San Francisco
Water Power Sewer
Services of the San Francisco Public Utilities Commission

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September 1, 2025

Assembly Member John Harabedian - Chair
Senator John Laird – Vice-Chair
Joint Legislative Audit Committee
1021 O Street, Suite 4350
Sacramento, CA 94249-0041

David Rabbitt, Chair
Debra Garnes, Vice-Chair
Alfred E. Alquist Seismic Safety Commission
3650 Schriever Avenue
Mather, CA 95655

Mr. Stefan Cajina, Chief
North Coastal Section, Division of Drinking Water
State Water Resources Control Board
850 Marina Bay Parkway, Bldg P, Second Floor
Richmond, CA 94804

Subject: **Fiscal Year (FY) 2024-25 Annual Report**
Water System Improvement Program
San Francisco Public Utilities Commission

Dear Assembly Member Harabedian, Senator Laird, Commissioner Rabbitt, Commissioner Garnes, and Chief Cajina,

In accordance with Section 73502(c) of the California Water Code, the San Francisco Public Utilities Commission (SFPUC) is pleased to submit the enclosed Annual Report describing progress made on the implementation of the Water System Improvement Program (WSIP) during Fiscal Year (FY) 2024-2025.

SFPUC remains committed to working collaboratively with its Regional Wholesale and Retail customers and all program stakeholders and partners to ensure the successful delivery of the WSIP. Please do not hesitate to contact me at (415) 554-1600 if you have questions or need additional information.

Sincerely,

Ronald Flynn, Deputy General Manager on behalf of

Dennis J. Herrera
General Manager
San Francisco Public Utilities Commission

OUR MISSION: To provide our customers with high-quality, efficient and reliable water, power and sewer services in a manner that values environmental and community interests and sustains the resources entrusted to our care.

Enclosure

cc: The Honorable Kate H. Stacy, President, SFPUC Commission

The Honorable Joshua Arce, Vice President, SFPUC Commission

The Honorable Avni Jamdar, Commissioner, SFPUC Commission

The Honorable Steve Leveroni, Commissioner, SFPUC Commission

The Honorable Meghan Thurlow, Commissioner, SFPUC Commission

Tom Smegal, Chief Executive Officer and General Manager, Bay Area Water Supply & Conservation Agency

Thomas (Tom) Francis, Water Resources Manager, Bay Area Water Supply & Conservation Agency

Vlad Rakhamimov, Staff Engineer, North Coastal Section, Division of Drinking Water, State Water Resources Control Board

Marco Pacheco, San Francisco District Engineer, Division of Drinking Water, State Water Resources Control Board

Darrin Polhemus, Deputy Director, Division of Drinking Water, State Water Resources Control Board

Daniel Newton, Assistant Deputy Director, Northern California Drinking Water Field Operations Branch, State Water Resources Control Board

Lori Nezhura, Interim Executive Director, Alfred E. Alquist Seismic Safety Commission

Jia Wang-Connelly, Senior Structural Engineer, Seismic Safety Commission

Tom Chambers, Chair, BAWSCA

Louis Vella, Vice-Chair, BAWSCA

BAWSCA Member Agencies (distributed by BAWSCA)

HETCH HETCHY
WATER SYSTEM
IMPROVEMENT
PROGRAM

2024-2025

Annual Report

Water System Improvement Program

Rebuilding Today For a Better Tomorrow

Hetch Hetchy
Regional
Water
System

Services of the San Francisco Public Utilities Commission

September 1, 2025

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FY 2024-25 ANNUAL REPORT
WATER SYSTEM IMPROVEMENT PROGRAM

EXECUTIVE SUMMARY

Pursuant to the reporting requirements of the Wholesale Regional Water System Security and Reliability Act, the San Francisco Public Utilities Commission (SFPUC) submits this report documenting the progress achieved on the Water System Improvement Program (WSIP) during Fiscal Year (FY) 2024-25 (July 1, 2024 through June 30, 2025). This report addresses only the WSIP Regional projects (referred to as the Regional Program). These are the projects that benefit both San Francisco retail customers and the SFPUC's suburban wholesale customers. The Wholesale Regional Water System Security and Reliability Act does not require the SFPUC to report on the WSIP Local projects (referred to as the Local Program), which primarily benefit San Francisco retail customers.

The WSIP is a $4.8 billion-dollar, multi-year program to upgrade the SFPUC's Regional and Local Water Systems. The program is delivering capital improvements that enhance the SFPUC's ability to provide reliable, affordable, high quality drinking water in an environmentally sustainable manner to its 26 wholesale customers and regional retail customers in Alameda, Santa Clara, and San Mateo Counties, and to 800,000 retail customers in the City and County of San Francisco. The WSIP is structured to cost-effectively meet water quality requirements, improve seismic and delivery reliability goals through the year 2030, and fulfill water supply objectives through the year 2018.

Progress was made on the implementation of the WSIP during FY 2024-25. Between July 1, 2024 and June 30, 2025, the overall completion of the Regional Program is at 99.3%. As of the end of the reporting period, planning, environmental, design, and construction phases were 94.5%, 99.9%, 99.9%, and 99.4% complete, respectively. The focus of the program continued to be planning and construction of the two remaining projects and administrative closeout of projects that recently completed construction. As of June 30, 2025, planning and construction were in progress on two (2) Regional projects valued at $214 million, while construction was in close-out or had been completed on 49 Regional projects valued at $3,582 million.

Support programs that were continued during FY 2024-25 included management of facilities' shutdowns, environmental compliance, and public outreach. All status updates in this Annual Report are referenced to the latest baseline scope, budget and schedule, approved on April 9, 2024, which is referred to as the "March 2024 Revised WSIP Baseline."

The scope of the WSIP is based on the primary Level of Service (LOS) goals used to determine project design criteria as follows: water quality (maintain high water quality); seismic reliability (reduce vulnerability to earthquakes); delivery reliability

(increase delivery reliability and improve ability to maintain the system); and water supply (meet customer water needs in non-drought and drought periods). In addition, two overarching program goals include sustainability (enhance sustainability in all system activities); and cost effectiveness (achieve a cost-effective, fully operational system). The LOS Goals and Objectives have been maintained and were expanded in November 2023, including a few new and more detailed objectives. The LOS Goals and Objectives have continued to be foundational for prioritizing capital program needs and defining project-level performance criteria. Each WSIP project that reaches construction substantial completion contributes to increasing the overall reliability of the system and achieving progress towards meeting the LOS goals and objectives. As of end of FY 2024-25, 41 of the 43 Regional WSIP projects with specific LOS goals had achieved their LOS goals and objectives. The two Regional WSIP projects with water supply as a primary LOS goal that have not yet been completed are the Alameda Creek Recapture Project (ACRP) and the Regional Groundwater Storage and Recovery Project (RGSRP). The other Regional WSIP projects (support projects and WSIP Closeout projects) do not have specific LOS goals.

The status of schedule forecasts and variances for all WSIP Regional Projects as of June 30, 2025 is provided in the report. As of June 30, 2025, the overall WSIP is forecasted to complete in June 2032, which is consistent with the current baseline schedule approved as part of the March 2024 Revised WSIP Baseline. Any future proposed schedule changes will be noticed to the public and approved by the SFPUC Commission, in accordance with the requirements of California State Law AB1823.

All WSIP Regional Projects are currently forecasted to be completed on budget in accordance with the March 2024 Revised WSIP Baseline, and there is remaining construction and Director's Reserve cost contingencies of $18.5 million to mitigate potential future risks. Potential cost increases for completing the Alameda Creek Recapture Project are being reviewed; any future proposed budget changes will be noticed to the public and approved by the SFPUC Commission along with any corresponding proposed schedule changes.

Significant achievements in FY 2024-25 included the Phase 2A construction contract of the Regional Groundwater Storage and Recovery Project achieved substantial completion and the Phase 2B construction contract received Notice-to-Proceed.

During the year, a second phase was added to the Alameda Creek Recapture Project. Phase A: WD-2825R Alameda Creek Recapture Project construction contract was terminated and closed out in 2024. The project closeout and dossier were completed. Phase B: The project team reviewed past alternatives, investigated pump stations in operation within the mining industry, revisited the project needs and level of service for the facility and developed new alternatives for the Alternative Analysis Report. The quarry operator and Geotech consultant developed and submitted an updated erosion repair plan for the pond banks for review.

As it would generally be overly conservative to plan for 100% of future potential risks, the SFPUC has elected to use the “80% confidence level” as a relatively conservative estimate of future construction cost risk for the WSIP. Namely, the “80% confidence level” represents the amount of construction cost for which one can be 80% confident that future cost risk will not exceed this level. The construction cost risk exposure at the “80% confidence level” at the end of the reporting period was $0.5M, which compares to $1.5M at the end of last year’s reporting period. This decrease is the result of the expiration of most of Regional Groundwater Storage and Recovery Project construction cost risks.

The remaining forecast construction contingency as of June 30, 2025 was $5.6 million after all current trends have been considered. In addition, the current forecast WSIP Director’s Reserve Fund was $12.9 million. Therefore, a total of approximately $18.5 million is available to fund potential future project or program changes and future risks, including both construction risks and unforeseen soft (non-construction) costs. If one conservatively assumes that up to $1.0 million is needed for future soft cost risk, this will leave approximately $17.5 million available to fund potential future construction risks as well as potential future project or program changes that would be noticed appropriately in a future program revision.

At 99.3% completion and with 41 of 43 Regional WSIP projects with specific LOS goals and objectives currently in service, the overall WSIP is in the Closeout Phase. It is essential to continue to implement best practices that have helped to make the WSIP successful to date and to continue to look for opportunities to become more efficient as the SFPUC strives to bring the WSIP to completion.

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LIST OF ACRONYMS

AB	Assembly Bill
ACRP	Alameda Creek Recapture Project
ARM	Active Risk Management
BAWSCA	Bay Area Water Supply and Conservation Agency
BDPL	Bay Division Pipelines
BHR	Bioregional Habitat Restoration
CDRP	Calaveras Dam Replacement Project
CEQA	California Environmental Quality Act
CIP	Capital Improvement Program
CM	Construction Management
CMIS	Construction Management Information System
DRB	Dispute Resolution Board
EBMUD	East Bay Municipal Utility District
EIR	Environmental Impact Report
FY	Fiscal Year
HTWTP	Harry Tracy Water Treatment Plant
JOC	Job Order Contract
LOS	Level of Service
MGD	Million Gallons per Day
PCCP	Pre-stressed Concrete Cylinder Pipe
RBOC	Revenue Bond Oversight Committee
RGSRP	Regional Groundwater Storage and Recovery Project
SCADA	Supervisory Control and Data Acquisition
SFPUC	San Francisco Public Utilities Commission
SJPL	San Joaquin Pipeline
SSF	South San Francisco
SVWTP	Sunol Valley Water Treatment Plant
WSIP	Water System Improvement Program

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1.0 OVERALL PROGRAM PROGRESS

1.1 Program Status Summary

Steady progress has been made on the implementation of the Water System Improvement Program (WSIP) during Fiscal Year (FY) 2024-2025 (July 1, 2024 through June 30, 2025) with overall progress on the Regional Program at 99.3% complete.

As indicated in Table 1-1, planning, environmental, design, and construction phase are 94.5%, 99.9%, 99.9%, and 99.4% complete respectively.

Table 1-1: WSIP Regional Program Performance[1]

Phase	June 30, 2024		June 30, 2025	
	% Planned	% Actual	% Planned[2]	% Actual
Planning	100.0%	94.6%	100.0%	94.5%
Environmental	100.0%	99.4%	100.0%	99.9%
Design	100.0%	99.7%	100.0%	99.9%
Bid & Award	100.0%	99.9%	100.0%	99.9%
Construction	99.9%	99.0%	99.9%	99.4%
Closeout	99.4%	92.5%	99.4%	94.6%
Program Cumulative	**99.9%**	**98.9%**	**99.9%**	**99.3%**

[1] Percent completion does not include Support Projects in the WSIP Regional Program.
[2] Incorporates the March 2024 Revised WSIP Baseline schedule and budget revisions.

In recent years, the focus of the program has been on construction activities and administrative closeout of completed projects. Table 1-2 compares the number of projects in each phase and their corresponding total approved value at the beginning of the reporting period (June 30, 2024) to those at the end of the reporting period (June 30, 2025). As of the end of the reporting period, planning and construction were in progress on two (2) Regional projects valued at $214 million, and forty-nine (49) additional projects with a total value of $3,582 million were in close-out or have been completed.

Table 1-2: Status of WSIP Regional Projects

Project Phase	June 30, 2024 Status		June 30, 2025 Status	
	No. of Projects	Total Project Value ($M)	No. of Projects	Total Project Value ($M)
Planning	0	$0	1	$51
Design	0	$0	0	$0
Bid & Award	0	$0	0	$0
Construction	2	$214	1	$164
Closeout	1	$96	1	$96
Completed	48	$3,485	48	$3,485
Not Applicable[1]	1	$12	1	$12
Total	**52**	**$3,808**	**52**	**$3,808**

[1] The "Not Applicable" category is for a project that does not include construction: the Long-Term Mitigation Endowment.

1.2 Program Baseline Budget and Schedule

The program budget and schedule were originally adopted by the SFPUC on March 1, 2003. The program at the time was referred to as the Capital Improvement Program (CIP). The scope of the CIP was changed significantly following the adoption of Level of Service (LOS) goals in early 2005. The program changes were so substantial that the program was renamed the WSIP, and a new program budget and schedule were adopted on November 29, 2005. Since the scope of the 2005 Revised WSIP is in general representative of the program being implemented today, the 2005 budget and schedule are considered the original “Baseline Budget and Schedule.”

Subsequently, the WSIP Baseline Budget and Schedule were revised in 2007, 2009, 2011, 2013, 2014, 2015, 2016, 2017, 2018, 2020, 2022, 2024 and these revisions were approved by the SFPUC on February 26, 2008, July 28, 2009, July 12, 2011, April 23, 2013, April 22, 2014, December 8, 2015, April 26, 2016, February 14, 2017, April 10, 2018, April 14, 2020, April 26, 2022, and April 9, 2024, respectively. All status updates in this Annual Report are referenced to the latest Baseline Budget and Schedule, approved on April 9, 2024, which is referred to as the “March 2024 Revised WSIP.”

2.0 PROGRAMMATIC INITIATIVES (FY2024-25)

This section describes some of the more important programmatic initiatives undertaken during FY 2024-25.

2.1 Environmental Program

California Environmental Quality Act (CEQA)

CEQA environmental review for all WSIP Regional projects is complete. The total number of CEQA documents approved for WSIP Regional projects is: seventeen (17) Environmental Impact Reports certified, seven (7) Initial Study/Mitigated Negative Declarations approved, and thirteen (13) Categorical Exemptions issued.

Resource Agency Permits

Permitting is complete for all WSIP Regional projects. One hundred and one (101) permits were obtained from the resource agencies (U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, California Department of Fish and Wildlife, National Marine Fisheries Service, State Water Resources Control Board, Regional Water Quality Control Board, the State Historic Preservation Office, and the Bay Conservation and Development Commission). Completion of California Department of Fish and Wildlife Incidental Take Permit compensation requirements for the San Joaquin Pipeline Project has not yet been achieved due to a lack of available mitigation bank credits for purchase. SFPUC is working with California Department of Fish and Wildlife staff and mitigation bank staff to identify an upcoming mitigation bank that will become available for credit purchases to satisfy the remaining outstanding credits by 2027.

Environmental Construction Compliance

During FY 2024-25, the WSIP environmental construction compliance staff, led by the Environmental Management Group, participated in construction of one San Francisco Regional Region project (Regional Groundwater Storage and Recovery Project).[1] Environmental construction compliance activities included contractor training; biological resources surveys and monitoring; stormwater management; coordination with San Francisco Planning Department and other resource agencies; compliance inspection activities; and implementation of required local, State, and Federal reporting procedures.

Environmental inspections on the Regional Groundwater Storage and Recovery Project – Phase 2A in FY 2024-25 were performed on a limited basis due to the infrequent need and thus were not formally tallied as in past years. The final environmental inspection for this project occurred in December 2024. There were no significant environmental compliance events during the year on this project.

The WSIP continues through this year to have no resource agency permit violations.

Environmental inspections for Regional Groundwater Storage and Recovery Project - Phase 2B will start in FY 2025-26.

Construction of the habitat compensation sites under the Bioregional Habitat Restoration Project in the Sunol and Peninsula Regions is complete. In addition, on-site revegetation

[1] As reported in FY 2023-24, the construction contract for the Alameda Creek Recapture Project in the Sunol Region project was terminated. As such, Environmental Inspections on this project have been suspended.

continued on WSIP project sites in areas that were only temporarily affected by construction, as required by CEQA mitigation measures and resource agency permits. As reported last year, on-site revegetation was completed at Crystal Springs/San Andreas Transmission Upgrade, but the project permits require continued long-term site monitoring and as-needed remedial action to prevent the removed invasive tree species from reestablishing. Revegetation activities will also continue next year at the Calaveras Dam Replacement Project and Lower Crystal Springs Dam Stilling Basin Connecting Channel projects. These are the remaining three WSIP projects with ongoing on-site revegetation requirements. Revegetation activities were initially performed under the Vegetation Restoration of WSIP Post Construction Sites Project (CUW 38803) and are now continuing under Water Enterprise operations.

2.2 Public Outreach Program

The Communications and Public Outreach Teams continued to build public awareness and support for the WSIP and its projects in FY 2024-25.

Tours

Tours are a tremendous resource to educate stakeholders about our projects. Escorted tours of our local, regional, and Sierra Nevada systems include portions devoted to the Water System Improvement Program. Board members and staff of the Bay Area Water Supply and Conservation Agency (BAWSCA), members of the Revenue Bond Oversight Committee, Civil Grand Jury, and local elected officials' offices have attended past system tours and observed completed Water System Improvement Program projects and facilities.

Continued Project Promotion on sfpuc.gov

The WSIP Communications Team continued to create and update a new suite of WSIP project pages as part of the new SFPUC website: SFPUC.gov/construction. These project updates include streamlined pages that highlight the WSIP projects and their benefits.

Government Relations – Regional Groundwater Project

The WSIP Communications Team continued to act as liaison between the Regional Groundwater Storage and Recovery Project team and the neighborhoods and municipalities in which the groundwater wells are located regarding access and construction issues.

Industry Awards

The WSIP program has received 66 industry awards since 2010.

3.0 LEVEL OF SERVICE (LOS) GOALS

3.1 WSIP Goals and Objectives

Table 3-1 provides a summary of the WSIP goals and objectives that were included in the Programmatic Environmental Impact Report for the WSIP that was adopted and approved in 2008. On November 28, 2023, the SFPUC Commission approved Amended and Updated Water Enterprise LOS Goals and Objectives. The previous LOS Goals and Objectives that are listed below are still the fundamental goals for the remaining WSIP projects. These goals have been maintained and expanded, and a few new and more detailed objectives have been added that are listed in Table 3-2 below. The Water Enterprise LOS Goals and Objectives have continued to be foundational for prioritizing capital program needs and defining project-level performance criteria.

Table 3-1: WSIP Goals and Objectives

Program Goal	System Performance Objective
WATER QUALITY *Maintain high water quality*	• *Design improvements to meet current and foreseeable future federal and state water quality requirements.* • *Provide clean, unfiltered water originating from Hetch Hetchy Reservoir and filtered water from local watersheds.* • *Continue to implement watershed protection measures.*
SEISMIC RELIABILITY *Reduce vulnerability to earthquakes*	• *Design improvements to meet current seismic standards.* • *Deliver basic service to the three regions in the service area (East/South Bay, Peninsula, and San Francisco) within twenty-four (24) hours after a major earthquake. Basic service is defined as average winter-month usage, and the performance objective for design of the regional system is 229 mgd. The performance objective is to provide delivery to at least 70 percent of the turnouts in each region, with 104, 44, and 81 mgd delivered to the East/South Bay, Peninsula, and City of San Francisco, respectively.* • *Restore facilities to meet average-day demand of up to 300 mgd within thirty (30) days after a major earthquake.*
DELIVERY RELIABILITY *Increase delivery reliability and improve ability to maintain the system*	• *Provide operational flexibility to allow planned maintenance shutdown of individual facilities without interrupting customer service.* • *Provide operational flexibility to minimize the risk of service interruption due to unplanned facility upsets or outages.* • *Provide operational flexibility and system capacity to replenish local reservoirs as needed.* • *Meet the estimated average annual demand of up to 300 mgd under the conditions of one planned shutdown of a major facility for maintenance concurrent with one unplanned facility outage due to a natural disaster, emergency or facility failure/upset.*

Program Goal	System Performance Objective
WATER SUPPLY *Meet customer water needs in non-drought and drought periods*	• *Meet an average annual water demand of 265 mgd from the SFPUC watersheds for retail and wholesale customers during non–drought years for system demands through 2019.* • *Meet dry-year delivery needs through 2019 while limiting rationing to a maximum 20 percent system-wide reduction in water service during extended droughts.* • *Diversify water supply options during non-drought and drought periods.* • *Improve use of new water sources and drought management, including groundwater, recycled water, conservation, and transfers.*
SUSTAINABILITY *Enhance sustainability in all system activities.*	• *Manage natural resources and physical systems to protect watershed ecosystems.* • *Meet, at a minimum, all current and anticipated legal requirements for protection of fish and wildlife habitat.* • *Manage natural resources and physical systems to protect public health and safety.*
COST-EFFECTIVENESS *Achieve a cost-effective, fully operational system*	• *Ensure cost-effective use of funds.* • *Maintain gravity-driven system.* • *Implement regular inspection and maintenance program for all facilities.*

Note that the first four goals, Water Quality, Seismic Reliability, Delivery Reliability, and Water Supply, are the goals that are used to determine project design criteria. The last two goals, Sustainability and Cost-Effectiveness, are overarching program goals that are not applied to specific criteria at the project level. Thus, these last two goals are infrequently referred to in project and program documents.

3.2 Progress Towards Meeting LOS Goals

The scope of the WSIP is based on the first four LOS goals described above – Seismic Reliability, Delivery Reliability, Water Quality, and Water Supply. Each project that reaches construction substantial completion contributes to increasing the overall reliability of the system and achieving progress towards meeting the LOS goals. The SFPUC remains committed to achieving all the LOS goals established for the system.

Table 3-4 lists the projects with their individual contributions to LOS goals and indicates which projects have been substantially completed. This tabulation demonstrates the progress that has been achieved in the WSIP toward meeting these goals. As of the end of FY2024-25, forty-one (41) of the forty-three (43) Regional WSIP projects with specific LOS goals have achieved their LOS goals and objectives. The other nine (9) Regional WSIP projects (Support projects and WSIP Closeout projects) do not have specific LOS goals.

Table 3-4: Progress Towards Meeting LOS Goals

Project No.	Project Name / Construction Contract	Actual / Approved Substantial Completion Date	LOS Goals (P =Primary, S =Secondary)				Actual Operational Service Start	Construction Progress Toward LOS Goals
			Water Quality	Seismic Reliability	Delivery Reliability	Water Supply		
San Joaquin Projects								
CUW36401	Lawrence Livermore Water Quality Improvement *(Completed)*	08/31/10	P				08/31/10	100%
CUW37301	San Joaquin Pipeline System *(Completed)* (A) HH935A Crossovers (B) HH935B Western Segment (C) HH935C Eastern Segment	(A) 01/06/12 (B) 05/27/13 (C) 06/21/13			P		(A) 01/06/12 (B) 05/27/13 (C) 06/21/13	100%
CUW37302	Rehabilitation of Existing San Joaquin Pipelines (Roselle Crossover; *Completed*)	05/13/11			P		05/13/11	100%
CUW38401	Tesla Treatment Facility *(Completed)* (A) DB116 Tesla Treatment Facility Design-Build Contract (B) HH953 Tesla Portal Protection	(A) 06/24/11 (B) 08/05/13	P	S	S		(A)06/24/11 (B)08/05/13	100%
Sunol Valley Projects								
CUW35201	Alameda Creek Recapture	11/18/22				P		0%
CUW35501	Standby Power Facilities - Various Locations *(Completed)* (A) WD-2553 East Bay - Standby Power Facilities (B) WD-2511 Peninsula - Standby Power Facilities	(A) 09/11/08 (B) 04/15/10		P	S		(A)09/11/08 (B)04/15/10	100%
CUW35901	New Irvington Tunnel *(Completed)*	09/19/15		S	P		02/27/15	100%
CUW35902	Alameda Siphon #4 *(Completed)*	12/16/11		P	S		12/16/11	100%

Project No.	Project Name / Construction Contract	Actual / Approved Substantial Completion Date	LOS Goals (P =Primary, S =Secondary)				Actual Operational Service Start	Construction Progress Toward LOS Goals
			Water Quality	Seismic Reliability	Delivery Reliability	Water Supply		
CUW37001	Pipeline Repair & Readiness Improvements *(Completed)* (A) WD-2530 Phase A 8 Pipe Storage Sites (B) WD-2530 Phase B Pipe Rolling Machine Facility @ Sunol Yard	(A) 02/09/07 (B) 07/14/08		P	S		(A)02/09/07 (B)07/14/08	100%
CUW37401	Calaveras Dam Replacement *(Completed)* (A) WD-2551 Calaveras Dam Replacement (B) WD-2729 Alameda Creek Diversion Dam	(A) 04/12/19 (B) 02/15/19		S	P	S	(A) 04/12/19 (B) 02/15/19	(A) 100% (B) 100%
CUW37402	Calaveras Reservoir Upgrades *(Completed)*	10/06/05	P				10/06/05	100%
CUW37403	San Antonio Backup Pipeline *(Completed)*	12/31/14			P		12/31/14	100%
CUW38101	SVWTP Expansion & Treated Water Reservoir *(Completed)*	05/17/13	P		P		05/17/13	100%
CUW38601	San Antonio Pump Station Upgrade *(Completed)*	06/30/11			P		06/30/11	100%
Bay Division Projects								
CUW35301	BDPL Nos. 3&4 Crossover/ Isolation Valves (*Completed)*	11/15/07		P			11/15/07	100%
CUW35302	Seismic Upgrade of BDPL Nos. 3 & 4 (*Completed)*	10/26/15		P			06/20/14	100%
CUW36301	SCADA System - Phase II *(Completed)*	11/29/10			P		11/29/10	100%
CUW36801	BDPL Reliability Upgrade - Tunnel *(Completed)*	05/20/15		P	S		10/15/14	100%
CUW36802	BDPL Reliability Upgrade – Pipeline *(Completed)* (A) WD-2541 East Bay (B) WD-2542 Peninsula (C) WD-2665 Cordilleras	(A) 12/09/11 (B) 06/13/12 (C) 03/05/13		P	S		(A) 12/09/11 (B) 06/13/12 (C) 03/05/13	100%
CUW36803	BDPL Reliability Upgrade - Relocation of BDPL Nos. 1 & 2 *(Completed)*	05/28/10			P		05/28/10	100%
CUW38001	BDPL Nos. 3 & 4 - Crossovers *(Completed)*	08/15/12		P	S		08/15/12	100%
CUW38901	SFPUC/EBMUD Intertie *(Completed)*	09/07/07			P		09/07/07	100%
CUW39301	BDPL No. 4 Condition Assessment PCCP Sections *(Completed)*	02/06/09		P	S		02/06/09	100%
Peninsula Projects								
CUW35401	Lower Crystal Springs Dam Improvements *(Completed)*	11/20/11			P	S	11/20/11	100%
CUW35601	New Crystal Springs Bypass Tunnel (*Completed)*	07/14/11		P	S		07/14/11	100%

Project No.	Project Name / Construction Contract	Actual / Approved Substantial Completion Date	LOS Goals (P =Primary, S =Secondary)				Actual Operational Service Start	Construction Progress Toward LOS Goals
			Water Quality	Seismic Reliability	Delivery Reliability	Water Supply		
CUW35701	Adit Leak Repair - Crystal Springs/Calaveras *(Completed)*	11/30/07			P		11/30/07	100%
CUW36101	Pulgas Balancing – Inlet / Outlet Work *(Completed)*	02/02/06	P		S		02/02/06	100%
CUW36102	Pulgas Balancing - Discharge Channel Modifications *(Completed)*	10/23/09			P		10/23/09	100%
CUW36103	Pulgas Balancing - Structural Rehabilitation & Roof Replacement *(Completed)*	07/26/11	P		S		07/26/11	100%
CUW36105	Pulgas Balancing - Modifications of Existing Dechloramination Facility *(Completed)*	08/27/12	P		S		08/27/12	100%
CUW36501	Cross Connection Controls *(Completed)*	11/26/08	P				11/26/08	100%
CUW36601	HTWTP Short-Term Improvements - Demo Filters *(Completed)*	01/11/06		P	S		01/11/06	100%
CUW36603	HTWTP Short-Term Improvements - Coagulation & Flocculation/Remaining Filters *(Completed)*	12/21/09		P	S		12/21/09	100%
CUW36701	HTWTP Long -Term Improvements *(Completed)*	09/08/15		P	S		09/08/15	100%
CUW36702	Peninsula Pipelines Seismic Upgrade *(Completed)*	10/30/15		P			10/30/15	100%
CUW36901	Capuchino Valve Lot Improvements *(Completed)*	02/14/08			P		02/14/08	100%
CUW37101	Crystal Springs/San Andreas Transmission Upgrade *(Completed)*	06/30/14		P	S		09/02/14	100%
CUW37801	Crystal Springs Pipeline No. 2 Replacement *(Completed)*	01/31/13		P	S		01/31/13	100%
CUW37901	San Andreas Pipeline No. 3 Installation *(Completed)*	03/29/11		P	S		03/29/11	100%
CUW39101	Baden & San Pedro Valve Lots Improvements *(Completed)*	03/31/11		P	S		03/31/11	100%
San Francisco Regional Projects								
CUW30103	Regional Groundwater Storage and Recovery (A) WD-2600 Test Well Drilling (B) WD-2668 Regional Groundwater Storage and Recovery (C) Regional Groundwater Storage and Recovery (Phase 2A) (D) Regional Groundwater Storage and Recovery (Phase 2B)	(A) 07/23/12 (B) 12/31/17 (C) 12/22/23 (D) 10/31/25				P	(A) 07/23/12 (B) 07/27/22	(A) 100% (B) 100% (C) 91% (D) 5%

Project No.	Project Name / Construction Contract	Actual / Approved Substantial Completion Date	LOS Goals (P =Primary, S =Secondary)				Actual Operational Service Start	Construction Progress Toward LOS Goals
			Water Quality	Seismic Reliability	Delivery Reliability	Water Supply		
CUW35801	Sunset Reservoir - North Basin *(Completed)*	09/19/08		P	S		09/19/08	100%
CUW37201	University Mound Reservoir - North Basin *(Completed)*	05/25/11		P	S		05/25/11	100%

1 Support projects and WSIP Closeout projects are not listed in the table above since these projects do not have specific Level of Service (LOS) goals.

Of the two remaining projects that contribute to LOS goals, Alameda Creek Recapture Project and Regional Groundwater Storage and Recovery Project, one was in planning and the other in construction phase, respectively, at the end of the reporting period and forecasted to complete on schedule under the approved March 2024 Revised WSIP.

4.0 PROJECT SCHEDULES

As of June 30, 2025, the overall WSIP is forecast to be complete in June 2032, which is consistent with the current baseline schedule approved as part of the March 2024 Revised WSIP. The March 2024 Revised WSIP extended the overall approved completion date from February 1, 2027 to June 30, 2032. Any future proposed schedule changes would need to be noticed to and approved by the San Francisco Public Utilities Commission, in accordance with the requirements of AB1823.

4.1 Tracking and Controlling Project Schedules

The WSIP Management Team continues to pro-actively monitor and control program and project schedules. Detailed business processes, well defined procedures, and best practices are in place to support early identification of schedule issues and timely development of recovery plans to mitigate any forecast delays as required.

The WSIP uses best practices common in the industry and best available information to forecast dates at the time of publication of the WSIP Quarterly Reports. It is important to note that forecast dates can move each month based on the latest, best available data from the individual project teams (including information from the construction contractor in the field).

4.2 Project Schedule Forecast and Variances

The status of schedule forecasts and variances for WSIP Regional Projects is shown in Table 4-1 as of the end of FY 2024-25. The table provides the original 2005 baseline and the current approved completion dates for each project. Additionally, the current forecast completion date for each project is provided. As can be seen in the table, two (2) active Regional WSIP Projects are currently forecasted to be completed on schedule in accordance with the current approved completion dates. Other support projects that do not involve construction and the Program Management Project are forecasted to complete on schedule, with the exception of the Long-Term Mitigation Endowment, which is forecasted to be completed at the end of 2026. The approved project-level and phase-level schedules are included in Appendix A.

Table 4-1: Project Schedule Forecast and Variances

Project No.	Project Name	2005 Approved Completion	Current Approved Completion [1]	June 2025 Forecasted Completion	Schedule Variance (Calendar Days)
San Joaquin Region					
CUW36401	Lawrence Livermore Water Quality Improvement *(Completed)*	11/7/2011	7/31/2013	7/31/2013	-
CUW37301	San Joaquin Pipeline System *(Completed)*	3/25/2014	3/31/2016	3/31/2016	-
CUW37302	Rehabilitation of Existing San Joaquin Pipelines *(Completed)*	6/30/2014	10/31/2014	10/31/2014	-
CUW38401	Tesla Treatment Facility *(Completed)*	7/1/2011	1/30/2015	1/30/2015	-
CUW38701	Tesla Portal Disinfection Station *(Combined with CUW38401)*	9/2/2011	6/29/2007	6/29/2007	-
CUWSJI0101	WSIP Closeout - San Joaquin *(Completed*	-	3/31/2021	3/31/2021	-
Sunol Valley Region					
CUW35201	Alameda Creek Recapture Project	5/25/2012	6/30/2032	6/30/2032	-
CUW35501	Standby Power Facilities - Various Locations *(Completed)*	12/6/2010	12/22/2010	12/22/2010	-
CUW35901	New Irvington Tunnel (Completed)	9/17/2013	3/31/2018	3/31/2018	-
CUW35902	Alameda Siphon #4 *(Completed)*	4/14/2011	6/28/2013	6/28/2013	-
CUW37001	Pipeline Repair & Readiness Improvements *(Completed)*	3/30/2007	4/16/2009	4/16/2009	-
CUW37401	Calaveras Dam Replacement *(Completed)*	5/25/2012	3/31/2022	3/31/2022	-
CUW37402	Calaveras Reservoir Upgrades *(Completed)*	2/17/2006	7/28/2006	7/28/2006	-
CUW37403	San Antonio Backup Pipeline *(Completed)*	6/29/2012	6/30/2016	6/30/2016	-
CUW38101	SVWTP Expansion & Treated Water Reservoir *(Completed)*	7/9/2013	10/31/2014	10/31/2014	-
CUW38102	SVWTP Calaveras Road *(Eliminated)*	-	12/14/2007	12/14/2007	-
CUW38201	SVWTP Treated Water Reservoir *(Combined with CUW38101)*	12/21/2010	3/2/2007	3/2/2007	-

Project No.	Project Name	2005 Approved Completion	Current Approved Completion [1]	June 2025 Forecasted Completion	Schedule Variance (Calendar Days)
CUW38601	San Antonio Pump Station Upgrade *(Completed)*	12/12/2011	6/29/2012	6/29/2012	-
CUWSVI0101	WSIP Closeout - Sunol Valley *(Completed)*	-	12/31/2022	12/31/2022	-
Bay Division Region					
CUW35301	BDPL Nos. 3 & 4 Crossover/ Isolation Valves *(Completed)*	9/30/2008	7/31/2009	7/31/2009	-
CUW35302	Seismic Upgrade of BDPL Nos. 3 & 4 *(Completed)*	10/15/2012	7/30/2018	7/30/2018	-
CUW36301	SCADA System - Phase II *(Completed)*	2/24/2012	5/28/2013	5/28/2013	-
CUW36801	BDPL Reliability Upgrade / Tunnel *(Completed)*	1/31/2014	8/30/2016	8/30/2016	-
CUW36802	BDPL Reliability Upgrade - Pipeline *(Completed)*	1/31/2014	3/31/2016	3/31/2016	-
CUW36803	BDPL Reliability Upgrade - Relocation of BDPL Nos. 1 & 2 *(Completed)*	-	5/28/2010	5/28/2010	-
CUW38001	BDPL Nos. 3 & 4 Crossovers *(Completed)*	4/24/2013	6/30/2014	6/30/2014	-
CUW38901	SFPUC/EBMUD Intertie *(Completed)*	2/7/2007	3/20/2014	3/20/2014	-
CUW39301	BDPL No. 4 Condition Assessment PCCP Sections *(Completed)*	5/1/2008	2/6/2009	2/6/2009	-
CUWBDP0101	WSIP Closeout - Bay Division *(Completed)*	-	3/31/2021	3/31/2021	-
Peninsula Region					
CUW35401	Lower Crystal Springs Dam Improvements *(Completed)*	8/16/2011	12/28/2012	12/28/2012	-
CUW35601	New Crystal Springs Bypass Tunnel *(Completed)*	10/28/2010	8/17/2012	8/17/2012	-
CUW35701	Adit Leak Repair - Crystal Springs/Calaveras *(Completed)*	7/3/2008	7/31/2008	7/31/2008	-
CUW36101	Pulgas Balancing - Inlet/Outlet Work *(Completed)*	5/11/2006	5/11/2006	5/11/2006	-
CUW36102	Pulgas Balancing - Discharge Channel Modifications *(Completed)*	8/5/2013	7/30/2010	7/30/2010	-

Project No.	Project Name	2005 Approved Completion	Current Approved Completion [1]	June 2025 Forecasted Completion	Schedule Variance (Calendar Days)
CUW36103	Pulgas Balancing - Structural Rehabilitation and Roof Replacement *(Completed)*	1/29/2013	12/28/2012	12/28/2012	-
CUW36104	Pulgas Balancing - Laguna Creek Sedimentation *(Eliminated)*	-	12/31/2007	12/31/2007	-
CUW36105	Pulgas Balancing - Modifications of the Existing Dechloramination Facility *(Completed)*	-	3/20/2013	3/20/2013	-
CUW36501	Cross Connection Controls *(Completed)*	5/15/2009	4/30/2009	4/30/2009	-
CUW36601	HTWTP Short-Term Improvements (Demo Filters) *(Completed)*	7/3/2006	11/14/2006	11/14/2006	-
CUW36602	HTWTP Short-Term Improvements - Remaining Filters *(Combined with CUW36603)*	9/8/2010	2/22/2008	2/22/2008	-
CUW36603	HTWTP Short-Term Improvements - Coagulation & Flocculation/ Remaining Filters *(Completed)*	9/8/2010	7/28/2010	7/28/2010	-
CUW36701	HTWTP Long-Term Improvements *(Completed)*	4/8/2014	12/30/2016	12/30/2016	-
CUW36702	Peninsula Pipelines Seismic Upgrade *(Completed)*	-	7/6/2016	7/6/2016	-
CUW36901	Capuchino Valve Lot Improvements *(Completed)*	7/24/2009	8/19/2008	8/19/2008	-
CUW37101	Crystal Springs/San Andreas Transmission Upgrade *(Completed)*	4/1/2014	6/30/2015	6/30/2015	-
CUW37801	Crystal Springs Pipeline No. 2 Replacement *(Completed)*	4/27/2012	12/31/2014	12/31/2014	-
CUW37901	San Andreas Pipeline No. 3 Installation *(Completed)*	6/9/2011	8/30/2012	8/30/2012	-
CUW39101	Baden and San Pedro Valve Lots Improvements *(Completed)*	10/12/2011	3/29/2013	3/29/2013	-
CUWPWI0101	WSIP Closeout – Peninsula *(Completed)*	-	12/30/2021	12/30/2021	-
San Francisco Regional Region					
CUW30103	Regional Groundwater Storage and Recovery	2/27/2014	12/7/2027	12/7/2027	-
CUW35801	Sunset Reservoir - North Basin *(Completed)*	5/6/2009	9/10/2010	9/10/2010	-

Project No.	Project Name	2005 Approved Completion	Current Approved Completion [1]	June 2025 Forecasted Completion	Schedule Variance (Calendar Days)
CUW37201	University Mound Reservoir - North Basin *(Completed)*	3/10/2011	3/29/2013	3/29/2013	-
Support Projects					
CUW36302	System Security Upgrades *(Completed)*	-	4/19/2019	4/19/2019	-
CUW38801	Programmatic EIR *(Completed)*	6/20/2007	6/30/2009	6/30/2009	-
CUW38802	Bioregional Habitat Restoration	-	12/30/2027	12/30/2027	-
CUW38803	Vegetation Restoration of WSIP Construction Sites *(Completed)*	-	6/30/2016	6/30/2016	-
CUW38804	Long Term Mitigation Endowment	-	10/1/2024	12/24/2026	814
CUW39201	Program Management Project	6/29/2014	6/30/2032	6/30/2032	-
CUW39401	Watershed and Environmental Improvement Program *(Completed)*	6/28/2013	6/30/2022	6/30/2022	-

[1] Incorporates the March 2024 Revised WSIP schedule.

5.0 PROJECT BUDGETS

As of June 30, 2025, the forecasted overall WSIP total program cost (regional and local projects) is $4,792.8M, which is the same as the current Commission Approved Budget (March 2024 Revised WSIP). As of the end of FY 2024-25, the current forecasted remaining construction contingency is $5.6M, not including contingency budget reserved to cover the June 2025 forecasted construction change orders (approved, potential, and pending change orders) and anticipated trends on currently active construction contracts. In addition to the remaining contingency for active projects, there is currently $12.9M in the WSIP Director's Reserve to cover future potential project/program risks.

5.1 Tracking and Controlling Project Budgets

The WSIP Management Team pro-actively monitors and controls program and project budgets. The following business processes, procedures, and best practices are in place to allow for the identification of budget issues early and to ensure measures are taken to control potential cost increases whenever required.

Monthly Statusing and Monthly Progress Meetings

According to WSIP Procedures, PM5.05 (Monthly Statusing) and PM5.07 (Monthly Progress Meetings), WSIP project teams prepare monthly budget updates/forecasts for all project phases, and review and analyze them to identify cost issues and projected cost overruns at project completion. These updates allow for the measurement of performance against baseline. In quarterly standing review meetings, all current and projected cost overruns are discussed and evaluated, and project teams are expected to address the issues and come up with a plan to mitigate project variances.

Change Management

WSIP Procedure PM5.02 (Change Management) is used by the WSIP Management Team to control any scope changes that may cause cost overruns. According to this procedure, no project-level scope, budget, and/or schedule changes can be implemented without review and approval of the Change Control Board and the WSIP Director.

Management of Construction Costs

Construction cost changes are governed by the Contract General Conditions, Section 00700, Article 6 – Clarifications and Changes in the Work, together with the Supplementary Conditions, Section 00800, as applicable. The Contract requirements, together with the supporting CM Business Processes, CM Plan and CM Procedures, are enforced to ensure diligent and pro-active management of WSIP construction costs. Unlike the progress schedules, which are updated monthly, WSIP cost information is tracked and updated on a near-real-time basis in the construction management information system (CMIS). Construction progress invoices are processed monthly, and all actual costs are summed at the program, regional, and project levels.

The WSIP team controls and manages WSIP construction costs in a number of interlocking ways as follows:

- Quality checks on design in the Pre-construction Phase to minimize design errors and the potential for change orders and consequent cost increases during construction.
- Avoiding unnecessary changes during construction by eliminating discretionary changes not required for project functionality and requiring Change Control Board approval of all owner-requested changes over $50,000.
- Earliest possible identification and definition of possible impacts through a layered early identification process from Risks (potential events), Trends (likely impacts not yet formalized as change orders), and Potential Changes (actual, non-negotiated changes) all recorded and updated in the CMIS. This system provides early warning of potential or impending cost impacts with the possibility to mitigate, as well as forecast, likely construction completion costs.
- Periodic independent verification and validation of all active Risks, Trends, and Potential Change Orders by the Program CM to assure that forecasting is current and realistic.
- Mandatory preparation of Independent Cost Estimates by the project CM teams for all change orders over $75,000 assures that change order costs are rapidly assessed and accurately forecasted.
- Expedited decision making within the SFPUC to support rapid settlement of issues, thereby avoiding unnecessary delays and associated costs.
- An urgent and aggressive approach to change order negotiation, backed by Independent Cost Estimates for larger changes, resulting in equitable agreements executed rapidly to avoid compounding and/or protracting cost issues.
- A strong preference for early bi-lateral settlement of changes to keep the performance risk on Contractors.
- Issuance of unilateral changes when necessary to avoid interruptions to work in progress. Unilateral changes are controlled with detailed CM oversight, and by record keeping of Force Account work through daily reports to control associated costs until agreement on scope and quantum is reached.
- Use of Decision Ladders, Partnering, and Dispute Resolution Boards (DRBs) to avoid, mitigate, and settle construction issues and disputes before intractable and costly disputes arise.

Control of Remaining Delivery Costs

The WSIP Management Team, with the support of SFPUC upper management, has been taking the following actions in recent years to reduce and better control the remaining delivery costs of the WSIP:

- Implementing significant reductions in both City and consultant resources at the program and project levels in accordance with the WSIP Staff Transition Plan.

- Transitioning work from consultants to City staff to the extent feasible.
- Transitioning WSIP staff to other City and SFPUC Capital Programs as more WSIP projects get completed.
- Requesting final invoices/statements from consultants and other City departments immediately following completion of work to avoid further charges.
- Terminating cost codes for completed activities to avoid further project charges.
- Accelerating project closeout to minimize cost after construction completion.
- Establishing a Director's Reserve within each project that cannot be spent by project teams without explicit written approval of the WSIP Director upon formal request by the project team.

5.2 Project Budget Forecast and Variances

The status of cost forecasts for WSIP Regional Projects is shown in Table 5-1 as of the end of FY 2024-25. The Table provides the original 2005 baseline budget and the current approved budget for each project. Additionally, the current forecast cost for each project is provided. As can be seen in the table, all WSIP Regional Projects are currently forecasted to be completed on budget. Additional detail regarding the forecasts presented below may be found in the WSIP Quarterly Report for the 4th Quarter of FY 2024-25 (Appendix B).

Table 5-1: Project Budget Forecast and Variances

Project No.	Project Name	2005 Approved Cost	Current Approved Cost [1]	June 2025 Forecasted Cost	Cost Variance
San Joaquin Region					
CUW36401	Lawrence Livermore Water Quality Improvement *(Completed)*	$4,235,258	$4,198,247	$4,198,247	-
CUW37301	San Joaquin Pipeline System *(Completed)*	$352,732,000	$203,177,750	$203,177,750	-
CUW37302	Rehabilitation of Existing San Joaquin Pipelines *(Completed)*	$80,000,000	$21,168,797	$21,168,797	-
CUW38401	Tesla Treatment Facility *(Completed)*	$101,643,001	$113,225,331	$113,225,331	-
CUW38701	Tesla Portal Disinfection Station *(Combined with CUW38401)*	$20,731,270	$2,081,278	$2,081,278	-
CUWSJI0101	WSIP Closeout - San Joaquin *(Completed)*	-	$2,015,908	$2,015,908	-
Sunol Valley Region					
CUW35201	Alameda Creek Recapture Project	$18,809,304	$48,967,395	$48,967,395	-
CUW35501	Standby Power Facilities - Various Locations *(Completed)*	$9,949,735	$12,950,566	$12,950,566	-
CUW35901	New Irvington Tunnel *(Completed)*	$214,650,004	$339,945,523	$339,945,523	-
CUW35902	Alameda Siphon #4 *(Completed)*	$78,577,000	$64,730,538	$64,730,538	-
CUW37001	Pipeline Repair & Readiness Improvements *(Completed)*	$5,591,770	$5,178,466	$5,178,466	-
CUW37401	Calaveras Dam Replacement *(Completed)*	$256,511,407	$794,059,379	$794,059,379	-
CUW37402	Calaveras Reservoir Upgrades *(Completed)*	$1,740,055	$1,690,552	$1,690,552	-
CUW37403	San Antonio Backup Pipeline *(Completed)*	$7,677,000	$53,562,178	$53,562,178	-
CUW38101	SVWTP Expansion & Treated Water Reservoir	$133,108,002	$129,593,674	$129,593,674	-

Project No.	Project Name	2005 Approved Cost	Current Approved Cost [1]	June 2025 Forecasted Cost	Cost Variance
	(Completed)				
CUW38102	SVWTP Calaveras Road *(Eliminated)*	-	$34,654	$34,654	-
CUW38201	SVWTP Treated Water Reservoir *(Combined with CUW38101)*	$102,436,436	$5,056,596	$5,056,596	-
CUW38601	San Antonio Pump Station Upgrade *(Completed)*	$41,854,000	$12,886,140	$12,886,140	-
CUWSVI0101	WSIP Closeout - Sunol Valley *(Completed)*	-	$5,558,385	$5,558,385	-
Bay Division Region					
CUW35301	BDPL Nos. 3 & 4 Crossover/Isolation Valves *(Completed)*	$27,600,158	$27,045,626	$27,045,626	-
CUW35302	Seismic Upgrade of BDPL Nos. 3 & 4 *(Completed)*	$66,792,849	$70,524,332	$70,524,332	-
CUW36301	SCADA System - Phase II *(Completed)*	$36,098,999	$9,473,039	$9,473,039	-
CUW36801	BDPL Reliability Upgrade / Tunnel (*Completed)*	$572,022,634	$272,364,089	$272,364,089	-
CUW36802	BDPL Reliability Upgrade - Pipeline *(Completed)*	-	$216,795,625	$216,795,625	-
CUW36803	BDPL Reliability Upgrade - Relocation of BDPL Nos. 1 & 2 *(Completed)*	-	$3,046,981	$3,046,981	-
CUW38001	BDPL Nos. 3 & 4 Crossovers *(Completed)*	$36,616,911	$29,913,049	$29,913,049	-
CUW38901	SFPUC/EBMUD Intertie *(Completed)*	$8,598,851	$9,167,306	$9,167,306	-
CUW39301	BDPL No. 4 Condition Assessment PCCP Sections *(Completed)*	$2,000,000	$1,937,599	$1,937,599	-
CUWBDP0101	WSIP Closeout - Bay Division *(Completed)*	-	$3,322,156	$3,322,156	-

Project No.	Project Name	2005 Approved Cost	Current Approved Cost [1]	June 2025 Forecasted Cost	Cost Variance
Peninsula Region					
CUW35401	Lower Crystal Springs Dam Improvements *(Completed)*	$27,752,222	$34,860,072	$34,860,072	-
CUW35601	New Crystal Springs Bypass Tunnel *(Completed)*	$83,222,790	$81,435,610	$81,435,610	-
CUW35701	Adit Leak Repair - Crystal Springs/Calaveras *(Completed)*	$3,748,452	$2,787,322	$2,787,322	-
CUW36101	Pulgas Balancing - Inlet/Outlet Work *(Completed)*	$1,667,532	$1,765,938	$1,765,938	-
CUW36102	Pulgas Balancing - Discharge Channel Modifications *(Completed)*	$8,111,422	$2,910,007	$2,910,007	-
CUW36103	Pulgas Balancing - Structural Rehabilitation and Roof Replacement *(Completed)*	$36,712,846	$20,227,447	$20,227,447	-
CUW36104	Pulgas Balancing - Laguna Creek Sedimentation *(Eliminated)*	-	$505,127	$505,127	-
CUW36105	Pulgas Balancing - Modifications of the Existing Dechloramination Facility *(Completed)*	-	$5,391,353	$5,391,353	-
CUW36501	Cross Connection Controls *(Completed)*	$6,111,779	$3,948,727	$3,948,727	-
CUW36601	HTWTP Short-Term Improvements (Demo Filters) *(Completed)*	$4,381,375	$3,067,903	$3,067,903	-
CUW36602	HTWTP Short-Term Improvements - Remaining Filters *(Combined with CUW36603)*	$16,079,372	$1,424,510	$1,424,510	-
CUW36603	HTWTP Short-Term Improvements - Coagulation & Flocculation/ Remaining Filters *(Completed)*	$9,741,617	$18,604,937	$18,604,937	-

Project No.	Project Name	2005 Approved Cost	Current Approved Cost [1]	June 2025 Forecasted Cost	Cost Variance
CUW36701	HTWTP Long-Term Improvements *(Completed)*	$167,570,000	$273,894,602	$273,894,602	-
CUW36702	Peninsula Pipelines Seismic Upgrade (Completed)	-	$38,779,772	$38,779,772	-
CUW36901	Capuchino Valve Lot Improvements (Completed)	$3,573,782	$2,803,153	$2,803,153	-
CUW37101	Crystal Springs/San Andreas Transmission Upgrade *(Completed)*	$148,582,655	$189,649,573	$189,649,573	-
CUW37801	Crystal Springs Pipeline No. 2 Replacement *(Completed)*	$93,926,000	$56,070,509	$56,070,509	-
CUW37901	San Andreas Pipeline No. 3 Installation *(Completed)*	$42,029,941	$27,519,716	$27,519,716	-
CUW39101	Baden and San Pedro Valve Lots Improvements *(Completed)*	$47,319,999	$24,993,478	$24,993,478	-
CUWPWI0101	WSIP Closeout – Peninsula *(Completed)*	-	$13,560,086	$13,560,086	-
San Francisco Regional Region					
CUW30103	Regional Groundwater Storage and Recovery	$39,233,443	$158,350,433	$158,350,433	-
CUW35801	Sunset Reservoir - North Basin *(Completed)*	$61,975,999	$64,270,725	$64,270,725	-
CUW37201	University Mound Reservoir - North Basin *(Completed)*	$102,882,610	$43,266,312	$43,266,312	-
Support Projects					
CUW36302	System Security Upgrades *(Completed)*	-	$14,397,894	$14,397,894	-
CUW38801	Programmatic EIR *(Completed)*	$9,271,001	$10,734,567	$10,734,567	-
CUW38802	Bioregional Habitat Restoration	-	$93,341,983	$93,341,983	-

Project No.	Project Name	2005 Approved Cost	Current Approved Cost [1]	June 2025 Forecasted Cost	Cost Variance
CUW38803	Vegetation Restoration of WSIP Construction Sites *(Completed)*	-	$2,111,546	$2,111,546	-
CUW38804	Long Term Mitigation Endowment		$12,000,000	$12,000,000	-
CUW39201	Program Management Project	$52,076,000	$121,642,048	$121,642,048	-
CUW39401	Watershed Environmental Improvement Program *(Completed)*	$20,000,000	$20,079,150	$20,079,150	-

[1] Incorporates the March 2024 Revised WSIP Baseline.

6.0 ACHIEVEMENTS AND CHALLENGES

WSIP implementation is organized geographically to make program delivery more manageable and to take into account project adjacency issues. This section highlights the achievements and challenges of the Program's five regional teams.

6.1 San Joaquin Region

The status of all regional projects in the San Joaquin Region as of the end of FY 2024-25 is summarized in Table 6-1.

Table 6-1: Status of San Joaquin Regional Projects as of June 30, 2025

Project/Contract Name	Status
Lawrence Livermore Water Quality Improvement	Completed
SJPL System – Crossovers	Completed
SJPL System - Western Segment	Completed
SJPL System - Eastern Segment	Completed
Rehabilitation of Existing SJPLs - Roselle	Completed
Tesla Treatment Facility	Completed
Tesla Portal Protection	Completed
WSIP Closeout - San Joaquin	Completed

All of the San Joaquin Region's eight (8) projects were completed in prior reporting periods.

6.2 Sunol Valley Region

The status of all regional projects in the Sunol Valley Region as of the end of FY 2024-25 is summarized in Table 6-2.

Table 6-2: Status of Sunol Valley Regional Projects as of June 30, 2025

Project/Contract Name	Status
Alameda Creek Recapture Project	Planning
Standby Power Facilities - Various Locations	Completed
New Irvington Tunnel	Completed
Alameda Siphon #4	Completed
Pipeline Repair & Readiness Improvements	Completed
Calaveras Dam Replacement	Completed
Calaveras Reservoir Upgrades	Completed
San Antonio Backup Pipeline	Completed
SVWTP Expansion & Treated Water Reservoir	Completed
San Antonio Pump Station Upgrade	Completed
WSIP Closeout - Sunol Valley	Completed

As of June 30, 2025, ten (10) projects have been completed and one (1) project was in planning.

Alameda Creek Recapture Project

Achievements

During the past year, a second phase was added to the project. Phase A: WD-2825R Alameda Creek Recapture Project construction contract was terminated and closed out. The project closeout and dossier were completed. Phase B: the project team reviewed past alternatives, investigated pump stations in operation within the mining industry, revisited the project needs and level of service for the facility and developed new alternatives for the Alternative Analysis Report. The quarry operator and geotechnical consultant developed and submitted an updated erosion repair plan for the pond banks for review. The project team and geotechnical consultant started reviewing the repair plan.

Challenges

Future challenges as the project requirements are better defined will be identified and tracked. Any potential future changes to project scope, schedule or budget will be appropriately forecasted, publicly noticed, and brought to the Commission for approval, and any additional budget requirements will be requested in a future SFPUC 10-Year Capital Plan budget process.

6.3 Bay Division Region

The status of all regional projects in the Bay Division Region as of the end of FY2024-25 is summarized in Table 6-3.

Table 6-3: Status of Bay Division Regional Projects as of June 30, 2025

Project/Contract Name	Status
BDPL Nos. 3 & 4 Crossover/Isolation Valves	Completed
Seismic Upgrade of BDPL Nos. 3 & 4	Completed
SCADA System - Phase II	Completed
BDPL Reliability Upgrade – Tunnel (Bay Tunnel)	Completed
BDPL Reliability Upgrade - Pipeline	Completed
BDPL Reliability Upgrade - Relocation of BDPL Nos. 1 & 2	Completed
BDPL Nos. 3 & 4 Crossovers	Completed
SFPUC/EBMUD Intertie	Completed
BDPL No. 4 Condition Assessment PCCP Sections	Completed
BDPL Nos. 3 & 4 Crossover/Isolation Valves	Completed
WSIP Closeout - Bay Division	Completed

All of the Bay Division Region's eleven (11) projects were completed in previous reporting periods.

6.4 Peninsula Region

The status of all regional projects in the Peninsula as of the end of FY2024-25 is summarized in Table 6-4.

Table 6-4: Status of Peninsula Regional Projects as of June 30, 2025

Project/Contract Name	Status
Lower Crystal Springs Dam Improvements	Completed
New Crystal Springs Bypass Tunnel	Completed
Adit Leak Repair - Crystal Springs/Calaveras	Completed
Pulgas Balancing - Inlet/Outlet Work	Completed
Pulgas Balancing - Discharge Channel Modifications	Completed
Pulgas Balancing - Structural Rehabilitation and Roof Replacement	Completed
Pulgas Balancing - Modifications of the Existing Dechloramination Facility	Completed
Cross Connection Controls	Completed
HTWTP Short-Term Improvements - Demo Filters	Completed
HTWTP Short-Term Improvements - Coagulation & Flocculation/ Remaining Filters	Completed
HTWTP Long-Term Improvements	Completed
Peninsula Pipelines Seismic Upgrade (Phases 1 / 2 / 3)	Completed
Capuchino Valve Lot Improvements	Completed
Crystal Springs/San Andreas Transmission Upgrade	Completed
Crystal Springs Pipeline No. 2 Replacement	Completed
San Andreas Pipeline No. 3 Installation	Completed
Baden and San Pedro Valve Lots Improvements	Completed
WSIP Closeout – Peninsula Region	Completed

All of the Peninsula Region's eighteen (18) projects were completed in previous reporting periods.

6.5 San Francisco (Regional) Region

The status of all regional projects in the San Francisco Region as of the end of FY 2024-25 is summarized in Table 6-5.

Table 6-5: Status of San Francisco Regional Projects as of June 30, 2025

Project/Contract Name	Status
Regional Groundwater Storage & Recovery	(A) Phase 1 Test Wells: Completed (B) Phase 1 Construction: Completed (C) Phase 2A: Construction: 100% Complete[1] (D) Phase 2B: Construction: 3%
Sunset Reservoir - North Basin	Completed
University Mound Reservoir - North Basin	Completed

1. Status of construction percentage complete is based on original contract cost plus approved cost change orders.

As of June 30, 2025, only one (1) of the three San Francisco Regional projects is still active, the Regional Groundwater Storage and Recovery Project, which includes four construction contracts. The first and second were completed in an earlier reporting period; the third achieved Substantial Completion this reporting period and closeout is in progress; the fourth started construction on June 24, 2024, but the contractor will not fully mobilize until all encroachment permits, easements and access agreements are in place.

Regional Groundwater Storage and Recovery

Achievements

The remaining project, Regional Groundwater Storage and Recovery, is split into two phases, and as noted above, four construction contracts, identified under this project as Contracts A, B, C, and D. Contract A of Phase 1, to build test wells, was completed in a previous reporting period. For Phase 1 Contract B, to build thirteen (13) production wells and treatment facilities, construction was completed in a previous reporting period. The remaining work under Phase 1 includes providing power to a remote analyzer for the Treasure Island Well Station and installing fencing and gates at several well stations. For the Treasure Island Well Station remote analyzer, a new easement is needed for PG&E to provide power, but the property owner where the easement is needed has been uncooperative and negotiations are continuing. Design has been completed for some fencing and gates and construction costs are being negotiated with a Job Order Contracting (JOC) contractor.

For Phase 2A (Contract C), Substantial Completion was achieved this reporting period, but the contractor damaged a flowmeter and is working to provide repairs.

For Phase 2B (Contract D), the project team is continuing to work with various agencies to obtain easements, encroachment permits and access agreements before construction can begin. For the Linear Park Well and Treatment Facility, a Conceptual Engineering Report was finalized for the raw water ammonia removal system, and design is proceeding.

Challenges

For Phase 2A (Contract C) WD-2878A, repair of the damaged flowmeter may be delayed due to supply chain issues and vendor availability, but the target for final completion is

winter 2025. For Phase 2B (Contract D), securing encroachment permits, easements and access agreements has delayed the contractor from mobilizing, but these permits and agreements may be in place for the contractor to mobilize in the late summer of 2025.

7.0 RISK MANAGEMENT

7.1 WSIP Risk Management Protocol

Risk registers for a project's construction contract are developed with the project team, comprised of the project construction manager, operations analyst, project engineer, QA inspector, communications/public outreach personnel, environmental personnel, safety personnel, and scheduler. These individuals identify the specific risks to the project, and then meet with the risk analyst/risk manager in order to provide a qualitative assessment of all risks, propose mitigation methods to prevent risks from becoming realized, and address the potential impacts from the risks should they materialize. Once the qualitative assessment of the risk register is completed, a smaller team, consisting of the project manager, project engineer, and project construction manager, reviews each individual risk thoroughly in order to identify the probability of occurrence along with the probable cost and schedule impacts. Once the risk register has been finalized with these values, meetings to update the risk register occur between the project construction manager, project manager, and risk analyst on a monthly basis.

As it would generally be overly conservative to plan for 100% of future potential risks, the SFPUC has elected to use the "80% confidence level" as a relatively conservative estimate of future cost risk for the WSIP. Namely, the "80% confidence level" represents the amount of cost for which one can be 80% confident that future cost risk will not exceed this level. The "80% confidence level" is determined with the use of the Active Risk Manager (ARM) software in which the software takes the identified project/program risks and performs a Monte Carlo simulation. This takes the likelihood of each risk along with the minimum, most likely, and maximum cost of each risk and performs 1000 iterations of the risk calculation to produce probable cost impact of the risks for the project. This probable cost impact can be expressed in terms of confidence level (confidence level vs. probable cost curve).

7.2 Status of Risk to Active Construction Projects

During FY 2024-25, the WSIP team continued to implement and refine its Risk Management Program. A total of nine (9) construction risks were closed during the reporting period. In addition, the risk register for the following construction contract was added with twelve (12) new risks:

- Regional Groundwater Storage and Recovery Phase 2B

This brought the total number of active construction risk registers and the total number of individual risks managed through ARM as of the end of the reporting period to two (2) and fifteen (15), respectively.

Whenever new risk registers are developed, cost impact estimates are prepared to quantify each risk. Risk assessment workshops are held with the project teams responsible to update and track the risk registers. Table 7-1 summarizes the WSIP's active construction risk registers loaded into the ARM software application as of the end of the reporting period.

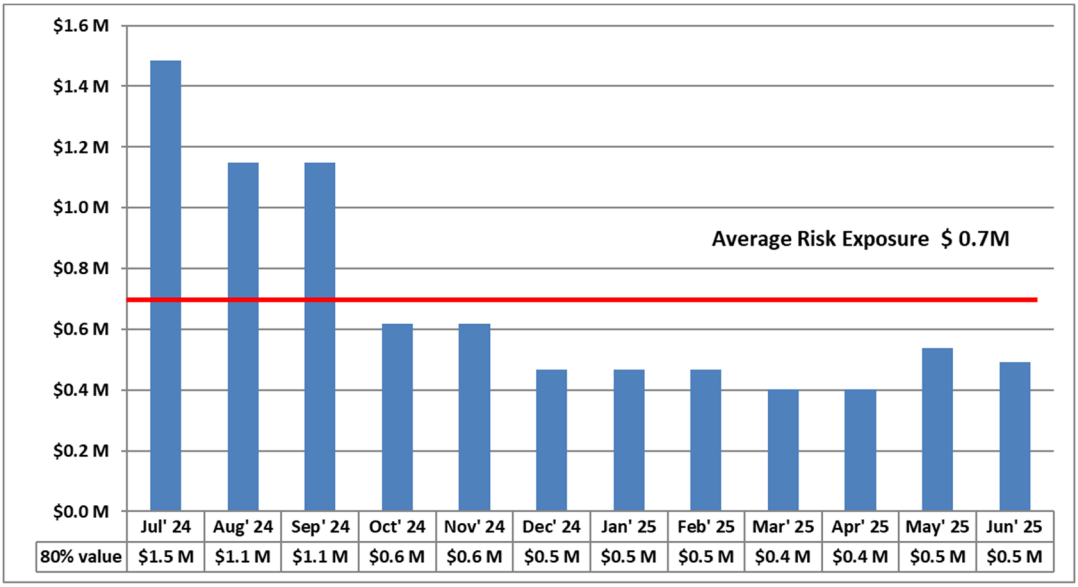
Table 7-1: Summary of Active Construction Risk Registers as of June 30, 2025

Construction Contract[1]	Date[2]	No. of Risks[3]	Risk Value ($M)[4]
Regional Groundwater Storage and Recovery Phase 2A	June-22	3	0.1
Regional Groundwater Storage and Recovery Phase 2B	Oct-24	12	0.4
Cumulative active risks @ 80% confidence level		**15**	**0.5**

1. Excludes WSIP Local Region, Bioregional Habitat Restoration, and Security contracts.
2. Date when construction risk register was first created and loaded in ARM.
3. Number of individual risks recorded in register as of June 30, 2025.
4. Total value of all risks at eighty percent (80%) confidence level as of June 30, 2025.

Figure 7-1 shows the reporting period began with a cumulative risk exposure at the 80% confidence level of $1.5M in July 2024, which is the same risk exposure as in June 2024. The risk exposure decreased in August 2024 to $1.1M due to a decrease in risk probabilities for three risks in the Regional Groundwater Storage and Recovery Project – Phase 2A. The risk exposure decreased further in October 2024 from $1.1M to $0.6M due to a decrease in risk probabilities for many risks in the Regional Groundwater Storage and Recovery Project – Phase 2A, despite adding risks for the new contract for Regional Groundwater Storage and Recovery Project – Phase 2B. The risk exposure decreased again in December 2024 to $0.5M due to additional risk probabilities reductions in the Regional Groundwater Storage and Recovery Project – Phase 2A. The risk exposure then decreased in March 2025 to $0.4M due to the expiration of a risk the Regional Groundwater Storage and Recovery Project – Phase 2A. The risk exposure increased in May 2025 to $0.5M due to the increase in costs for Regional Groundwater Storage and Recovery Project – Phase 2B. Finally, the risk exposure decreased slightly for the Regional Groundwater Storage and Recovery Project – Phase 2A due to the expiration of 7 risks in June 2025, with a minimal impact to the overall WSIP risk exposure as those were already very small risks.

Figure 7-1: WSIP 80% Confidence Level Construction Risks for FY 2024-25



The WSIP Risk Management System ranks construction contract risks based on a combination of the likelihood of occurrence and the potential cost impact to the SFPUC should they occur. Table 7-2 provides a description of the program's 10 largest risks.

Mitigation plans are developed for each risk identified in the risk register for active construction projects. Mitigation plans may change over the life of the risk until the risk is closed due to not having occurred. Action items derived from the risk mitigation plans are individually assigned to construction management (CM) team members and tracked in the ARM software through completion.

Eight (8) of the current top ten risks for active WSIP construction contracts, based on likelihood of occurrence and potential cost impact, belong to the Regional Groundwater Storage and Recovery Project – Phase 2A and two (2) belong to the Regional Groundwater Storage and Recovery Project – Phase 2B. The current highest risk relates to Acquiring Permits. The second highest risk pertains to unexpected challenges during startup and testing. The third highest risk relates to scope changes. Table 7-2 below lists the top ten risks along with their cost impacts and mitigation strategies.

Table 7-2: Top 10 WSIP Risks as of June 30, 2025

Project	Risk Description	Occurrence Probability	Risk Value[1] ($K)	Mitigation
Regional Groundwater Storage and Recovery Phase 2B	Acquiring Permits (BART, PG&E, SSF, Kaiser, Flood Resiliency)	90%	200	Proactive Coordination.
Regional Groundwater Storage and Recovery Phase 2B	Unexpected challenges during startup and testing	70%	60	Start the startup and testing plan early.
Regional Groundwater Storage and Recovery Phase 2B	Scope changes	70%	75	Acquire earlier direction from WE and management.
Regional Groundwater Storage and Recovery Phase 2B	PG&E Startup Delays	70%	75	Start the startup and testing plan early.
Regional Groundwater Storage and Recovery Phase 2B	Encountering Unknown Utilities	30%	40	Obtain early submission from the contractor for long lead items.
Regional Groundwater Storage and Recovery Phase 2B	Cal Water not ready to accept equipment to operate and maintain upon turnover	30%	40	Contractor to secure equipment.

Project	Risk Description	Occurrence Probability	Risk Value[1] ($K)	Mitigation
Regional Groundwater Storage and Recovery Phase 2B	Security issues resulting in vandalism and/or loss of stored equipment	30%	50	Coordination with WS&TD for staff augmentation/ service contract.
Regional Groundwater Storage and Recovery Phase 2A	Possible delays in delivery of critical equipment due to supply chain issues	25%	50	Coordination and early request from WS&TD
Regional Groundwater Storage and Recovery Phase 2A	Unexpected challenges during startup and testing	40%	66	Coordination and early request from WS&TD
Regional Groundwater Storage and Recovery Phase 2A	Damage to existing equipment during pump work offsite	30%	50	JOC contractor to build the bulkhead to protect equipment

1. Most likely cost of each risk. The lowest and highest costs of each risk are also recorded in ARM.

8.0 PROGRAM DELIVERY STRATEGY FOR CLOSEOUT PHASE

At 99.3 percent completion as of June 30, 2025 and with 41 of 43 regional WSIP projects with specific Level of Service (LOS) goals and objectives currently in service, the overall WSIP is in the Closeout Phase. Nevertheless, there are still two active projects with potential current or future risks that, should these risks be realized, could have a negative schedule and/or budget impact to the program. Therefore, it is essential to continue to implement the best practices that have helped to make the WSIP successful to date, and to continue to look for opportunities to become increasingly efficient as the SFPUC strives towards bringing the WSIP to successful completion.

8.1 Plan to Ensure Ongoing and Increasing Cost-Efficient Practices

As has been the practice since the program was established, the WSIP Director will continue to meet with project teams on a rotation at least quarterly in order to review status of every project. As a result of these meetings, staffing adjustments are made in real time to ensure project teams work within the existing budgets, and where appropriate, budget forecasts and resources are adjusted as necessary to help ensure successful completion of every project. Staffing levels will continue to be tracked and appropriate staff adjustments made accordingly to ensure staffing levels stay within the remaining available budget.

In addition, industry best practice Construction Management (CM) Business Processes and Procedures continue to be implemented to ensure the available funds are used efficiently and effectively, with emphasis on identification of cost savings wherever possible. The primary features of the best practice processes and procedures that facilitate monitoring and control of WSIP construction are summarized below.

- Change Management - All Owner-requested changes require approval by a Change Control Board, with final approval by the WSIP Director. All changes are required to support Level of Service (LOS) goals and objectives, and independent cost estimates are required for large changes in advance of contractor pricing.
- Trends Management - Project Teams are required to re-assess trend values monthly to ensure accurate cost forecasting. Trends are also audited by the Program CM Management Team and discussed and reviewed monthly with the WSIP Director.
- Risk Management - SFPUC continues to proactively monitor and manage construction risk on all active projects. Risk registers are updated monthly by each Project Team, and thorough review and discussion of the Risk Register is periodically conducted by the Program CM Management Team. Discussion includes review of mitigation measures as well as probabilities and potential impacts (cost and time) to reflect up-to-date overall project risk exposure.
- Schedule Management – SFPUC continues to aggressively apply strong schedule control on construction activities and continuously evaluate contractor schedules to ensure approved milestones are met. Project schedule forecasts are reported every month and reviewed and discussed with the Program CM Management Team. Mitigation measures are applied to delays incurred beyond the contractor's contract

due to unforeseen conditions. Schedule recoveries are enforced by the Project Teams.

- Quarterly Project Review Meetings - Quarterly review meetings are conducted with the WSIP Director to review overall project budget & schedule forecasts as measured against the approved baseline.

8.2 Adequacy of Current Approved Schedules and Budget Contingencies

The schedule forecasts presented in this report show that the two remaining construction projects in the program are forecast to be complete by the current approved program completion date of June 30, 2032. As discussed in Section 7 of this report, the program-level risk analysis shows that the remaining program risk exposure at the “80 confidence level” is $0.5 million for active construction contracts as of June 30, 2025.

The remaining forecast construction contingency as of June 30, 2025 is $5.6 million after all current trends have been considered. In addition, the current forecast WSIP Director’s Reserve Fund is $12.9 million. Therefore, a total of approximately $18.5 million is available to fund future risks, including both construction risks and unforeseen soft (non-construction) costs.

9.0 STATUS OF AB 1823 PROJECTS

The status of the ten (10) projects identified in Assembly Bill (AB) 1823 is summarized in Table 9-1. As of June 30, 2025, all ten (10) projects have been completed.

Table 9-1: Status of AB 1823 Projects as of June 30, 2025

Project Name	Status
New Irvington Tunnel	Completed
Alameda Siphon #4	Completed
Calaveras Dam Replacement	Completed
BDPL Nos. 3 & 4 Crossover/ Isolation Valves	Completed
Seismic Upgrade of BDPL Nos. 3 & 4	Completed
BDPL Reliability Upgrade – Tunnel (Bay Tunnel)	Completed
BDPL Reliability Upgrade - Pipeline	Completed
BDPL Nos. 3 & 4 Crossovers	Completed
New Crystal Springs Bypass Tunnel	Completed
Crystal Springs/San Andreas Transmission Upgrade	Completed

It should be noted that the original list of projects in AB 1823 includes the BDPL Nos. 1 & 2 - Repair of Caissons/Pipe Bridge Project. That project was removed from the WSIP following completion of a facilities condition assessment that led to the addition of a fifth conduit parallel to BDPL Nos. 1 & 2 to the SFPUC capital program. The conduit, referred to as BDPL No. 5, was completed as part of the BDPL Reliability Upgrade - Tunnel and BDPL Reliability Upgrade - Pipeline projects.

Half of the ten projects listed in AB 1823 contributed to the construction of a new seismically designed lifeline that carries water from the Sunol Valley in the East Bay to the mid-Peninsula. That lifeline involves six segments contracted out separately that have all achieved substantial construction completion in past reporting periods and are in service: Alameda Siphon #4, New Irvington Tunnel, BDPL Reliability Upgrade (East Bay Reaches), BDPL Reliability Upgrade – Tunnel (Bay Tunnel), BDPL Reliability Upgrade (Peninsula Reaches) and New Crystal Springs Bypass Tunnel.

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APPENDIX A
Current Approved WSIP Schedule
Regional Projects

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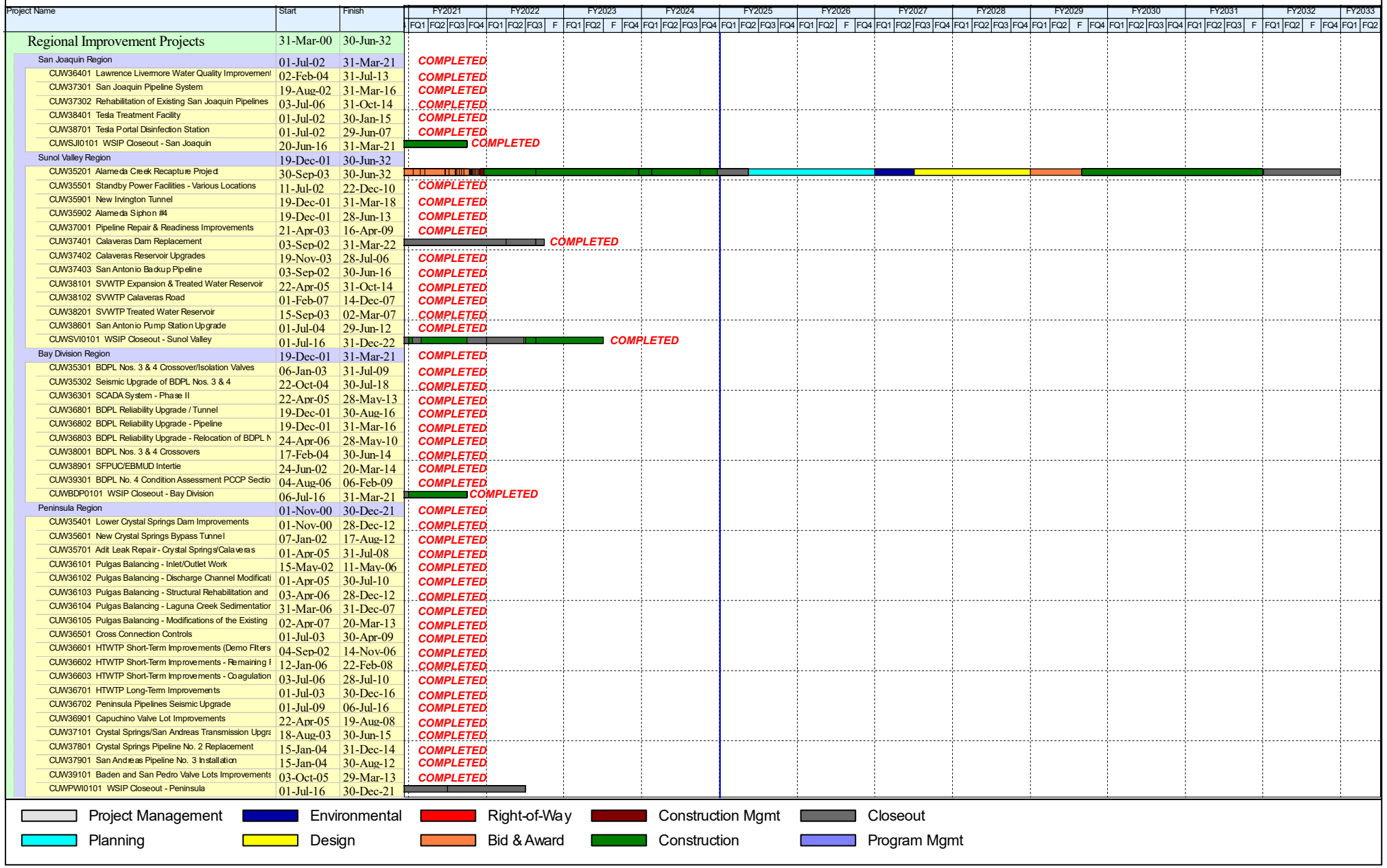
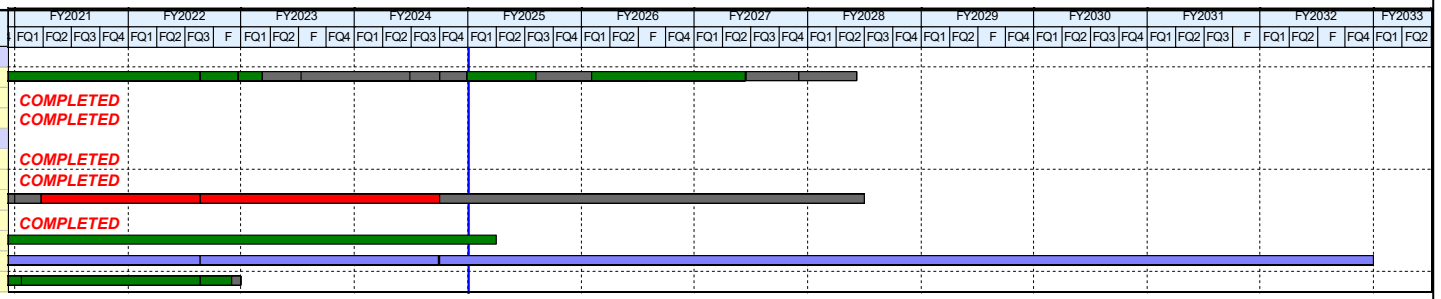
APPENDIX A: Current Approved WSIP Project-Level Schedules



APPENDIX A: Current Approved WSIP Project-Level Schedules

Project Name	Start	Finish
San Francisco Regional Region	31-Mar-00	07-Dec-27
CUW30103 Regional Groundwater Storage and Recovery	01-Jun-03	07-Dec-27
CUW35801 Sunset Reservoir - North Basin	31-Mar-00	10-Sep-10
CUW37201 University Mound Reservoir - North Basin	24-Oct-05	29-Mar-13
Support Projects	13-Apr-04	30-Jun-32
CUW36302 System Security Upgrades	07-Jan-06	19-Apr-19
CUW38801 Programmatic EIR	13-Apr-04	30-Jun-09
CUW38802 Bioregional Habitat Restoration	06-Sep-06	30-Dec-27
CUW38803 Vegetation Restoration of WSIP Construction Sit	02-Jan-13	30-Jun-16
CUW38804 Long Term Mitigation Endowment	05-Mar-14	01-Oct-24
CUW39201 Program Management Project	01-Aug-05	30-Jun-32
CUW39401 Watershed and Environmental Improvement Prc	02-Jan-07	30-Jun-22



Project Management
Environmental
Right-of-Way
Construction Mgmt
Closeout
Planning
Design
Bid & Award
Construction
Program Mgmt

APPENDIX A: Current Approved WSIP Phase-Level Schedules

Project Name	Start	Finish	
Regional Improvement Projects	31-Mar-00 A	30-Jun-32	
San Joaquin Region	01-Jul-02 A	31-Mar-21	COMPLETED
Lawrence Livermore Water Quality Improvement	02-Feb-04 A	31-Jul-13	COMPLETED
Project Milestones			
Project Management	02-Feb-04 A	11-Mar-11	
Project Planning	02-Feb-04 A	28-Sep-07	
Environmental Review	31-Aug-06 A	25-Feb-09	
Design	01-Oct-07 A	31-Mar-09	
Bid and Award	01-Dec-08 A	25-Aug-09	
Construction Management	27-Feb-09 A	11-Mar-11	
Construction	26-Aug-09 A	11-Mar-11	
Close-Out	14-Mar-11 A	31-Jul-13	
San Joaquin Pipeline System	19-Aug-02 A	31-Mar-16	COMPLETED
Project Milestones			
Project Management	19-Aug-02 A	31-Mar-16	
Project Planning	19-Aug-02 A	28-Dec-06	
Environmental Review	17-Feb-04 A	27-Mar-12	
Right of Way	02-Jan-07 A	29-Mar-13	
Design	02-Jan-07 A	23-Mar-11	
Bid and Award	27-Apr-09 A	21-Jul-11	
Construction Management	03-Feb-09 A	31-Mar-16	
Construction	13-Oct-09 A	31-Mar-16	
Close-Out	01-Apr-13 A	31-Mar-16	
Rehabilitation of Existing San Joaquin Pipelines	03-Jul-06 A	31-Oct-14	COMPLETED
Project Milestones			
Project Management	03-Jul-06 A	31-Jul-14	
Project Planning	03-Jul-06 A	27-Jun-14	
Environmental Review	26-Sep-06 A	31-Dec-12	
Design	31-Jul-06 A	31-Mar-11	
Bid and Award	02-May-08 A	31-Mar-11	
Construction Management	03-Jul-06 A	19-Sep-11	
Construction	02-Oct-06 A	01-Nov-11	
Close-Out	20-Sep-11 A	31-Oct-14	
Tesla Treatment Facility	01-Jul-02 A	30-Jan-15	COMPLETED
Project Milestones			
Project Management	01-Jul-02 A	31-Oct-14	
Project Planning	01-Jul-02 A	29-Jun-07	
Environmental Review	30-Jun-06 A	25-Feb-09	
Right of Way	17-Mar-08 A	16-Oct-08	
Design	15-Feb-07 A	20-Nov-09	
Bid and Award	30-Jan-08 A	10-Nov-08	
Construction Management	02-Feb-09 A	31-Oct-14	
Construction	08-Sep-08 A	31-Oct-14	
Close-Out	01-Jul-11 A	30-Jan-15	
Tesla Portal Disinfection Station	01-Jul-02 A	29-Jun-07	COMPLETED
Project Milestones			
Project Management	01-Jul-02 A	29-Jun-07	
Project Planning	01-Jul-02 A	29-Jun-07	
Environmental Review	19-Aug-04 A	29-Dec-06	
Design			
Bid and Award			
Construction Management			
Construction			
Close-Out			
WSIP Closeout - San Joaquin	20-Jun-16 A	31-Mar-21	COMPLETED
Project Milestones			
Project Management	20-Jun-16 A	31-Mar-21	
Project Planning			

FY2021 FY2022 FY2023 FY2024 FY2025 FY2026 FY2027 FY2028 FY2029 FY2030 FY2031 FY2032 FY2033

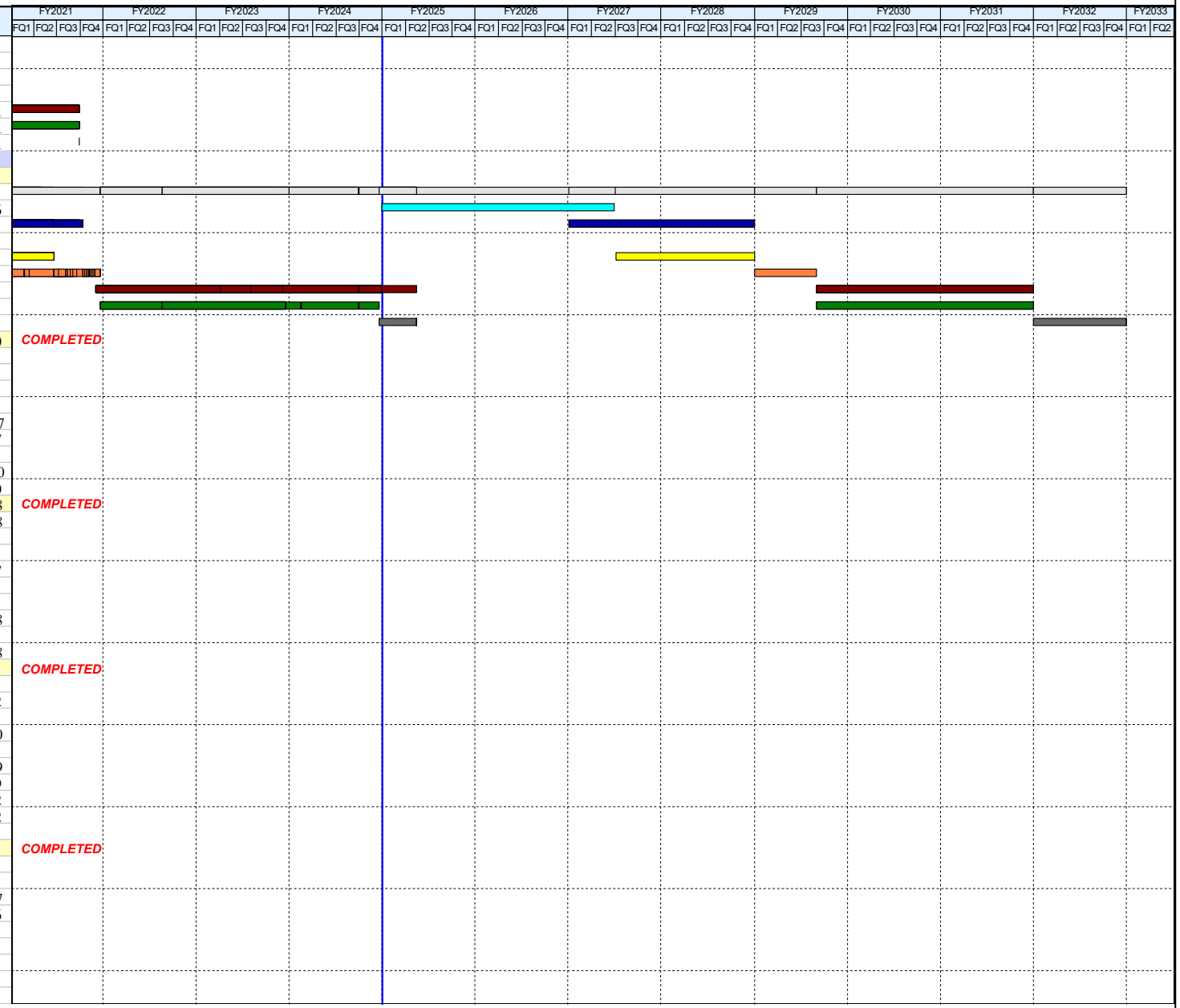
FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2

Project Management | Environmental | Right-of-Way | Construction Mgmt | Closeout

Planning | Design | Bid & Award | Construction | Program Mgmt

APPENDIX A: Current Approved WSIP Phase-Level Schedules

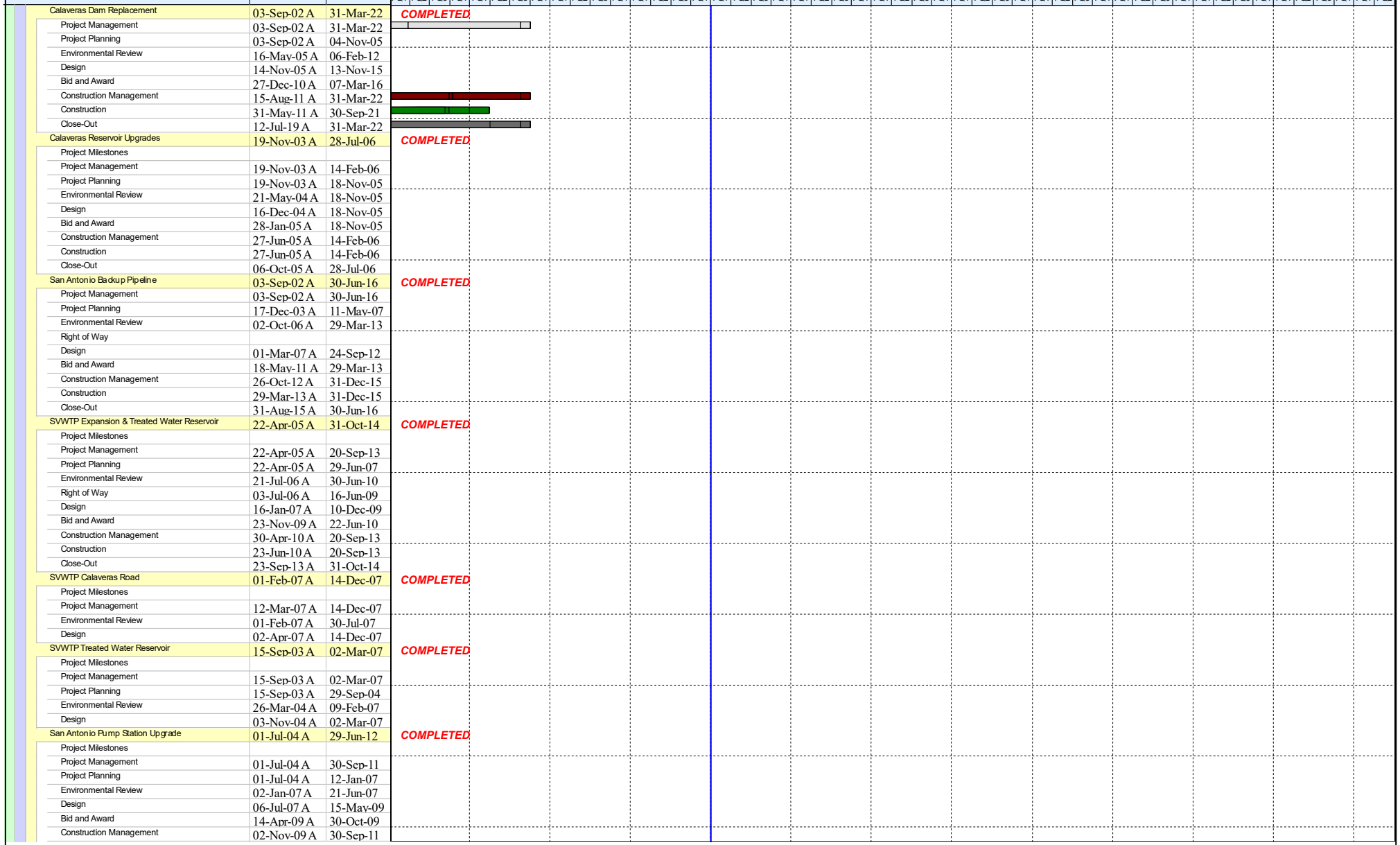
Project Name	Start	Finish
Environmental Review		
Right of Way		
Design	02-Oct-17 A	21-Sep-19
Bid and Award	23-Sep-19 A	28-Feb-20
Construction Management	09-May-17 A	31-Mar-21
Construction	09-May-17 A	31-Mar-21
Close-Out	01-May-18 A	31-Mar-21
Sunol Valley Region	19-Dec-01 A	30-Jun-32
Alameda Creek Recapture Project	30-Sep-03 A	30-Jun-32
Project Management	30-Sep-03 A	30-Jun-32
Project Planning	30-Sep-03 A	30-Dec-26
Environmental Review	23-Apr-10 A	30-Jun-28
Right of Way		
Design	01-Jul-10 A	30-Jun-28
Bid and Award	17-Jan-17 A	28-Feb-29
Construction Management	01-Jun-21 A	30-Jun-31
Construction	21-Jun-21 A	30-Jun-31
Close-Out	03-Sep-24	30-Jun-32
Standby Power Facilities - Various Locations	11-Jul-02 A	22-Dec-10
Project Milestones		
Project Management	11-Jul-02 A	22-Jun-10
Project Planning	11-Jul-02 A	30-Jun-05
Environmental Review	26-May-05 A	23-Sep-05
Design	01-Jul-05 A	04-May-07
Bid and Award	16-Apr-07 A	31-Dec-07
Construction Management	10-Dec-07 A	22-Jun-10
Construction	10-Dec-07 A	28-May-10
Close-Out	10-Sep-08 A	22-Dec-10
New Irvington Tunnel	19-Dec-01 A	31-Mar-18
Project Management	19-Dec-01 A	31-Mar-18
Project Planning	19-Dec-01 A	07-Oct-05
Environmental Review	25-Aug-04 A	07-Mar-11
Right of Way	03-Jul-06 A	29-Dec-17
Design	11-Oct-05 A	12-Jan-10
Bid and Award	05-Jan-09 A	21-Jul-10
Construction Management	28-Sep-09 A	30-Mar-18
Construction	31-Mar-09 A	30-Sep-17
Close-Out	02-Oct-17 A	31-Mar-18
Alameda Siphon #4	19-Dec-01 A	28-Jun-13
Project Milestones		
Project Management	19-Dec-01 A	24-Aug-12
Project Planning	19-Dec-01 A	07-Oct-05
Environmental Review	25-Aug-04 A	30-Mar-10
Right of Way	04-Jun-07 A	09-Feb-09
Design	11-Oct-05 A	13-Mar-09
Bid and Award	03-Nov-08 A	25-Aug-09
Construction Management	26-Aug-09 A	24-Aug-12
Construction	20-Apr-09 A	24-Aug-12
Close-Out	27-Aug-12 A	28-Jun-13
Pipeline Repair & Readiness Improvements	21-Apr-03 A	16-Apr-09
Project Milestones		
Project Management	21-Apr-03 A	15-Oct-08
Project Planning	21-Apr-03 A	30-Mar-07
Environmental Review	14-Jan-05 A	29-Dec-06
Design	07-Jun-04 A	05-Feb-07
Bid and Award	31-Oct-05 A	23-Jul-07
Construction Management	30-Jan-06 A	15-Oct-08
Construction	30-Jan-06 A	15-Oct-08
Close-Out	18-Sep-06 A	16-Apr-09



Project Management | Environmental | Right-of-Way | Construction Mgmt | Closeout
Planning | Design | Bid & Award | Construction | Program Mgmt

APPENDIX A: Current Approved WSIP Phase-Level Schedules

Project Name	Start	Finish
Calaveras Dam Replacement	03-Sep-02 A	31-Mar-22
Project Management	03-Sep-02 A	31-Mar-22
Project Planning	03-Sep-02 A	04-Nov-05
Environmental Review	16-May-05 A	06-Feb-12
Design	14-Nov-05 A	13-Nov-15
Bid and Award	27-Dec-10 A	07-Mar-16
Construction Management	15-Aug-11 A	31-Mar-22
Construction	31-May-11 A	30-Sep-21
Close-Out	12-Jul-19 A	31-Mar-22
Calaveras Reservoir Upgrades	19-Nov-03 A	28-Jul-06
Project Milestones		
Project Management	19-Nov-03 A	14-Feb-06
Project Planning	19-Nov-03 A	18-Nov-05
Environmental Review	21-May-04 A	18-Nov-05
Design	16-Dec-04 A	18-Nov-05
Bid and Award	28-Jan-05 A	18-Nov-05
Construction Management	27-Jun-05 A	14-Feb-06
Construction	27-Jun-05 A	14-Feb-06
Close-Out	06-Oct-05 A	28-Jul-06
San Antonio Backup Pipeline	03-Sep-02 A	30-Jun-16
Project Management	03-Sep-02 A	30-Jun-16
Project Planning	17-Dec-03 A	11-May-07
Environmental Review	02-Oct-06 A	29-Mar-13
Right of Way		
Design	01-Mar-07 A	24-Sep-12
Bid and Award	18-May-11 A	29-Mar-13
Construction Management	26-Oct-12 A	31-Dec-15
Construction	29-Mar-13 A	31-Dec-15
Close-Out	31-Aug-15 A	30-Jun-16
SVWTP Expansion & Treated Water Reservoir	22-Apr-05 A	31-Oct-14
Project Milestones		
Project Management	22-Apr-05 A	20-Sep-13
Project Planning	22-Apr-05 A	29-Jun-07
Environmental Review	21-Jul-06 A	30-Jun-10
Right of Way	03-Jul-06 A	16-Jun-09
Design	16-Jan-07 A	10-Dec-09
Bid and Award	23-Nov-09 A	22-Jun-10
Construction Management	30-Apr-10 A	20-Sep-13
Construction	23-Jun-10 A	20-Sep-13
Close-Out	23-Sep-13 A	31-Oct-14
SVWTP Calaveras Road	01-Feb-07 A	14-Dec-07
Project Milestones		
Project Management	12-Mar-07 A	14-Dec-07
Environmental Review	01-Feb-07 A	30-Jul-07
Design	02-Apr-07 A	14-Dec-07
SVWTP Treated Water Reservoir	15-Sep-03 A	02-Mar-07
Project Milestones		
Project Management	15-Sep-03 A	02-Mar-07
Project Planning	15-Sep-03 A	29-Sep-04
Environmental Review	26-Mar-04 A	09-Feb-07
Design	03-Nov-04 A	02-Mar-07
San Antonio Pump Station Upgrade	01-Jul-04 A	29-Jun-12
Project Milestones		
Project Management	01-Jul-04 A	30-Sep-11
Project Planning	01-Jul-04 A	12-Jan-07
Environmental Review	02-Jan-07 A	21-Jun-07
Design	06-Jul-07 A	15-May-09
Bid and Award	14-Apr-09 A	30-Oct-09
Construction Management	02-Nov-09 A	30-Sep-11

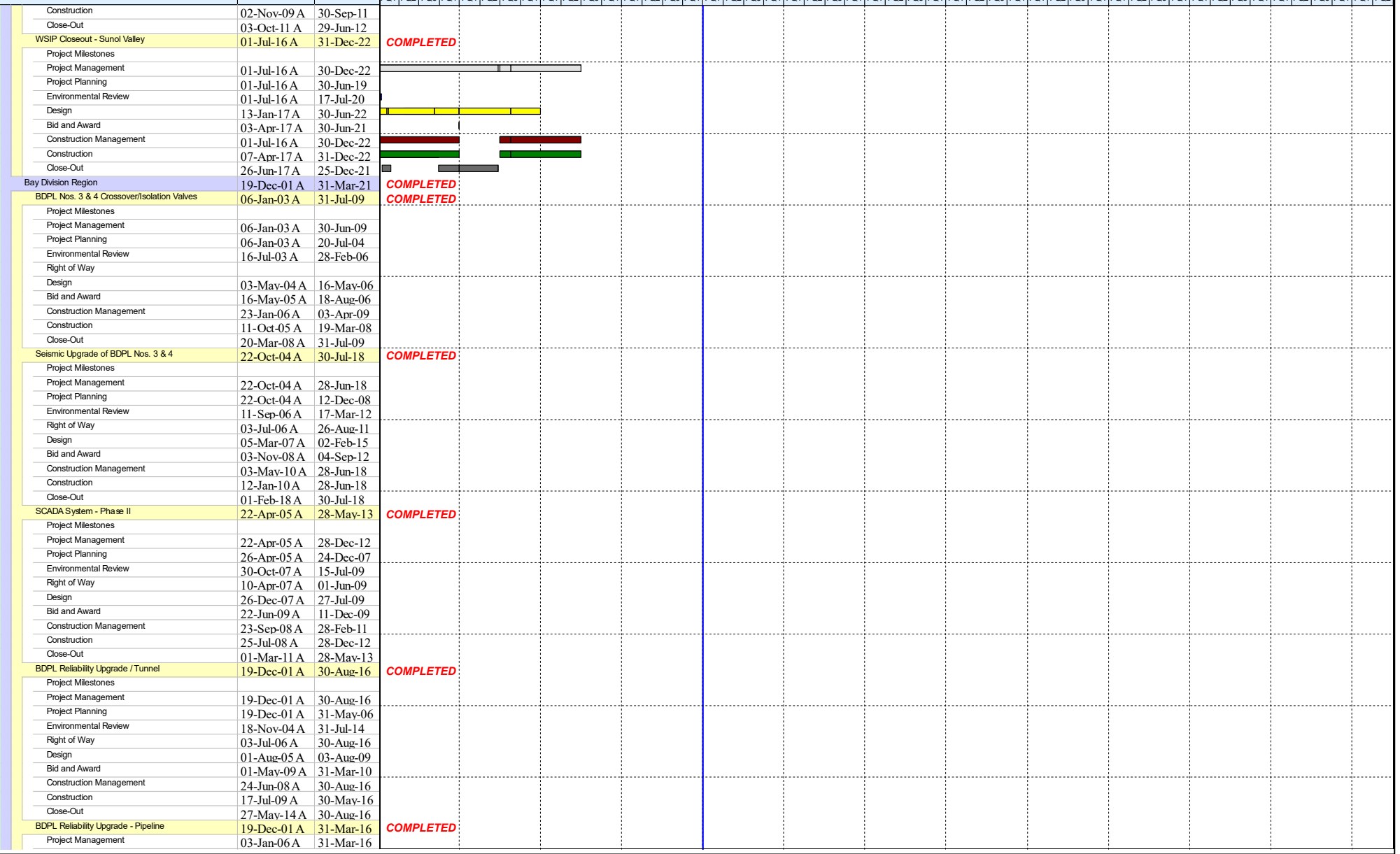


Project Management | Environmental | Right-of-Way | Construction Mgmt | Closeout

Planning | Design | Bid & Award | Construction | Program Mgmt

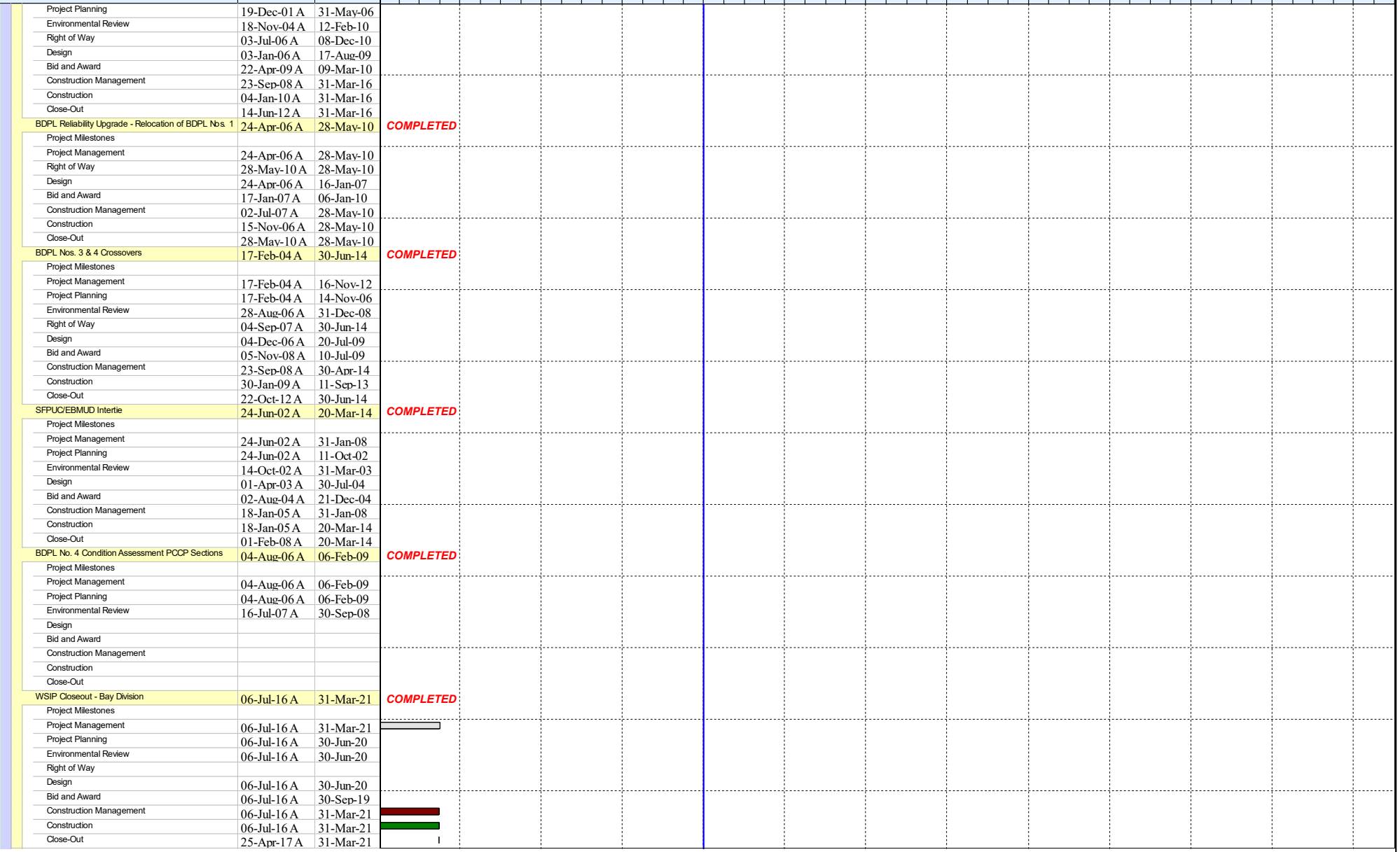
APPENDIX A: Current Approved WSIP Phase-Level Schedules

Project Name	Start	Finish
Construction	02-Nov-09 A	30-Sep-11
Close-Out	03-Oct-11 A	29-Jun-12
WSIP Closeout - Sunol Valley	01-Jul-16 A	31-Dec-22
Project Milestones		
Project Management	01-Jul-16 A	30-Dec-22
Project Planning	01-Jul-16 A	30-Jun-19
Environmental Review	01-Jul-16 A	17-Jul-20
Design	13-Jan-17 A	30-Jun-22
Bid and Award	03-Apr-17 A	30-Jun-21
Construction Management	01-Jul-16 A	30-Dec-22
Construction	07-Apr-17 A	31-Dec-22
Close-Out	26-Jun-17 A	25-Dec-21
Bay Division Region	19-Dec-01 A	31-Mar-21
BDPL Nos. 3 & 4 Crossover/Isolation Valves	06-Jan-03 A	31-Jul-09
Project Milestones		
Project Management	06-Jan-03 A	30-Jun-09
Project Planning	06-Jan-03 A	20-Jul-04
Environmental Review	16-Jul-03 A	28-Feb-06
Right of Way		
Design	03-May-04 A	16-May-06
Bid and Award	16-May-05 A	18-Aug-06
Construction Management	23-Jan-06 A	03-Apr-09
Construction	11-Oct-05 A	19-Mar-08
Close-Out	20-Mar-08 A	31-Jul-09
Seismic Upgrade of BDPL Nos. 3 & 4	22-Oct-04 A	30-Jul-18
Project Milestones		
Project Management	22-Oct-04 A	28-Jun-18
Project Planning	22-Oct-04 A	12-Dec-08
Environmental Review	11-Sep-06 A	17-Mar-12
Right of Way	03-Jul-06 A	26-Aug-11
Design	05-Mar-07 A	02-Feb-15
Bid and Award	03-Nov-08 A	04-Sep-12
Construction Management	03-May-10 A	28-Jun-18
Construction	12-Jan-10 A	28-Jun-18
Close-Out	01-Feb-18 A	30-Jul-18
SCADA System - Phase II	22-Apr-05 A	28-May-13
Project Milestones		
Project Management	22-Apr-05 A	28-Dec-12
Project Planning	26-Apr-05 A	24-Dec-07
Environmental Review	30-Oct-07 A	15-Jul-09
Right of Way	10-Apr-07 A	01-Jun-09
Design	26-Dec-07 A	27-Jul-09
Bid and Award	22-Jun-09 A	11-Dec-09
Construction Management	23-Sep-08 A	28-Feb-11
Construction	25-Jul-08 A	28-Dec-12
Close-Out	01-Mar-11 A	28-May-13
BDPL Reliability Upgrade / Tunnel	19-Dec-01 A	30-Aug-16
Project Milestones		
Project Management	19-Dec-01 A	30-Aug-16
Project Planning	19-Dec-01 A	31-May-06
Environmental Review	18-Nov-04 A	31-Jul-14
Right of Way	03-Jul-06 A	30-Aug-16
Design	01-Aug-05 A	03-Aug-09
Bid and Award	01-May-09 A	31-Mar-10
Construction Management	24-Jun-08 A	30-Aug-16
Construction	17-Jul-09 A	30-May-16
Close-Out	27-May-14 A	30-Aug-16
BDPL Reliability Upgrade - Pipeline	19-Dec-01 A	31-Mar-16
Project Management	03-Jan-06 A	31-Mar-16



APPENDIX A: Current Approved WSIP Phase-Level Schedules

Project Name	Start	Finish	
Project Planning	19-Dec-01 A	31-May-06	
Environmental Review	18-Nov-04 A	12-Feb-10	
Right of Way	03-Jul-06 A	08-Dec-10	
Design	03-Jan-06 A	17-Aug-09	
Bid and Award	22-Apr-09 A	09-Mar-10	
Construction Management	23-Sep-08 A	31-Mar-16	
Construction	04-Jan-10 A	31-Mar-16	
Close-Out	14-Jun-12 A	31-Mar-16	
BDPL Reliability Upgrade - Relocation of BDPL Nos. 1	24-Apr-06 A	28-May-10	COMPLETED
Project Milestones			
Project Management	24-Apr-06 A	28-May-10	
Right of Way	28-May-10 A	28-May-10	
Design	24-Apr-06 A	16-Jan-07	
Bid and Award	17-Jan-07 A	06-Jan-10	
Construction Management	02-Jul-07 A	28-May-10	
Construction	15-Nov-06 A	28-May-10	
Close-Out	28-May-10 A	28-May-10	
BDPL Nos. 3 & 4 Crossovers	17-Feb-04 A	30-Jun-14	COMPLETED
Project Milestones			
Project Management	17-Feb-04 A	16-Nov-12	
Project Planning	17-Feb-04 A	14-Nov-06	
Environmental Review	28-Aug-06 A	31-Dec-08	
Right of Way	04-Sep-07 A	30-Jun-14	
Design	04-Dec-06 A	20-Jul-09	
Bid and Award	05-Nov-08 A	10-Jul-09	
Construction Management	23-Sep-08 A	30-Apr-14	
Construction	30-Jan-09 A	11-Sep-13	
Close-Out	22-Oct-12 A	30-Jun-14	
SFPUC/EBMUD Intertie	24-Jun-02 A	20-Mar-14	COMPLETED
Project Milestones			
Project Management	24-Jun-02 A	31-Jan-08	
Project Planning	24-Jun-02 A	11-Oct-02	
Environmental Review	14-Oct-02 A	31-Mar-03	
Design	01-Apr-03 A	30-Jul-04	
Bid and Award	02-Aug-04 A	21-Dec-04	
Construction Management	18-Jan-05 A	31-Jan-08	
Construction	18-Jan-05 A	20-Mar-14	
Close-Out	01-Feb-08 A	20-Mar-14	
BDPL No. 4 Condition Assessment PCCP Sections	04-Aug-06 A	06-Feb-09	COMPLETED
Project Milestones			
Project Management	04-Aug-06 A	06-Feb-09	
Project Planning	04-Aug-06 A	06-Feb-09	
Environmental Review	16-Jul-07 A	30-Sep-08	
Design			
Bid and Award			
Construction Management			
Construction			
Close-Out			
WSIP Closeout - Bay Division	06-Jul-16 A	31-Mar-21	COMPLETED
Project Milestones			
Project Management	06-Jul-16 A	31-Mar-21	
Project Planning	06-Jul-16 A	30-Jun-20	
Environmental Review	06-Jul-16 A	30-Jun-20	
Right of Way			
Design	06-Jul-16 A	30-Jun-20	
Bid and Award	06-Jul-16 A	30-Sep-19	
Construction Management	06-Jul-16 A	31-Mar-21	
Construction	06-Jul-16 A	31-Mar-21	
Close-Out	25-Apr-17 A	31-Mar-21	



Project Management | Environmental | Right-of-Way | Construction Mgmt | Closeout
Planning | Design | Bid & Award | Construction | Program Mgmt

APPENDIX A: Current Approved WSIP Phase-Level Schedules

Project Name	Start	Finish	
Peninsula Region	01-Nov-00 A	30-Dec-21	
Lower Crystal Springs Dam Improvements	01-Nov-00 A	28-Dec-12	COMPLETED
Project Milestones			
Project Management	01-Nov-00 A	28-Dec-12	
Project Planning	01-Nov-00 A	30-Dec-04	
Environmental Review	03-Jan-05 A	28-Apr-11	
Right of Way	03-Jul-06 A	30-Jun-10	
Design	08-Mar-07 A	30-Sep-10	
Bid and Award	20-Aug-10 A	28-Jan-11	
Construction Management	31-Jan-11 A	01-May-12	
Construction	31-Jan-11 A	01-May-12	
Close-Out	15-Mar-12 A	28-Dec-12	
New Crystal Springs Bypass Tunnel	07-Jan-02 A	17-Aug-12	COMPLETED
Project Milestones			
Project Management	07-Jan-02 A	28-Sep-11	
Project Planning	07-Jan-02 A	05-Aug-04	
Environmental Review	18-Sep-03 A	09-Oct-08	
Right of Way	03-Jul-06 A	16-Sep-08	
Design	01-Jun-04 A	05-Jun-08	
Bid and Award	05-Jun-08 A	01-Dec-08	
Construction Management	01-Dec-08 A	26-Oct-11	
Construction	01-Dec-08 A	17-Aug-12	
Close-Out	29-Sep-11 A	17-Aug-12	
Adit Leak Repair - Crystal Springs/Calaveras	01-Apr-05 A	31-Jul-08	COMPLETED
Project Milestones			
Project Management	01-Apr-05 A	11-Mar-08	
Project Planning	01-Apr-05 A	27-Mar-06	
Environmental Review	01-Jul-05 A	30-Jun-06	
Design	01-Sep-05 A	15-Sep-06	
Bid and Award	28-Aug-06 A	30-Mar-07	
Construction Management	02-Apr-07 A	05-Mar-08	
Construction	09-Apr-07 A	05-Mar-08	
Close-Out	12-Mar-08 A	31-Jul-08	
Pulgas Balancing - Inlet/Outlet Work	15-May-02 A	11-May-06	COMPLETED
Project Milestones			
Project Management	01-Jul-03 A	02-Feb-06	
Project Planning	15-May-02 A	01-Aug-05	
Environmental Review	02-May-04 A	02-May-04	
Bid and Award	05-Mar-04 A	06-Sep-05	
Construction Management	07-Sep-05 A	02-Feb-06	
Construction	06-Sep-05 A	02-Feb-06	
Close-Out	03-Feb-06 A	11-May-06	
Pulgas Balancing - Discharge Channel Modifications	01-Apr-05 A	30-Jul-10	COMPLETED
Project Milestones			
Project Management	01-Apr-05 A	07-Dec-09	
Project Planning	01-Apr-05 A	15-Sep-06	
Environmental Review	17-Aug-06 A	03-Apr-09	
Design	16-Apr-07 A	03-Nov-08	
Bid and Award	04-Nov-08 A	03-Apr-09	
Construction Management	06-Apr-09 A	07-Dec-09	
Construction	02-Apr-09 A	07-Dec-09	
Close-Out	08-Dec-09 A	30-Jul-10	
Pulgas Balancing - Structural Rehabilitation and Roof	03-Apr-06 A	28-Dec-12	COMPLETED
Project Milestones			
Project Management	03-Apr-06 A	28-Dec-12	
Project Planning	03-Apr-06 A	11-Dec-07	
Environmental Review	03-Jul-07 A	16-Jul-09	
Right of Way			
Design	11-Jan-08 A	01-Jul-09	

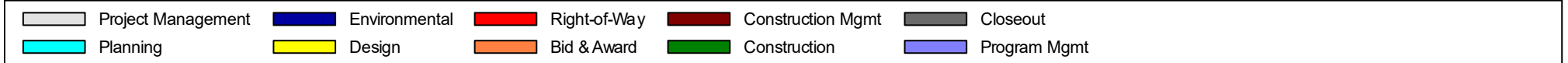
FY2021 FY2022 FY2023 FY2024 FY2025 FY2026 FY2027 FY2028 FY2029 FY2030 FY2031 FY2032 FY2033

FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2 FQ3 FQ4 FQ1 FQ2

Project Management
Environmental
Right-of-Way
Construction Mgmt
Closeout
Planning
Design
Bid & Award
Construction
Program Mgmt

APPENDIX A: Current Approved WSIP Phase-Level Schedules

Project Name	Start	Finish	
Bid and Award	06-Apr-09 A	30-Nov-09	
Construction Management	30-Nov-09 A	01-Sep-11	
Construction	30-Nov-09 A	01-Sep-11	
Close-Out	02-Sep-11 A	28-Dec-12	
Pulgas Balancing - Laguna Creek Sedimentation	31-Mar-06 A	31-Dec-07	COMPLETED
Project Milestones			
Project Management	31-Mar-06 A	31-Dec-07	
Environmental Review	31-Dec-07 A	31-Dec-07	
Design	31-Mar-06 A	26-Dec-06	
Bid and Award	27-Dec-06 A	31-Dec-07	
Construction Management	04-Oct-07 A	31-Dec-07	
Construction	04-Oct-07 A	31-Dec-07	
Close-Out	04-Oct-07 A	31-Dec-07	
Pulgas Balancing - Modifications of the Existing Dech	02-Apr-07 A	20-Mar-13	COMPLETED
Project Milestones			
Project Management	02-Apr-07 A	25-Oct-12	
Project Planning	02-Apr-07 A	17-Mar-09	
Environmental Review	19-Nov-07 A	04-Mar-10	
Right of Way			
Design	02-Jan-09 A	12-Mar-10	
Bid and Award	29-Jan-10 A	22-Sep-10	
Construction Management	22-Sep-10 A	25-Oct-12	
Construction	22-Sep-10 A	25-Oct-12	
Close-Out	25-Oct-12 A	20-Mar-13	
Cross Connection Controls	01-Jul-03 A	30-Apr-09	COMPLETED
Project Milestones			
Project Management	01-Jul-03 A	26-Nov-08	
Project Planning	01-Jul-03 A	03-Aug-04	
Environmental Review	01-Jul-03 A	05-Aug-08	
Right of Way	03-Sep-07 A	30-Sep-08	
Design	03-Aug-04 A	30-Dec-05	
Bid and Award	01-Apr-05 A	31-May-05	
Construction Management	01-Jun-05 A	26-Nov-08	
Construction	01-Jun-05 A	26-Nov-08	
Close-Out	01-Dec-08 A	30-Apr-09	
HTWTP Short-Term Improvements (Demo Filters)	04-Sep-02 A	14-Nov-06	COMPLETED
Project Milestones			
Project Management	04-Sep-02 A	27-Feb-06	
Project Planning	04-Sep-02 A	30-Apr-03	
Environmental Review	01-Aug-03 A	08-Aug-05	
Design	01-Aug-03 A	11-Feb-05	
Bid and Award	14-Feb-05 A	08-Sep-05	
Construction Management	09-Sep-05 A	27-Feb-06	
Construction	09-Sep-05 A	27-Feb-06	
Close-Out	12-Jan-06 A	14-Nov-06	
HTWTP Short-Term Improvements - Remaining Filters	12-Jan-06 A	22-Feb-08	COMPLETED
Project Milestones			
Project Management	12-Jan-06 A	31-Jan-08	
Project Planning	12-Jan-06 A	22-Aug-07	
Environmental Review			
Design	03-Mar-07 A	22-Feb-08	
Bid and Award			
Construction Management			
Construction			
Close-Out			
HTWTP Short-Term Improvements - Coagulation & Fl	03-Jul-06 A	28-Jul-10	COMPLETED
Project Milestones			
Project Management	03-Jul-06 A	31-Mar-10	
Project Planning	03-Jul-06 A	22-Aug-07	



APPENDIX A: Current Approved WSIP Phase-Level Schedules

Project Name	Start	Finish	
Environmental Review	03-Jul-06 A	28-Jul-10	
Design	13-Jul-07 A	22-Feb-08	
Bid and Award	03-Sep-07 A	09-Jul-08	
Construction Management	18-Jun-08 A	31-Mar-10	
Construction	19-Feb-08 A	31-Mar-10	
Close-Out	01-Apr-10 A	28-Jul-10	
HTWTP Long-Term Improvements	01-Jul-03 A	30-Dec-16	COMPLETED
Project Milestones			
Project Management	01-Jul-03 A	22-Dec-16	
Project Planning	01-Jul-03 A	29-Aug-08	
Environmental Review	09-Jan-07 A	15-Mar-11	
Design	02-Sep-08 A	15-Oct-10	
Bid and Award	01-Jul-10 A	15-Mar-11	
Construction Management	16-Mar-11 A	30-Sep-16	
Construction	16-Mar-11 A	30-Sep-16	
Close-Out	01-Oct-16 A	30-Dec-16	
Peninsula Pipelines Seismic Upgrade	01-Jul-09 A	06-Jul-16	COMPLETED
Project Milestones			
Project Management	01-Jul-09 A	29-Feb-16	
Project Planning	01-Jul-09 A	31-Aug-12	
Environmental Review	01-Jul-09 A	01-Apr-14	
Right of Way	03-Sep-12 A	24-Oct-15	
Design	03-Jan-12 A	18-Dec-13	
Bid and Award	15-Nov-13 A	28-Apr-14	
Construction Management	28-Apr-14 A	29-Feb-16	
Construction	28-Apr-14 A	29-Feb-16	
Close-Out	29-Feb-16 A	06-Jul-16	
Capuchino Valve Lot Improvements	22-Apr-05 A	19-Aug-08	COMPLETED
Project Milestones			
Project Management	22-Apr-05 A	05-Mar-08	
Project Planning	22-Apr-05 A	01-Nov-05	
Environmental Review	01-Nov-05 A	14-Nov-06	
Design	01-Nov-05 A	15-Sep-06	
Bid and Award	18-Sep-06 A	29-Jan-07	
Construction Management	29-Jan-07 A	05-Mar-08	
Construction	29-Jan-07 A	05-Mar-08	
Close-Out	06-Mar-08 A	19-Aug-08	
Crystal Springs/San Andreas Transmission Upgrade	18-Aug-03 A	30-Jun-15	COMPLETED
Project Milestones			
Project Management	18-Aug-03 A	31-Dec-14	
Project Planning	18-Aug-03 A	20-Apr-07	
Environmental Review	03-Jan-07 A	30-Nov-10	
Right of Way	27-Mar-06 A	30-Jun-10	
Design	15-Oct-07 A	15-Jun-10	
Bid and Award	13-Apr-10 A	30-Nov-10	
Construction Management	01-Dec-10 A	31-Dec-14	
Construction	01-Dec-10 A	30-Jun-15	
Close-Out	02-Jan-15 A	30-Jun-15	
Crystal Springs Pipeline No. 2 Replacement	15-Jan-04 A	31-Dec-14	COMPLETED
Project Milestones			
Project Management	15-Jan-04 A	22-Mar-13	
Project Planning	15-Jan-04 A	19-Jan-07	
Environmental Review	01-Apr-04 A	30-Jun-11	
Right of Way	01-Sep-06 A	27-Apr-12	
Design	01-Jan-07 A	08-Oct-10	
Bid and Award	09-Sep-10 A	04-Mar-11	
Construction Management	01-Nov-10 A	22-Mar-13	
Construction	07-Feb-11 A	31-Dec-14	
Close-Out	24-Mar-13 A	31-Dec-14	

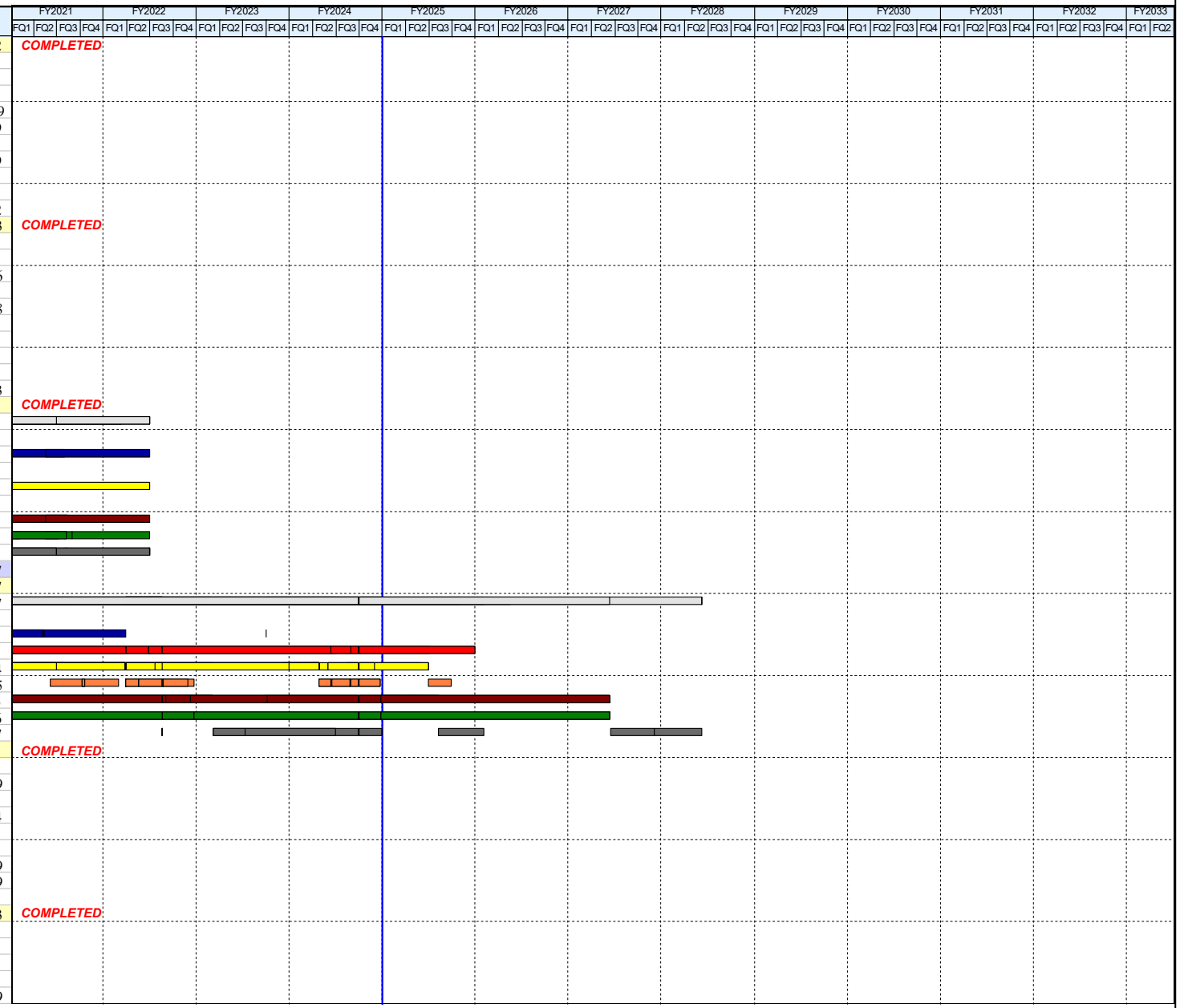
FY2021 FQ1 FQ2 FQ3 FQ4 | FY2022 FQ1 FQ2 FQ3 FQ4 | FY2023 FQ1 FQ2 FQ3 FQ4 | FY2024 FQ1 FQ2 FQ3 FQ4 | FY2025 FQ1 FQ2 FQ3 FQ4 | FY2026 FQ1 FQ2 FQ3 FQ4 | FY2027 FQ1 FQ2 FQ3 FQ4 | FY2028 FQ1 FQ2 FQ3 FQ4 | FY2029 FQ1 FQ2 FQ3 FQ4 | FY2030 FQ1 FQ2 FQ3 FQ4 | FY2031 FQ1 FQ2 FQ3 FQ4 | FY2032 FQ1 FQ2 FQ3 FQ4 | FY2033 FQ1 FQ2

Project Management | Environmental | Right-of-Way | Construction Mgmt | Closeout

Planning | Design | Bid & Award | Construction | Program Mgmt

APPENDIX A: Current Approved WSIP Phase-Level Schedules

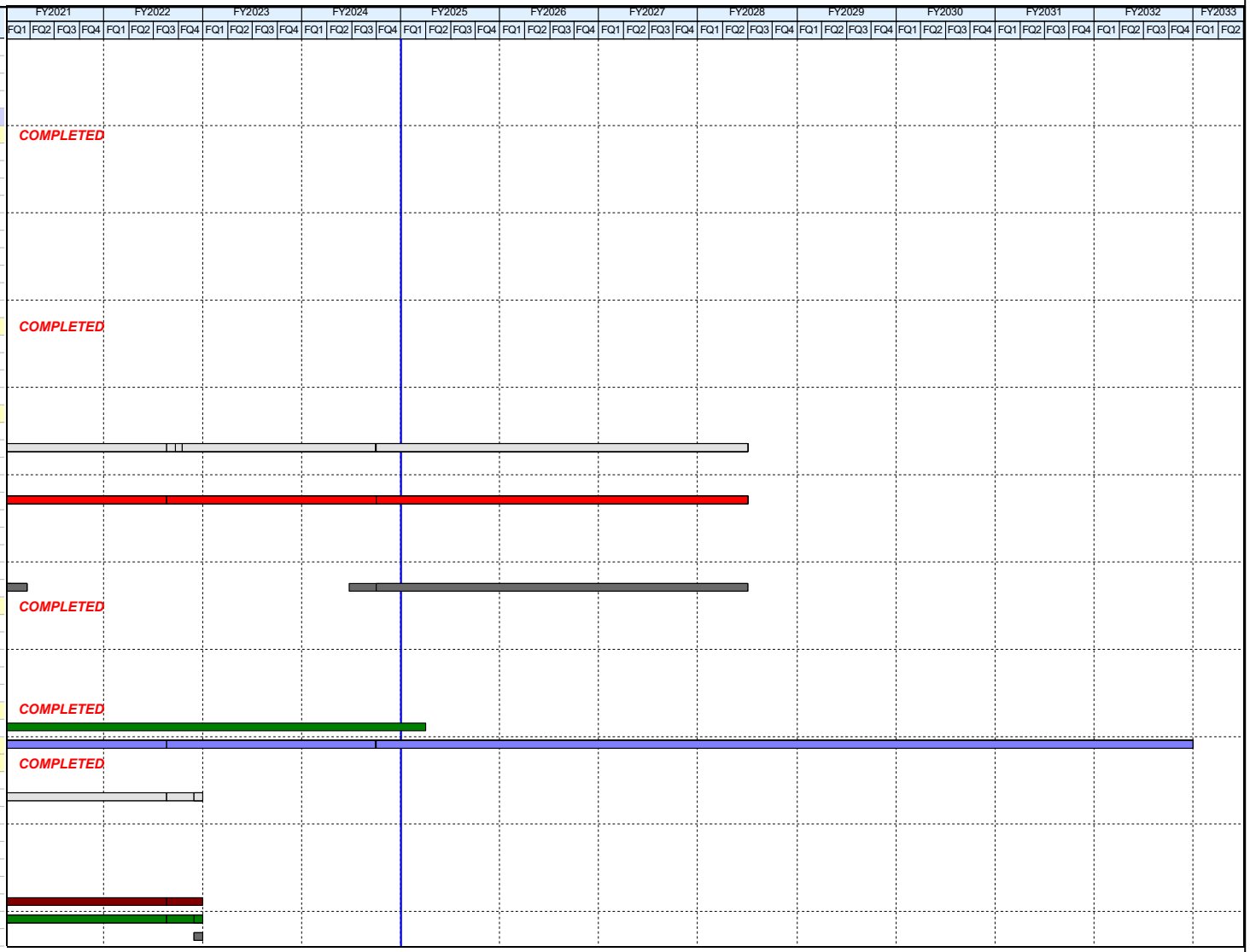
Project Name	Start	Finish
San Andreas Pipeline No. 3 Installation	15-Jan-04 A	30-Aug-12
Project Milestones		
Project Management	15-Jan-04 A	30-Jun-11
Project Planning	15-Jan-04 A	28-Apr-05
Environmental Review	01-Apr-04 A	15-May-09
Right of Way	01-Aug-06 A	13-Aug-09
Design	01-May-05 A	17-Apr-09
Bid and Award	20-Apr-09 A	26-Aug-09
Construction Management	26-Aug-09 A	30-Jun-11
Construction	26-Aug-09 A	30-Jun-11
Close-Out	01-Jul-11 A	30-Aug-12
Baden and San Pedro Valve Lots Improvements	03-Oct-05 A	29-Mar-13
Project Milestones		
Project Management	03-Oct-05 A	30-Dec-11
Project Planning	03-Oct-05 A	03-Nov-06
Environmental Review	05-Oct-06 A	21-Oct-08
Right of Way	05-Oct-06 A	31-Mar-08
Design	29-Mar-07 A	12-Jan-09
Bid and Award	29-Sep-08 A	07-Apr-09
Construction Management	08-Apr-09 A	30-Dec-11
Construction	03-Apr-09 A	30-Dec-11
Close-Out	31-Dec-11 A	29-Mar-13
WSIP Closeout - Peninsula	01-Jul-16 A	30-Dec-21
Project Management	01-Jul-16 A	30-Dec-21
Project Planning		
Environmental Review	01-Jul-16 A	30-Dec-21
Right of Way		
Design	01-Jul-16 A	30-Dec-21
Bid and Award	27-Dec-16 A	22-Jan-19
Construction Management	01-Jul-16 A	30-Dec-21
Construction	01-Jul-16 A	30-Dec-21
Close-Out	01-Jul-17 A	30-Dec-21
San Francisco Regional Region	31-Mar-00 A	07-Dec-27
Regional Groundwater Storage and Recovery	01-Jun-03 A	07-Dec-27
Project Management	01-Jul-05 A	07-Dec-27
Project Planning	01-Jun-03 A	24-Feb-20
Environmental Review	15-Oct-07 A	01-Apr-23
Right of Way	07-Apr-08 A	30-Jun-25
Design	02-Jan-08 A	27-Dec-24
Bid and Award	11-Mar-09 A	28-Mar-25
Construction Management	04-Mar-08 A	11-Dec-26
Construction	01-Jul-03 A	12-Dec-26
Close-Out	18-Feb-22 A	07-Dec-27
Sunset Reservoir - North Basin	31-Mar-00 A	10-Sep-10
Project Milestones		
Project Management	31-Mar-00 A	26-Mar-09
Project Planning	31-Mar-00 A	28-Sep-01
Environmental Review	21-May-04 A	21-Dec-04
Design	01-Oct-01 A	12-Apr-06
Bid and Award	22-Oct-04 A	10-Oct-06
Construction Management	11-Apr-05 A	26-Mar-09
Construction	11-Apr-05 A	09-Nov-09
Close-Out	13-Nov-06 A	10-Sep-10
University Mound Reservoir - North Basin	24-Oct-05 A	29-Mar-13
Project Milestones		
Project Management	24-Oct-05 A	01-Sep-11
Project Planning	24-Oct-05 A	06-Apr-07
Environmental Review	26-Dec-06 A	18-Jul-07
Design	07-Apr-07 A	24-Mar-09



Project Management | Environmental | Right-of-Way | Construction Mgmt | Closeout
Planning | Design | Bid & Award | Construction | Program Mgmt

APPENDIX A: Current Approved WSIP Phase-Level Schedules

Project Name	Start	Finish
Bid and Award	02-Feb-09 A	31-Jul-09
Construction Management	03-Aug-09 A	23-Dec-11
Construction	27-Jul-09 A	23-Aug-11
Close-Out	23-Aug-11 A	29-Mar-13
Support Projects	13-Apr-04 A	30-Jun-32
System Security Upgrades	07-Jan-06 A	19-Apr-19
Project Milestones		
Project Management	19-Jun-06 A	19-Apr-19
Project Planning	19-Jun-06 A	08-Jul-09
Environmental Review	19-Jun-06 A	28-Mar-12
Right of Way	26-Nov-08 A	26-Nov-08
Design	19-Jun-06 A	03-Aug-15
Bid and Award	07-Jan-06 A	10-Mar-14
Construction Management	13-Nov-06 A	09-Apr-19
Construction	13-Nov-06 A	09-Apr-19
Close-Out	24-Sep-07 A	09-Apr-19
Programmatic EIR	13-Apr-04 A	30-Jun-09
Project Milestones		
Project Management	13-Apr-04 A	30-Jun-09
Project Planning	13-Apr-04 A	28-Feb-07
Environmental Review	15-Jun-04 A	30-Jun-09
Bioregional Habitat Restoration	06-Sep-06 A	30-Dec-27
Project Milestones		
Project Management	01-Nov-06 A	30-Dec-27
Project Planning	06-Sep-06 A	31-Dec-07
Environmental Review	03-Jan-07 A	13-Feb-15
Right of Way	02-Jul-08 A	30-Dec-27
Design	16-Jul-07 A	27-Jul-15
Bid and Award	04-Dec-09 A	29-Jan-16
Construction Management	22-Jun-10 A	27-Jul-18
Construction	06-Mar-09 A	31-May-18
Close-Out	29-Jul-14 A	30-Dec-27
Vegetation Restoration of WSIP Construction Sites	02-Jan-13 A	30-Jun-16
Project Milestones		
Project Management	02-Jan-13 A	30-Jun-16
Construction Management	02-Jan-13 A	31-Mar-16
Construction	02-Jan-13 A	31-Mar-16
Close-Out	01-Apr-16 A	30-Jun-16
Long Term Mitigation Endowment	05-Mar-14 A	01-Oct-24
Construction	05-Mar-14 A	01-Oct-24
Program Management Project	01-Aug-05 A	30-Jun-32
Watershed and Environmental Improvement Program	02-Jan-07 A	30-Jun-22
Project Milestones		
Project Management	02-Jul-07 A	30-Jun-22
Project Planning	02-Jan-07 A	29-Jul-11
Environmental Review	05-Mar-12 A	31-Mar-20
Right of Way	14-Mar-11 A	31-Dec-17
Design	31-May-11 A	30-Sep-19
Bid and Award	30-Sep-19 A	30-Sep-19
Construction Management	01-Oct-19 A	30-Jun-22
Construction	01-Oct-19 A	30-Jun-22
Close-Out	31-May-22 A	30-Jun-22



Project Management
Environmental
Right-of-Way
Construction Mgmt
Closeout
Planning
Design
Bid & Award
Construction
Program Mgmt

APPENDIX B
WSIP Quarterly Report
Regional Projects (Q4/FY 2024- 2025)

Report available on the SFPUC Website at the following address:
https://sfpuc.org/construction-contracts/water-infrastructure-improvements

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