way Acquisition | \$3,054 | \$1,904 | Const |
| 76 | 5-Year Pipeline Rehabilitation | \$33,029 | \$10,071 | Pln/Des/Const |
| 75 | SCADA Remote Architecture & Communications Upgrade | \$6,932 | \$6,530 | Pln/Des |
| 73 | Small Capital Improvements, Raw Water Transmission | \$3,644 | \$3,606 | Continuing |
| 73 | Small Capital Improvements, Water Treatment | \$61,411 | \$57,902 | Continuing |
| 73 | Small Capital Improvements, Treated Water Transmission | \$145 | \$145 | Continuing |
| 73 | FAHCE Implementation | \$145,108 | \$145,108 | Pln |
| 71 | Coyote Pumping Plant ASD Replacement | \$17,131 | \$17,131 | FY19 |
| 70 | Main & Madrone Pipelines Restoration | \$16,097 | \$14,289 | Des |
| 70 | IRP2 WTP Ops Bldgs Seismic Retrofit | \$21,866 | \$1,558 | Const/CO |
| 68 | Vasona Pumping Plant Upgrade | \$20,987 | \$20,987 | Pln/Des |
| 68 | PWTP Clearwell Recoating & Repair | \$6,453 | \$3,127 | Const/CO |
| 63 | IRP2 Additional Line Valves | \$13,918 | \$13,918 | FY25 |
| 57 | PWTP Residuals Management | \$10,000 | \$10,000 | FY18 |
| 51 | Fluoridation at WTPs | \$9,495 | \$3,012 | Const |
| 51 | Almaden Dam Improvements | \$56,518 | \$46,446 | Des |
| 50 | Coyote Pumping Plant Warehouse | \$3,134 | \$2,227 | Des/Const |
| 39 | Wolfe Road Recycled Water Pipeline | \$17,828 | \$1,127 | Const/CO |
| 17 | Silicon Valley Advanced Water Purification Center | \$76,815 | \$135 | Const/CO |
| 17 | South County Recycled Water Pipeline | \$44,178 | \$26,720 | Des/Const |

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

| | | | | |
|----|---|----------|----------|---------|
| 74 | Dam Seismic Retrofit at 2 Dams (Chesbro & Uvas) | \$89,500 | \$89,500 | N/A |
| 66 | SCADA Small Capital Improvements | \$29,612 | \$29,612 | N/A |
| 30 | Alamitos Diversion Dam Improvements | \$3,183 | \$2,345 | On Hold |
| 30 | Coyote Diversion Dam Improvements | \$2,461 | \$2,138 | On Hold |
| 26 | Land Rights - South County Recycled Water PL | \$5,816 | \$5,816 | N/A |

Appendix B - Project List By Priority

Flood Protection Capital Projects in Order of Priority

FUNDED

| FY17 Priority | Name | Total Project Value (\$K) | Remaining Funding (\$K) (FY-17 to Completion) | Phase |
|--------------------------|--|--------------------------------------|--|---------------|
| 95 | Lower Silver Creek, I-680 to Cunningham (Reach 4-6) | \$97,681 | \$4,333 | Const |
| 87 | San Francisco Bay Shoreline (E7) | \$54,271 | \$31,691 | Des |
| 85 | San Francisquito Creek, SF Bay thru Searsville Dam (E5) | \$59,727 | \$14,920 | Pln/Des/Const |
| 82 | Guadalupe River–Upper, I-280 to Blossom Hill Road (E8) | \$184,534 | \$83,429 | Des/Const |
| 78 | Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River | \$11,791 | \$8,494 | Pln/Des/Const |
| 78 | Cunningham Flood Detention Certification | \$11,307 | \$8,032 | Des/Const |
| 78 | Lower Penitencia Ck Improvements, Berryessa to Coyote Cks. | \$32,139 | \$25,339 | Des/Const |
| 77 | Upper Penitencia Creek, Coyote Creek to Dorel Drive | \$68,638 | \$52,912 | Pln/Des |
| 76 | Permanente Creek, SF Bay to Foothill Expressway | \$80,789 | \$18,687 | Const |
| 76 | San Tomas Creek, Quito Road Bridge Replacement | \$692 | \$129 | Des/Const |
| 75 | Llagas Creek–Upper, Buena Vista Avenue to Llagas Road | \$171,569 | \$129,531 | Const |
| 75 | Berryessa Creek, Calaveras Boulevard to Interstate 680 | \$50,854 | \$18,012 | Des/Const |
| 72 | Coyote Creek, Montague Expressway to Interstate 280 | \$32,884 | \$20,041 | Des |
| 68 | Sunnyvale East and West Channels | \$69,450 | \$55,233 | Const |
| 67 | Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd | \$115,886 | \$55,639 | Des/Const |
| 67 | Erosion Repair Program | \$70,251 | \$70,251 | Pln/Des/Const |
| 63 | Small Capital Improvements - Regnart Creek | \$3,515 | \$1,110 | Const |
| 51 | Canoas Creek, Rodent Damage Repair | \$6,454 | \$834 | Const/CO |
| 48 | Palo Alto Flood Basin Tide Gate Structure Improvements | \$5,547 | \$5,205 | Des |

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

| | | | | |
|----|---|----------|----------|-----|
| 87 | SF Bay Shoreline Other EIAs Planning | \$35,000 | \$35,000 | N/A |
| 76 | Permanente Creek, Hale Creek Construction | \$16,525 | \$16,525 | N/A |
| 67 | Erosion Repair Program - Unfunded Work | \$99,302 | \$99,302 | N/A |

Appendix B - Project List By Priority

Water Resources Stewardship Capital Projects in Order of Priority

FUNDED

| FY17 Priority | Name | Total Project Value (\$K) | Remaining Funding (\$K) (FY-17 to Completion) | Phase |
|--|--|------------------------------|--|---------------|
| Mitigation | | | | |
| (All Mitigation projects are required per CEQA or other Regulation and therefore do not receive a score) | | | | |
| | SMP Mitigation, Stream and Watershed Land Preservation | \$17,084 | \$1,370 | Continuing |
| Environmental Commitment | | | | |
| None | | | | |
| Environmental Enhancement | | | | |
| 55 | Hale Creek Enhancement Pilot Study | \$2,571 | \$2,109 | Des |
| 46 | SCW Fish Passage Improvements | \$6,656 | \$5,085 | Pln/Des/Const |
| 40 | FAHCE Stevens Creek Fish Passage Enhancement | \$5,582 | \$4,732 | On Hold |
| 39 | Almaden Lake Improvements | \$3,944 | \$1,279 | Des |
| 36 | Salt Ponds A5-11 Restoration | \$5,962 | \$4,397 | Pln/Des/Const |
| 30 | South Bay Salt Ponds Restoration | \$4,110 | \$3,901 | Pln |
| Stewardship | | | | |
| 38 | SCW Implementation Fund | \$62,911 | \$62,911 | Pln |

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

| | | | | |
|----|---|----------|----------|-----|
| 66 | Permanente Creek Riparian Channel Restoration | \$5,989 | \$5,989 | N/A |
| 39 | Almaden Lake Improvements - Construction | \$17,585 | \$17,585 | N/A |

Appendix B - Project List By Priority

Buildings and Grounds Capital Projects in Order of Priority

FUNDED

| FY17 Priority | Name | Total Project Value (\$K) | Remaining Funding (\$K) (FY-17 to Completion) | Phase |
|------------------|---|------------------------------|--|------------|
| 73 | Almaden and Winfield Campus, Small Capital Improvements | \$40,370 | \$38,490 | Continuing |
| 70 | Winfield Capital Improvements | \$15,852 | \$14,023 | Const |
| 65 | Headquarters Operations Building | \$17,804 | \$17,688 | Pln/Des |

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

| | | | | |
|----|---------------------------------------|---------|---------|-----|
| 70 | Fleet and Facility Annex Improvements | \$4,719 | \$4,719 | N/A |
|----|---------------------------------------|---------|---------|-----|

Information Technology Capital Projects in Order of Priority

FUNDED

| FY17 Priority | Name | Total Project Value (\$K) | Remaining Funding (\$K) (FY-17 to Completion) | Phase |
|------------------|---------------------------------------|------------------------------|--|-------|
| 70 | PeopleSoft System Upgrade & Expansion | \$8,842 | \$4,929 | Const |
| 55 | Software Upgrades & Enhancements | \$17,642 | \$16,652 | Const |
| 54 | IT Disaster Recovery | \$2,412 | \$1,850 | Const |
| 54 | WTP-WQL Network Equipment | \$8,988 | \$8,260 | Const |
| 40 | Data Consolidation | \$1,213 | \$877 | Const |

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

| | | | | |
|--|----------------------------------|---------|---------|-----|
| | Telecommunications Modernization | \$1,261 | \$1,261 | N/A |
|--|----------------------------------|---------|---------|-----|

Appendix C - District Partnership Summary

Partnership Reimbursements are funds that are reimbursed by the District's partners after the District advances the needed funds. The following table identifies capital projects that are funded cooperatively with the District's partners through reimbursements.

Partnership Reimbursement

| Reimbursements for Current Projects (\$K) | | | Actuals | | | | | | | | | | | | | | | | | | |
|---|--|--------|-----------|---------------------|--------|--------|--------|-------|-------|------|-------|-------|------|------|------|------|------|------|--------|---------|-------|
| Project Number | Project Name | Agency | Thru FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25 | FY26 | FY27 | FY28 | FY29 | FY30 | FY31 | Total | |
| 91864005 | Anderson Dam Seismic Retrofit (C1) | | 0 | 0 | 0 | 0 | 0 | 4,090 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,090 | |
| | DWR - Prop 84 | | | 4,090 | | | | | | | | | | | | | | | | | 4,090 |
| 91C40377 | Coyote Pumping Plant ASD Replacement | Total | 0 | 0 | 0 | 0 | 0 | 0 | 124 | 430 | 2,109 | 1,106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,769 | |
| | San Benito Water Dist | | 0 | 124 430 2,109 1,106 | | | | | | | | | | | | | | | | | 3,769 |
| 91214010 | Small Capital Improvements, San Felipe - Rch 1 | Total | 835 | 4 | 311 | 330 | 110 | 172 | 0 | 0 | 17 | 0 | 242 | 88 | 66 | 407 | 110 | 116 | 0 | 2,808 | |
| | San Benito Water Dist | | 835 | 4 | 311 | 330 | 110 | 172 | 0 | 0 | 17 | 0 | 242 | 88 | 66 | 407 | 110 | 116 | 0 | 2,808 | |
| 91C40387 | Pacheco Conduit Inspection & Rehabilitation | Total | 0 | 0 | 0 | 325 | 1,195 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,520 | |
| | San Benito Water Dist | | 0 | 325 1,195 | | | | | | | | | | | | | | | | | 1,520 |
| 92144001 | Pacheco/Santa Clara Conduit ROW Acquisition | Total | 17 | 0 | 0 | 8 | 87 | 19 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 138 | |
| | San Benito Water Dist | | 17 | 8 87 19 6 | | | | | | | | | | | | | | | | | 138 |
| 92374005 | SCADA Remote Architecture & Comm. Upg | Total | 0 | 0 | 0 | 82 | 82 | 86 | 136 | 180 | 187 | 195 | 203 | 211 | 157 | 0 | 0 | 0 | 0 | 1,519 | |
| | San Benito Water Dist | | 0 | 0 | 0 | 82 | 82 | 86 | 136 | 180 | 187 | 195 | 203 | 211 | 157 | | | | | | 1,519 |
| 93084011 | Fluoridation at WTPs | Total | 110 | 2,290 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,400 | |
| | The Health Trust | | 110 | 890 | | | | | | | | | | | | | | | | 1,000 | |
| | First 5 of Santa Clara County | | 0 | 900 | | | | | | | | | | | | | | | | 900 | |
| | California Dental Association Foundation | | 0 | 500 | | | | | | | | | | | | | | | | 500 | |
| 93764003 | IRP2 WTP Ops Bldg Seismic Retrofit | Total | 415 | 289 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 704 | |
| | FEMA Grant (California Office of Environmental Services) | | 415 | 289 | | | | | | | | | | | | | | | | 704 | |
| 91184008 | Silicon Valley Advanced Water Purification Ctr | Total | 22,046 | 123 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22,169 | |
| | City of San Jose | | 8,500 | | | | | | | | | | | | | | | | 8,500 | | |
| | DWR - Prop 50 | | 2,935 | | | | | | | | | | | | | | | | 2,935 | | |
| | DWR - Prop 84 | | 2,486 | 123 | | | | | | | | | | | | | | | | 2,609 | |
| | USBR - ARRA | | 8,125 | | | | | | | | | | | | | | | | 8,125 | | |
| 91094007s | South County Recycled Water Pipeline | Total | 2,106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,106 | |
| | SCRWA | | 811 | | | | | | | | | | | | | | | | 811 | | |
| | USBR - ARRA | | 1,295 | | | | | | | | | | | | | | | | 1,295 | | |
| 91244001 | Wolfe Road Recycled Water Pipeline | Total | 765 | 7,635 | 2,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,900 | |
| | Apple Computer | | 0 | 4,800 | | | | | | | | | | | | | | | | 4,800 | |
| | Cal Water | | 150 | 1,350 | | | | | | | | | | | | | | | | 1,500 | |
| | City of Sunnyvale | | 615 | 1,485 | | | | | | | | | | | | | | | | 2,100 | |
| | DWR - Prop 84 | | 0 | 2,500 | | | | | | | | | | | | | | | | 2,500 | |
| 26284001 | San Francisquito Creek, SF Bay - Searsville Dam | Total | 0 | 4,000 | 4,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,000 | |
| | San Francisquito Joint Powers Authority (DWR) | | 0 | 4,000 | 4,000 | | | | | | | | | | | | | | | | 8,000 |
| 26154001s | Guadalupe River--Upper, I-280 - Blossom Hill Rd | Total | 16,577 | 0 | 7,982 | 4,500 | 5,800 | 7,700 | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44,559 | |
| | State Subventions | | 12,792 | 0 | 7,982 | 4,500 | 5,800 | 7,700 | 2,000 | | | | | | | | | | | 40,774 | |
| | City of San Jose | | 3,785 | | | | | | | | | | | | | | | | 3,785 | | |
| 26174041s | Berryessa Ck, Calaveras Bvd to I-680 | Total | 0 | 2,000 | 2,236 | 8,890 | 3,558 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16,684 | |
| | State Subventions | | 0 | | 236 | 2,890 | 3,558 | | | | | | | | | | | | | 6,684 | |
| | DWR - Prop 1E | | 0 | 2,000 | 2,000 | 6,000 | | | | | | | | | | | | | 10,000 | | |
| 40174004 | Berryessa Ck, Lwr Penitencia Ck - Calaveras Bvd | Total | 0 | 3,000 | 6,000 | 6,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15,000 | |
| | DWR - Prop 1E | | 0 | 3,000 | 6,000 | 6,000 | | | | | | | | | | | | | 15,000 | | |
| 40264011 | Cunningham Flood Detention Certification | Total | 0 | 0 | 0 | 1,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,000 | |
| | DWR - Prop 1E | | 0 | 1,000 | | | | | | | | | | | | | | | | | 1,000 |
| 40334005 | Lwr Penitencia Ck Imp, Berryessa to Coyote Cks. | Total | 0 | 0 | 1,000 | 4,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,000 | |
| | DWR - Prop 1E | | 0 | 1,000 4,000 | | | | | | | | | | | | | | | | | 5,000 |
| 40264008s | Lwr Silver Ck, I-680 to Cunningham, Rchs 4-6 | Total | 26,940 | 8,000 | 13,258 | 4,000 | 865 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53,063 | |
| | State Subventions | | 6,264 | 0 | 1,258 | 0 | 865 | | | | | | | | | | | | | 8,387 | |
| | DWR - Prop 1E | | 0 | 8,000 | 12,000 | 4,000 | | | | | | | | | | | | | 24,000 | | |
| | NRCS-ARRA | | 20,676 | | | | | | | | | | | | | | | | 20,676 | | |
| 50284010 | Llagas Ck--Lwr, Capacity Restoration | Total | 120 | 0 | 5,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,120 | |
| | State Subventions | | 120 | 5,000 | | | | | | | | | | | | | | | | | 5,120 |
| 26174051s | Llagas Creek--Up, Buena Vista to Wright | Total | 9,430 | 1,369 | 4,984 | 2,669 | 22,230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40,682 | |
| | State Subventions | | 6,089 | 1,369 | 4,984 | 2,669 | 22,230 | | | | | | | | | | | | | 37,341 | |
| | City of Morgan Hill | | 3,341 | | | | | | | | | | | | | | | | 3,341 | | |
| 26444002 | San Francisco Bay Shoreline (EIA 1-10a) | Total | 0 | 420 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 420 | |
| | State Bond - DWR | | 0 | 420 | | | | | | | | | | | | | | | | 420 | |
| SUBTOTAL - Reimbursements from Current Projects | | | 79,361 | 29,130 | 47,271 | 31,804 | 33,928 | 7,977 | 2,266 | 610 | 2,313 | 1,301 | 445 | 299 | 223 | 407 | 110 | 116 | 0 | 241,651 | |

Appendix C - District Partnership Summary

Partnership Reimbursement (cont'd)

| Pending Reimbursements for Closed Projects | | | Actuals | | | | | | | | | | | | | | | | | | |
|---|------------------------------------|-----------------------|-----------|--------|--------|--------|--------|-------|-------|------|-------|-------|------|------|------|------|------|------|------|---------|--|
| Project Number | Project Name | Agency | Thru FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25 | FY26 | FY27 | FY28 | FY29 | FY30 | FY31 | Total | |
| 30154013s | Guadalupe River-DT, I-880 to I-280 | Total | 39,480 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39,590 | |
| | | State Subventions | 27,618 | 110 | | | | | | | | | | | | | | | | 27,728 | |
| | | City of San Jose | 1,654 | | | | | | | | | | | | | | | | | 1,654 | |
| | | San Jose Redev Agency | 10,208 | | | | | | | | | | | | | | | | | 10,208 | |
| SUBTOTAL - Reimbursements for Closed Projects | | | 39,480 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39,590 | |
| | | | | | | | | | | | | | | | | | | | | | |
| TOTAL REIMBURSEMENTS | | | 118,841 | 29,130 | 47,381 | 31,804 | 33,928 | 7,977 | 2,266 | 610 | 2,313 | 1,301 | 445 | 299 | 223 | 407 | 110 | 116 | 0 | 281,241 | |

Appendix C - District Partnership Summary

Partnership Funding is funds that are made available by the District's partners, when needed. The following table identifies capital projects that receive partnership funding. This may occur through either cost sharing agreements or as in-kind services.

Partnership Funding

| Project Number | Project Name | Amount (\$K) | Partnering Agency |
|----------------|--|--------------|---|
| 26174041s | Berryessa Creek, Calaveras Boulevard to Interstate 680 | 13,600 | U.S. Army Corps of Engineers |
| 26154001s | Guadalupe River–Upper, Interstate 280 to Blossom Hill Road | 188,000 | U.S. Army Corps of Engineers |
| 26174051s | Llagas Creek–Upper, Buena Vista Road to Wright Avenue | 65,000 | U.S. Army Corps of Engineers |
| 00044026s | San Francisco Bay Shoreline | 91,250 | USACE, Coastal Conservancy, US Fish & Wildlife, CA Wildlife Conservation, Packard-Hewlett-Goldman-Moore Foundations |
| 10284007s | San Francisquito Creek, SF Bay thru Searsville Dam | 3,000 | U.S. Army Corps of Engineers |
| 10284007s | San Francisquito Creek, SF Bay thru Searsville Dam | 1,500 | County of San Mateo |
| 20194005 | San Tomas Creek, Quito Road Bridge Replacement | 300 | City of Saratoga |
| 20194005 | San Tomas Creek, Quito Road Bridge Replacement | 300 | Town of Los Gatos |
| 20194005 | San Tomas Creek, Quito Road Bridge Replacement | 4,115 | CALTRANS |
| 40324003s | Upper Penitencia Creek, Coyote Creek to Dorel Drive | 102,720 | U.S. Army Corps of Engineers |
| TOTAL | | \$ 469,785 | |

Appendix C - District Partnership Summary

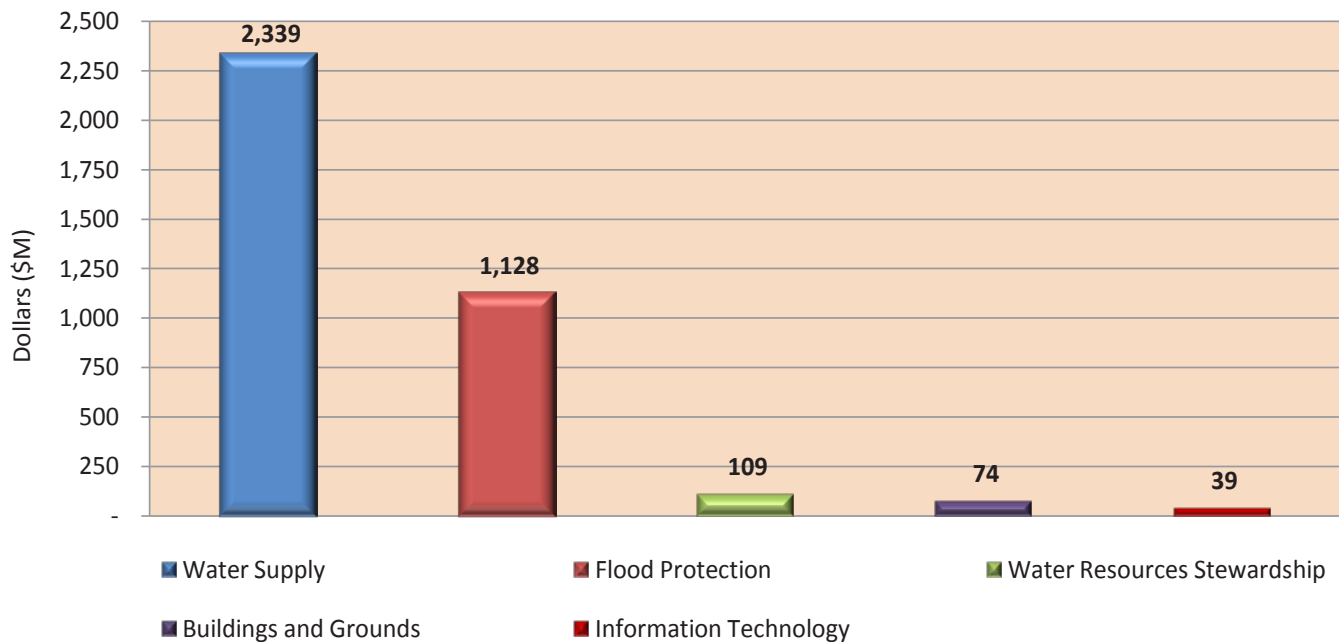
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Appendix D - Summary of Capital Expenditures

Expenditure Schedule by Type of Improvement (\$K)

| | THRU FY15 (Actuals) | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25 | FY26 | FY27-31 | TOTAL |
|-----------------------------|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|------------------|
| Water Supply | 247,084 | 142,164 | 137,160 | 202,730 | 347,195 | 399,688 | 254,681 | 132,075 | 182,411 | 108,426 | 113,054 | 18,847 | 53,853 | 2,339,368 |
| Flood Protection | 382,523 | 141,634 | 211,209 | 169,585 | 74,923 | 37,008 | 37,044 | 28,458 | 21,711 | 22,995 | 275 | 286 | 328 | 1,127,979 |
| Water Resources Stewardship | 15,340 | 7,696 | 8,630 | 17,350 | 25,006 | 11,140 | 2,490 | 2,577 | 2,368 | 2,463 | 2,562 | 2,664 | 8,534 | 108,820 |
| Buildings and Grounds | 1,295 | 2,530 | 15,563 | 4,695 | 6,017 | 9,209 | 7,191 | 2,395 | 2,468 | 2,544 | 2,621 | 2,701 | 14,797 | 74,026 |
| Information Technology | 2,118 | 4,411 | 6,317 | 2,672 | 1,093 | 1,046 | 1,004 | 796 | 3,081 | 4,615 | 1,706 | 970 | 9,268 | 39,097 |
| TOTAL | 648,360 | 298,435 | 378,879 | 397,032 | 454,234 | 458,091 | 302,410 | 166,301 | 212,039 | 141,043 | 120,218 | 25,468 | 86,780 | 3,689,290 |

CIP Expenditures by Type of Improvement

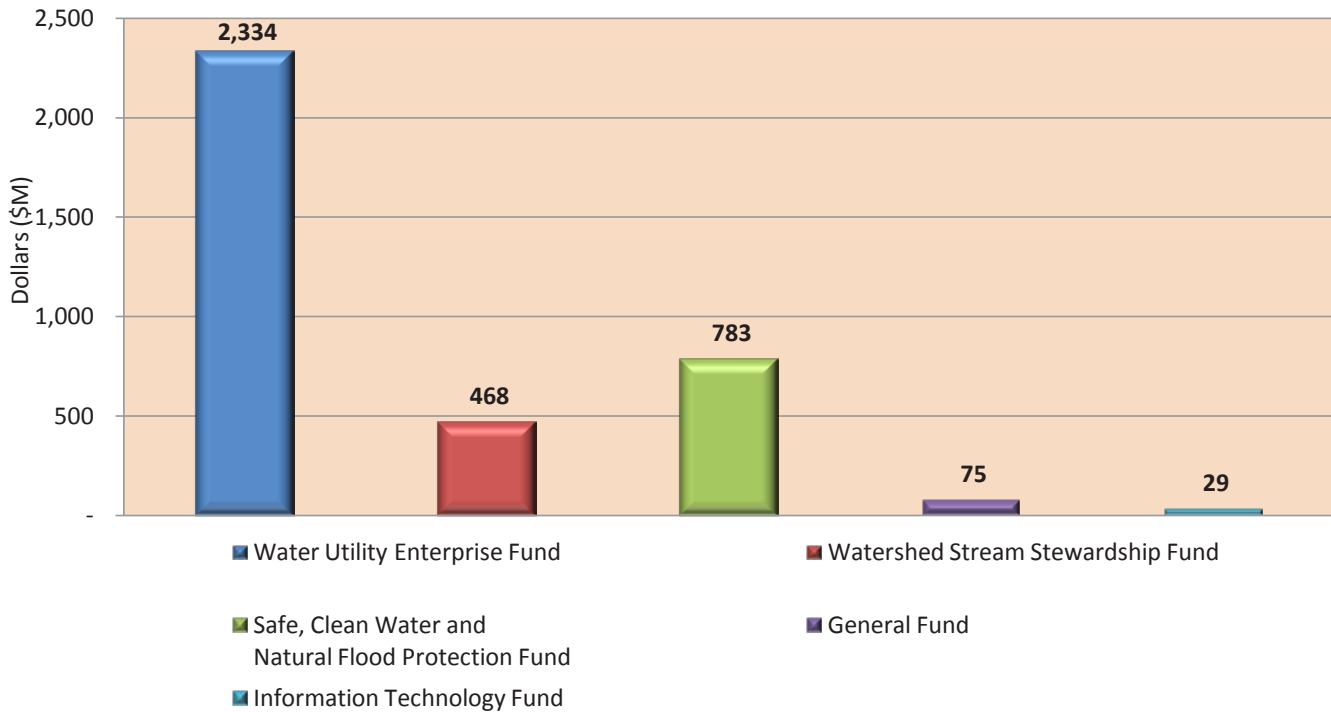


Appendix D - Summary of Capital Expenditures

Expenditure Schedule by Fund (\$K)

| | THRU FY15 (Actuals) | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25 | FY26 | FY27-31 | TOTAL |
|---|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|------------------|
| Water Utility Enterprise Fund | 248,050 | 140,883 | 137,556 | 192,103 | 350,999 | 400,656 | 255,511 | 133,042 | 183,791 | 112,299 | 113,829 | 18,463 | 47,118 | 2,334,300 |
| Watershed Stream Stewardship Fund | 207,172 | 37,887 | 78,980 | 35,382 | 30,279 | 9,649 | 12,356 | 16,259 | 15,789 | 19,821 | 854 | 888 | 2,845 | 468,160 |
| Safe, Clean Water and Natural Flood Protection Fund | 190,186 | 112,991 | 140,655 | 162,937 | 66,253 | 37,698 | 26,348 | 13,917 | 7,500 | 4,816 | 2,402 | 2,772 | 14,220 | 782,695 |
| General Fund | 2,494 | 2,530 | 15,563 | 4,695 | 6,017 | 9,209 | 7,191 | 2,395 | 2,468 | 2,544 | 2,621 | 2,701 | 14,797 | 75,225 |
| Information Technology | 458 | 4,144 | 6,125 | 1,915 | 686 | 880 | 1,004 | 688 | 2,490 | 1,563 | 512 | 644 | 7,801 | 28,910 |
| TOTAL | 648,360 | 298,435 | 378,879 | 397,032 | 454,234 | 458,091 | 302,410 | 166,301 | 212,039 | 141,043 | 120,218 | 25,468 | 86,780 | 3,689,290 |

CIP Expenditures by Fund



Appendix E - Feasibility Studies

Projects listed in the Feasibility Studies appendix are potential future capital projects. Operations staff is collecting data and analyzing alternatives to determine if a capital investment is a cost-effective solution. After completion of a feasibility study, these projects will be validated before they are identified as capital projects, and considered for addition to the CIP.

Feasibility Studies

| Project Name | Water | | | | |
|--|--------------|------------------|-----------------------|---------------------|------------------------|
| | Water Supply | Flood Protection | Resources Stewardship | Buildings & Grounds | Information Technology |
| Ogier Ponds Separation from Coyote Creek | | | X | | |

Appendix E - Feasibility Studies

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Appendix F - Safe Clean Water Project Schedules

The following tabel is an overview schedule for water supply capital projects identified in the FY 2017-21 CIP. Detailed information for each project can be found in this document in their respective chapters in the order presented in this table.

Safe, Clean Water Capital Improvement Project Schedules

| Project Number | PROJECT NAME | FY95 - FY99 | FY00 - FY04 | FY05 - FY09 | FY10 - FY14 | FY15 - FY19 | FY20 - FY24 | FY25 - FY29 |
|-------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| WATER SUPPLY | | | | | | | | |
| 26C40349 | IRP2 Additional Line Valves (A3) | | | | | | | |
| 26564001 | Main & Madrone Pipelines Restoration (A1) | | | | | | | |
| FLOOD PROTECTION | | | | | | | | |
| 10244001 | Permanente Creek, SF Bay to Foothill Expressway | | | | | | | |
| 26244001 | Permanente Creek, SF Bay to Foothill Expressway | | | | | | | |
| 10284007 | San Francisquito Creek, SF Bay thru Searsville Dam | | | | | | | |
| 10284008 | San Francisquito Creek, Early Implementation | | | | | | | |
| 26284001 | San Francisquito Creek, SF Bay thru Searsville Dam (E5) | | | | | | | |
| 26284002 | San Francisquito Creek - Construction, SF Bay to Middlefield Road (E5) | | | | | | | |
| 26074002 | Sunnyvale East and West Channels | | | | | | | |
| 26154001 | Guadalupe Rv-Upper, Fish Passage Mods | | | | | | | |
| 26154002 | Guadalupe Rv-Upper, I-280 to SPRR (R6) | | | | | | | |
| 26154003 | Guadalupe Rv-Upper, SPRR-Blossom Hill (R7-12) | | | | | | | |
| 26154004 | Guadalupe Rv-Upper, Actuals chg to other proj numbers | | | | | | | |
| 26174041 | Berryessa Ck, Calaveras-I-680 - Corps | | | | | | | |
| 26174042 | Berryessa Ck, Calaveras-I-680 - Reimbursable | | | | | | | |
| 26174043 | Coyote Creek, Montague Expressway to Interstate 280 | | | | | | | |
| 40324003 | Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps | | | | | | | |
| 40324005 | Upper Penitencia Ck, Coyote Ck-Dorel Dr, LERRDs | | | | | | | |
| 26324001 | Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps (E4) | | | | | | | |
| 26174051 | Llagas Creek-Upper, Reimbursable (E6b) | | | | | | | |
| 26174052 | Llagas Creek-Upper, Corps Coordination (E6a) | | | | | | | |
| 26174053 | Llagas Creek-Upper, Technical Studies | | | | | | | |
| 26174054 | Llagas Creek-Upper, Design | | | | | | | |
| 50C40335 | Llagas Creek-Upper, R5,6,&7b | | | | | | | |

Appendix F - Safe Clean Water Project Schedules

Safe, Clean Water Capital Improvement Project Schedules (cont'd)

| Project Number | PROJECT NAME | FY95 - FY99 | FY00 - FY04 | FY05 - FY09 | FY10 - FY14 | FY15 - FY19 | FY20 - FY24 | FY25 - FY29 |
|------------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FLOOD PROTECTION (cont'd) | | | | | | | | |
| 00044026 | San Francisco Bay Shoreline | | | | | | | |
| 62044042 | Shoreline Early Implementation | | | | | | | |
| 26444001 | San Francisco Bay Shoreline - EIA 11 Design & Partial Construction (E7) | | | | | | | |
| 26444002 | San Francisco Bay Shoreline - Other EIAs Planning (E7) | | | | | | | |
| WATER RESOURCES STEWARDSHIP | | | | | | | | |
| 26044001 | Almaden Lake Improvements (D4.1a) | | | | | | | |
| 26164001 | Hale Creek Enhancement Pilot Study (D6) | | | | | | | |
| 26044002 | SCW Fish Passage Improvements (D4.3; Bolsa Road) | | | | | | | |
| 26444003 | South Bay Salt Ponds Restoration (D8) | | | | | | | |

Legend

| | |
|--|--------------------|
| | Planning Phase |
| | Design Phase |
| | Construction Phase |
| | Close-out Phase |

Appendix G - Glossary

Ad Valorem Tax

A tax based on value (e.g., a property tax).

Appropriation

An appropriation is a legal authorization granted by the Santa Clara County Board of Supervisors which allows the District to expend cash and incur obligations for specific purposes. An appropriation is usually limited in amount and the time it may be expended.

Assessment

The process of setting the official valuation of property for taxation; the valuation placed upon property as a result of this process.

Asset

A probable future economic benefit obtained or controlled by a particular entity as a result of past transactions or events. Examples of assets are cash, receivables, and equipment.

Benefit Assessment

Determination of the benefits derived from District activities within particular watersheds and levying a proportionate share of taxes to each parcel subject to voter-approved limitations.

Bonds

Bonds are a long-term source of debt that provides a source of borrowed monies that can be used to pay for specific capital facilities. Bonds are a written promise to pay a specified sum of money at a predetermined date or dates in the future, called the maturity date(s), together with periodic interest at a specific rate.

Capital Expenditure

Capital expenditures fall into several categories. In general, they should create assets or extend the useful lives of existing assets. The work product results in a long-term benefit greater than two years and for budgeting purposes involved a major expenditure of district resources greater than \$50,000. They can be made with regard to tangible and intangible assets.

The general categories of capital expenditures are: rehabilitation, major repairs, improvements/betterments/ upgrades, replacements, expansions/ additions, and ancillary expenditures.

Capital Projects

Projects are budgeted within the Capital budget and fall within the definition of Capital Expenditures; which means they (1) create or extend the life of an asset, (2) their work products have a useful life of greater than two years, and (3) they involve an expenditure of District resources in excess of \$50,000.

Certificates of Participation (COPs)

A security in the general form of a bond, which evidences a proportionate participation in a flow of lease or other payments between two parties.

CEQA

California Environmental Quality Act

CIP

Capital Improvement Program

Cost Center

Cost Centers are separate financial accounting centers in which costs are accumulated because of legal and accounting requirements, the first two digits of a project number identifies the cost center.

DPR

Direct Potable Reuse

DWR

State Department of Water Resources

EIR

Environmental Impact Report

Encumbrances

Commitments related to unperformed (executory) contracts for goods or services. Encumbrances represent the estimated amount of expenditures that will result if unperformed contracts in process are completed.

Appendix G - Glossary

Enterprise Fund

Enterprise Funds are used to account for operations including debt service (a) that are financed and operated in a manner similar to private business, where the intent of the government body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a accounting basis is financed or recovered primarily through user charges; or (b) where the governing body has determined that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control accountability, or other purposes.

Expenditure/Expense

Decreases in net financial resources. Expenditures include current operating expenses requiring the present or future of net current assets, debt service and capital outlays, and intergovernmental grants, entitlements, and shared revenues. The major expenditure categories used by the District are labor and overhead, land and structures, equipment, and debt service.

Facility

Defined as a creek, reservoir, dam, water treatment plant, pipeline, canal, etc.

Fixed Assets

Fixed Assets are defined as long-lived tangible assets such as automobiles, computers and software, furniture, communications equipment, hydrologic equipment, office equipment, and other equipment, with a value of \$2,000 or more, or the combined value of like or related units (aggregate value) is greater than \$5,000 if the unit value is less than \$2,000.

Fiscal Year

A 12-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. The District's fiscal year is July 1 through June 30.

Fund

A fiscal and accounting entity with a self-balancing set of accounts in which cash and other financial resources, all related liabilities and residual equities, or balances, and changes therein, are recorded and segregated to carry on specific activities or attain certain objectives in accordance with special regulations, restrictions or limitations.

General Fund

A fund used to account for major operating revenues and expenditures, except for those financial transactions that are required to be accounted for in another fund. General Fund revenues are derived primarily from property and other taxes.

Grants

Contributions or gifts of cash or other assets from another government entity to be used or expended for a specified purpose, activity, or facility.

IPR

Indirect Potable Reuse

Levy

(1. Verb) To impose taxes, special assessments, or service charges for the support of government activities;
(2. Noun) The total amount of taxes, special assessments, or service charges imposed by a government agency.

Long-Term Debt

Debt with a maturity date of more than one year after the date of issuance.

One Percent Flood or 100 Year Flood

Has a 1% chance of occurring in a given year. Water District projects are usually designed for the 1% flood, a national standard established by the Federal Emergency Management Agency (FEMA).

Appendix G - Glossary

Operating Expenditure

Operating expenditures are system costs required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services.

Operating expenditures are costs necessary to maintain the systems in good operating condition. This includes the repair and replacement of minor property components. The American Waterworks Association (AWWA) says that these priority components should be smaller than a retirement unit; a retirement unit is a readily separable and separately useful item that is part of a larger assembly. The benefit and life of such repairs should be less than two years. Any repairs that recur on an annual basis are considered operating activities of a maintenance nature.

Operating expenditures are often separated into fixed and variable costs for purposes of understanding operating leverage and structuring service charge rates.

Operations

Expenditures required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services. Operations include work that is generally of an ongoing or recurring nature. Any District work that is not a project is, by definition, an Operation. Operations, although recurring, require close coordination and a high degree of management oversight; however, they can be accomplished without the application of the full range of tools and processes used for managing projects.

Projects

At the Santa Clara Valley Water District, a project is any undertaking which has (1) a beginning and an ending, (2) a one-time occurrence. Projects can require expenditure of capital or operating funds and, at the District, are called Capital or Operating Projects, accordingly. Project usually, but not always, relate to a District facility or facilities (a creek, a reservoir, a dam, a water treatment plant, a pipeline,, etc.). Projects may include studies, design, construction, maintenance, or implementation of systems such as Records Management or Financial Management System.

Revenue

Monies the District receives in exchange for services or sales provided. Revenue items include water sales, property tax revenues, benefit assessment revenues, interest income, intergovernmental reimbursement, and other.

Revenue Bonds

Bonds, whose principal and interest are payable exclusively from earnings of an enterprise fund. In addition to a pledge of revenues, such bonds sometimes contain a mortgage on the enterprise fund's property.

Reserve

An account used to indicate that a portion of a fund's assets are legally restricted for a specific purpose and is, therefore, not available for general appropriation.

WTP

Water Treatment Plant

WQL

Water Quality Lab

Appendix G - Glossary

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