




DATE: May 5, 2026

TO: Commissioner Joshua Arce, President
 Commissioner Stephen E. Leveroni, Vice President
 Commissioner Avni Jamdar
 Commissioner Kate H. Stacy
 Commissioner Meghan Thurlow

FROM: Dennis J. Herrera, General Manager 

RE: Hetch Hetchy Capital Improvement Program
 Quarterly Report (3rd Quarter / FY 2025-2026)

Enclosed please find the Hetch Hetchy Capital Improvement Program (HCIP) Quarterly Report for the 3rd Quarter (Q3) of Fiscal Year (FY) 2025-2026. The primary intent of the report is to provide the Commission, stakeholders, and the public with a status summary of the HCIP based on data for the period of January 1, 2026 to March 31, 2026.

Attachment

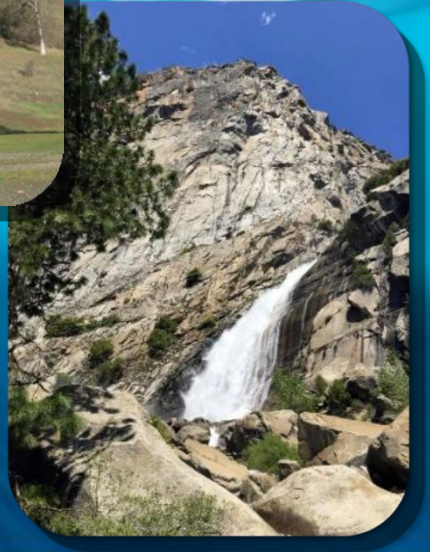
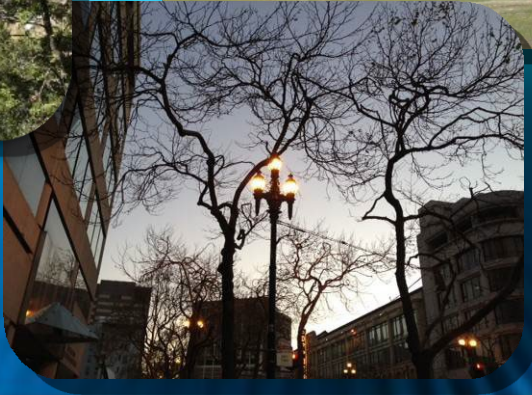
- Daniel Lurie**
Mayor
- Joshua Arce**
President
- Stephen E. Leveroni**
Vice President
- Avni Jamdar**
Commissioner
- Kate H. Stacy**
Commissioner
- Meghan Thurlow**
Commissioner
- Dennis J. Herrera**
General Manager



This page is intentionally left blank



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



QUARTERLY REPORT

Hetch Hetchy Capital Improvement Program
January 2026 – March 2026

Published: May 5, 2026

This page is intentionally left blank

EXECUTIVE SUMMARY

This quarterly report provides a summary update on the Hetch Hetchy Capital Improvement Program (HCIP) that is part of the larger Hetch Hetchy Water Capital Improvement Program. The primary intent of the report is to provide the Commission, stakeholders, and the public with a status summary of the HCIP based on data for the period of January 1, 2026 to March 31, 2026.

This quarterly report includes all approved HCIP projects in the Hetch Hetchy Water Capital Improvement Program according to the 10-Year Capital Plan for FY2024-25 to FY2033-34, presented to and adopted by the Commission on February 13, 2024 (2024 HCIP). There are 22 projects in the 2024 HCIP together with three project development (PD) accounts for program-level expenditures for each of the Water, Power, and Joint Programs. As part of the Update to the 10-Year Capital Plan for FY2025-26 to FY2034-35 that was adopted by the Commission during the quarter on February 11, 2025, none of the 22 HCIP project budgets or schedules were changed from the 2024 HCIP.

During the quarter, the proposed 10 Year Capital Plan for FY2026-27 to FY2035-36 (FY27-36 CIP) was presented to the SFPUC Commission in a series of budget hearings during the months of January and February, including revisions to projects’ scopes, schedules and budgets. On February 10, 2026, under Resolution No. 26-0022 the Commission adopted the FY27-36 CIP. The revised scopes, schedules and budgets that were adopted will continue to be shown in this quarterly report as forecasts and variances through the fourth quarter of FY25-26. During the first quarter of FY26-27 (July 1 to September 30, 2026), these project revisions will be shown as the new program baseline.

Program Current Status:

As of the end of the reporting period, the status of the 22 HCIP projects (excluding for these purposes the three PD accounts) is shown in the table below:

Total Current Approved Budget for Projects in Each Phase

Project Phase	Number of Projects	Percent by Number of Projects	Total Project Value	Percent by Project Value
Not Initiated	0	0%	\$0	0%
Planning	7	32%	\$652M	34%
Design	4	18%	\$302M	16%
Bid and Award	2	9%	\$99M	5%
Construction	2	9%	\$284M	15%
Multi-Phases	5	23%	\$453M	24%
Close-Out	0	0%	\$0	0%
Completed*	2	9%	\$137M	7%
Total	22	100%	\$1,928M	100%

* Early Intake Dam – Long Term project was cancelled due to funding availability; project moved to “Completed” phase.

Program Key Updates:

The key updates for the HCIP include:

- For the SJPL Valve and Safe Entry Improvements project, Phase 1A (HH-1005): The valves installed on this project that were subsequently rejected for not meeting performance criteria were removed under a separate contract, The team is negotiating final terms with the contractor. Phase 1B (HH-1006): Completed. Phase 2A (HH-1012): The contractor continued the restoration work to repair or replace the equipment damaged during the flooding event at Roselle Valve House. Phases 2B/2C (HH-1016): The contractor has completed 90% of the first outage work; however, a large butterfly valve was damaged during installation. A repair plan is being developed. Phase 3 (HH-1009): The Contractor has completed the sample line upgrade from PVC to stainless steel during the outage.
- For the Moccasin Powerhouse Bypass Upgrades project, the design for the preferred alternative has advanced to Conceptual Engineering Report (CER) level. The preferred alternative includes two 48-inch diameter pressurized steel pipes conveying water to a new valve house, dissipation chamber and discharge structure at the Moccasin Reservoir shoreline. Workshops for CER including constructability review were presented to stakeholders.
- For Subproject B Moccasin Powerhouse Generator Rewind (DB-121R2) contract, Hetch Hetchy Water and Power has requested the installation of a new vibration monitoring system for both generators to track the performance of the shafts after realignment. The project team is in the process of onboarding a Job Order Contract contractor for this work. For Subproject C, the 95% design has been submitted and is being reviewed.
- For Transmission Line Clearance Mitigation project, the Progressive Design-Build contract was re-bid this quarter. The project team also finalized the CEQA Exemption, which was included in the contract re-bid.



San Joaquin Pipeline Valve and Safe Entry Newly Backfilled Removable Spool Piece Vault at Pelican Valve House, Prior to Lids being Installed

- For the Warnerville Substation Rehabilitation Subproject A Phase 1, this subproject is in the closeout phase. Subproject B Phase 2: This subproject advanced to construction with the contractor mobilizing during the quarter; initial activities focused on inventory and testing of SFPUC-furnished equipment and materials.



*Warnerville Substation: Pretesting City
Furnished High Voltage Switches*

- For the Moccasin Penstock Rehabilitation, the project is proceeding with geotechnical investigations and developing a Request for Interest to be released to the contracting community to learn about project interest and gain feedback.
- For the Moccasin Engineering & Records Building, design development continues toward the 95% Construction Documents. Additional coordination for fire protection water supply and Heating, Ventilation and Cooling performance requirements associated with the server room and Archives and Records storage room is in progress. Potential impacts to overall project duration and budget are under evaluation.
- For the Moccasin Warehouse Building project, environmental review documentation was submitted to support the geotechnical investigation. Schematic design progression has been sequenced to prioritize the Moccasin Engineering and Records Building project.
- For the O’Shaughnessy Dam Outlet Works Phase 1, Subproject A (DB-135 Bulkheads) is in closeout; the construction team received the International Partnering Institute Award. Subproject B (HH-1015 Drainage & Miscellaneous Dam Improvements) progressed during this quarter, with rehabilitated ladder wells now operational and remaining punch list items in progress. Subproject C (HH-1011 Instream Flow Release Valve) is in closeout. Subproject D (Slide Gates) advanced with the Alternatives Analysis underway. Subproject E (Drum Gates) continues development of the combined Needs Assessment and Alternatives Analysis Report.

- For the Moccasin Dam & Reservoir Long-Term Improvements project, the combined Request for Qualifications and Proposals (RFQ&P) for Spillway Construction using the CM/GC delivery method was completed during this quarter and will be advertised next quarter.
- For the Cherry Dam Spillway - Short Term Improvements project, the SFPUC Commission awarded the construction contract this quarter. The construction contract includes the Cherry Dam Spillway work as well as the Eleanor Dam Bridge Interim Repairs.
- For the Eleanor Dam Rehabilitation project, the Eleanor Dam Bridge Interim Repairs construction contract (Subproject A) was awarded by the SFPUC Commission this quarter. For Subproject (B), Eleanor Dam Rehabilitation, the design team continues development of the Alternative Analysis Report.



Eleanor Dam Bridge Interim Repair Sub-Project: Pre-Construction Survey

- For the Moccasin Switchyard Rehabilitation project, the Needs Assessment Report has been approved. Preparation of the Alternative Analysis Report which includes a greenfield option (new site rather than rehabilitating the current site) is underway.
- For the Mountain Tunnel Improvements Project, Outage 5 was successfully completed with the installation of all four 72-inch diameter Double Disc Knife Gate Valves, and one of the two Flow Control Sleeve Valves. The other sleeve valve was delivered to the site. Electrical and mechanical work advanced but more must be done before second sleeve valve can be installed. A Job Order Contract was initiated to install sensors and fiber optic cables for new monitoring and controls systems located at the Second Garrote and Big Creek Shafts for the interim operation of the sleeve valves. Most of the buildings for the Moccasin Water System Filtration Plant were constructed.



Mountain Tunnel Improvements Project: Priest Flow Control Facility Shaft with two 72-inch diameter pipes, four Knife Gate Valves, one Sleeve Valve and One Spool Piece

- For the Moccasin Wastewater Treatment Plant, construction has progressed during this quarter, and the Influent Pump Station riser elevation difference was resolved. Defective concrete has been removed from the Sequencing Batch Reactor structure, and the repair plan will be executed next quarter. The starter/control panel and equipment pad conduit has been installed.



Moccasin Wastewater Treatment Plant: Influent Pump Station Riser Installation

This page is intentionally left blank

TABLE OF CONTENTS

HETCH HETCHY WATER SYSTEM

INTRODUCTION

HETCH HETCHY CAPITAL IMPROVEMENT PROGRAM (HCIP)

SECTION 1. Program Description

SECTION 2. Program Status

SECTION 3. Program Cost Summary

SECTION 4. Program Schedule Summary

SECTION 5. Project Status Report

SECTION 6. On-Going Construction

SECTION 7. Projects in Close-Out and Completed Projects

APPENDICES

A. Project Descriptions

B. Approved Project Level Budget and Schedule

C. List of Acronyms

This page is intentionally left blank

HETCH HETCHY WATER SYSTEM



This page is intentionally left blank

INTRODUCTION

The Hetch Hetchy Water and Power Division under the Water Enterprise (HHWP) is responsible for managing, operating, and maintaining water facilities that are part of the Regional Water System from Hetch Hetchy Reservoir, located in Yosemite National Park, to Alameda East Portal, located in Sunol Valley, and power facilities located from Early Intake Reservoir along the Tuolumne River to the city of Newark. HHWP facilities include three impoundment reservoirs, three regulating reservoirs, four powerhouses, one switchyard, three substations, 170 miles of pipeline and tunnels, almost 50 miles of paved road, over 160 miles of power transmission lines, watershed lands, and right-of-way properties. HHWP provides 85 percent of the San Francisco Public Utilities Commission (SFPUC) water supply for 2.7 million residential, commercial, and industrial customers in Alameda, Santa Clara, San Mateo, and San Francisco counties. On average, HHWP generates about 1,650 gigawatt hours (GWH) of clean hydro-generated power annually. A majority of HHWP staff is based in Moccasin, CA, which is 140 miles east of San Francisco.

This report provides a quarterly status update on the Hetch Hetchy Capital Improvement Program (HCIP), a group of capital improvement projects that are greater than \$5M in value and have been approved by the Commission as part of the SFPUC's 10-Year Capital Improvement Program. The status of the Hetch Hetchy R&R projects and other programmatic projects not included in the HCIP is reported annually in the Annual Report on Water Enterprise-Managed Capital Improvement Projects.

The map below shows the location of the assets and facilities associated with HHWP.



This page is intentionally left blank

HETCH HETCHY CAPITAL IMPROVEMENT PROGRAM (HCIP)

This page is intentionally left blank

SECTION 1. PROGRAM DESCRIPTION

The Hetch Hetchy Capital Improvement Program (HCIP) is a group of multi-year capital projects to upgrade existing, aging infrastructure so that it will meet the challenges of today and the future. These projects will deliver improvements that enhance the SFPUC's ability to provide reliable, affordable, high-quality water to its 2.7 million customers in an environmentally sustainable manner. The goals are

1) to provide capital improvements needed to cost-effectively ensure that water quality, seismic reliability, delivery reliability, and water supply objectives established for the Regional Water System facilities managed by HHWP are met, and 2) to optimize the benefits of HHWP power facilities operations. Ongoing development of the HCIP will sustain the Regional Water System's status as an unfiltered water source and a gravity-driven system.

The scope of HCIP is divided into three major project types: Water, Power, and Joint. The Water sub-program includes only asset improvements that benefit the SFPUC's water customers. The Power sub-program includes only asset improvements used to generate environmentally friendly hydroelectric energy. The Joint sub-program includes projects for assets that are used for both water delivery and power generation. In addition, projects in each sub-program of the HCIP have been further organized by asset type consisting of the following:

Water Infrastructure

- Water Conveyance – projects to enhance the reliability of water delivery through pipelines and tunnels, allowing for delivery of water to SFPUC customers.
- Water-Only Facilities – projects that benefit water delivery (but not power production) such as water quality protection and improvement projects.

Power Infrastructure

- Powerhouse – projects to improve facilities at the Holm, Kirkwood, and Moccasin powerhouses.
- Switchyard & Substations – projects to meet operational objectives for power, including reliability, regulatory compliance, and sustainability.
- Transmission Lines – projects to expand or improve power assets for electricity transmission.
- Power-Only Facilities – other projects that benefit power production and transmission (but not water) such as Cherry-Eleanor Pump Station.

Joint (Water and Power) Infrastructure

- Dams & Reservoirs – projects to improve assets used for storage and delivery of water to SFPUC customers, as well as for water storage for power generation.
- Mountain Tunnel – projects to address deficiencies with the Mountain Tunnel, a critical, non-redundant link in the Hetch Hetchy and Regional Water System that conveys water from Kirkwood Powerhouse to Priest Reservoir.
- Roads & Bridges – projects to replace or improve roads and bridges that are utilized to access HHWP assets.
- Utilities – projects to expand or improve utilities for asset and work locations such as water and wastewater treatment facilities.
- Buildings – projects to provide safe and code compliant workspaces.

SECTION 2. PROGRAM STATUS

This Quarterly Report presents the progress made on HCIP between January 1, 2026 and March 31, 2026. This document serves as the third Quarterly Report in Fiscal Year 2025-2026 (FY26) published for the HCIP.

This quarterly report includes all HCIP projects in the Hetch Hetchy Water Capital Improvement Program according to the 10-Year Capital Plan for FY2024-25 to FY2033-34 (FY25-34 CIP), presented to and adopted by the Commission on February 13, 2024, under Resolution No. 24-0032 (2024 HCIP). The 2024 HCIP is a subset of the Hetch Hetchy Water 10-Year CIP for FY2025-2034 and includes individual projects over \$5 million that were then currently active or intended to be active by July 1, 2024 at the time proposed to the Commission on February 13, 2024. This baseline for comparison will remain the same until adoption of a new 10-Year CIP; the baseline will be updated with the changes in the adopted CIP at the start of the new fiscal year following adoption. As part of the mid-cycle update to the 10-Year Capital Plan for FY2025-26 to FY2034-35 that was adopted by the Commission on February 11, 2025, none of the 22 HCIP project budgets or schedules were changed from the 2024 HCIP.

During the quarter, the proposed 10 Year Capital Plan for FY2026-27 to FY2035-36 (FY27-36 CIP) was presented to the SFPUC Commission in a series of budget hearings during the months of January and February, including revisions to projects' scopes, schedules and budgets. On February 10, 2026, under Resolution No. 26-0022 the Commission adopted the FY27-36 CIP. The revised scopes, schedules and budgets that were adopted will continue to be shown in this quarterly report as forecasts and variances through the fourth quarter of FY25-26. During the first quarter of FY26-27 (July 1 to September 30, 2026), these project revisions will be shown as the new program baseline.

There are 22 projects in the 2024 HCIP together with three project development (PD) accounts for program-level expenditures for each of the Water, Power, and Joint Programs. A description of each project and of each project development account is provided in the Appendix A of this report.

The accrued PD expenditures are included in the Cost Summary in Table 3 in order to give an accurate report of the overall HCIP cost performance.

Table 2.1 below shows the number of projects and total project value in each phase of the program based on the Current Approved Budget for all 22 projects as of March 31, 2026 (PD accounts do not have phases and are not included in Table 2.1).

Table 2.1 Total Current Approved Budget for Projects Active in Each Phase

Project Phase	Number of Projects	Percent by Number of Projects	Total Project Value	Percent by Project Value
Not Initiated	0	0%	\$0	0%
Planning	7	32%	\$652M	34%
Design	4	18%	\$302M	16%
Bid and Award	2	9%	\$99M	5%
Construction	2	9%	\$284M	15%
Multi-Phases	5	23%	\$453M	24%
Close-Out	0	0%	\$0	0%
Completed*	2	9%	\$137M	7%
Total	22	100%	\$1,928M	100%

* Early Intake Dam – Long Term project was cancelled due to funding availability; project moved to “Completed” phase.

PROJECT MILESTONES ACHIEVED:

A list of project milestones achieved during the reporting period is shown in Table 2.2 below.

Table 2.2 Project Milestones Achieved During Quarter

Project ID & Name	Milestone Achieved
10014089 – Transmission Lines Clearance Mitigation	Categorical Exemption Approved
10039680 – Moccasin Engineering and Records Building	Categorical Exemption Approved
10014115 Cherry Dam Spillway - Short Term Improvements	Contract Awarded - HH-1022
	Mitigated Negative Declaration Approved
10042956 - O'Shaughnessy Dam Outlet Works Phase II - Subproject A (Slot 1 & 2 Slide Gates and Drum Gates)	Project Initiated - Planning Phase Begun
10030759 - Eleanor Dam Rehabilitation - Subproject A – Eleanor Dam Bridge Interim Repairs	Contract Awarded - HH-1022

SECTION 3. PROGRAM COST SUMMARY

Table 3 provides an overall cost summary of the 22 HCIP projects and three HCIP PD accounts at the end of the quarter, including Expenditures to Date, Expenditures Over Reporting Period, Current Approved Budget, Current Forecast Cost, Cost Variance between the Approved and Forecast Costs, and Cost Variance Over the Reporting Period (difference between cost forecasts reported in Q2/FY2025-26 and in Q3/FY2025-26). The Current Approved Budget and Forecast Cost for the HCIP are \$2,016.8 million and \$2,283.2 million, respectively.

The overall 2024 HCIP negative Cost Variance of \$266.3 million in Table 3 can be attributed to the projects listed below; project cost variances are also provided below. The reasons for the project variances are reported in Section 5. Note that all forecasted changes to project cost and schedules were included in the FY27-36 10-Year CIP budget that was presented to and adopted by the SFPUC Commission under Resolution 26-0022 on February 10, 2026. This quarterly report includes updated cost and schedule forecasts that reflect all requested project budget and schedule changes:

- The Water Project Development \$2.26M cost increase variance is a continuation from Q2 of FY25/26.
- The Moccasin Powerhouse and GSU Rehabilitation \$25.94M cost increase variance is a continuation of \$13.48M, \$2.15M, and \$10.31M from Q4 of FY23/24, Q2 of FY24/25, and Q4 of FY24/25, respectively.
- The Moccasin Powerhouse Bypass Upgrade \$43.56M cost increase variance is a continuation from Q2 of FY25/26.
- The Warnerville Substation Rehabilitation Project \$1.37 cost increase variance is a continuation of \$0.92M and \$1.00M from Q2 and Q3 of FY24/25, respectively, and a continuation of \$0.55M cost decrease variance from Q2 of FY25/26.
- The Moccasin Switchyard Rehabilitation \$13.04M cost increase variance is a continuation from Q2 FY25/26.
- The Transmission Lines 7/8 Upgrades \$4.74M cost decrease variance is a continuation of \$1.90M decrease variance from Q4 of FY23/24, and an additional forecast cost decrease of \$2.84M during the quarter.
- The Transmission Lines Clearance Mitigation \$25.82M cost increase variance is a continuation of \$23.05M from Q4 of FY24/25, and \$2.77M from Q2 of FY25/26 respectively.
- The Power Project Development \$9.39M cost increase variance is a continuation from Q2 of FY25/26.
- The Moccasin Penstock Rehabilitation \$202.53M cost increase variance is a continuation from Q2 of FY25/26.
- The Moccasin Warehouse Building \$8.87M cost increase variance is a continuation from Q3 of FY24/25.
- The O'Shaughnessy Dam Outlet Works Phase 1 \$2.80M cost decrease variance is a continuation from Q2 of FY25/26.
- The Moccasin Dam & Reservoir Long Term Improvements \$20.02M cost increase variance is a continuation of \$22.54M from Q1 of FY24/25, and a continuation of cost decrease variance of \$2.52M from Q2 of FY25/26.
- The Cherry Dam Spillway – Short Term Improvements \$4.43M cost increase variance is a continuation from Q1 of FY25/26.

- The Early Intake Dam – Long Term \$98.30M cost decrease variance is a continuation of \$98.87M from Q4 of FY24/25, and a continuation of cost increase variance of \$0.56M from Q2 of FY25/26.
- The Joint Project Development \$14.97M cost increase variance is a continuation from Q2 of FY25/26.

Please be advised that all negative values reported for cost and schedule variances reflect forecasted cost overruns or schedule delays.

Table 3 Program Cost Summary

Subprograms	Expenditures To Date	Expenditures Over Reporting Period	Current Approved Budget	Q3/FY2025-26 Forecast Costs	Cost Variance	Variance Over Reporting Period
Water Infrastructure	\$100.1M	\$14.7M	\$209.4M	\$211.7M	(\$2.3M)	\$0
Water Conveyance (Water)	\$92.7M	\$14.3M	\$196.5M	\$196.5M	\$0	\$0
Water Infrastructure Project Development	\$7.3M	\$0.4M	\$12.9M	\$15.2M	(\$2.3M)	\$0
Power Infrastructure	\$151.6M	\$3.1M	\$376.4M	\$490.8M	(\$114.4M)	\$2.8M
Dams & Reservoir (Power)	\$0.7M	\$0.1M	\$38.8M	\$38.8M	\$0	\$0
Powerhouse	\$63.7M	\$1.9M	\$141.6M	\$211.1M	(\$69.5M)	\$0
Switchyard & Substations (Power)	\$28.2M	\$0.4M	\$57.1M	\$71.5M	(\$14.4M)	\$0
Transmission Lines	\$52.8M	\$0.4M	\$121.0M	\$142.1M	(\$21.1M)	\$2.8M
Power Infrastructure Project Development	\$6.3M	\$0.3M	\$17.9M	\$27.3M	(\$9.4M)	\$0
Joint Infrastructure	\$296.5M	\$24.2M	\$1,431.0M	\$1,580.7M	(\$149.7M)	\$0
Water Conveyance (Joint)	\$11.3M	\$1.6M	\$331.2M	\$533.7M	(\$202.5M)	\$0
Buildings (Joint)	\$5.9M	\$1.1M	\$115.0M	\$123.9M	(\$8.9M)	\$0
Dams & Reservoirs (Joint)	\$51.9M	\$2.5M	\$598.9M	\$522.2M	\$76.7M	\$0
Mountain Tunnel	\$201.7M	\$16.9M	\$268.7M	\$268.7M	\$0	\$0
Powerhouse (Joint)	\$1.2M	\$0.1M	\$13.5M	\$13.5M	\$0	\$0
Tunnels (Joint)	\$3.0M	\$0.1M	\$30.1M	\$30.1M	\$0	\$0
Utilities (Joint)	\$7.9M	\$0.8M	\$15.4M	\$15.4M	\$0	\$0
Joint Infrastructure Project Development	\$13.5M	\$1.1M	\$58.3M	\$73.3M	(\$15.0M)	\$0
Overall Program Total	\$548.1M	\$42.0M	\$2,016.8M	\$2,283.2M	(\$266.3M)	\$2.8M

SECTION 4. PROGRAM SCHEDULE SUMMARY

Table 4 compares the FY2025–2034 CIP Approved Schedule and the Current Forecast Schedule for the HCIP. As shown in Table 4, the HCIP approved and forecast schedule is December 2041.

Table 4. FY2025-2034 CIP Approved versus Current Forecast Schedule Dates

Programs	Current Approved Project Start	Actual Start	Current Approved Completion	Current Forecast Completion	Schedule Variance (Months)
Water Infrastructure	03/26/12	03/26/12 Actualized	06/30/34	06/30/36	(24)
Power Infrastructure	05/29/12	05/29/12 Actualized	06/30/34	06/30/36	(24)
Joint Infrastructure	10/03/11	10/03/11 Actualized	12/31/41	12/31/41	0
Overall HCIP Projects	10/03/11	10/03/11 Actualized	12/31/41	12/31/41	0

SECTION 5. PROJECT STATUS REPORT

This section includes project updates for all projects in Planning, Design, Bid and Award, and Construction phases, but does not include projects in Not Initiated, Close-Out and Completed phases. The reports include updates to project costs and schedules as well as general progress during the quarter and any issues or challenges that are trending or forecasted to result in variances to scope, schedule or budget.

10035575 - SJPL Valve and Safe Entry Improvement

Approved Budget:	\$157.75M	Approved Completion Date:	02/28/29
Forecast Cost:	\$157.75M	Forecast Completion Date:	02/28/29
Cost Variance:	None	Schedule Variance:	None
Expenditures to Date:	\$92.50M	Expenditures Over the Reporting Period:	\$14.29M
Subprogram:	Water Conveyance (Water)	Environmental Status:	Completed (Cat Ex)
Current Phase:	Multi-Phases		

Progress and Status:

This project is divided into five (5) subprojects: (A) Phase 1A – Pipeline 2 Tesla & Oakdale Entry Improvements – HH-1005; (B) Phase 1B – Pipelines 3&4 Tesla & Oakdale Entry Improvements – HH-1006; (C) Phase 2A – Crossover Valve Improvement Pipelines 2&3 – HH-1012; (D) Phase 2B/2C – Removable Spool Piece and Valve Improvements at Crossovers and P4J – HH-1016; and (E) Phase 3 – Tesla Surge Tower – HH-1009. Phase 1A (HH-1005): The valves installed on this project that were subsequently rejected for not meeting performance criteria were removed under a separate contract, and the team is negotiating final contract terms. Phase 1B (HH-1006): Completed. Phase 2A (HH-1012): The contractor continued the restoration work to repair or replace the equipment damaged during the flooding event at Roselle Valve House. Phases 2B/2C (HH-1016): The contractor has completed 90% of the first outage work; however, a large butterfly valve was damaged during installation. A repair plan is being developed. Phase 3 (HH-1009): The Contractor has completed the sample line upgrade from PVC to stainless steel during the Hetch Hetchy system outage

Issues and Challenges:

None at this time.

10041725 - SJPL Valve Remote Control and Monitoring

Approved Budget:	\$38.74M	Approved Completion Date:	12/31/28
Forecast Cost:	\$38.74M	Forecast Completion Date:	06/30/31
Cost Variance:	None	Schedule Variance:	-911 days
Expenditures to Date:	\$0.24M	Expenditures Over the Reporting Period:	\$0.02M
Subprogram:	Water Conveyance (Water)	Environmental Status:	Not Initiated (TBD)
Current Phase:	Planning		

Progress and Status:

The task order for a consultant to support Alternative Analysis was approved and the Notice to Proceed was issued to the consultant during this quarter.

Issues and Challenges:

As reported last quarter, the schedule variance is due to delay in starting the initial planning phase. Validation of the scope has also necessitated an extension of the schedule; the longer schedule duration is estimated to be needed to successfully complete the project. The project's forecasted cost and schedule have been included in the recently approved Capital Improvement Plan.

10014079 - Cherry-Eleanor Pumps

Approved Budget:	\$38.80M	Approved Completion Date:	06/30/31
Forecast Cost:	\$38.80M	Forecast Completion Date:	06/03/33
Cost Variance:	None	Schedule Variance:	-704 days
Expenditures to Date:	\$0.67M	Expenditures Over the Reporting Period:	\$0.09M
Subprogram:	Dams & Reservoirs (Power)	Environmental Status:	Not Initiated (TBD)
Current Phase:	Planning		

Progress and Status:

The task order for a consultant to support the Alternatives Analysis was approved during this quarter.

Issues and Challenges:

As reported last quarter, the schedule variance is due to delay in starting the initial planning phase. Validation of the scope has also necessitated an extension of the schedule; the longer schedule duration is estimated to be needed to complete the project. The project's forecasted cost and schedule have been included in the recently approved Capital Improvement Plan.

10014086 - Moccasin Powerhouse and GSU Rehabilitation

Approved Budget:	\$100.56M	Approved Completion Date:	12/31/28
Forecast Cost:	\$126.50M	Forecast Completion Date:	03/31/31
Cost Variance:	(\$25.94M)	Schedule Variance:	-820 days
Expenditures to Date:	\$58.59M	Expenditures Over the Reporting Period:	\$0.79M
Subprogram:	Powerhouse	Environmental Status:	Completed (Cat Ex)
Current Phase:	Multi-Phases		

Progress and Status:

Subproject A – Moccasin Powerhouse Generator Step-Up (GSU) Transformers: completed. Subproject B – Moccasin Powerhouse Generator Rewind (DB-121R2): Hetch Hetchy Water and Power has requested the installation of a new vibration monitoring system for both generators to track the performance of the shafts after realignment. The project team is in the process of onboarding a Job Order Contractor for this work. Construction Final Completion for Subproject B may be delayed until delivery of the new vibration monitoring equipment is complete. Subproject C – Moccasin Powerhouse Systems Upgrade: The 95% design has been submitted and is being reviewed.

Issues and Challenges:

As reported previously, the variance between the approved budget and forecasted cost is due to increased cost contingency of the DB-121R2 contract for the new fire suppression system and solutions to address Unit M1 alignment, as well as forecasted cost increases in Subproject C – Systems Upgrade, where higher costs are anticipated from scope refinement, higher construction and procurement costs, and additional construction management and support resource requirements. The schedule change is a result of the delay in the design schedule due to project complexity as well as delay to the Moccasin Bypass Upgrades project. Construction for that project must be completed before physical work inside the powerhouse and outages for Subproject C can begin. The project's forecasted cost and schedule have been included in the recently approved Capital Improvement Plan.

10036809 - HHW - Moccasin Powerhouse Bypass Upgrade

Approved Budget:	\$41.06M	Approved Completion Date:	12/01/27
Forecast Cost:	\$84.62M	Forecast Completion Date:	05/31/30
Cost Variance:	(\$43.56M)	Schedule Variance:	-912 days
Expenditures to Date:	\$5.09M	Expenditures Over the Reporting Period:	\$1.08M
Subprogram:	Powerhouse	Environmental Status:	Active (Cat Ex)
Current Phase:	Design		

Progress and Status:

Conceptual Engineering began for the design changes to implement the preferred alternative, which includes two 48-inch diameter pressurized steel pipes conveying water to a new valve house, a new energy dissipation chamber, and a discharge structure at the Moccasin Reservoir shoreline. Workshops including constructability reviews were presented to stakeholders. Subsurface investigations and topographic and bathymetric surveys are underway. The project team is exploring alternate project delivery methods that may result in accelerating the schedule to better align with the shutdowns for the Moccasin Powerhouse Systems Upgrade Project.

Issues and Challenges:

As previously reported, the redesign required that the design team start again at the conceptual engineering design phase before developing bid documents for review. This has added 10 months to the design phase of the project. The scope of the redesign is estimated to increase the project construction duration by 6 months, extending the construction period to 24 months. The scope of the redesign includes two new facility structures, more high-pressure pipe materials and additional construction scope including the dissipation chamber and the discharge structure at the reservoir, two 48-inch diameter high pressure steel pipelines from the penstocks to the Moccasin Powerhouse, deep excavation between the existing powerhouses, and mitigation for construction occurring below the reservoir surface level. Each of these components added significant cost to the project budget, increasing the cost by close to two times. The project cost and schedule impacts associated with this redesign have been reflected in the forecast and included in the recently approved Capital Improvement Plan.

10039568 - Moccasin Switchyard Rehabilitation

Approved Budget:	\$19.71M	Approved Completion Date:	01/31/30
Forecast Cost:	\$32.75M	Forecast Completion Date:	08/12/31
Cost Variance:	(\$13.04M)	Schedule Variance:	-558 days
Expenditures to Date:	\$0.94M	Expenditures Over the Reporting Period:	\$0.12M
Subprogram:	Switchyard & Substations (Power)	Environmental Status:	Not Initiated (TBD)
Current Phase:	Planning		

Progress and Status:

The Needs Assessment Report has been finalized, reviewed by stakeholders, approved, and signed. Preparation for Alternative Analysis Report (AAR) has commenced. As reported previously, the Greenfield option (for a new facility on a new site) will be included in the AAR as an alternative.

Issues and Challenges:

As reported previously, the variance in schedule is due to the need to have project work commence after completion of the Moccasin Powerhouse Bypass project. The variance in budget is due to the higher construction and escalation costs. The project's forecasted cost and schedule have been included in the recently approved Capital Improvement Plan.

10014087 - Warnerville Substation Rehabilitation

Approved Budget:	\$37.41M	Approved Completion Date:	11/25/26
Forecast Cost:	\$38.78M	Forecast Completion Date:	11/08/27
Cost Variance:	(\$1.37M)	Schedule Variance:	-348 days
Expenditures to Date:	\$27.24M	Expenditures Over the Reporting Period:	\$0.29M
Subprogram:	Switchyard & Substations (Power)	Environmental Status:	Completed (Cat Ex)
Current Phase:	Multi-Phases		

Progress and Status:

This project is divided into two subprojects. Subproject A – Phase 1 (DB-127R): This subproject is in the close-out phase. Subproject B Phase 2 (HH-1017): This subproject advanced to construction with initial activities focused on inventory and testing of SFPUC-furnished equipment and materials.

Issues and Challenges:

As previously reported, the increased cost and extended schedule duration are primarily driven by longer than expected high voltage equipment lead times and rising labor costs. Additionally, broader market conditions, including post-pandemic supply chain delays and labor shortages, have increased costs across all work scopes. The project's forecasted cost and schedule have been included in the recently approved Capital Improvement Plan.

10014089 - Transmission Lines Clearance Mitigation

Approved Budget:	\$83.68M	Approved Completion Date:	06/30/29
Forecast Cost:	\$109.50M	Forecast Completion Date:	06/30/30
Cost Variance:	(\$25.82M)	Schedule Variance:	-365 days
Expenditures to Date:	\$20.42M	Expenditures Over the Reporting Period:	\$0.41M
Subprogram:	Transmission Lines	Environmental Status:	Completed (Cat Ex)
Current Phase:	Bid and Award		

Progress and Status:

Preparation of the California Environmental Quality Act (CEQA) Exemption was finalized this quarter. The Progressive Design Build contract was re-advertised this quarter.

Issues and Challenges:

As reported previously, the project's forecasted cost and schedule have been updated to reflect the delay associated with the bid protest and rejection of all bids in 2025; the updated schedule and budget have been included in the recently approved Capital Improvement Plan.

10014088 - Moccasin Penstock Rehabilitation

Approved Budget:	\$331.17M	Approved Completion Date:	12/08/34
Forecast Cost:	\$533.70M	Forecast Completion Date:	12/31/36
Cost Variance:	(\$202.53M)	Schedule Variance:	-754 days
Expenditures to Date:	\$11.34M	Expenditures Over the Reporting Period:	\$1.59M
Subprogram:	Water Conveyance (Joint)	Environmental Status:	Not Initiated (EIR)
Current Phase:	Planning		

Progress and Status:

The surge shaft inspection and removable spool piece installation were completed during the Hetch Hetchy system shutdown in this quarter. With the purchase of the property adjacent to the Moccasin Penstock last quarter, the project team is now evaluating multiple alternatives along the existing Penstock alignment within the current Raker Act Right of Way. A geotechnical investigation plan and schedule have been developed, and field work will begin next quarter. A Request for Interest (RFI) to solicit information and feedback on the Moccasin Penstock project is being developed and will be released in the next quarter. The final Alternative Analysis Report will be resumed upon the conclusion of the geotechnical investigation and the RFI. Once site conditions and costs are better understood, the alternatives within the existing alignment will be re-evaluated.

Issues and Challenges:

As reported previously, the budget and schedule variances are based on the cost and schedule estimates to construct a tunnel alternative. The project's forecasted cost and schedule have been included in the recently approved Capital Improvement Plan.

10039680 - Moccasin Engineering and Records Building

Approved Budget:	\$88.73M	Approved Completion Date:	05/31/29
Forecast Cost:	\$88.73M	Forecast Completion Date:	05/31/29
Cost Variance:	None	Schedule Variance:	None
Expenditures to Date:	\$5.33M	Expenditures Over the Reporting Period:	\$1.08M
Subprogram:	Buildings (Joint)	Environmental Status:	Completed (Cat Ex)
Current Phase:	Design		

Progress and Status:

SF Planning reviewed and approved the environmental review document for a Categorical Exemption. The design team continued addressing stakeholder and construction management team review comments as part of the ongoing development of the 95% Construction Documents. The project team is coordinating with Hetch Hetchy Water & Power on the power needs for the new building. Additional coordination is underway to incorporate fire protection water supply requirements and heating, ventilation, and cooling performance considerations for the server room and Archives and Records storage room. The project team is evaluating the potential impacts to overall project duration and budget.

Issues and Challenges:

None at this time.

10041727 - Moccasin Warehouse Building

Approved Budget:	\$26.29M	Approved Completion Date:	04/01/31
Forecast Cost:	\$35.16M	Forecast Completion Date:	01/21/30
Cost Variance:	(\$8.87M)	Schedule Variance:	435 days
Expenditures to Date:	\$0.58M	Expenditures Over the Reporting Period:	\$0.05M
Subprogram:	Buildings (Joint)	Environmental Status:	Active (Cat Ex)
Current Phase:	Planning		

Progress and Status:

The project team submitted an environment review document for the geotechnical investigation. Schematic design is on hold to allow the design team from SF Public Works to focus on completing the Moccasin Engineering and Records building project prior to this project. The project team is evaluating the potential impacts to overall project duration and budget.

Issues and Challenges:

As reported last quarter, the project is currently experiencing a cost variance due to a requested increase in warehouse building size from approximately 9,000 square feet to 15,000–20,000 square feet, as directed by HHWP to consolidate storage from multiple campus locations. This scope increase has resulted in forecasted costs exceeding the approved budget. The project shows a schedule variance with the forecasted completion date approximately one year earlier than the approved baseline. This acceleration is attributable to early scope refinement and the recommended reallocation of funding to support an expedited delivery approach. The forecasted cost and schedule have been included in the recently approved Capital Improvement Plan.

10037351 - Moccasin Dam & Reservoir Long Term Improvement

Approved Budget:	\$142.19M	Approved Completion Date:	12/31/34
Forecast Cost:	\$162.21M	Forecast Completion Date:	06/30/33
Cost Variance:	(\$20.02M)	Schedule Variance:	549 days
Expenditures to Date:	\$8.16M	Expenditures Over the Reporting Period:	\$0.32M
Subprogram:	Dams & Reservoirs (Joint)	Environmental Status:	Active (TBD)
Current Phase:	Design		

Progress and Status:

The task order for a consultant to support the Alternative Analysis was approved, and the Notice to Proceed was issued to the consultant during this quarter. The project team has finished the combined Request for Qualifications and Proposals (RFQ&P) for the project construction using the Construction Manager/General Contractor (CM/GC) delivery method.

Issues and Challenges:

As previously reported, the cost and schedule variance are due to updates to the project cost estimate and refinements to the environmental review approach, primarily resulting from recent escalation in concrete and steel prices. In addition, based on preliminary discussions with the Planning Department, the anticipated California Environmental Quality Act (CEQA) requirement may be reduced from an Environmental Impact Report (EIR) to a Mitigated Negative Declaration (MND), which is expected to reduce the overall project duration by approximately 18 months. The project's forecasted cost and schedule have been included in the recently approved Capital Improvement Plan.

10014115 - Cherry Dam Spillway - Short Term Improvements

Approved Budget:	\$14.89M	Approved Completion Date:	06/30/27
Forecast Cost:	\$19.31M	Forecast Completion Date:	01/28/28
Cost Variance:	(\$4.43M)	Schedule Variance:	-212 days
Expenditures to Date:	\$4.40M	Expenditures Over the Reporting Period:	\$0.21M
Subprogram:	Dams & Reservoirs (Joint)	Environmental Status:	Completed (MND)
Current Phase:	Bid and Award		

Progress and Status:

The SFPUC Commission awarded the construction contract this quarter and the Notice-to-Proceed is anticipated to be issued next quarter. Tree cutting was successfully completed during this quarter, and any remaining tree felling will be accomplished by the contractor during construction.

Issues and Challenges:

As previously reported, the cost and schedule variance are due to scope refinement identified during the 65% design review, which concluded that additional excavation and armoring of the upper spillway are required to meet project objectives and regulatory performance criteria. These scope additions resulted in increased construction cost estimates and associated soft cost impacts, increasing the total project cost forecast. The revised scope also extended the construction duration, with substantial completion now forecasted for July 2027. Project cost and schedule forecasts have been updated to reflect these changes and are incorporated into the recently approved Capital Improvement Plan.

10032903 - O'Shaughnessy Dam Outlet Works Phase 1

Approved Budget:	\$43.73M	Approved Completion Date:	12/31/25
Forecast Cost:	\$40.93M	Forecast Completion Date:	05/28/27
Cost Variance:	\$2.80M	Schedule Variance:	-513 days
Expenditures to Date:	\$36.19M	Expenditures Over the Reporting Period:	\$1.70M
Subprogram:	Dams & Reservoirs (Joint)	Environmental Status:	Completed (Cat Ex)
Current Phase:	Multi-Phases		

Progress and Status:

This project is divided into five subprojects. Subproject A (Bulkheads, DB-135): The project team continues to work on contract closeout. During the quarter, the construction team received the International Partnering Institute award. Subproject B (Drainage & Miscellaneous Dam Improvements, HH-1015): During this quarter, the watertight door and all ladder well platforms were installed and are operational. The project team continues to work on punch list items. Subproject C (Instream Flow Release Valve Replacement, HH-1011): The project team continues to work on contract closeout. Subproject D (Slide Gates): The Needs Assessment Report has been finalized and approved. The project team is working on the Alternatives Analysis Report. Subproject E (Drum Gates): The project team continues to finalize the combined Needs Assessment and Alternatives Analysis Report.

Issues and Challenges:

As reported previously, the variance between the approved and forecasted project completion date is due to the increase in construction duration in Subproject B to resolve the platform issues and complete the additional crack remediation work. The total project cost has been reduced due to savings from the construction phase in Subproject A. The project's forecasted cost and schedule have been included in the recently approved Capital Improvement Plan.

10042956 - O'Shaughnessy Dam Outlet Works Phase 2

Approved Budget:	\$184.11M	Approved Completion Date:	12/31/41
Forecast Cost:	\$184.11M	Forecast Completion Date:	12/31/41
Cost Variance:	None	Schedule Variance:	None
Expenditures to Date:	\$0	Expenditures Over the Reporting Period:	\$0
Subprogram:	Dams & Reservoirs (Joint)	Environmental Status:	Active (TBD)
Current Phase:	Planning		

Progress and Status:

This project consists of three subprojects. Subproject A: Slot 1 & 2 Slide Gates and Drum Gates: The subproject has recently been initiated, and initial planning and coordination activities are underway. Subproject B: Slot A, B, & C Slide Gates and Tunnel Improvements. Subproject C: Face Valves. The remaining two subprojects are anticipated to begin at a later stage.

Issues and Challenges:

None at this time.

10030759 - Eleanor Dam Rehabilitation

Approved Budget:	\$113.87M	Approved Completion Date:	12/31/38
Forecast Cost:	\$113.87M	Forecast Completion Date:	12/31/38
Cost Variance:	None	Schedule Variance:	None
Expenditures to Date:	\$2.15M	Expenditures Over the Reporting Period:	\$0.29M
Subprogram:	Dams & Reservoirs (Joint)	Environmental Status:	Active (Various)
Current Phase:	Multi-Phases		

Progress and Status:

This project is divided into two subprojects: (A) the Eleanor Dam Bridge Interim Repairs and (B) the Eleanor Dam and Bridge Long-Term Rehabilitation. For Subproject (A), the Eleanor Dam Interim Repairs construction contract was awarded by the commission this quarter, and Notice-to-Proceed is anticipated to be issued next quarter. A site visit was also performed this quarter to evaluate the condition of the spillway for future considerations. For Subproject (B), the design team continues working on the Alternative Analysis Report.

Issues and Challenges:

None at this time.

10014114 - Mountain Tunnel Improvement Project

Approved Budget:	\$268.67M	Approved Completion Date:	06/03/27
Forecast Cost:	\$268.67M	Forecast Completion Date:	06/03/27
Cost Variance:	None	Schedule Variance:	None
Expenditures to Date:	\$201.73M	Expenditures Over the Reporting Period:	\$16.91M
Subprogram:	Mountain Tunnel	Environmental Status:	Completed
Current Phase:	Construction		

Progress and Status:

This project includes two subprojects. Subproject A (HH-1000R) Mountain Tunnel Improvements: Work during this quarter focused on Outage No. 5 (final Hetch Hetchy System Project outage), including construction work inside the tunnel and at the Flow Control Facility (FCF) Building and Shaft. This outage work was done by utilizing the two previously installed Double-Disc Knife Gate Valves (DDGKVs) for system isolation, which avoided the need to lower Priest Reservoir. The remaining two DDGKVs were successfully installed. One Sleeve Valve was installed, and the remaining sleeve valve was delivered to the site. Significant electrical, control panels, and mechanical equipment were successfully installed. Due to some design changes, more electrical and communication work must be completed before the second sleeve valve can be installed. All the defective tunnel concrete linings were removed and successfully repaired. This Hetch Hetchy System Outage had a delayed start and an early return to service, resulting in fewer working days for the project. Final survey monuments were placed inside the tunnel, and the new rock trap was completed. New 18-inch diameter knife gate valves were installed in the bypass piping located at the bottom of the larger valves to allow for cleaning. The Mountain Tunnel was successfully returned to service at the end of the outage. Work continued on completing the last 5% of the Priest Adit concrete final lining. FCF Building roof beams arrived at the site. For the Interim Operations of the sleeve valves, Job Order Contract (JOC) 112-03 was initiated, and a joint scope meeting and site visit were conducted with the contractor. Final commissioning and utilization of the sleeve valves will take place after the JOC 112-03 work is completed. Subproject B (HH-1013) Moccasin Water System Filtration Plant: The building that will house the filtration system was mostly completed, and mechanical and electrical work continues.

Issues and Challenges:

None at this time.

10037077 - Moccasin Old Powerhouse Hazard Mitigation

Approved Budget:	\$13.47M	Approved Completion Date:	07/01/32
Forecast Cost:	\$13.47M	Forecast Completion Date:	07/01/32
Cost Variance:	None	Schedule Variance:	None
Expenditures to Date:	\$1.15M	Expenditures Over the Reporting Period:	\$0.08M
Subprogram:	Powerhouse (Joint)	Environmental Status:	Active (EIR)
Current Phase:	Planning		

Progress and Status:

The project team continues to make progress on the environmental review process required to develop the Environmental Impact Report (EIR). Progress during this quarter included second round of edits on draft Project Documents prior to being sent for review by the SF Planning Department.

Issues and Challenges:

None at this time.

10014108 - Canyon Tunnel - Hetchy Adit Rehab & OSH Bridge

Approved Budget:	\$30.14M	Approved Completion Date:	12/31/30
Forecast Cost:	\$30.14M	Forecast Completion Date:	12/31/30
Cost Variance:	None	Schedule Variance:	None
Expenditures to Date:	\$3.02M	Expenditures Over the Reporting Period:	\$0.11M
Subprogram:	Tunnels (Joint)	Environmental Status:	Active (MND)
Current Phase:	Design		

Progress and Status:

Proof of Concept was developed and delivered which outlines the updated concept for the new O'Shaughnessy Adit Access bridge. Coordination meetings were held to update visual simulations of the bridge substructure, source of construction water, and temporary bridge access.

Issues and Challenges:

None at this time.

10014110 - Moccasin Wastewater Treatment Plant

Approved Budget:	\$15.38M	Approved Completion Date:	02/20/28
Forecast Cost:	\$15.38M	Forecast Completion Date:	06/30/27
Cost Variance:	None	Schedule Variance:	235 days
Expenditures to Date:	\$7.85M	Expenditures Over the Reporting Period:	\$0.80M
Subprogram:	Utilities (Joint)	Environmental Status:	Completed (Cat Ex)
Current Phase:	Construction		

Progress and Status:

The construction is in progress. The Contractor relocated and reconnected the propane tank that will be used for the emergency eye wash station. The contractor had installed some of the overflow piping from the Sequential Batch Reactor (SBR) to the Influent Pump Station. The team installed the Influent Pump Station's riser to resolve an elevation difference for a gravity flow line. The contractor concluded the effort to remove the defective concrete of the SBR concrete structure. Once the repair work plan is reviewed, approved, and executed, the hydrostatic test will be conducted. The contractor excavated holes for the light pole bases and the trench for the conduit to power the light poles. The starter/control panel and equipment pad conduit has been installed, and concrete was poured over it. The parabolic screens were installed to the raw sewage piping.

Issues and Challenges:

As previously reported, the variance between the approved schedule and the forecast schedule is based on a revised early expected construction completion. The project's forecasted cost and schedule have been included in the recently approved Capital Improvement Plan.

SECTION 6. ON-GOING CONSTRUCTION

Construction Contract	NTP Date	Approved Construction Final Completion	Current Forecasted Construction Final Completion	Approved Contract Cost	Current Forecasted Cost	Schedule Variance (Cal Days)	Cost Variance	Percent Complete
Water Infrastructure								
10035575 - SJPL Valve & Safe Entry Improvement - (Contract A, HH-1005)	05/16/22	02/01/25	06/30/26	\$15,558,172	\$15,558,172	(514)	\$0	98.3%
10035575 - SJPL Valve & Safe Entry Improvement - (Contract C, HH-1012)	05/13/24	01/28/26	06/30/27	\$7,896,101	\$7,896,101	(518)	\$0	92.3%
10035575 - SJPL Valve & Safe Entry Improvement - (Contract D, HH-1016)	05/01/25	08/16/28	08/16/28	\$52,555,155	\$52,555,155	0	\$0	39.1%
Power Infrastructure								
10014086 - Moccasin Powerhouse Generator Rehab - (Contract B, DB-121R2)	08/15/22	05/29/26	05/29/26	\$32,648,985	\$32,648,985	0	\$0	97.8%
10014087 - Warnerville Substation Rehabilitation Project	11/17/25	05/21/27	05/21/27	\$6,695,000	\$6,695,000	0	\$0	0.0%
Joint Infrastructure								
10014114 - Mountain Tunnel Improvement - (HH-1000R)	01/29/21	12/03/26	12/03/26	\$145,678,821	\$145,678,821	0	\$0	84.8%
10014114 - Mountain Tunnel Improvement - (HH-1013)	09/23/24	06/30/26	06/30/26	\$4,718,093	\$4,839,568	0	(\$121,476)	61.1%
10032903 - O'Shaughnessy Dam Outlet Works Phase 1 - Drainage & Misc. Dam Improvements (Contract B, HH-1015)	11/12/24	11/06/25	10/30/26	\$5,291,950	\$6,406,950	(358)	(\$1,115,000)	89.0%
10014110 - Moccasin Wastewater Treatment Plant - (HH-1010)	06/03/24	12/29/26	12/29/26	\$7,602,261	\$7,602,261	0	\$0	44.7%

	Approved Contract Cost	Current Forecast Cost	Cost Variance	Percent Variance
Program Total for On-Going Construction	\$278,644,538	\$279,881,014	(\$1,236,476)	(0.4%)

SECTION 7. PROJECTS IN CLOSE-OUT AND COMPLETED PROJECTS

Project Name & ID	Approved Start Date	Approved Completion Date	Forecasted/Actual Completion Date	Status
10035721 Transmission Lines 7/8 Upgrades	07/01/19	02/28/29	03/07/25	Completed
10039119 Early Intake Dam - Long Term	10/01/24	12/31/28	12/31/25	Completed (Cancelled)

This page is intentionally left blank

APPENDICES

A. PROJECT DESCRIPTIONS

B. APPROVED PROJECT-LEVEL BUDGET AND SCHEDULE

C. LIST OF ACRONYMS

This page is intentionally left blank

APPENDIX A. PROJECT DESCRIPTIONS

Water Infrastructure

10035575 SJPL Valve and Safe Entry Improvement

San Joaquin Pipeline (SJPL) Nos. 1, 2, and 3 consist of three parallel transmission pipelines (completed in 1932, 1953, and 1968, respectively) that cross the San Joaquin Valley from the east of Foothill Tunnel at Oakdale Portal to the west of Coast Range Tunnel at Tesla Portal, a distance of approximately 48 miles. A fourth partial pipeline (SJPL 4 completed in 2012) consists of a 6.4-mile segment of pipe downstream of Oakdale and another 11-mile segment upstream of Tesla Portal. SJPLs deliver Tuolumne River water to the San Francisco Bay Area. They have been in service ranging from 11 to 91 years. SFPUC staff members and contractors need to enter the pipelines regularly to perform condition assessment, maintenance, and repair work. A recent hydraulic study shows that several of the existing valves in the SJPLs may be under-rated for the potential surge pressures that could be triggered from an unplanned closure of the valves at the downstream Tesla Ultraviolet Treatment Facility. For safety reasons, the SFPUC initiated this capital project to increase the pressure rating of the valves, provide safe pipeline isolations for personnel entry into the pipelines, and allow shutdown of any section of the SJPLs without a complete system shutdown.

10014072 HHW- Water Project Development

The Project Development (PD) Account captures Program-level expenditures. The project provides programmatic support for Water funded capital projects. The following charges are allocated to the PD Account: 1) task orders for overall program management and project prioritization tasks, where the costs should be distributed over all CIP Projects; 2) infrastructure and Hetch Hetchy staff performing program-level tasks, including capital plan development, budget management (including fund management and cost reallocations), and unifier and quarterly report generation tasks, where the costs should be distributed over all CIP Projects; 3) portal support for the existing SharePoint Portal (including document management and project dashboard reporting); 4) work outreach program; and 5) City Attorney charges for contract development.

10041725 SJPL Valve Remote Control and Monitoring

Design, procure, and construct new SJPL remote supervisory controls that would enable remote operation from Moccasin to remotely operate valve actuators. The project includes data telemetry improvements, Remote Terminal Unit (RTU) installation/replacement, trans-valley communication system upgrades, power system upgrades, security improvements, and access improvements.

Power Infrastructure

10014079 Cherry-Eleanor Pumps

Replace and upgrade pumps in Cherry Pump Station with units that work with current operating strategies. The scope of work includes: 1) replacement of pumps, transformer, and pump motor starters; 2) installation of Programmable Logic controller (PLC), SCADA system, and fiber optics; and 3) improvement of the existing motor control center (MCC) building.

10036809 HHW - Moccasin Powerhouse Bypass Upgrade

Provide a reliable hydraulic bypass and energy dissipation system, conveying water around the turbines to the Moccasin Powerhouse Tailrace. Upgrade/replace high-pressure energy-dissipating valves, control systems, and associated structures to absorb 1,147 feet of pressure head and 430 cubic feet per second flow without damage.

10014086 Moccasin Powerhouse and GSU Rehabilitation

The project is broken down into three components: 1) Generator Rehabilitation – replace the entire generator and associated equipment, including new stator cores and coils, rotor poles, relays, and rotor rim; 2) GSU Replacement – replace two of the three existing generator step-up transformers (GSUs), new foundations and oil containment, and relay upgrades; and 3) Power Plant Systems Upgrades – replace the 480 V switchgear, 13.8 kV switchgear, motor control centers, main control boards, protective relays, cooling water piping, and improving oil containment systems.

10014089 Transmission Lines Clearance Mitigation

This project will provide funding to implement mitigation measures to resolve clearance discrepancies. Mitigation options include but are not limited to new towers/tubular poles, new intervening poles, tower raises, ground lowering, and other structural improvements to the lattice towers.

10014087 Warnerville Substation Rehabilitation

The additional funding request is to cover the remaining work for Warnerville Substation Rehabilitation Project. Under Design Build Contract #DB-127R, installation of some 230 kV equipment was deleted from the contract but procured, including circuit breakers, switches, insulators, and current voltage transformers. Remaining work includes the replacement of four oil circuit breakers, bushings, surge arrestors, disconnect switches, current voltage transformer, insulators, relay protection, and other ancillary equipment.

10039568 Moccasin Switchyard Rehabilitation

Replace 115 kV disconnect switches, replace 115 kV bus configuration, replace 230 kV disconnect switches, change 230 kV bus configuration, replace 115 kV circuit breakers, add surge arresters, perform a fault study, perform a grounding study, improve switchyard grading, and replace fencing.

10035721 Transmission Lines 7/8 Upgrades

This project develops the scope of work, design, and contract documents necessary to bid, award, and manage the reconductoring contract. Reconductoring will include replacement of the existing 115 kV conductors on Lines 7/8 from Warnerville to Standiford substations, resulting in increased capacity and resolving clearance detections.

10014092 HHW- Power Project Development

The Project Development (PD) Account captures program-level expenditures. The project provides programmatic support for Power funded capital projects. The following charges are allocated to the PD Account: 1) task orders for overall program management and project prioritization tasks, where the costs should be distributed over all CIP Projects; 2) infrastructure and Hetch Hetchy staff performing program-level tasks, including capital plan development, budget management (including fund management and cost reallocations), and unifier and quarterly report generation tasks, where the costs should be distributed over all CIP Projects; 3) portal support for the existing SharePoint Portal (including document management and project dashboard reporting); 4) work outreach program; and 5) City Attorney charges for contract development.

Joint Infrastructure

10014088 Moccasin Penstock Rehabilitation

In order to meet the established level of service, mitigate potential risks, and avoid potential consequences of failure, SFPUC is considering replacing the penstocks so that the life of the asset will be extended for another 75 to 100 years. Based on a preliminary study, a combination of a drop shaft, a tunnel and above grade pipes appears to be a favorable alternative. SFPUC will continue the study before determining the most appropriate alternative solution. For capital planning purposes, SFPUC assumes the alternative will include the following major elements: • A drop shaft of about 850 feet deep, • A new tunnel penstock of about 3,100 feet, and • A two 72 in. above-grade penstocks with a total length of 3,000 feet.

10039680 Moccasin Engineering and Records Building

HHWP Project operations and administration is located in Moccasin, California, with facilities including buildings, office trailers, warehouses, shops, laboratories, and sheds. Many existing facilities are deteriorating, do not meet current building codes, and are incurring increased maintenance costs. HHWP needs to invest in new facilities to meet all applicable codes and standards; reduce maintenance costs; increase employee interconnectivity and productivity; properly store all staff, materials, records, and equipment; and meet energy-efficiency standards. HHWP prepared a report titled "Moccasin Facilities Upgrade Project – Alternatives Analysis and Evaluation Report Update". The report identified long-term needs for creating adequate office space for current staff in Moccasin. In addition, the report evaluated the needs for new, dedicated materials storage space, new records and archives space with offices, new space for servers, and parking space for staff. The Moccasin Engineering and Records Building project will address the need for permanent office space by constructing a new two-story building. Hetch Hetchy and Infrastructure staff are currently located in

temporary trailers that have exceeded their useful life. The new building will provide office space for Hetch Hetchy Engineering, Records, Energy Services, Infrastructure, and ITS staff. The scope also includes a secure server room, parking lot, and archive/records storage. The budget and schedule for the project will be modified to provide permanent office space for both Hetch Hetchy and Infrastructure staff and to address escalation since the completion of the 2020 Alternatives Analysis Report estimate.

10041727 Moccasin Warehouse Building

The Moccasin Old Powerhouse was constructed in 1926 and abandoned in the 1960s. The building has multiple structural and nonstructural issues, including cracks, spalling of structural concrete, water intrusion, broken windows, settlement, hazardous materials, and seismic deficiencies. The building is currently used for storage of large equipment and critical spares for the Hetch Hetchy Water and Power system. As a result of the multiple issues, it was determined to demolish the building. A new warehouse is therefore necessary for the storage of the large equipment and critical spares for the Hetch Hetchy Water and Power system that was previously stored in the Moccasin Old Powerhouse. This project includes a construction of a new 9,000-square-foot warehouse within the Moccasin campus to store large equipment and critical spare components for the Hetch Hetchy Water and Power System. The building will include office space for warehouse staff including records retention for warehouse and materials documentation.

10032903 O'Shaughnessy Dam Outlet Works Phase 1

O'Shaughnessy Dam was completed in 1923 and raised in 1938. A condition assessment of the dam outlet works revealed the need for improvements to the existing outlet works, including gates and valves (1923 construction), to ensure safe and reliable operation. Based on engineering studies and prioritization of asset condition, needs, and risks, improvements to the existing outlet works will be implemented in two phases. Funding for this project will include work under Phase 1. Phase 2 of the O'Shaughnessy Dam Outlet Improvement Project begins in 2025. Work under Phase 1 will include: (1) replacement of two existing instream flow release valves; (2) improvements to access and drainage in the dam gallery and stairs; (3) installation of new bulkheads for the outlet intake; and (4) a planning phase and scoping for the slide gates and drum gates improvements.

10037351 Moccasin Dam & Reservoir Long Term Improvement

A heavy storm event in 2018 caused significant damage to the auxiliary spillway, upstream trash rack and diversion, and downstream area. Subsequent engineering studies concluded that improvements are needed to increase the spillway capacity to safely pass the updated design flood without overtopping the existing embankment dam. This project is needed for dam safety. This project will construct a new concrete spillway with adequate flow capacity along the alignment of the existing auxiliary spillway and additional flood protection to the Moccasin project facilities.

10014115 Cherry Dam Spillway - Short Term Improvements

Cherry Dam Spillway is a 334-foot-wide ogee-type concrete weir that discharges into an unlined adjacent channel. The spillway capacity is designed for 52,000 cfs. A spill of 1,500 cfs in 2010 resulted in significant erosion damage to the unlined spill channel, large-scale erosion along the western segment of Cherry Dam, and flooding of Cherry Power Tunnel Adit and a campground downstream. Engineering studies showed that remedial measures and erosion protection for the spill channel are needed to ensure that spill flows from Cherry Valley Dam spillway can be contained without erosion damage to the existing embankment dam and downstream area. Studies also found that long-term improvement to the spillway is needed to increase the hydraulic capacity of the spillway to safely pass the design flood. This project is a short-term interim solution until the long-term spillway improvements are implemented. This project will reestablish containment for the breached spill channel section from the 2010 spill and install armoring to protect the upper spill channel section against erosion from spillway releases of up to 2,000 cubic feet per second.

10030759 Eleanor Dam Rehabilitation

Mitigation alternatives will include improvements to increase spill capacity to safely pass the design flood, installation of a liner on the upstream face of the dam, concrete repairs, valve replacement, and installation of concrete lining and riprap for foundation armoring, and replacement of the existing bridge.

10039119 Early Intake Dam - Long Term

Remove the existing deteriorated dam and construct a new concrete diversion structure and conveyance system within the existing Raker Act boundary to divert flows from Cherry Creek and Tuolumne River upstream of Kirkwood Powerhouse into Mountain Tunnel for SFPUC customers during emergencies.

10014114 Mountain Tunnel Improvement Project

Constructed between 1917 and 1925, Mountain Tunnel (MT) is a critical, nonredundant link in the Hetch Hetchy Regional Water System, conveying SFPUC water supply from Kirkwood Powerhouse to Priest Reservoir. Due to the tunnel's 90 years of operation, deferred maintenance, and construction deficiencies from the early 1900s, sections of the tunnel have deteriorated, some more extensively than others. The Mountain Tunnel Inspection and Repairs Project provided a tunnel inspection in 2017 to update the Condition Assessment conducted in 2008. Short-term repairs were also made in 2017 and 2018 to reduce the risk of failures in the concrete lining prior to implementation of the long-term project. The Mountain Tunnel Improvements (Rehabilitation) Project was selected for the design and construction of the preferred engineering alternative that will keep this vital component of the Hetch Hetchy Regional Water System in reliable service for years to come. The budget and schedule are based on the Mountain Tunnel Improvements Project construction phase, which is anticipated to take place between 2021 and 2027. This is the water funded portion of the Mountain Tunnel projects. For the Mountain Tunnel Improvements Project, the water portion will rehabilitate the inside of the tunnel and extend the siphon at South Fork, along with related safety improvements to the roadways that access the Mountain Tunnel.

CUH102-N03 O'Shaughnessy Dam Outlet Works Phase 2

O'Shaughnessy Dam was completed in 1923 and raised in 1938. A condition assessment of the dam outlet works revealed the need for improvements to the existing outlet works, including gates and valves (1923 construction), to ensure safe and reliable operation. Based on engineering studies and prioritization of asset condition, needs, and risks, improvements to the existing outlet works will be implemented in two phases. The O'Shaughnessy Dam Outlet Works Phase 1 Project is described under Project Number 10032903 and is currently in the design and construction phases. Phase 2 of the O'Shaughnessy Dam Outlet Improvement Project will begin in 2025 and will include replacement and/or refurbishment of eight discharge valves, rehabilitation of three drum gates, refurbishment of twelve slide gates, installation of a new diversion pipe isolation valve, and improvements for the diversion tunnel. The project will include: (1) replacement of six 60-inch and one 72-inch discharge needle valves; (2) refurbishment of one 72-inch discharge butterfly valve; (3) rehabilitation of three drum gates; (4) refurbishment of twelve slide gates; (5) installation of a new diversion pipe isolation valve; and (6) improvements for the diversion tunnel.

10037077 Moccasin Old Powerhouse Hazard Mitigation

Design and install mitigation measures to prevent the building from collapsing and to prevent hazardous materials (such as lead-based paint and asbestos) from contaminating Moccasin Reservoir.

10014108 Canyon Tunnel - Hetchy Adit Rehab & OSH Bridge

The project is to install a new reinforced concrete plug downstream of the existing plug in Hetchy Adit and rehabilitate O'Shaughnessy Adit Access Bridge including sub-structure retrofit and super structure replacement.

10014110 Moccasin Wastewater Treatment Plant

This project will replace the existing plant with a package two-train sequencing batch reactor (SBR) plant with grit removal and screening facilities, upgraded electrical and flow monitoring systems, flow equalization, SCADA instrumentation and automation features, and related site improvements.

10014116 HHW- Joint Project Development

The Project Development (PD) Account captures program-level expenditures. The following charges are allocated to the joint funded PD Account: 1) task orders for overall program management and project prioritization tasks, where the costs should be distributed over all CIP Projects; 2) infrastructure and HHWP staff performing program-level tasks, including capital plan development, budget management (including fund management, and cost reallocations), and unifier and quarterly report generation tasks, where the costs should be distributed over all CIP projects; 3) portal support for the existing SharePoint portal (including document management and project dashboard reporting); 4) work outreach program; and 5) City Attorney contract development charges.

APPENDIX B. APPROVED PROJECT BUDGET AND SCHEDULE

Project Name & ID	Approved Start Date	Approved Completion Date	Approved Budget
10035575 SJPL Valve and Safe Entry Improvement	07/01/19	02/28/29	\$157,752,191
10041725 SJPL Valve Remote Control and Monitoring	10/01/24	12/31/28	\$38,742,631
10014072 HHW- Water Project Development	03/26/12	06/30/34	\$12,914,599
10014079 Cherry-Eleanor Pumps	01/01/25	06/30/31	\$38,798,254
10014086 Moccasin Powerhouse and GSU Rehabilitation	09/18/20	12/31/28	\$100,556,003
10036809 HHW - Moccasin Powerhouse Bypass Upgrade	09/18/20	12/01/27	\$41,055,930
10039568 Moccasin Switchyard Rehabilitation	11/01/22	01/31/30	\$19,708,331
10014087 Warnerville Substation Rehabilitation	09/01/15	11/25/26	\$37,407,004
10035721 Transmission Lines 7/8 Upgrades	12/02/19	01/31/25	\$37,327,197
10014089 Transmission Lines Clearance Mitigation	07/01/17	06/30/29	\$83,680,760
10014092 HHW- Power Project Development	05/29/12	06/30/34	\$17,873,700
10014088 Moccasin Penstock Rehabilitation	02/03/14	12/08/34	\$331,171,945
10039680 Moccasin Engineering and Records Building	12/14/22	05/31/29	\$88,733,548
10041727 Moccasin Warehouse Building	01/01/25	04/01/31	\$26,290,356
10039119 Early Intake Dam - Long Term	07/01/23	12/31/35	\$100,072,055
10037351 Moccasin Dam & Reservoir Long Term Improvement	05/03/21	12/31/34	\$142,187,984
10014115 Cherry Dam Spillway - Short Term Improvements	03/01/21	06/30/27	\$14,885,874
10032903 O'Shaughnessy Dam Outlet Works Phase 1	02/01/18	12/31/25	\$43,731,371
10042956 O'Shaughnessy Dam Outlet Works Phase 2	07/01/25	12/31/41	\$184,106,942
10030759 Eleanor Dam Rehabilitation	06/01/20	12/31/38	\$113,873,604
10014114 Mountain Tunnel Improvement Project	10/03/11	06/03/27	\$268,668,950
10037077 Moccasin Old Powerhouse Hazard Mitigation	01/01/21	07/01/32	\$13,474,515
10014108 Canyon Tunnel - Hetchy Adit Rehab & OSH Bridge	02/03/14	12/31/30	\$30,138,401
10014110 Moccasin Wastewater Treatment Plant	01/03/22	02/20/28	\$15,376,737
10014116 PD HHW-Joint Project Development	06/25/12	06/30/34	\$58,285,953

APPENDIX C. LIST OF ACRONYMS

AAR	Alternative Analysis Report	MND	Mitigated Negative Declaration
CEQA	California Environmental Quality Act	NAR	Needs Assessment Report
CER	Conceptual Engineering Report	NTP	Notice to Proceed
CIP	Capital Improvement Program	PD	Project Description
CSE	Common Sense Exemption	PL	Planning
EIR	Environmental Impact Report	RFQ&P	Request for Qualifications and Proposals
FCF	Flow Control Facility	R&R	Renewal and Replacement
GSU	Generator Step-Up	SBR	Sequential Batch Reactor
GWH	Gigawatt Hours	SF	San Francisco
HCIP	Hetch Hetchy Capital Improvement Program	SFPUC	San Francisco Public Utilities Commission
HHWP	Hetch Hetchy Water and Power	TBD	To Be Determined
IFR	Instream Flow Release		
IPS	Influent Pump Station		