



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Board Report

Engineering Services Group

- **Capital Investment Plan Quarterly Report for Period Ending December 2024**

Summary

The attached report provides a summary of actions and accomplishments on the Capital Investment Plan (CIP) during the second quarter of fiscal year 2024/25. It also provides updates on the status of capital projects and capital expenditures to date, and information regarding service connections and relocations authorized by the General Manager during the reporting period of October to December 2024, the second quarter of fiscal year 2024/25, and the second quarter of the fiscal years 2024/25 and 2025/26 biennium.

Purpose

Administrative Code Requirement Section 2720(a)(1): General Manager's Quarterly Reports

Section 2720 of Metropolitan's Administrative Code requires the General Manager to report quarterly to the Engineering and Operations Committee on the Capital Investment Plan.

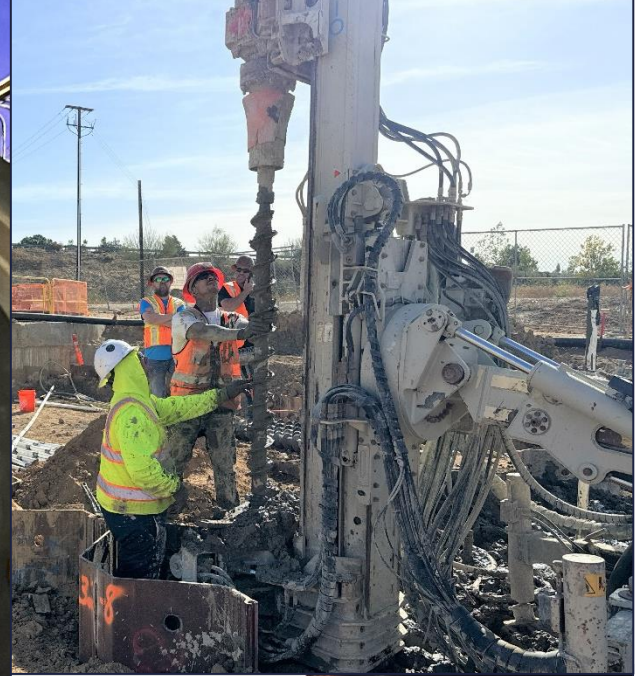
Sections 4700-4708 of Metropolitan's Administrative Code require the General Manager to report on service connections approved by the General Manager with the estimated cost and approximate location of each.

Section 8122(c) of Metropolitan's Administrative Code requires the General Manager to report on the execution of any relocation agreement under the General Manager's authority involving an amount in excess of \$100,000.

Highlights of progress and major milestones on selected projects are presented in the attached report grouped by CIP program.

Attachments

Capital Investment Plan quarterly report for period ending December 2024



The Metropolitan Water District of Southern California

Capital Investment Plan Quarterly Report

October - December 2024



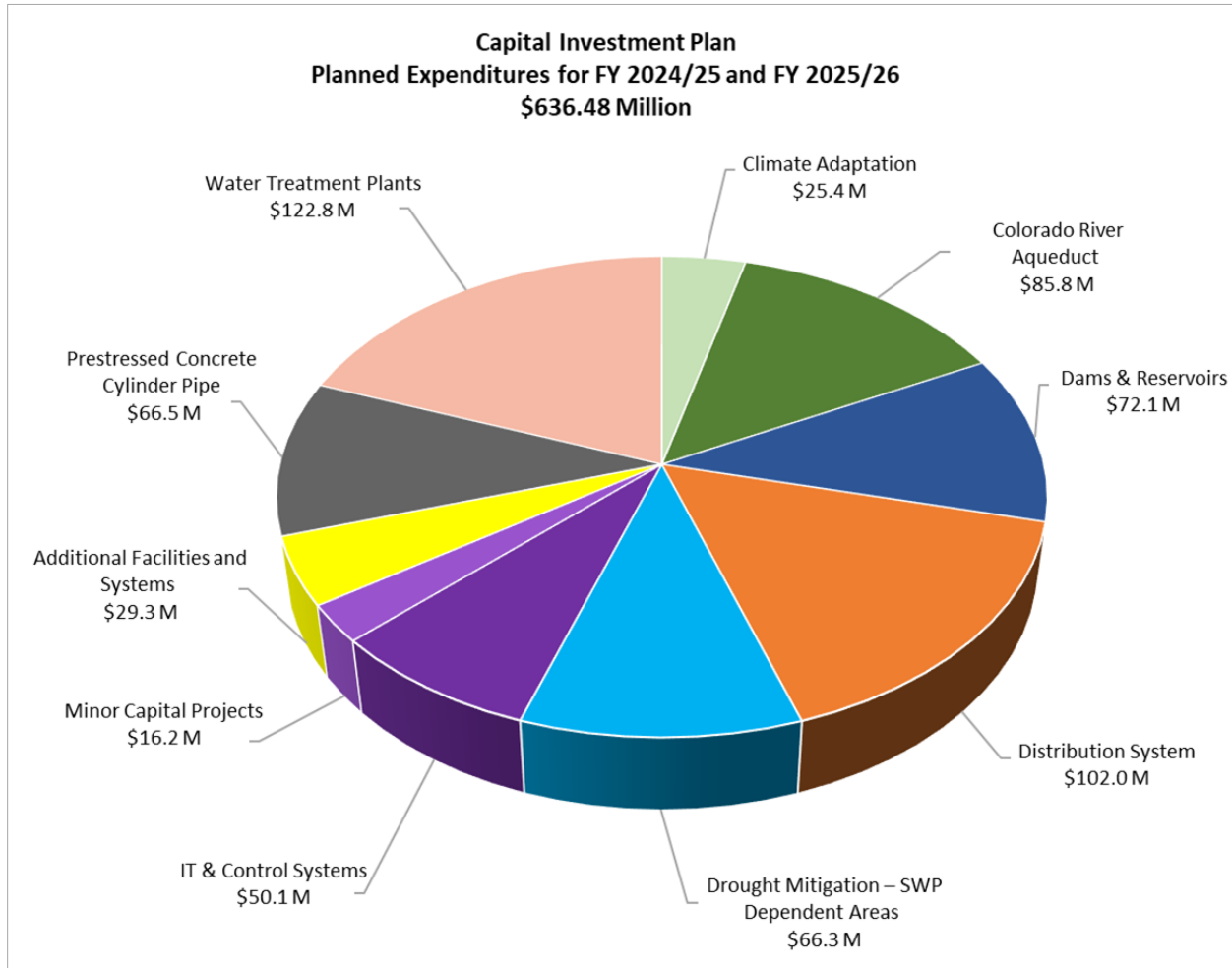
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Capital Investment Plan for Fiscal Years 2024/25 & 2025/26

Metropolitan’s total planned capital expenditures for Fiscal Years (FYs) 2024/25 and 2025/26 are \$636.48 million. In April 2024, the Board appropriated \$636.48 million and delegated authority to the General Manager, subject to both CEQA requirements and the General Manager’s authority as addressed in Metropolitan’s Administrative Code, to initiate or proceed with work on all planned Capital Investment Plan (CIP) projects identified in the CIP Appendix for FYs 2024/25 and 2025/26. Figure 1 below shows the planned expenditures by program.

Figure 1: CIP for FY 2024/25 and FY 2025/26 by Program



[Cover photos: (left to right; top to bottom): *Badlands Tunnel Surge Protection Facility* – 96-inch diameter pipe installation inside of the isolation valve vault; *Perris Valley Pipeline I-215 Tunnel Crossing* – Drilling grout holes for Shaft No. 1; *Allen-McColloch Pipeline PCCP Urgent Rehabilitation–Stage 2* – Welding 117-inch diameter steel liner]

Executive Summary

This report provides a summary of the Capital Investment Plan (CIP) activities and accomplishments during the 2nd Quarter of Fiscal Year (FY) 2024/25, which ended in December 2024. CIP expenditures through the 2nd Quarter totaled approximately \$193.7 million with 45 active procurement and construction contracts at the end of the quarter. The expenditures are projected to stay above plan through the 1st half of the next fiscal year before ending the biennium near the planned expenditure of \$636.48 million. The CIP funds allocated to specific projects through the reporting quarter totaled approximately \$453.7 million, leaving approximately \$182.8 million available to be allocated during the remainder of the current biennium.

During the quarter, eight project-specific board actions were heard in open sessions. Two construction contracts and two procurement contracts were awarded by the Board during the reporting period with a total contract amount of approximately \$3.5 million. During the same time, a total of approximately \$49.8 million in contract payments were authorized, reflecting construction progress on projects such as Allen-McColloch Pipeline PCCP Urgent Relining – Stage 2, Diamond Valley Lake Floating Wave Attenuator System Improvements – Stage 2, Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings, Badlands Tunnel Surge Protection Facility, Inland Feeder/Rialto Pipeline Intertie, Jensen and Skinner Water Treatment Plants Battery Energy Storage Systems, Perris Valley Pipeline I-215 Tunnel Crossing, Second Lower Feeder PCCP Rehabilitation – Reach 3B, and Weymouth Basins Nos. 5-8 & Filter Building No. 2 Rehabilitation.

Staff continues to manage over 500 CIP projects and project spending in this and future budget cycles. Some of the major construction projects that could potentially be started in the next three years include Phase 2 Design Build of the Sepulveda Feeder Pump Stations, Lakeview Pipeline Relining – Stage 2, Sepulveda Feeder PCCP Rehabilitation – Reaches 2 and 9, Lake Mathews Pressure Control Structure and Electrical Upgrades, Garvey Reservoir Rehabilitation – Stage 1, Foothill/Inland Feeder Intertie, Diemer Filter Improvements, and numerous zero emissions fleet infrastructure and security projects.

Staff will commence the next biennial CIP budget process early next year. The majority of projects are refurbishment and replacement (R&R) projects, and in each biennium, approximately 100 new projects are proposed.

Board Action Summary

During the 2nd Quarter, board actions heard in open session included eight CIP project-specific actions summarized in Table 1 below. These actions awarded four contracts totaling approximately \$3.5 million; authorized four new on-call professional/technical services agreements totaling not-to-exceed \$12.0 million; certified a Final Environmental Impact Report; and authorized an amendment to add four new projects to an existing Project Labor Agreement. The table below excludes information on board items heard in closed session.

Table 1: 2nd Quarter Board Actions

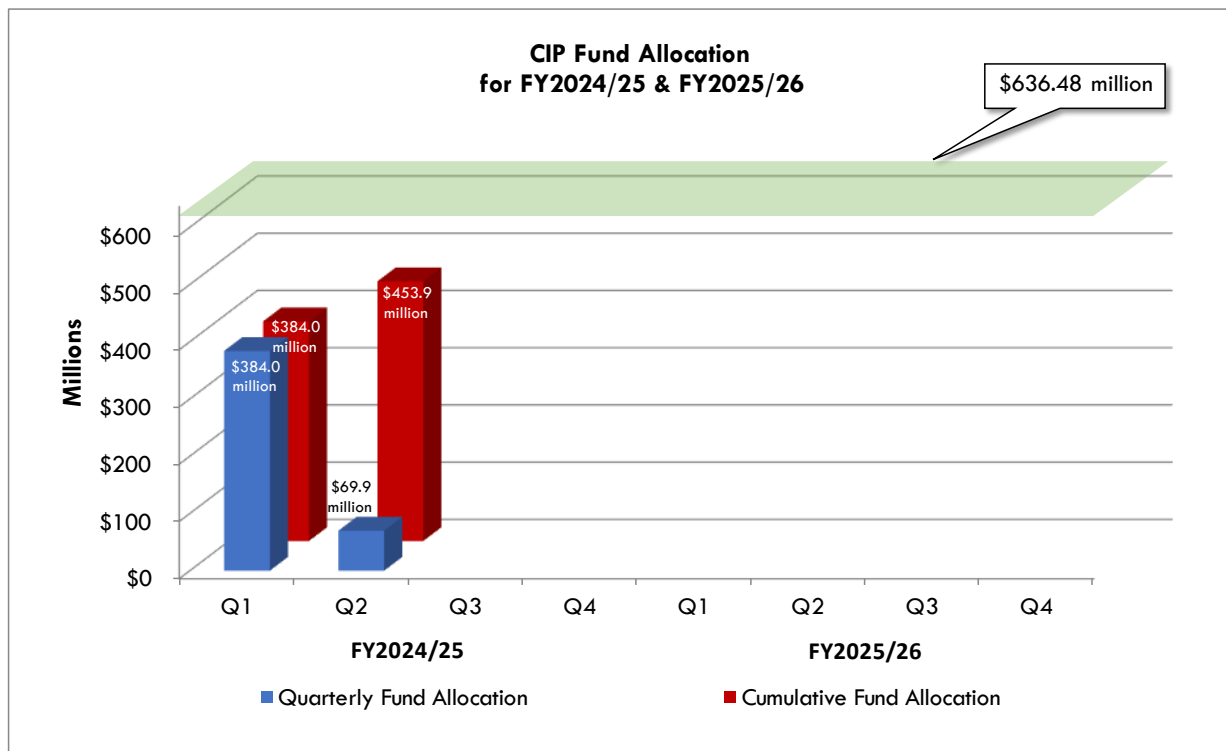
Month	Board Letter Item No.	Project	Action Taken
October	7-1	Auld Valley and Red Mountain Control Structures Upgrades	Awarded a \$589,957 procurement contract
October	7-2	San Diego Canal Concrete Liner Replacement – Site 236	Awarded a \$1,833,650 construction contract
October	7-3	Diemer Helicopter Hydrant Facility	Awarded a \$448,000 procurement contract
October	8-2	On-call Agreements for Engineering Services for Zero-Emission Vehicle Infrastructure	Authorized four on-call agreements not to exceed \$3 million each

Month	Board Letter Item No.	Project	Action Taken
November	7-1	Desert Housing and Property Improvements	Authorized amending the scope of an existing agreement
November	7-2	Garvey Reservoir Rehabilitation	Certified the Final Environmental Impact Report
November	8-1	Project Labor Agreement (PLA)	Authorized an amendment to add four new projects
December	7-2	Lake Skinner Dam Drainage System Improvements	Awarded a \$588,000 construction contract

The previously referenced April 2024 board action appropriated a total of \$636.48 million to perform work on planned CIP projects through the current biennium. To be considered a planned project, the project must be identified and described in the CIP Appendix for the two-year budget cycle. Consistent with the April 2024 action, all requests to allocate funds and proceed with planned CIP projects are reviewed and approved by the Chief Engineer acting under the General Manager’s authority. Unplanned projects, those that are not already identified in the CIP Appendix, require a separate board authorization. During the 2nd Quarter, no unplanned CIP projects were authorized by the Board.

Figure 2 shows the allocation of the funds from Appropriation No. 15535 for this quarter and a total for the current biennium through the quarter, which is approximately \$453.9 million, leaving approximately \$182.6 million to be allocated during the remainder of the current biennium. This amount includes the allocation of \$10 million to the Minor Capital Projects Program. During the 2nd Quarter, approximately \$60.8 million was allocated for new work authorized, and approximately \$9.1 million was reallocated for previously authorized work. Details of the allocations and reallocations of funds during the reporting quarter can be found in the **Project Actions** section.

Figure 2: CIP Fund Allocation from Appropriation No. 15535 – FY 2024/25 and FY 2025/26



*Numbers may not sum due to rounding.

Information on construction and procurement contracts activities for the 2nd Quarter of FY 2024/25 is presented in the **Construction and Procurement Contracts** section of this report. Progress payments for these contracts in the 2nd Quarter totaled approximately \$49.8 million and primarily reflect construction progress on Allen-McColloch Pipeline PCCP Urgent Relining – Stage 2, Diamond Valley Lake Floating Wave Attenuator System Improvements – Stage 2, Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings, Badlands Tunnel Surge Protection Facility, Inland Feeder/Rialto Pipeline Intertie, Jensen and Skinner Water Treatment Plants Battery Energy Storage Systems, Perris Valley Pipeline I-215 Tunnel Crossing, Second Lower Feeder PCCP Rehabilitation – Reach 3B, and Weymouth Basins Nos. 5-8 & Filter Building No. 2 Rehabilitation.

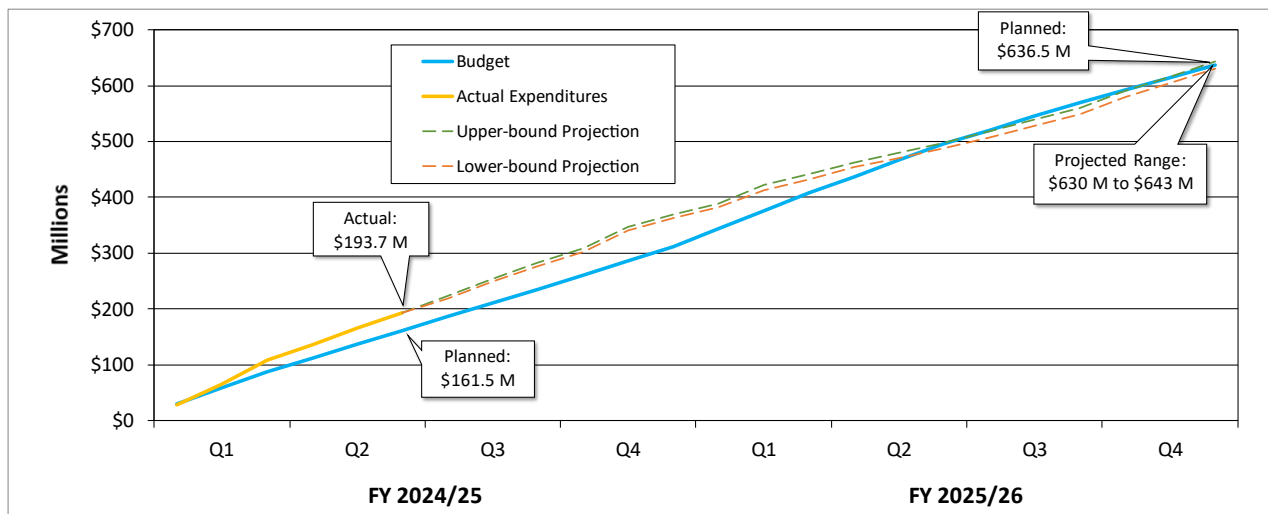
Planned Expenditure and Budget

Table 2 below shows the planned and actual expenditures for the biennium through the end of the 2nd Quarter of FY 2024/25. Figure 3 shows the forecast of expenditures through the end of the current biennium, against planned expenditures for the same time interval. Actual expenditures through the 2nd Quarter of FY 2024/25 were approximately 120% of planned expenditures.

Table 2: Planned & Actual Expenditures for FYs 2024/25 & 2025/26

Quarter	Planned Expenditures (millions)	Actual Expenditures (millions)
FY 2024/25, Q1	\$87.2	\$107.7
FY 2024/25, Q2	\$74.3	\$86.0
Totals	\$161.5	\$193.7

Figure 3: Current Biennium – Planned, Actual & Forecasted Expenditures



As shown in Figure 3, the total planned expenditures in the current biennium are \$636.48 million. The projected expenditures for the biennium are currently projected to be between \$630 million and \$643 million, with the actual expenditures approximately 20% higher than the planned expenditures during the 2nd Quarter of FY 2024/25. The variance above the planned expenditures in this quarter is mainly due to several factors, including unplanned spending on urgent relining of distressed PCCP segments of the Allen-McColloch Pipeline, revised construction contract payments for awarded contracts based on updated project schedules and contractor work plan shifts, and anticipated higher contract bids for key upcoming contracts.

Funding of Infrastructure Projects with Outside Sources

This section provides information on select grants and other outside sources of funds that Metropolitan receives to support infrastructure projects. The expenditures related to these outside funding sources are described below and will be updated in subsequent quarters as the funds are received and expenditures are recorded.

Pure Water Southern California

In December 2022, Metropolitan's Board authorized the General Manager to use \$80 million in project funding from the State Water Resources Control Board (SWRCB) to commence activities related to the initiation of the Pure Water Southern California program. Metropolitan received the \$80 million funding in one lump sum payment on May 24, 2023, to support the design activities for the program. Funds are available for expenditure until June 30, 2026. The use of these funds is not included as part of Metropolitan's CIP expenditures. During the reporting quarter, State funds were used to support program management tasks, including the preparation of various plans for program implementation and preliminary design of the initial two reaches of the conveyance pipelines.

Metropolitan is currently discussing with the program partners, Southern Nevada Water Authority (SNWA), and planning to discuss with the Arizona Department of Water Resources to determine their potential contributions to the program. Los Angeles County Sanitation Districts (LACSD) has agreed to be responsible for implementation of the pretreatment and nitrogen management facilities, which includes the membrane bioreactor (MBR). The amended and restated agreement with LACSD was authorized on September 9, 2024. Metropolitan is currently discussing with other program partners to determine their potential contributions to the program.

The U.S. Bureau of Reclamation (USBR) awarded a \$5 million WaterSMART grant to Metropolitan in 2023. The grant agreement was finalized in May 2024. A three-time matching fund is required for this grant. Metropolitan also received a notice of intent to award a Large-Scale Water Recycling Project (LSWRP) grant in May 2024, which will reimburse 25 percent of the planning and design costs up to \$99,199,096 through the grant term. In November 2024, Metropolitan again received a notice of intent to award an LSWRP grant in the amount of \$26,273,759, for a total LSWRP grant amount of \$125,472,855. Metropolitan will share the LSWRP grant with LACSD, who will provide their share of the matching funds. The Board authorized the acceptance of the grant award on December 10, 2024.

Drought Mitigation Projects

In December 2022, Metropolitan's Board adopted a resolution to accept \$50 million in state funding from the California Department of Water Resources to support Metropolitan's drought mitigation projects. The Board also designated the Group Manager of Engineering Services to be the signatory to execute actions related to the funds. The California Department of Water Resources (DWR) will administer the funds and release the reimbursement after Metropolitan invoices expenses. The \$50 million fund is available for reimbursement through June 30, 2026, and five percent of this amount may be used for administrative costs by DWR. From the state-allocated amount, it allocated to Metropolitan \$47.5 million to improve and expand its infrastructure to be more resilient and flexible to respond to fluctuating water supplies. The improved system will enhance the ability to convey water throughout all its service area. Under this grant, staff will be required to submit invoices to DWR to receive reimbursement for expenditures that comply with the grant requirements. To date, three projects on the east side of Metropolitan's system are covered under this grant. These three projects are part of an overall plan to provide direct delivery of Diamond Valley Lake (DVL) supplies to the Rialto Pipeline. During the reporting quarter, a progress report and invoices through September 2024 were submitted and approved by DWR for \$5.08 million. As of December 2024, a total of \$17.2 million in reimbursement has been received from the State for the three projects. This funding allows additional rehabilitation projects to proceed as a result of applying state grant funds towards the applicable CIP projects.

In November 2023, Metropolitan submitted a grant application to USBR requesting \$5 million to support Inland Feeder/SBVMWD Foothill Pump Station project as part of water supply reliability improvements in the Rialto Pipeline service area. USBR offers funding through its WaterSMART Drought Response Program: Drought Resiliency Projects for Fiscal Year 2024 to water districts in the Western United States to increase water supply reliability through investments in existing infrastructure and increased water management flexibility. The USBR program funds up to \$5 million per project for projects that can be completed within three years. The grant requires a 50 percent cost-sharing. If the grant award is \$5 million, Metropolitan would provide at least the same amount (\$5 million). The source of the cost-share funds is budgeted CIP funds planned to be spent on the project and will fulfill Metropolitan's grant matching funds requirement. The total cost of this project is estimated to be \$34 million. During the reporting

quarter, USBR continued compiling information to prepare a National Environmental Policy Act (NEPA) document, preparing a consultation letter to initiate the permit consultation process, and developing a formal funding agreement.

Battery Energy Storage System Projects

In October 2020, Metropolitan's Board authorized adding battery energy storage system (BESS) projects to the CIP to enhance the efficiency of Metropolitan's long-term power use, provide a hedge against projected electricity price increases, and improve the resiliency of the electric power supply at the Jensen, Skinner, and Weymouth Water Treatment Plants. This decision was aided by the California Public Utilities Commission's enhanced incentives for microgrid-capable BESS at critical facilities, which are expected to reimburse Metropolitan for \$8.147 million of project costs. Construction of the BESS systems is underway, with Weymouth BESS construction estimated to be completed in the second half of FY 2024/25 and Jensen & Skinner BESS construction estimated to be completed in FY 2025/26. Unlike the funds received for Pure Water discussed above, the incentive will be paid to Metropolitan in phases: 50 percent at project completion, with the remaining 50 percent paid equally over five years upon annual proof of a 5 kg CO₂/kWh reduction in greenhouse gas emissions.

Webb Tract Delta Island Flooded Wetlands and Rice Field System Project

In May 2023, Metropolitan's Board adopted a resolution to support a grant application for a \$20.9 million grant from the Sacramento-San Joaquin Delta Conservancy (Delta Conservancy), and staff signed a grant agreement with Delta Conservancy in March 2024 that funds two projects on Webb Tract, a Metropolitan-owned island located in Contra Costa County. The two projects include construction of up to 1,500 acres of rice fields and design, permitting, and construction of up to 3,500 acres of wetland on the island. Under this grant, staff will be required to submit invoices to Delta Conservancy to receive reimbursement of expenditures that comply with the grant requirements. As of December 2024, a total reimbursement of \$555,966 has been received from the Delta Conservancy. Staff is currently negotiating with a farming partner to convert the existing agricultural lands to rice farming. A Metropolitan board action to award a farming lease agreement is expected in the spring of 2025. Wetland design is ongoing, with the final design and permitting of the Wetlands estimated to be completed in the summer of 2025 with construction estimated to begin in spring of 2026.

Diemer Helicopter Hydrant Project

Metropolitan and the Yorba Linda Water District (YLWD) signed a memorandum of understanding outlining the commitment to jointly fund and construct a helicopter hydrant facility at the Robert B. Diemer Water Treatment Plant (Diemer plant). The project will be partially funded by a \$500,000 grant previously awarded by the United States Forest Service (USFS) to YLWD to construct the facility. Metropolitan is now a subrecipient of the grant and the grant funds will be used to defray Metropolitan's cost for the project. The construction is underway and is estimated to be completed by August 2025.

Major Capital Programs Overview

Metropolitan's CIP is structured into three levels. In descending order, they are:

- Program
- Project Group/Appropriation
- Project

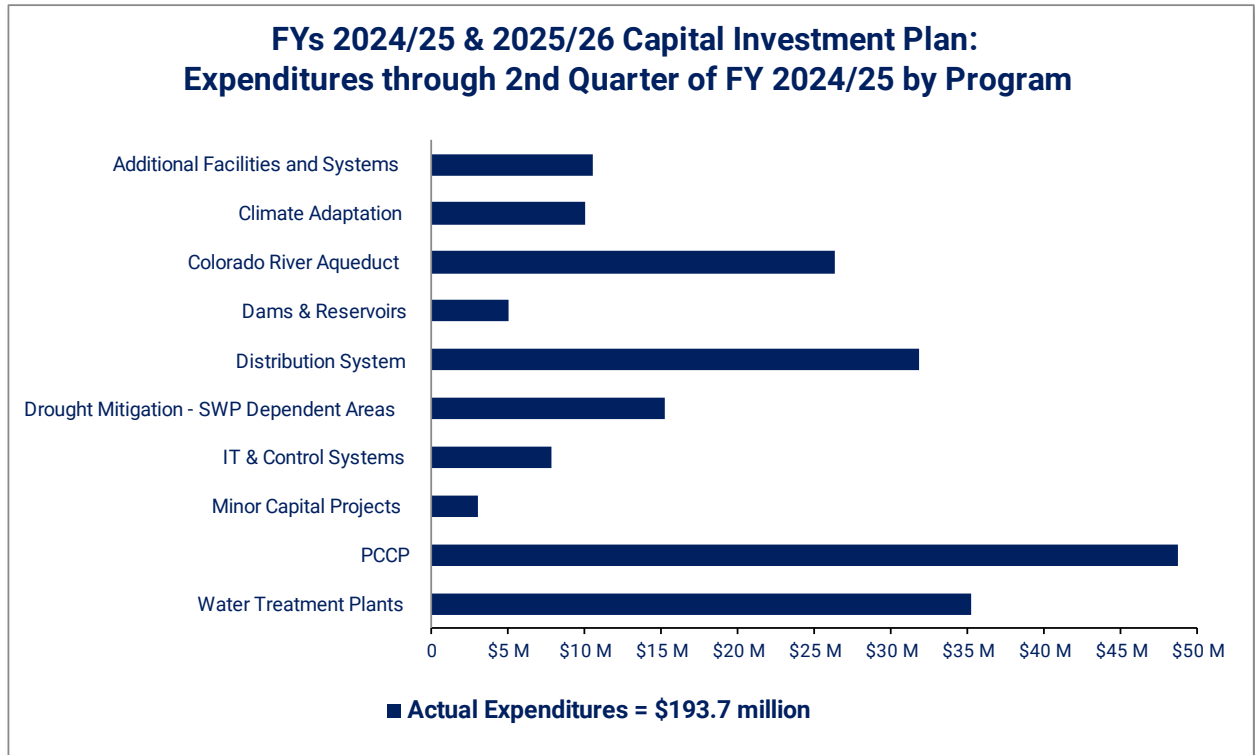
Metropolitan's CIP is comprised of 10 programs, which capture all projects within the CIP. The 10 programs are listed below in alphabetical order. Programs are comprised of one or more project groups/appropriations, and project group/appropriations are comprised of one or more projects. The status of each of the programs is provided later in this section of the report. A comparison of the program planned expenditures and actual costs to date for each of the programs is provided in Table 13 at the end of this report.

- Additional Facilities and Systems
- Climate Adaptation
- Colorado River Aqueduct (CRA)
- Dams & Reservoirs
- Distribution System
- Drought Mitigation - SWP Dependent Areas
- Information Technology (IT) & Control Systems
- Minor Capital Projects
- Prestressed Concrete Cylinder Pipe (PCCP)
- Water Treatment Plants

For the current biennium, the CIP includes over 500 planned projects (excluding minor capital projects).

Figure 4 below shows actual expenditures for the 10 capital programs for 2nd Quarter of FY 2024/25.

Figure 4: Biennium-to-date Actual Expenditures through 2nd Quarter FY 2024/25



Major Capital Project Programs – Highlights

This section provides 2nd Quarter highlights for the nine Major Capital Projects Programs; the Minor Capital Projects Program is highlighted in its own section of this report. Status is provided for selected projects within each Major Capital Projects Program. The selected projects typically achieved major milestones during the 2nd Quarter of FY 2024/25 or are scheduled to achieve major milestones in the next quarter.

Table 3: Major Capital Projects Programs

Program	Project
Additional Facilities and Systems	Desert Housing and Property Improvements
Climate Adaptation	Battery Energy Storage Systems
Colorado River Aqueduct (CRA)	Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings
Dams & Reservoirs	Diamond Valley Lake Dam Monitoring System Upgrades - Stage 3
Distribution System	Perris Valley Pipeline I-215 Tunnel Crossing
Drought Mitigation - SWP Dependent Areas	Sepulveda Feeder Pump Stations
Information Technology (IT) & Control Systems	Real Property Group Business System Replacement
Prestressed Concrete Cylinder Pipe (PCCP)	Allen-McColloch Pipeline PCCP Urgent Relining – Stages 1 & 2
Water Treatment Plants	Diemer Helicopter Hydrant Facility

Additional Facilities and Systems Program

Actual Biennium Expenditures
(Jul. 2024 through Dec. 2024)
\$10.46 million

Program Information: The Additional Facilities and Systems Program is composed of projects to refurbish, replace, upgrade, or provide new facilities and systems that support Metropolitan’s business and operations.

Program Highlights (2nd Quarter)

Accomplishments

- Completed construction for the following project:
 - Headquarters Building Physical Security Improvements – Stage 3
- Continued construction for the following projects:
 - Diamond Valley Lake Floating Wave Attenuator System Improvements – Stage 2
 - La Verne Shops Upgrades – Building Completion – Stage 5
- Continued final design for the following projects:
 - Diamond Valley Lake East Marina Utilities
 - Diamond Valley Lake Floating Restroom Replacement
 - Diamond Valley Lake to Lake Skinner Trail
 - Eagle Rock Security Upgrade – Stage 1
 - Lake Mathews Aboveground Storage Tank Replacement
- Continued preliminary design for the following projects:
 - CRA Aircraft Facility Improvement – Stage 1
 - Desert Housing and Property Improvements
 - La Verne Water Quality Laboratory Building Upgrades
- Initiated preliminary design for the following projects:
 - Apprentice Training Center Facility
 - Headquarters Building Automation System Upgrades
 - Headquarters HVAC System Rehabilitation
 - La Verne Shops Upgrades – Stage 6
- Initiated study for the following project:
 - CRA Aircraft Facility Improvements – Stage 2
- La Verne Water Quality Laboratory Equipment Replacement
 - Continued preliminary design and procurement of laboratory equipment

Upcoming Activities

Upcoming work for the next quarter will include:

- Continue construction for the following projects:
 - Diamond Valley Lake Floating Wave Attenuator System Improvements – Stage 2
 - La Verne Shops Upgrades – Building Completion – Stage 5
- Advertise construction contract for the following project:
 - Lake Mathews Aboveground Storage Tank Replacement
- Continue final design for the following projects:
 - Diamond Valley Lake East Marina Utilities
 - Diamond Valley Lake Floating Restroom Replacement
 - Diamond Valley Lake to Lake Skinner Trail
 - Eagle Rock Security Upgrade – Stage 1
- Complete preliminary design for the following project:
 - La Verne Quality Laboratory Building Upgrades
- Continue preliminary design for the following projects:
 - Apprentice Training Center Facility
 - CRA Aircraft Facility Improvements – Stage 1
 - Desert Housing and Property Improvements
 - Headquarters Building Automation System Upgrades
 - Headquarters HVAC System Rehabilitation
 - La Verne Shops Upgrades – Stage 6
- Continue study for the following project:
 - CRA Aircraft Facility Improvements – Stage 2
- Headquarters Fire Alarm/Smoke Control Upgrades
 - Obtain final sign-off by fire department
- La Verne Water Quality Laboratory Equipment Replacement
 - Continue preliminary design and procurement of laboratory equipment

Desert Housing and Property Improvements

Total Project Estimate:
\$210.0 million

Total Project Cost to Date:
\$12.3 million

This project will replace single-family housing and construct new kitchen and lodge facilities, and upgraded village amenities at the CRA pumping plants.

Phase	Preliminary Design
% Complete for Current Phase	5%
Current Phase Authorized	November 2024
Estimated Completion Date of Current Phase	December 2025

The Board authorized an amendment to a consulting agreement for Stage 1 improvements in November 2024. Stage 1 will include eight townhomes at each of the three pumping plants (Eagle Mountain, Iron Mountain, and Gene) for a total of twenty-four. In addition to the townhomes, new kitchen and lodge facilities will be constructed at Eagle Mountain and Iron Mountain pumping plants with upgraded amenities packages at four villages except Intake Pumping Plant. A new lodge at Gene Pumping Plant and four small units at Hinds Pumping Plant for on-call staff will also be constructed as part of the improvements project. In the upcoming quarter, preliminary design for Stage 1 improvements will continue.



Existing village site of future improvements – Eagle Mountain Pumping Plant

Climate Adaptation Program

Actual Biennium Expenditures
(Jul. 2024 through Dec. 2024)
\$9.89 million

Program Information: The Climate Adaptation Program is composed of projects to replace, refurbish, upgrade, or construct new facilities to prepare Metropolitan to adjust to current and projected climate change impacts on its operation and its mission to provide its service area with adequate and reliable supplies of high-quality water in an environmentally and economically responsible way.

Program Highlights (2nd Quarter)

Accomplishments

- Advanced Water Treatment Demonstration Facility
 - Continued tertiary membrane bioreactor (MBR) optimization testing to support the planning and design of a full-scale advanced purification facility
 - Initiated preparation of improvement plans to address long-term site security
- Battery Energy Storage Systems (BESS) at Jensen, Weymouth, and Skinner Plants
 - Continued construction at all three facilities
- Direct Potable Reuse Demonstration (DPR) Facility
 - Continued development of site improvement plans to support DPR pilot testing
 - Initiated preparation of procurement packages for DPR pilot testing equipment
- Zero Emission Vehicle (ZEV) Infrastructure Upgrade projects:
 - Districtwide Zero Emission Fleet Infrastructure
 - Continued development of the enhanced programmatic planning and study document
 - Headquarters Building Zero Emission Vehicle Infrastructure Upgrades – Stage 1
 - Began final design
 - Zero Emission Fleet Pilot Infrastructure – Stage 1
 - Completed installation of two pilot charging stations at the Headquarters Building
 - Zero Emission Fleet Pilot Infrastructure – Stage 2, Phase 1
 - Began design of a total of five Level 2/2+ charging stations at Lake Mathews, Weymouth plant, Jensen plant, and Skinner plant
 - Began design of a total of three Level 3 fast charging stations at Mills plant, Weymouth plant, and Gene pumping plant

Upcoming Activities

Upcoming work for the next quarter will include:

- Advanced Water Treatment Demonstration Facility
 - Continue preparation of improvement plans to address long-term site security
 - Continue tertiary MBR optimization testing to support the planning and design of a full-scale advanced water purification facility
- Battery Energy Storage Systems at Jensen, Weymouth, and Skinner Plants
 - Execute commissioning BESS at the Weymouth plant and continue construction at the Jensen and Skinner plants

- Direct Potable Reuse Demonstration Facility
 - Continue preparation of procurement packages for DPR pilot testing equipment
 - Continue site improvement planning effort to support DPR pilot testing
 - Initiate preparation of a conceptual design report for DPR pilot system
- Zero Emission Vehicle (ZEV) Infrastructure Upgrade projects:
 - Districtwide Zero Emission Fleet Infrastructure
 - Begin coordination with the utility service providers
 - Complete the enhanced programmatic planning and study document
 - Headquarters Building Zero Emission Vehicle Infrastructure Upgrades – Stage 1
 - Complete 60% final design and begin review
 - Zero Emission Fleet Pilot Infrastructure – Stage 1
 - Complete testing, commissioning, and integration of pilot chargers installed at the Headquarters Building and Weymouth plant
 - Zero Emission Fleet Pilot Infrastructure – Stage 2, Phase 1
 - Complete design of eight charging stations at six of the seven sites and begin hazmat survey and installation

Battery Energy Storage Systems

Total Project Estimate:
\$28.4 million

Total Project Cost to Date:
\$24.6 million

This project will install battery energy storage systems (BESS) at three locations: (1) one-megawatt (MW) BESS at the Jensen plant, (2) one-MW BESS at the Skinner plant, and (3) one-MW BESS at the Weymouth plant. The project is eligible for participation in the Self-Generation Incentive Program (SGIP).

Phase	Construction
% Complete for Construction at Jensen and Skinner	85%
% Complete for Construction at Weymouth	89%
Contract Awarded for Jensen and Skinner	September 2021
Contract Awarded for Weymouth	June 2022
Estimated Construction Completion Date for Jensen and Skinner	September 2025
Estimated Construction Completion Date for Weymouth	February 2025
Contract Number for Jensen and Skinner	1998
Contract Number for Weymouth	2014

The contractor completed installation of electrical cabinets at the Jensen unit substation and continued labeling the 480V conductors and installing conduits for various panels at the Jensen and the Skinner plants. The contractor completed the installation of sound wall footing and continued start-up and commissioning at the northeast and southwest BESS at the Weymouth plant. In the upcoming quarter, installation of the fiber optic cables from the BESS equipment to the MWD network patch panel at the Jensen and the Skinner plants will begin, and commissioning and start-up at the Weymouth plant will be completed.



Battery Energy Storage System (BESS) enclosures at Skinner Plant

Colorado River Aqueduct (CRA) Program

Actual Biennium Expenditures
(Jul. 2024 through Dec. 2024)
\$26.34 million

Program Information: The CRA Program is composed of projects to replace or refurbish facilities and components of the CRA system to reliably convey water from the Colorado River to Southern California.

Program Highlights (2nd Quarter)

Accomplishments

- Completed construction for the following project:
 - Gene Communication System Upgrades
- Continued construction activities for the following projects:
 - CRA Conveyance System Flow Level Sensor Installation
 - CRA Domestic Water Treatment System Upgrades at all five pumping plants
 - Gene Pumping Plant Pilot Security Improvements
 - Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings
- Continued equipment procurement of the following projects:
 - Gene Pumping Plant Unit No. 1 Brushless Motor Exciter System
 - Intake and Gene Pumping Plants Transformer Bushings and Pressure Device Replacements
- Completed final design and advertised a bid package for the following project:
 - Copper Basin Sodium Hypochlorite Tank Replacement
- Continued final design of the following projects:
 - Black Metal Mountain 2.4 kV Electrical Power Upgrades
 - Cabazon Radial Gates Facility Improvements
 - Copper Basin Reservoir Discharge Valve Structure Rehabilitation
 - CRA Conduit Erosion Control Improvements
 - CRA Desert Region Security Improvements – Stage 1
 - CRA Pumping Plant Sump System Rehabilitation
 - CRA Pumping Plant Village Utility Replacement
 - CRA Pumping Plants Main Pump Access Improvements
 - Iron Mountain Station Light & Power Electrical Improvements
- Continued preliminary design of the following projects:
 - CRA 230kV Transmission Tower Barrier Improvements
 - CRA Desert Region Security Improvements – Stage 2
 - CRA Pumping Plant Delivery Lines Rehabilitation
 - Hinds Pumping Plant Discharge Valve Platform Replacement
 - Iron Mountain Tunnel Rehabilitation
- CRA 230 kV Transmission Line Rehabilitation and Improvements
 - Continued study of east transmission line
- CRA Main Pump Motor Rehabilitation
 - Continued study to assess rehabilitation options for pump units and their ancillary support systems for all five pumping plants

Upcoming Activities

Upcoming work for the next quarter will include:

- Continue construction activities planned for the following projects:
 - CRA Conveyance System Flow Level Sensor Installation
 - CRA Domestic Water Treatment System Upgrades at all five CRA pumping plants
 - Gene Pumping Plant Pilot Security Improvements
 - Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings
- Award procurement contract for the following project:
 - Copper Basin Sodium Hypochlorite Tank Replacement
- Continue procurement of the following projects:
 - Gene Pumping Plant Unit No. 1 Brushless Motor Exciter System
 - Intake and Gene Pumping Plant Transformer Bushings and Pressure Device Replacements
- Continue final design of the following projects:
 - Black Metal Mountain 2.4 kV Electrical Power Upgrades
 - Cabazon Radial Gates Facility Improvements
 - Copper Basin Reservoir Discharge Valve Structure Rehabilitation
 - CRA Conduit Erosion Control Improvements
 - CRA Desert Region Security Improvements – Stage 1
 - CRA Pumping Plant Sump System Rehabilitation
 - CRA Pumping Plant Village Utility Replacement
 - CRA Pumping Plants Main Pump Access Improvements
 - Iron Mountain Station Light & Power Electrical Improvements
- Continue preliminary design of the following projects:
 - CRA 230kV Transmission Tower Barrier Improvements
 - CRA Desert Region Security Improvements – Stage 2
 - CRA Pumping Plant Delivery Lines Rehabilitation
 - Hinds Pumping Plant Discharge Valve Platform Replacement
 - Iron Mountain Tunnel Rehabilitation
- CRA 230 kV Transmission Line Rehabilitation and Improvements:
 - Continue study of east transmission line
- CRA Main Pump Motor Rehabilitation:
 - Continue study to assess rehabilitation options for pump units and their ancillary support systems for all five pumping plants
- Intake Transformer Bank Protection Relays Replacement:
 - Initiate design and procurement

Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings

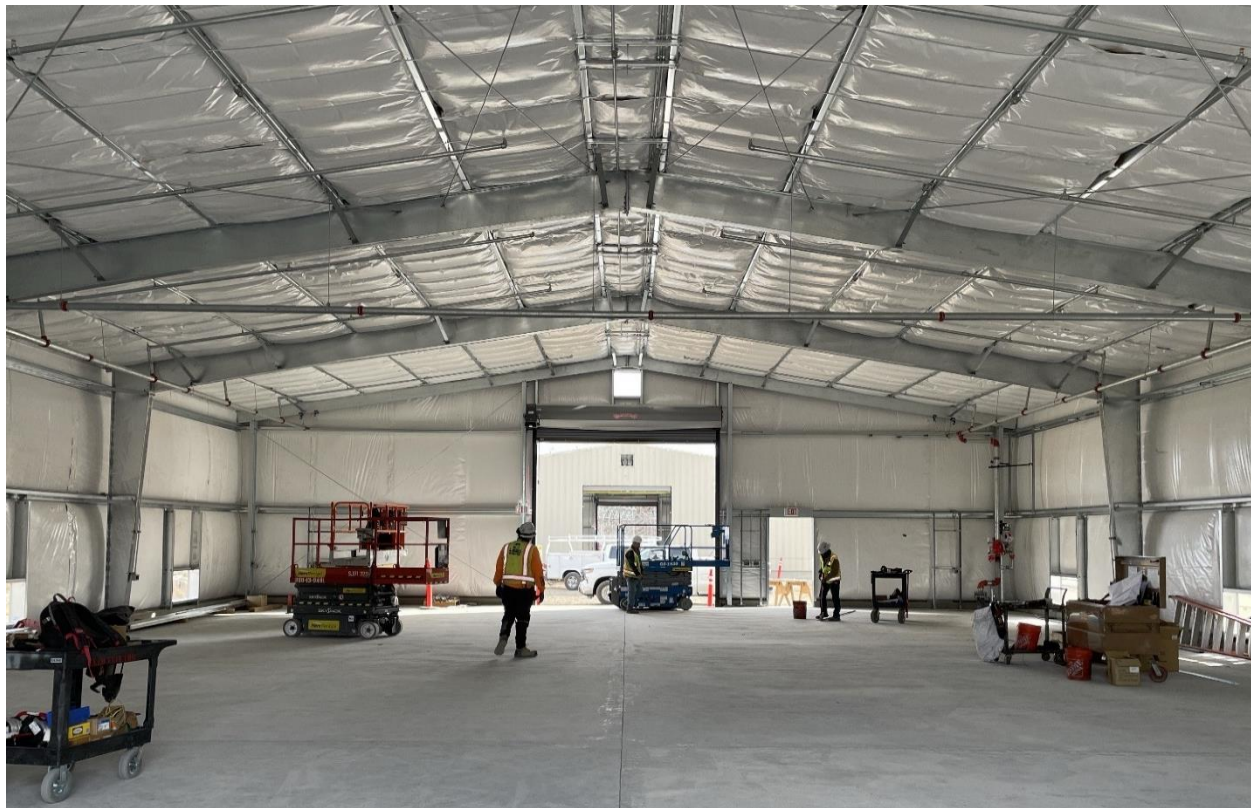
Total Project Estimate:
\$21.8 million

Total Project Cost to Date:
\$13.1 million

This project will furnish and install pre-engineered steel metal storage buildings at Hinds, Eagle Mountain, and Iron Mountain pumping plants and construct associated site improvements.

Phase	Construction
% Complete for Construction	59%
Construction Contract Award Date	July 2023
Estimated Construction Completion Date	April 2026
Contract Number	2000

The contractor completed erection of the structural steel for the pre-engineered storage buildings and installed the wall insulation and electrical cabinets at Eagle Mountain Pumping Plant. Sitework was completed, and the pre-engineered storage buildings' structural steel and panels were delivered to Hinds Pumping Plant. The contractor poured the concrete foundation for the buildings at Iron Mountain Pumping Plant. In the upcoming quarter, the contractor will complete the roof insulation panels and fire sprinkler system installation, and begin installing the overhead doors at the Eagle Mountain Pumping Plant. Installation of the pre-engineered storage buildings will begin at Hinds Pumping Plant. At Iron Mountain Pumping Plant, the contractor plans to complete edgework along the borders of the building foundation.



Interior of a storage building at Eagle Mountain Pumping Plant

Dams and Reservoirs Program

Actual Biennium Expenditures
(Jul. 2024 through Dec. 2024)
\$5.04 million

Program Information: The Dams & Reservoirs Program is comprised of projects to upgrade or refurbish Metropolitan's dams, reservoirs, and appurtenant facilities to reliably meet water storage needs and regulatory compliance.

Program Highlights (2nd Quarter)

Accomplishments

- Diamond Valley Lake Dam Monitoring System Upgrades
 - Authorized procurement of the new monitoring equipment
- Garvey Reservoir Dam Monitoring System Upgrades
 - Completed new system testing and commissioning
- Garvey Reservoir Rehabilitation
 - Certified the Environmental Impact Report (EIR)
 - Completed 60% design plans and specifications
- Lake Skinner Dam Drainage System Improvements
 - Awarded construction contract
- Lake Skinner Outlet Tower Butterfly Valve Replacement
 - Continued valve fabrication
- Lake Skinner Outlet Tower Seismic Upgrade
 - Continued detailed seismic evaluation of the outlet tower

Upcoming Activities

Upcoming work for the next quarter will include:

- Diamond Valley Lake Dam Monitoring System Upgrades
 - Procure instruments and automated data acquisition equipment
- Garvey Reservoir Dam Monitoring System Upgrades
 - Develop O&M manual
- Garvey Reservoir Rehabilitation
 - Continue final design
- Lake Skinner Dam Drainage System Improvements
 - Issue Notice to Proceed to the contractor
- Lake Skinner Outlet Tower Butterfly Valve Replacement
 - Continue valve fabrication
- Lake Skinner Outlet Tower Seismic Upgrade
 - Continue detailed seismic evaluation of the outlet tower

Diamond Valley Lake Dam Monitoring System Upgrades - Stage 3

Total Project Estimate:
\$2.5 million

Total Project Cost to Date:
\$0.1 million

This project will replace the obsolete, increasingly unreliable, dam monitoring systems at Diamond Valley Lake (DVL).

Phase	Procurement
% Complete for Current Phase	10%
Current Phase Authorized	Dec 2024
Estimated Completion Date of Current Phase	March 2025

The design consultant submitted the final design package. The final design package review was completed and equipment procurement was authorized. In the upcoming quarter, the procurement of the instruments and automated data acquisition equipment will continue in preparation for installation.



Existing remote monitoring unit and seismic accelerograph in the west crest of DVL dam

Distribution System Program

Actual Biennium Expenditures
(Jul. 2024 through Dec. 2024)
\$31.71 million

Program Information: The Distribution System Program is comprised of projects to replace, upgrade, or refurbish existing facilities within Metropolitan’s distribution system, including pressure control structures, hydroelectric power plants, and pipelines, to reliably meet water demands.

Program Highlights (2nd Quarter)

Accomplishments

- Continued construction for the following projects:
 - Foothill Hydroelectric Power Plant Seismic Upgrade
 - OC-88 Pump Station Chiller Replacement
 - Perris Valley Pipeline I-215 Tunnel Crossing
 - Rialto Pipeline Rehabilitation at Station 2986+30 and Rehabilitation of Service Connection CB-11
 - Santa Monica Feeder Cathodic Protection
- Continued procurement for the following projects:
 - East Lake Skinner Bypass Slide Gates Replacement
 - Foothill Feeder Blowoff Valve Replacement
 - Lakeview Pipeline Relining – Stage 2
 - Orange County Area Pressure Control Structure Glove Valve Replacement
 - Rialto Pipeline Rehabilitation at Station 2986+30 and Rehabilitation of Service Connection CB-11
 - San Jacinto Diversion Structure Slide Gates V-01, V-02, V-03, and V-04 Rehabilitation
- Awarded the following construction contract:
 - San Diego Canal Concrete Liner Replacement – Site 236
- Awarded a procurement contract for the following project:
 - Auld Valley and Red Mountain Pressure Control Structure Upgrades – a 42-inch stainless steel sleeve valve for the Red Mountain Pressure Control Structure
- Completed preliminary design of the following projects:
 - Eagle Rock Security Upgrades
 - Eastern Region Security Infrastructure Upgrades
 - Santa Monica Feeder Hollywood Tunnel North Portal Upgrades
 - Service Connection A-02 Rehabilitation
 - Western Region Security Infrastructure Upgrades

Upcoming Activities

Upcoming work for the next quarter will include:

- Complete construction of the following projects:
 - Foothill Hydroelectric Power Plant Seismic Upgrade
 - OC-88 Pump Station Chiller Replacement
- Continue construction activities planned for the following projects:
 - Perris Valley Pipeline I-215 Tunnel Crossing – Shutdown and perform tie-in to existing facility
 - Rialto Pipeline Rehabilitation at Station 2986+30 and Rehabilitation of Service Connection CB-11
 - San Diego Canal Concrete Liner Replacement – Site 236
 - Santa Monica Feeder Cathodic Protection

- Continue procurement for the following projects:
 - Auld Valley and Red Mountain Pressure Control Structure Upgrades – a 42-inch stainless steel sleeve valve for the Red Mountain Pressure Control Structure
 - East Lake Skinner Bypass Slide Gates Replacement
 - Foothill Feeder Blowoff Valve Replacement
 - Lakeview Pipeline Relining – Stage 2
 - Orange County Area Pressure Control Structure Glove Valve Replacement
 - Rialto Pipeline Rehabilitation at Station 2986+30 and Rehabilitation of Service Connection CB-11
 - San Jacinto Diversion Structure Slide Gates V-01, V-02, V-03, and V-04 Rehabilitation
- Award contracts for the following project:
 - Santa Monica Feeder Hollywood Tunnel North Portal Valve Procurement
- Continue final design for the following projects:
 - Auld Valley and Red Mountain Pressure Control Structures Upgrades
 - Hollywood Tunnel North Portal Equipment Upgrades
 - Los Angeles County Region Right of Way Infrastructure Protection – Stage 1
- Initiate final design for the following projects:
 - Eagle Rock Security Upgrades
 - Eastern Region Security Infrastructure Upgrades
 - Santa Monica Feeder Hollywood Tunnel North Portal Upgrades
 - Service Connection A-02 Rehabilitation
 - Western Region Security Infrastructure Upgrades
- Continue preliminary design for the following project:
 - Riverside and San Diego County Region Right of Way Infrastructure Protection – Stage 1

Perris Valley Pipeline I-215 Tunnel Crossing

Total Project Estimate:
\$79.3 million

Total Project Cost to Date:
\$74.4 million

This project will connect northern and southern reaches of Perris Valley Pipeline by constructing approximately 3,000 linear feet of 97-inch diameter welded steel pipe. The project will also construct four access shafts, cathodic protection test stations, and geotechnical instrumentation and monitoring equipment.

Phase	Construction
% Complete for Construction	94%
Construction Contract Award Date	January 2023
Estimated Construction Completion Date	June 2025
Contract Number	1928

The contractor performed site restoration activities at the southern and intermediate tunnel shafts. The contractor completed sheet piling installation and grouting at the tie-in point to the northern reach of Perris Valley Pipeline. In the upcoming quarter, the contractor will complete the connection to the northern reach of the Perris Valley Pipeline.



Sheet piling installation at the northern tie-in to Perris Valley Pipeline

Drought Mitigation - SWP Dependent Areas Program

Actual Biennium Expenditures
(Jul. 2024 through Dec. 2024)
\$15.22 million

Program Information: The Drought Mitigation – SWP Dependent Areas Program is comprised of projects to replace, refurbish, upgrade, or construct new facilities, which are identified to mitigate the vulnerability experienced by specific member agencies that are impacted during shortages on the State Water Project supplies.

Program Highlights (2nd Quarter)

Accomplishments

- Badlands Tunnel Surge Protection Facility
 - Completed concrete placement for valve vault structure walls and surge tank foundation
 - Installed welded steel pipe and an 84-inch diameter isolation valve
- Inland Feeder/Rialto Pipeline Intertie
 - Completed concrete placement for valve vault structure walls
 - Installed welded steel pipe and an 84-inch diameter isolation valve
- Inland Feeder/San Bernardino Valley Municipal Water District (SBVMWD) Foothill Pump Station Intertie
 - Continued final design and right-of-way acquisition
 - Continued procurement of two 54-inch and one 132-inch diameter butterfly valves
- Sepulveda Feeder Pump Stations
 - Continued early procurement of authorized long-lead equipment
 - Continued Phase 1 design under a progressive design-build services agreement
- Wadsworth Pumping Plant Bypass Pipeline
 - Continued site work and installation of electrical components

Upcoming Activities

Upcoming work for the next quarter will include:

- Continue progress on four individual projects to allow the delivery of water from Diamond Valley Lake to the Rialto Pipeline
 - Badlands Tunnel Surge Protection Facility: Complete tie-in of new piping during planned shutdown
 - Inland Feeder/Rialto Pipeline Intertie: Complete tie-in of new piping during planned shutdown
 - Inland Feeder/San Bernardino Valley Municipal Water District (SBVMWD) Foothill Pump Station Intertie: Continue NEPA document preparation, environmental permitting, right-of-way acquisition, and valve procurement
 - Wadsworth Pumping Plant Bypass Pipeline: Continue sitework, installation of electrical components, and begin installation of an 84-inch diameter isolation valve
- Sepulveda Feeder Pump Stations
 - Complete Phase 1 progressive design-build and continue negotiation of a Guaranteed Maximum Price (GMP) to complete Phase 2
 - Continue procurement of long-lead equipment

Sepulveda Feeder Pump Stations

Total Project Estimate:
\$115.0 million

Total Project Cost to Date:
\$10.8 million

This project will install new pump stations at the existing Venice and Sepulveda Canyon pressure control facilities, providing the ability to reverse flow in the Sepulveda Feeder and delivering 30 cubic feet per second (cfs) from the Central Pool to portions of the Jensen plant exclusive area. This project utilizes a progressive design-build (PDB) project delivery method.

Phase	Progressive Design-Build (PDB) - Phase 1
% Complete for PDB	85%
PDB Contract Award Date	September 2023
Estimated PDB Phase 1 Completion Date	April 2025
PDB Contract Number	2060

The Design-Build Entity (DBE) issued purchase orders for authorized long-lead equipment, including pumps, large valves, and electrical switchgear and transformers. The 70% design package has been submitted by the DBE for staff review. In the upcoming quarter, the DBE and Metropolitan will continue to negotiate a Guaranteed Maximum Price (GMP), and staff will present the GMP to the Board the following quarter for authorization of Phase 2 final design and construction.



Rendering of the future Sepulveda Feeder Pump Station at the Sepulveda Canyon Pressure Control Facility

Information Technology and Control Systems Program

Actual Biennium Expenditures
(Jul. 2024 through Dec. 2024)
\$7.83 million

Program Information: The Information Technology and Control Systems Program is comprised of projects to replace, upgrade, or provide new facilities, software applications, or technology that will enhance cyber security, reliability, flexibility, and capability of information, communication, and control systems.

Program Highlights (2nd Quarter)

Accomplishments

- Control System Upgrade – Phase 4
 - Completed potholing for spare conduit ductbanks
 - Continued design of spare conduit ductbanks and control room modifications
- Desert Microwave Site Tower Upgrades
 - Advertised construction bid package for equipment installation
- Enterprise Content Management Phase II
 - Continued design
- Enterprise Data Analytics
 - Executed an agreement with a selected vendor for define and design phases
- Headquarters Network Switch Replacement
 - Continued equipment installation
- MWD IntraMet Upgrade
 - Advertised Request for Proposal (RFP)
- Oracle Database Upgrade
 - Continued execution of the database migration plan
- Real Property Group Business System Replacement
 - Completed accounts receivable portion of financial integration testing
- Security Operations Center MWD Cyber Security Upgrade – Stage 1
 - Continued testing of monitoring capabilities
- WiFi Implementation
 - Awarded a construction contract under GM authority for Headquarters Building Courtyard and Parking Garage
 - Reviewed and approved initial design for San Bernardino Region sites
- WINS Water Billing System Upgrade
 - Continued system upgrade

Upcoming Activities

Upcoming work for the next quarter will include:

- Control System Upgrade – Phase 4
 - Continue design of conduit ductbanks
- Desert Microwave Site Tower Upgrades
 - Award construction contract for equipment installation and procurement contracts for network equipment

- Emergency Radio Communications Systems Upgrade
 - Continue preparation of RFP
- Enterprise Content Management Phase II
 - Continue design
- Enterprise Data Analytics
 - Continue developing requirements and design
- Headquarters Network Switch Replacement
 - Continue equipment installation
- MWD IntraMet Upgrade
 - Receive and evaluate proposals
- Oracle Database Upgrade
 - Continue database migration
- Real Property Group Business System Replacement
 - Conduct user acceptance testing
- Security Operations Center MWD Cyber Security Upgrade – Stage 1
 - Continue go live with additional functionalities
- WiFi Implementation
 - Advertise a construction bid package and host pre-bid job walk for LA Region
- WINS Water Billing System Upgrade
 - Continue system upgrade

<h2>Real Property Group Business System Replacement</h2>	Total Project Estimate: \$1.6 million
	Total Project Cost to Date: \$1.5 million

This project will replace an existing Real Property application for lease management with a new application covering both acquisitions and property management.

Phase	Deployment
% Complete for Current Phase	95%
Current Phase Authorized	September 2020
Estimated Completion Date of Current Phase	January 2025

The consultant completed reports and application changes. In the upcoming quarter, the consultant will complete the Oracle E-Business Suite integration.

The screenshot displays the 'Flairdocs' web application interface. The top navigation bar includes 'Reports', 'Resources', and 'Admin'. Below this, there are tabs for 'Property Info', 'Assignments', 'Agreements', 'Appraisal', 'Property Diary', and 'Title/Drawings'. The main content area is titled 'Property Info' and contains a form with various input fields. On the left side, there is a sidebar with a list of 'Inventory - 379' items and a 'New Agreement/Encroachment' button. The form fields include text boxes, dropdown menus, and date pickers. A 'Save' button is located at the bottom right of the form area.

New real property business management system

Prestressed Concrete Cylinder Pipe (PCCP) Program

Actual Biennium Expenditures
(Jul. 2024 through Dec. 2024)
\$48.70 million

Program Information: The PCCP Program is composed of projects to refurbish or upgrade Metropolitan's PCCP feeders to maintain water deliveries without unplanned shutdowns.

Program Highlights (2nd Quarter)

Accomplishments

- Second Lower Feeder
 - Reach 3B – During this quarter, the contractor relocated interfering utilities, installed temporary traffic controls, excavated access portals, removed three 44-inch diameter sectionalizing valves slated for replacement, and started pipe relining associated with the second of two shutdowns. The second shutdown began December 9, 2024 and is scheduled to end in April 2025. The total scope of the project is to reline approximately 3.6 miles of Second Lower Feeder PCCP pipeline from the intertie with Sepulveda Feeder south to Oak Street PCS; through the cities of Torrance, Los Angeles, and Lomita; and replace three 48-inch diameter sectionalizing valves at the intertie with Sepulveda Feeder. To date, approximately 2.4 miles have been relined.
 - Isolation Valve Procurement – As of December 20, 2024, procurement and delivery of thirteen large-diameter conical plug valves and actuators are complete. The thirteen valves include three 48-inch diameter and ten 54-inch diameter valves.
- Sepulveda Feeder
 - Reach 1 – Continued final design to rehabilitate approximately 4.7 miles of Sepulveda Feeder PCCP pipeline, from just north of the Inglewood Lateral south to the West Coast Feeder, through the cities of Inglewood and Hawthorne, and unincorporated Los Angeles County.
 - Reach 2 – Continued final design and permitting to rehabilitate approximately 3.8 miles of Sepulveda Feeder PCCP pipeline, from the Dominguez Gap Channel south to the intertie with Second Lower Feeder, through the cities of Torrance and Los Angeles.
 - Reach 9 – Continued final design of Reach 9, the first construction package of the North Reach, which is necessary to support the operation of Stage 2 of the Sepulveda Feeder Pump Stations project.
 - North Reach – Continued preliminary design of the northern 20-mile portion of the Sepulveda Feeder, including both steel and PCCP portions of the pipeline and appurtenances.
- Allen-McColloch Pipeline Urgent Relining
 - Stage 1 – Performed site restoration activities
 - Stage 2 – Completed all pipeline relining and mortar lining work and began site restorations

Upcoming Activities

Upcoming work for the next quarter will include:

- Second Lower Feeder
 - Reach 3B – Continue work related to the second shutdown including pipe relining work and replacement of valves.
- Sepulveda Feeder
 - Reach 1 – Continue final design
 - Reach 2 – Continue final design
 - Reach 9 – Continue final design to rehabilitate 3.8 miles of PCCP
 - North Reach – Continue preliminary design
- Allen-McColloch Pipeline Urgent Relining
 - Stage 1 – Complete site restoration work at one excavation site
 - Stage 2 – Complete removal of a temporary bulkhead that isolates the portion of the AMP south of the OC-88 pump station, return the entire pipeline to service, and complete restoration of disturbed areas

Allen-McColloch Pipeline PCCP Urgent Rehabilitation - Stages 1 & 2

Total Project Estimate:
\$67.0 million

Total Project Cost to Date:
\$50.8 million

This project performs urgent relining of approximately 3.2 miles of distressed PCCP segments of the Allen-McColloch Pipeline (AMP) that were discovered during an inspection in November 2023. Work is being performed in two stages to expedite returning the pipeline to service. Stage 1 includes carbon fiber reinforced polymer (CFRP) and steel relining of approximately 4,500 feet of PCCP pipeline, including approximately 2,200 feet upstream of the OC-88 pump station (OC-88), installation of a bulkhead just downstream of OC-88, and steel relining approximately 2,300 feet of PCCP downstream of OC-88. Stage 2 includes steel relining of approximately 12,700 feet of pipeline, including all remaining PCCP segments downstream of OC-88. Relineing work for Stage 1 is being performed under two change orders to existing construction contracts. A third change order to an existing procurement contract was utilized to procure steel liner pipe for both stages of the work.

Phase	Construction
% Complete for Construction for Stage 1	95%
% Complete for Construction for Stage 2	90%
Change Order Authority Authorized for Stage 1	February 2024
Construction Contract Awarded for Stage 2	May 2024
Estimated Construction Completion Date for Stage 1	February 2025
Estimated Construction Completion Date for Stage 2	March 2025
Construction Contract Numbers for Stage 1 ¹	2026, 2088
Construction Contract Number for Stage 2	2108

Pipe relining, mortar lining work, and backfill for Stage 1 were completed. For Stage 2, all relining works and backfill of all sites except one were completed. In the upcoming quarter, the contractor will backfill the last pipe access site for Stage 2. The bulkhead downstream of OC-88 will be removed and site restoration for a Stage 1 pipe access site downstream of OC-88 will be completed. For Stage 2, site cleanup, restoration, traffic control removal, paving, and road restriping will be completed. An agreement to share paving costs with El Toro Water District will be executed.



Stage 2 – concrete encasement forming and rebar installation for the pipe closure at an access site

¹ Stage 1 construction is being performed under two existing construction Contract Nos. 2026 and 2088 via change orders.

Water Treatment Plants Program

Actual Biennium Expenditures
(Jul. 2024 through Dec. 2024)
\$35.19 million

Program Information: The Water Treatment Plants Program is comprised of projects to replace or refurbish facilities and components at Metropolitan's five water treatment plants and chlorine unloading facility to continue to reliably meet treated water demands.

Program Highlights (2nd Quarter)

Accomplishments

- Completed construction of the following project:
 - Diemer Power and Distribution Panel Upgrade
- Continued procurement and construction for the following project:
 - Diemer Helicopter Hydrant Facility
- Continued construction for the following projects:
 - Mills Electrical Upgrades – Stage 2
 - Weymouth Asphalt Pavement Rehabilitation
 - Weymouth Basins Nos. 5-8 & Filter Building No. 2 Rehabilitation
 - Weymouth Hazardous Waste Staging and Containment
- Continued final design for the following projects:
 - Diemer Filter Rehabilitation
 - Weymouth Administration Building Upgrades
- Completed preliminary design of the following projects:
 - Jensen Finished Water Reservoir Rehabilitation
 - Mills Finished Water Reservoir Rehabilitation
- Continued preliminary design of the following projects:
 - Diemer Washwater Reclamation Plant Improvements & Slope Stabilization
 - Jensen Bromate Control Upgrades
 - Jensen Modules Nos. 2 & 3 Solids Removal System Rehabilitation
 - Jensen Reservoir Bypass Gate Replacement
 - Jensen Solids Mechanical Dewatering Facility
 - Mills Basin Solids Removal System Rehabilitation
 - Mills Perimeter Security & Erosion Control Improvements

Upcoming Activities

Upcoming work for the next quarter will include:

- Complete construction of the following project:
 - Weymouth Hazardous Waste Staging and Containment
- Complete procurement for the following project:
 - Diemer Helicopter Hydrant Facility

- Continue construction of the following projects:
 - Diemer Helicopter Hydrant Facility
 - Mills Electrical Upgrades – Stage 2
 - Weymouth Asphalt Pavement Rehabilitation
 - Weymouth Basins Nos. 5-8 & Filter Building No. 2 Rehabilitation
- Continue final design for the following projects:
 - Diemer Filter Rehabilitation
 - Weymouth Administration Building Upgrade
- Continue preliminary design of the following projects:
 - Diemer Washwater Reclamation Plant Improvements & Slope Stabilization
 - Jensen Bromate Control Upgrades
 - Jensen Modules Nos. 2 & 3 Solids Removal System Rehabilitation
 - Jensen Reservoir Bypass Gate Replacement
 - Jensen Solids Mechanical Dewatering Facility
 - Mills Basin Solids Removal System Rehabilitation
 - Mills Perimeter Security & Erosion Control Improvements

Diemer Helicopter Hydrant Facility

Total Project Estimate:
\$2.0 million

Total Project Cost to Date:
\$1.0 million

This project will design and construct a new helicopter hydrant facility at the Diemer plant site. The project will procure and install an engineered water tank system to allow water-dropping helicopters to fill up with water while the helicopters are in the air during a fire event. This project also includes construction of a helicopter landing pad and other related infrastructure to operate the hydrant facility. The project will be partially funded by a grant previously awarded to Yorba Linda Water District by the United States Forest Service to construct the facility. Metropolitan is now a subrecipient of the grant and the grant funds will be used to defray Metropolitan’s cost for the project.

Phase	Construction
% Complete for Construction	10%
Construction Initiated	November 2024
Estimated Construction Completion Date	August 2025

Metropolitan approved shop drawing submittal of pre-manufactured tank and awarded the procurement contract for bulk construction materials and reinforcing steel installation. Subgrade for the helicopter landing pad was completed, and over-excavation for the tank subgrade began. In the upcoming quarter, Construction Services Unit will continue preparation of the tank subgrade and complete the installation of concrete foundation forms for the helicopter landing pad and the tank. Installation of reinforcing steel for the helicopter landing pad and the tank foundations will be completed.



Helicopter landing pad at the Diemer plant – placing crushed aggregate for the pad subgrade

Minor Capital Projects Program

The Minor Capital Projects (Minor Cap) Program is authorized biennially to enable staff to expedite small capital projects. At the commencement of each biennium, the Board had appropriated the entire two-year budget for the program. For the current and the last biennia, the minor cap budget was included in the CIP appropriation. To be considered for inclusion in the Minor Cap Program, a project must have a planned budget of less than \$400,000. The \$400,000 project budget cap was first established by the June 2018 board action and the same cap is applied for the new minor caps that are approved for the current biennium.

The duration of minor capital projects typically ranges from a few months to three years. Since many of these projects require rapid response to address unanticipated failures, safety, or regulatory compliance concerns, or to take advantage of shutdown opportunities, the Minor Cap Program authorizes the General Manager to execute projects that meet defined criteria without seeking additional board approval.

In April 2024, the Board appropriated funds for the projects identified in the CIP appendix for the current biennium, FYs 2024/25–2025/26, including the Minor Cap Program. \$10 million of initial funds for this program has been allocated for the current biennium.

Minor Cap Program Historical Summary

The following table provides the overall status of the four active Minor Cap appropriations for the fiscal years 2018/19–2019/20 through fiscal years 2024/25–2025/26.

Table 4: Minor Capital Projects Program

	Fiscal Year				Totals*
	2018/19– 2019/20	2020/21– 2021/22	2022/23– 2023/24	2024/25– 2025/26	
Amount Appropriated	\$15.5M	\$20.0M	\$14.4M	\$10.0M	\$59.9M
Expenditures (through December 2024)	\$12.4M	\$10.1M	\$8.3M	\$0.2M	\$31.0M
Number of Projects Approved	48	48	51	8	154
Number of Projects Completed (through December 2024)	46	26	6	0	78
Number of Projects with Durations of Over 3 Years	2	12	0	0	14

* Numbers may not sum due to rounding.

Through December 2024, 78 of the 154 projects approved under the appropriations mentioned above have been completed, and 14 active projects have exceeded three years in duration, as described below.

- CRA Pumping Plant Air Conditioner System Replacement has been experiencing delays due to longer than anticipated time for equipment procurement. The project will be implemented as part of the major capital project District-wide HVAC Replacement, and the minor capital project will be canceled.
- Dominguez Channel Pressure Release Structure Rehabilitation has been experiencing delays due to longer than anticipated lead time for valve manufacturing and delivery. The project is scheduled to be completed by December 2025.
- East Valley Feeder Vaults Upgrades Project has experienced delays due to additional time required to acquire permits from an external agency. The project is scheduled to be completed by December 2025.
- Jensen Chlorine Railcar Scale experienced delays due to constructability concerns. A field evaluation determined that the sequence required to install the railcar scales would impact operations. As a result, the scales will no longer be constructed and the project is scheduled to be canceled in January 2025.
- For Lake Matthews Mobile Chlorinator Delivery Line Replacement, construction is complete and the project is scheduled to be complete by April 2025.
- Live Oak Reservoir Liner Rehabilitation has been experiencing delays due to longer than anticipated time for coordination of final inspection by the Division of Safety of Dams. The project is scheduled to be completed by April 2025.
- Pasadena Water and Power Site Microwave Tower Replacement experienced delays due to longer than anticipated time for review and approval of the lease agreement between the City of Pasadena and Metropolitan. The project is scheduled to be completed by September 2025.
- Ramona PCS Rehabilitation has been experiencing delays due to longer than anticipated lead time for motor procurement and coordination of the Middle Feeder North shutdown required for valve removal. The project is scheduled to be completed by July 2026.
- Sepulveda Feeder Stray Current Drain Station Installation & Rehabilitation has experienced delays due to longer than anticipated time for review/approval of permit applications by the City of Los Angeles and Los Angeles Department of Transportation.
- Service Connection CA-01 Isolation Gate is scheduled to be completed by November 2026.
- Service Connection CB-01 Valve Replacement has experienced delays due to longer than anticipated time for procurement of a fiberglass reinforced plastic platform. The project is scheduled to be completed by July 2025.
- Venice Pressure Control Structure Security Upgrades has experienced delays due to longer than anticipated time for procurement of automatic entrance gates. Delivery of gates is underway. The project is scheduled to be completed by April 2025.
- Wadsworth Pumping Plant Lighting Upgrades has experienced delays due to longer than anticipated time for material procurement. Additional time is required to pay vendor invoices and complete project closure documents. The project is scheduled to be completed by April 2025.
- Weymouth Rejection Overflow Structure Security Improvements has experienced delays due to additional security features added to the original project scope after trespassers were detected. The project is scheduled to be completed by April 2025.

Minor Cap Projects, 2nd Quarter

Authorized Projects

Four projects were authorized under the Minor Cap Program during the 2nd Quarter of fiscal year 2024/25 (October through December 2024). The total amount authorized for these projects was \$1,000,960.

- Cloud Infrastructure Development and Improvements – This project will provide improvements to Metropolitan's current cloud environment by leveraging industry best practices throughout all environments. This project will enhance cloud configurations to prevent prolonged outages and improve disaster recovery procedures. The project budget is \$363,000.
- CRA Hinds Pumping Plant Elevator Power Unit Replacement – This project will remove and replace the aging elevator hydraulic power unit equipment at the Hinds Pumping Plant, which has exceeded its useful life. The project budget is \$160,000.
- Eagle Mountain Communications Room Security Upgrades – This project will install doors, card readers, cameras, and physical security features to protect Metropolitan's bulk electrical system and cyber assets at the Eagle Mountain Communications Room and comply with the North American Electrical Reliability Corporation (NERC) standards. The project budget is \$87,960.
- Skinner Plant 3 Rejection Structure Improvement – This project will construct a barrier wall within Skinner Plant 3 to separate the Plant 2 effluent rejection system and the Plant 3 rejection/storm drain system. This project will also prevent wildlife intrusion. The project budget is \$390,000.

Completed Projects

Four projects were completed under the Minor Cap Program during the 2nd Quarter of fiscal year 2024/25 (October through December 2024):

- Diamond Valley Lake Network Security Improvements
- Diemer Plant Warehouse Upgrades
- Metropolitan Headquarters Courtyard Improvements
- Skinner Plant Lighting Upgrades

Canceled Projects

Two projects were canceled during the 2nd Quarter of fiscal year 2024/25 (October through December 2024):

- Jensen WWRP No. 2 Flocculator Rehabilitation was originally initiated in FYs 2020/21 and 2021/22 minor cap appropriation. The project was canceled to be addressed by the major capital project Jensen WWRP No. 2 Side 3 Flocculator Rehabilitation.
- OC-88 Surge Tank Recirculation System Upgrade was originally initiated in FYs 2020/21 and 2021/22 minor cap appropriation. The project was canceled and to be addressed by the major capital project OC-88 Surge Tank Recirculation System Replacement.

Expenditures

Actual biennium expenditures to date (October 2024 through December 2024) for the Minor Capital Projects Program were \$3.01 million.

Project Actions

Table 5 lists capital project actions authorized by the General Manager along with funding allocation amounts during the 2nd Quarter of FY 2024/25, through the authority delegated by the Board in April 2024. The total funding amount authorized during the 2nd Quarter is \$63,593,000 through thirty-five management actions. In some cases listed below, the Total Amount Authorized may differ from the Amount Authorized for Current Biennium when the work authorized is scheduled to extend beyond the current biennium. In these cases, it is anticipated that staff will request sufficient funds to be allocated from the CIP Appropriation for the next biennium to cover the planned remaining future-year costs of the project. When the Amount Authorized for Current Biennium is equal to the Total Amount Authorized, the authorized work is planned to be completed within the current biennium. Table 5 excludes any board items heard in closed session and minor cap authorizations. Minor cap authorizations can be found in the Minor Capital Projects Program section of this report.

Table 5: Capital Projects Funded in 2nd Quarter

Project Authorized	Activity Authorized	Amount Authorized for Current Biennium	Total Amount Authorized
Auld Valley and Red Mountain Control Structures	Procurement: One 42-inch Sleeve Valve and Actuator for Red Mountain Control Structure	\$771,257	\$800,000
CB-18 Magnetic Flow Meter Replacement	Final Design	\$32,000	\$32,000
CENB-54 Meter Replacement	Procurement and Construction	\$230,000	\$240,000
Covina PCS Rehabilitation - Stage 1	Study	\$50,000	\$50,000
CRA Aircraft Facility Improvements - Stage 2	Study	\$170,000	\$170,000
CRA Copper Basin Sodium Hypochlorite Tank Rehabilitation	Final Design	\$100,000	\$100,000
CRA Eagle Lift & Eagle West Siphons Seismic Improvements	Rockfall Hazard Study	\$210,000	\$210,000
CRA Employee Housing Roof Replacement	Construction	\$1,015,000	\$1,105,000
CRA Main Motor Units Protection Relay Replacement - Stage 1	Field Investigation, Final Design, and Procurement	\$1,770,500	\$1,800,000
Delta Properties Infrastructure Improvements - Phase 5	Construction of Twenty-Five Flowmeters at Webb and Bouldin Islands	\$382,500	\$400,000
Desert Microwave Tower Site Upgrades	Procurement and Construction: One Path with Two Transmission Communication Channels	\$1,203,000	\$1,374,000

Project Authorized	Activity Authorized	Amount Authorized for Current Biennium	Total Amount Authorized
Diemer Finished Water Reservoir Slope Protection Improvements ²	Additional Study	\$350,000	\$350,000
Diemer Helicopter Hydrant Facility ³	Additional Procurement	\$488,000	\$500,000
Diemer Ozone Network Upgrade	Final Design, Procurement, and Construction	\$500,000	\$500,000
Districtwide Zero Emission Fleet Infrastructure ⁴	Additional Study	\$1,400,000	\$1,500,000
Foothill Feeder PCS Butterfly Valve Structure Fall Protection Improvements	Final Design	\$67,775	\$67,775
Headquarters Building Zero Emission Vehicle Infrastructure Upgrades – Stage 1	Field Investigation and Final Design	\$1,160,200	\$1,300,000
Hinds Pumping Plant Fuel Dispenser System Improvement	Preliminary Design and Final Design	\$245,000	\$245,000
Jensen Security Improvements ⁵	Additional Final Design	\$600,000	\$600,000
La Verne Water Quality Laboratory Equipment Replacement	Procurement	\$1,328,550	\$2,980,000
Mills Filter Valve Rehabilitation	Initial Study	\$120,000	\$120,000
Palos Verdes Feeder WB-06 Service Connection Fall Protection Improvements	Final Design	\$50,847	\$50,847
Palos Verdes Reservoir Second Outlet Structure Fall Protection Improvements	Final Design	\$48,264	\$48,264
Pasadena Microwave Tower Phase II	Preliminary Design and Final Design	\$830,000	\$996,000
Ramona PCS Rehabilitation - Stage 1	Study	\$50,000	\$50,000

² Previous project action authorized consultant selection and development of a scope of work for a comprehensive study report. The project action in this reporting quarter is for preparation of a study report that includes evaluating options for slope protection, developing design criteria, and preparing preliminary construction cost estimate.

³ Additional procurement funds were needed to provide reinforcing steel to support the construction.

⁴ Additional study funds were needed to coordinate with the local utilities and cities. The work includes plan check and identification of charger locations and space for backup power generation system for the required upgrades. The funds were also needed to complete master planning document.

⁵ Additional final design funds were required to add additional security cameras to provide contiguous surveillance coverage.

Project Authorized	Activity Authorized	Amount Authorized for Current Biennium	Total Amount Authorized
Rio Hondo Pressure Control Structure Valve Replacement – Stage 1	Final Design	\$125,000	\$125,000
Sepulveda Feeder Pump Station	Procurement: Four Pumps, 19 valves, Electrical Switchgear, and Motor Control Centers	\$40,000,000	\$40,000,000
Sepulveda Feeder West Basin Feeder Interconnect Structure Fall Protection Improvements	Final Design	\$50,114	\$50,114
Skinner 480V Circuit Breaker Rehabilitation	Initial Study	\$60,000	\$60,000
Skinner Plantwide Chemical Flow Meter Replacement	Initial Study	\$60,000	\$60,000
Skinner Sulfuric Acid Tank Farm Pipe Rehabilitation	Initial Study	\$140,000	\$150,000
Santa Monica Feeder SMN-01 Flow Meter Replacement	Final Design, Procurement, and Construction	\$110,000	\$110,000
Wadsworth HEP Pump Rehabilitation	Study: Field Investigation (One Pump)	\$109,000	\$125,000
Weymouth Sedalia Property Acquisition	Property Acquisition	\$1,299,000	\$1,324,000
Zero Emission Fleet Pilot Infrastructure – Stage 2, Phase 1	Field Investigation, Final Design, Procurement, and Construction	\$5,686,000	\$6,000,000
Total		\$60,812,007	\$63,593,000

Due to changes to the project implementation schedules on the following project, \$9,135,300 was reallocated from the CIP Appropriation (Appropriation No. 15535) to the previously authorized project listed in Table 6 below. While the reallocation changed the biennial funded amount, the total authorized funding for the project remained the same.

Table 6: General Manager Actions to Reallocate Capital Project Funds

Project Authorized (Title)	Amount Authorized for Reallocation
Battery Energy Storage System	\$8,830,000
Weymouth Improvements FY18/19 to 23/24 Remaining Budget	\$305,300
Total	\$9,135,300

CEQA Determinations

Table 7 lists CEQA exemption determinations made by the General Manager during the 2nd Quarter. Consistent with CEQA, the Board delegated this authority to the General Manager in April 2024. Adoption of Negative Declarations, Mitigated Negative Declarations, and certification of Environmental Impact Reports will continue to require action by Metropolitan’s Board. This table excludes information on board items.

Table 7: CEQA Exemption Determinations

Projects
San Diego Canal Radial Gates V-06 and V-08 Rehabilitation

Construction and Procurement Contracts

The table below summarizes the status of all construction and procurement contracts that were awarded by the Board and active during the reporting quarter. These contracts are listed in Table 10 and Table 11. Total contract earnings for the 2nd Quarter were approximately \$49.80 million.

Table 8: 2nd Quarter Contract Actions

Contract Actions during Q2 for FY 2024/2025, October 2024 through December 2024	
Contracts Awarded by Board	2 construction contracts totaling \$2.42 million 2 procurement contracts totaling \$1.04 million
Total Payments Authorized ⁶	\$49.80 million
Construction Contracts Completed	Notice of Completion was filed for 3 construction contracts (Table 9)
Procurement Contracts Completed	2 procurement contracts were completed ⁷
Active Contracts at end of Q2 ⁸	27 construction contracts, totaling \$457.18 million (Table 10) 18 procurement contracts, totaling \$77.44 million (Table 11) \$534.62 million total value*

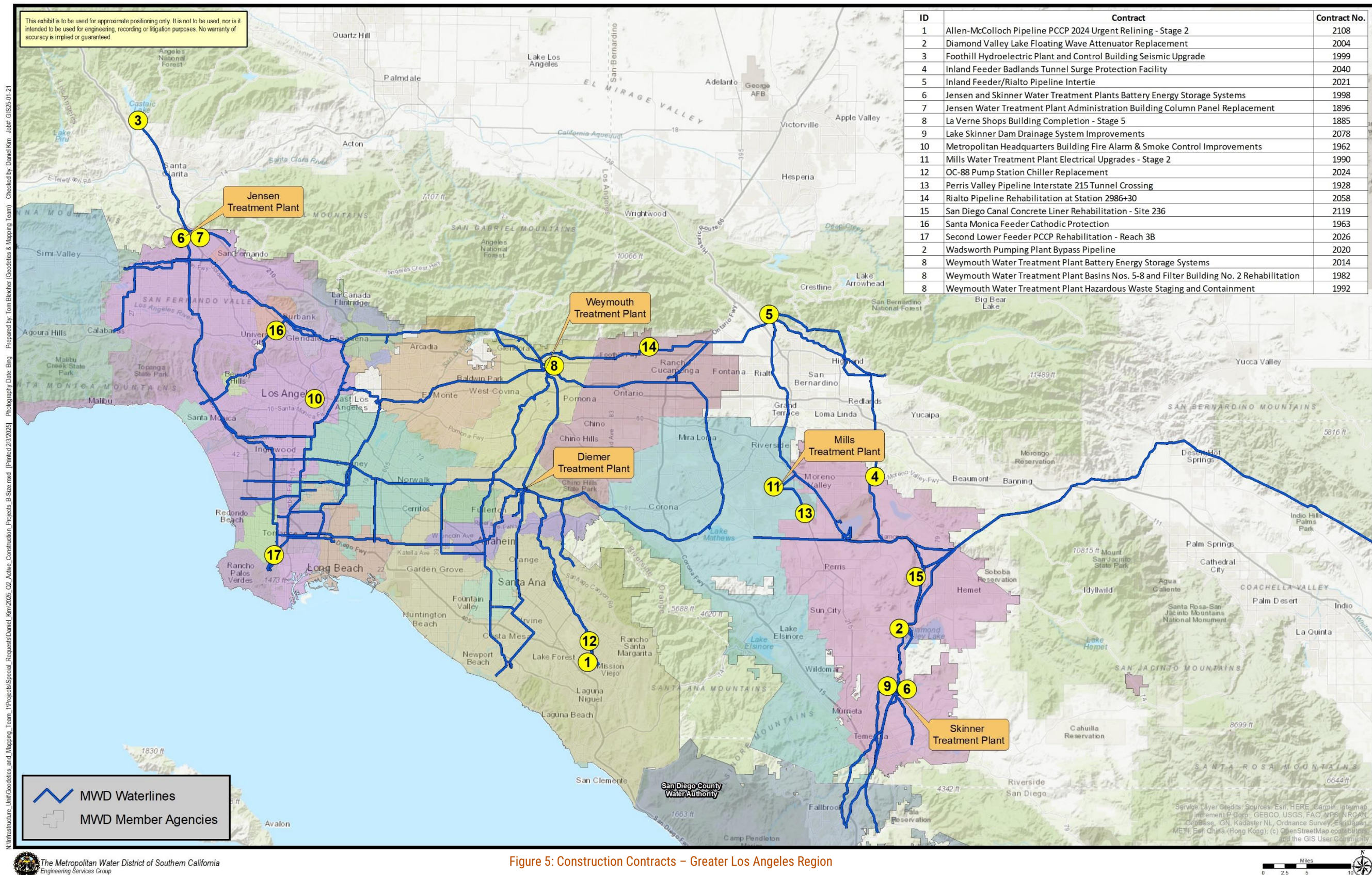
*Numbers may not sum due to rounding.

The figures on the next two pages show the locations of the twenty-seven construction contracts that were active through the end of the 2nd Quarter.

⁶ Includes payments for O&M work under CIP contracts and grant-funded drought mitigation contracts.

⁷ Contract 1861 for Furnishing Lubricated Plug Valves for the Second Lower Feeder PCCP Rehabilitation and Contract 1873 for Furnishing One Hydraulic Shear System for the La Verne Maintenance Shops were completed during the reporting quarter.

⁸ Active contracts at the end of the 2nd Quarter are those that are ongoing at the end of December 2024 and have not filed Notice of Completion with the county where the work was performed.



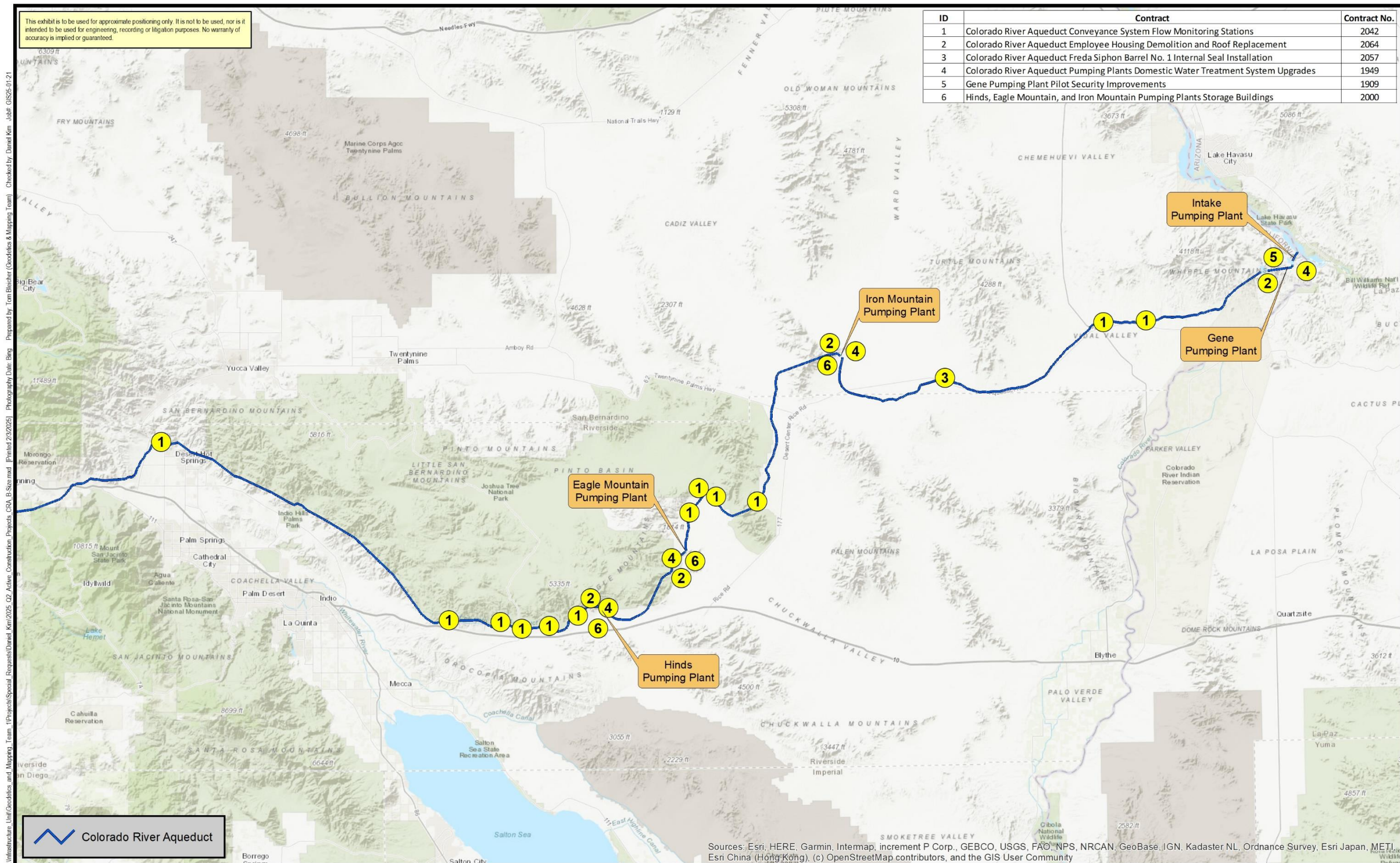


Figure 6: Construction Contracts – Colorado River Aqueduct

Metropolitan’s Administrative Code authorizes the General Manager to execute change orders on construction contracts in an aggregate amount not to exceed five percent of the original amount of the contract or \$250,000, whichever is greater. If changes occur on a construction contract that will exceed this total, additional authorization from the Board is required. In addition, the General Manager is authorized to execute change orders on procurement contracts in an amount not to exceed \$250,000. In the 2nd Quarter, the Board did not authorize any increase to the General Manager’s change order authority.

Notices of Completion during 2nd Quarter:

The following table shows the three board-awarded construction contracts for which Metropolitan accepted the contract as completed during the 2nd Quarter of FY 2024/25 and filed a Notice of Completion (NOC) with the county where the work was performed. In accordance with Section 9204 of the Civil Code of the State of California, an NOC is filed within 15 days of acceptance by Metropolitan of completion of construction by the contractor.

Table 9: Notices of Completion Filed This Quarter

Contract No.	Construction Contract	Notice of Completion	Original Bid Amount	Final Contract Costs	Change Order	Change Order %
1976	Gene Communication System Upgrade	12/5/2024	\$1,244,935	\$1,244,935	\$0	0%
2003	Metropolitan Headquarters Exterior Physical Security Upgrades	11/15/2024	\$2,165,000	*	*	*
2018	Weymouth Treatment Plant Asphalt Refurbishment	10/15/2024	\$1,754,000	*	*	*
Totals:			\$5,163,935			

For the 2nd Quarter, the total bid amount of the completed construction contract was approximately \$5.2 million.

For Contract Nos. 2003 and 2018, although NOCs were filed during the reporting quarter, the final contract cost and change order amount have not yet been finalized due to outstanding pending issues. The finalized information will be included in a future CIP quarterly report.

For Contract No. 1989 – Metropolitan Headquarters Building First Floor Video Suit Renovation, the NOC filing was reported in the CIP Quarterly Report for 1st quarter of FY2024/25. However, the final contract cost and change order amount were not reported due to outstanding pending issues. The issues were resolved, and amounts finalized during the reporting quarter. The final contract cost is \$787,473, including the final change order amount of \$149,953, which resulted in a change order percentage of 23.5%. The change order was necessary due to owner directed change order to accommodate changed staff working conditions, including lighting grid backing plates and changes in the room size from the construction plans.

Final contract costs shown represent actual earnings as of the end of the quarter and may be refined based on resolution of pending issues subsequent to the completion date.

The final contract costs can differ from the original bid amount due to change orders and actual costs incurred on unit price or other various bid items. The rolling average of change orders on completed construction contracts during the preceding 12-month period (January 2024 through December 2024) is 5.90 percent⁹.

⁹ Original amount of construction contracts completed (January 2024 through December 2024) = \$ 68,008,929
 Change orders for completed construction contracts (January 2024 through December 2024) = \$ 4,159,462
 Change order percentage (January 2024 through December 2024) = 5.90%

The rolling average of change orders includes change order work to complete Allen-McColloch Pipeline PCCP 2024 Urgent Relining - Stage 1 as part of Contract No. 2088 - Sepulveda Feeder CFRP Urgent Relining. The rolling average of change orders is 4.33 percent if Contract No. 2088 is excluded.

The table on this page lists the 27 ongoing construction contracts through the end of the 2nd Quarter. This list contains construction contracts awarded by the Board.

Table 10: Active Construction Contracts at the End of 2nd Quarter

	Cont. No.	Contract Title	Contractor	Contract Amount ¹⁰	Earnings Through Dec. 2024 ¹¹	Start Date	Est. Completion Date	Est. Percent Complete
1	1885	La Verne Shops Building Completion – Stage 5	Woodcliff Corporation, Inc.	\$19,580,047	\$18,882,147	6/10/22	3/25	96%
2	1896	Jensen Admin. Bldg. Entrance Glass Fiber Reinforced Concrete Panels Replacement ¹²	MMJ Contracting, Inc.	\$281,900	\$105,898	7/14/23	6/25	38%
3	1909	Gene Pumping Plant Pilot Security Improvements ¹²	The Kepler Group, Inc.	\$295,561	\$268,077	5/2/24	1/25	91%
4	1928	Perris Valley Pipeline Interstate 215 Tunnel Crossing ^{12, 13}	James W. Fowler, Company	\$59,690,208	\$56,649,699	2/13/23	6/25	95%
5	1949	Colorado River Aqueduct Pumping Plants Domestic Water Treatment System Replacement ¹²	J.F. Shea Construction, Inc.	\$33,346,737	\$14,195,556	1/20/22	4/26	43%
6	1962	MWD HQ Building Fire Alarm & Smoke Control Improvements ¹²	Bernards Bros. Inc.	\$14,355,588	\$13,202,588	9/24/20	2/25	92%
7	1963	Santa Monica Feeder Cathodic Protection	Exaro Technologies Corporation	\$897,469	\$0	7/10/24	3/25	0%

¹⁰ The contract amount may differ from the original bid amount due to periodic change orders approved by the General Manager or, if required, by the Board.

¹¹ Earnings reported in this table are the total contract earnings as they are known to be at the end of the reporting quarter.

¹² Granting of additional working days to complete construction is being considered.

¹³ Indication of Project Labor Agreement (PLA) project awarded by the Board.

	Cont. No.	Contract Title	Contractor	Contract Amount ¹⁰	Earnings Through Dec. 2024 ¹¹	Start Date	Est. Completion Date	Est. Percent Complete
8	1982	Weymouth Water Treatment Plant Basins Nos. 5-8 & Filter Building No. 2 Rehabilitation	J.F. Shea Construction, Inc.	\$95,448,573	\$86,836,851	6/10/22	7/25	91%
9	1990	Henry J. Mills Water Treatment Plant Electrical Upgrades, Stage 2	CSI Electrical Contractors, Inc.	\$9,529,862	\$7,427,947	12/13/21	3/25	78%
10	1992	Weymouth Water Treatment Plant Hazardous Waste Staging and Containment ¹²	J.F. Shea Construction, Inc.	\$2,375,700	\$1,537,008	3/12/24	7/25	65%
11	1998	Jensen and Skinner Water Treatment Plants Battery Energy Storage Systems	Ameresco, Inc.	\$11,604,521	\$9,821,326	10/7/21	9/25	85%
12	1999	Foothill Hydroelectric Power Plant Seismic Upgrade ^{12, 13}	West Valley Investment Group, Inc.	\$6,210,962	\$6,058,476	4/27/23	3/25	98%
13	2000	Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings ¹³	J. F. Shea Construction, Inc.	\$16,490,000	\$9,738,447	7/31/23	4/26	59%
14	2004	DVL Floating Wave Attenuator Replacement ¹³	Power Engineering Construction Co.	\$7,842,856	\$2,815,072	3/12/24	10/25	36%
15	2014	Weymouth Plant Battery Energy Storage System ¹²	Siemens Industry, Inc.	\$6,476,521	\$5,779,387	7/18/22	2/25	89%
16	2020	Wadsworth Pumping Plant Bypass Pipeline ^{13, 14}	Steve P. Rados, Inc.	\$15,221,477	\$14,421,451	2/2/23	7/25	95%

¹⁴ This contract is funded by a state grant administered by DWR.

	Cont. No.	Contract Title	Contractor	Contract Amount ¹⁰	Earnings Through Dec. 2024 ¹¹	Start Date	Est. Completion Date	Est. Percent Complete
17	2021	Inland Feeder/Rialto Pipeline Intertie ^{13, 14}	Steve P. Rados, Inc.	\$15,689,535	\$10,960,535	10/16/23	6/25	70%
18	2024	OC-88 Pump Station Chiller Replacement ¹²	Mehta Mechanical Co., Inc. dba MMC Inc.	\$2,654,000	\$2,272,415	6/6/22	3/25	86%
19	2026	Second Lower Feeder PCCP Rehabilitation - Reach 3B ^{13, 15}	J.F. Shea Construction, Inc.	\$80,362,822	\$63,759,332	2/13/23	9/25	79%
20	2040	Inland Feeder Badlands Tunnel Surge Protection Facility ^{13, 16}	Steve P. Rados, Inc.	\$18,847,403	\$11,064,793	12/11/23	6/25	59%
21	2042	CRA Conveyance System Solar Level Sensor Installation ¹²	LEED Electric, Inc.	\$5,270,257	\$4,955,965	6/15/23	2/25	94%
22	2057	CRA Freda Siphon Barrel No.1 Internal Seal Installation	Miller Pipeline, LLC	\$3,895,000	\$2,539,992	10/9/23	6/25	65%
23	2058	Rialto Pipeline Rehabilitation at Station 2986+30	J.F. Shea Construction, Inc.	\$2,197,460	\$62,730	8/2/24	3/25	3%
24	2064	Colorado River Aqueduct Employee Housing Demolition and Roof Replacement	Resource Environmental, Inc.	\$1,285,000	\$19,000	10/2/24	5/25	1%

¹⁵ Change order for Allen-McColloch Pipeline PCCP 2024 Urgent Relining – Stage 1 is included in the contract amount shown in this table.

¹⁶ This contract is partially funded by a state grant administered by DWR.

	Cont. No.	Contract Title	Contractor	Contract Amount ¹⁰	Earnings Through Dec. 2024 ¹¹	Start Date	Est. Completion Date	Est. Percent Complete
25	2078	Lake Skinner Dam Perimeter Drainage Improvements	Heed Engineering	\$588,000	\$0	1/10/25	9/25	0%
26	2108	Allen-McColloch Pipeline PCCP 2024 Urgent Relining ¹³	J.F. Shea Construction, Inc.	\$24,912,000	\$24,282,750	5/30/24	2/25	97%
27	2119	San Diego Canal Rehabilitation – Site 236	Power Engineering Construction Co	\$1,833,650	\$36,673	11/4/24	5/25	2%
Total contract value for active construction contracts:				\$457,183,109				

The following table lists the 18 ongoing procurement contracts at the end of the 2nd Quarter.

Table 11: Active Procurement Contracts at the End of 2nd Quarter

	Cont. No.	Contract	Contractor	Contract Amount ¹⁷	Earnings Through Dec. 2024 ¹⁸	Start Date	Est. Delivery Completion Date	Est. Percent Complete ¹⁹
1	1867	Furnishing Butterfly Valves for the Weymouth Water Treatment Plant – Schedule 1 ²⁰	Crispin Valve, LLC	\$5,066,975	\$3,769,482	12/18/17	7/25	74%
2	1912	Furnishing Large-Diameter Conical Plug Valves	Ebara Corporation	\$23,750,060	\$19,585,112	12/24/18	D ²¹	82%
3	1922	Furnishing One Double Column Vertical Machining Center for the La Verne Maintenance Shops	Gosiger Machine Tools, LLC (Gosiger West)	\$2,319,600	\$2,273,100	9/17/18	D ²¹	99%
4	1955	Furnishing Membrane Filtration Systems for the CRA Domestic Water Treatment Systems	Wigen Water Technologies	\$1,380,556	\$1,238,807	5/28/20	7/25	90%
5	1965	Furnishing Equipment for the Jensen Ozone Power Supply Units Upgrades	Suez Treatment Solutions, Inc.	\$4,141,194	\$3,616,396	3/30/20	D ²¹	87%
6	2002	Furnishing Steel Liner for Lakeview Pipeline ^{15, 22}	Northwest Pipe Company	\$23,565,941	\$7,958,731	12/14/23	5/25	34%
7	2022	Furnishing Butterfly Valves for the Wadsworth Bypass Pipeline, Inland Feeder-Rialto Pipeline Intertie, and Badlands Tunnel Isolation Surge Tanks	Sojitz Machinery Corp. of America	\$5,647,405	\$5,613,918	10/3/22	D ²¹	99%
8	2028	Furnishing Slide Gates for the San Jacinto Diversion Structure ²²	Whipps, Inc.	\$820,853	\$0	12/8/22	6/25	0%

¹⁷ The Contract Amount may differ from the original bid amount due to periodic change orders approved by the General Manager or, if required, by the Board.

¹⁸ Earnings reported in this table are the total contract earnings as they are known to be at the end of the reporting quarter.

¹⁹ Estimated Percent Complete is based on contract payments and may not reflect actual progress of fabrication. The contract will be 100% complete upon delivery of fabricated items and field services.

²⁰ Contract 1867 includes tariff and work on Furnishing Butterfly Valves for the Weymouth Water Treatment Plant – Schedule 1 per extra work directed in the November 2020 Board Letter, Item 7-1.

²¹ All items were delivered prior to this reporting quarter but the contract remains open pending use of manufacturer field services.

²² Granting of additional working days to complete procurement is being considered.

	Cont. No.	Contract	Contractor	Contract Amount ¹⁷	Earnings Through Dec. 2024 ¹⁸	Start Date	Est. Delivery Completion Date	Est. Percent Complete ¹⁹
9	2029	Furnishing Slide Gates for East Lake Skinner Bypass Channel	Whipps, Inc	\$892,552	\$0	4/10/24	11/25	0%
10	2048	Furnishing Butterfly Valves for the Inland Feeder/SBVMWD Foothill Pump Station Intertie - Schedule 1	Sojitz Machinery Corp. of America	\$2,601,437	\$0	6/15/23	7/25	0%
11	2056	Furnishing a Brushless Motor Exciter System for Gene Pumping Plant Unit No. 1	WEG Electric	\$544,501	\$0	5/27/24	6/25	0%
12	2096	Furnishing a 132-inch Butterfly Valve for the Foothill Pump Station Intertie	Vogt Valves, Inc.	\$1,779,174	\$0	6/3/24	6/26	0%
13	2098	Furnishing a 42-Inch Stainless Steel Sleeve Valve for Red Mountain Control Structure	Vogt Valves, Inc.	\$589,957	\$0	12/5/24	9/26	0%
14	2142	Furnishing Construction Materials and Installing Reinforcing Steel at Diemer Plant	Heed Engineering	\$448,000	\$112,470	11/4/24	8/25	25%
15	PO 214904	Furnishing Two Butterfly Valves for the Lake Skinner Outlet Tower Valve Replacement	B&K Valves and Equipment, Inc.	\$1,174,475	\$0	6/13/23	6/25	0%
16	PO 214941	Furnishing Air Release and Vacuum Valves for San Diego Pipeline Nos. 3 and 5 ²²	B&K Valves and Equipment, Inc.	\$1,466,665	\$0	6/13/23	2/25	0%
17	PO 219501	Furnishing of Five Globe Valves to be Installed at Four Pressure Control Structures in the Orange County Region	B&K Valves and Equipment, Inc.	\$698,000	\$0	12/5/23	8/25	0%
18	PO 219516	Furnishing Plug Valves for the Foothill Feeder and Rialto Pipeline ²²	Caasi Flow Control	\$549,592	\$0	2/15/24	2/25	0%
Total contract value for active procurement contracts:				\$77,436,937				

Performance Metrics

To measure project performance efficiency and to identify areas for continuous improvements, Metropolitan’s Engineering Services Group has established two primary performance metrics for projects that will result in construction activities. These metrics serve as performance targets for Metropolitan staff for both final design and inspection activities. The inspection metric includes fabrication and construction inspection, as well as construction management services.

Separate performance targets have been established for two categories of project size: those with projected construction costs greater than \$3 million, and those with projected construction costs less than \$3 million.

Metropolitan’s **performance metric targets** for the two categories of construction projects are listed below:

Project Category	Final Design, % of Construction	Inspection % of Construction
Projects with Construction Costs > \$3 Million	9% to 12%	9% to 12%
Projects with Construction Costs < \$3 Million	9% to 15%	9% to 15%

Prior to proceeding with final design or construction, budgets are established for design and inspection that best provide a quality and timely product. Efforts are made to optimize staff and consultant hours based on project complexity and location. The calculated values for the design and inspection costs, as a percentage of total construction costs, in most cases lie within or below the metric target ranges. In select cases, the calculated values may exceed the metric target ranges.

No projects with construction costs over \$3 million were awarded or completed in the reporting quarter. Once a project phase is complete, either final design or construction, staff’s performance against these metrics is then calculated and compared to the target metrics. Table 12 on the following page summarize the comparison between the target metrics and the actual performance metrics for each project category for the current reporting period. In cases where the actual performance exceeded the target metric, explanations for the variance are provided. Actual performances are reported for the Board awarded construction contract projects.

Table 12: Performance Metric Actuals, Construction Costs < \$3 Million

Project ²³	Metric	Actual Cost of Metric	Construction Cost	Target Range	Actual %
Lake Skinner Dam Drainage System Improvements	Final Design	\$85,397	\$588,000	9% to 15%	14.5%
San Diego Canal Concrete Liner Rehabilitation – Site No. 236	Final Design	\$112,189	\$1,928,650	9% to 15%	5.8%
Gene Communication System Upgrade	Inspection	\$141,343	\$1,363,161	9% to 15%	10.4%
Average	Final Design				7.9%
	Inspection				10.4%

²³ Although an NOC was filed for the Headquarters Building Physical Security Improvements – Stage 3 construction contract, the final contract cost and change order amounts had not yet been finalized due to outstanding pending issues. The actual inspection was determined to be approximately 13.4% of the construction costs using the best information available at the end of the reporting quarter which is within the target range.

Although an NOC was filed for the Weymouth Area Asphalt Pavement Rehabilitation construction contract, the final contract cost and change order amounts had not yet been finalized due to outstanding pending issues. The actual inspection was determined to be approximately 7.9% of the construction costs using the best information available at the end of the reporting quarter which is within the target range.

Service Connections and Relocations

Service Connections

No new agreements for service connections were approved by the General Manager pursuant to Sections 4700-4708 during the reporting period (October through December 2024).

Relocations

No new relocation agreements involving an amount in excess of \$100,000 were approved under the authority of Section 8122(c) during the reporting period.

Projects Expensed to Overhead

There are no expensed projects to report during the 2nd Quarter of FY 2024/25 (October through December 2024).

Program Status

The following table provides the program-level funded amount versus cost-to-date and biennium planned expenditures versus actuals-to-date.

Table 13: Program Fund vs. Cost and Planned Expenditures vs. Actuals

Capital Programs	Total to Date		Biennium to Date	
	Funded Amount (\$1,000's)	Costs thru December 2024 (\$1,000's)	Biennium to Date Planned Expenditures (\$1,000's)	Biennium Actual Expenditures (\$1,000's)
Additional Facilities and Systems	\$333,756	\$299,756	\$10,520	\$10,511
Climate Adaptation	\$262,888	\$231,617	\$5,330	\$10,027
Colorado River Aqueduct	\$607,646	\$524,057	\$27,060	\$26,348
Dams & Reservoirs	\$154,373	\$131,987	\$14,710	\$5,059
Distribution System	\$910,592	\$810,601	\$34,630	\$31,785
Drought Mitigation - SWP Dependent Areas	\$134,144	\$80,623	\$14,470	\$15,223
Information Technology & Control Systems	\$275,458	\$242,165	\$10,240	\$7,832
Minor Capital Projects	\$108,583	\$87,255	\$4,250	\$3,013
Prestressed Concrete Cylinder Pipe	\$535,761	\$446,860	\$5,570	\$48,702
Water Treatment Plants	\$2,526,295	\$2,442,277	\$34,720	\$35,199
Total CIP	\$5,849,497	\$5,297,197	\$161,500	\$193,697

Notes on the above table:

- Numbers may not sum due to rounding.
- Numbers are based on the general ledger information downloaded on 1/15/2025.
- \$0 under Planned Expenditures indicates that while no expenditures are planned during the reporting period, expenditures may be planned during upcoming periods.
- Negative actual expenditures indicate the result of cost transfers, write-offs, or credits greater than actual costs for this biennium through the reporting quarter.

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