# Report

**Engineering Services Group** 

## Capital Investment Plan Quarterly Report for period ending September 2022

### **Summary**

The attached report provides a summary of actions and accomplishments on the Capital Investment Plan (CIP) during the first quarter of fiscal year 2022/23. 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 July to September 2022, the first quarter of fiscal year 2022/23, and the first quarter of the fiscal years 2022/23 and 2023/24 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 requires the General Manager to report on service connections approved by the General Manager with the estimated cost and approximate location of each.

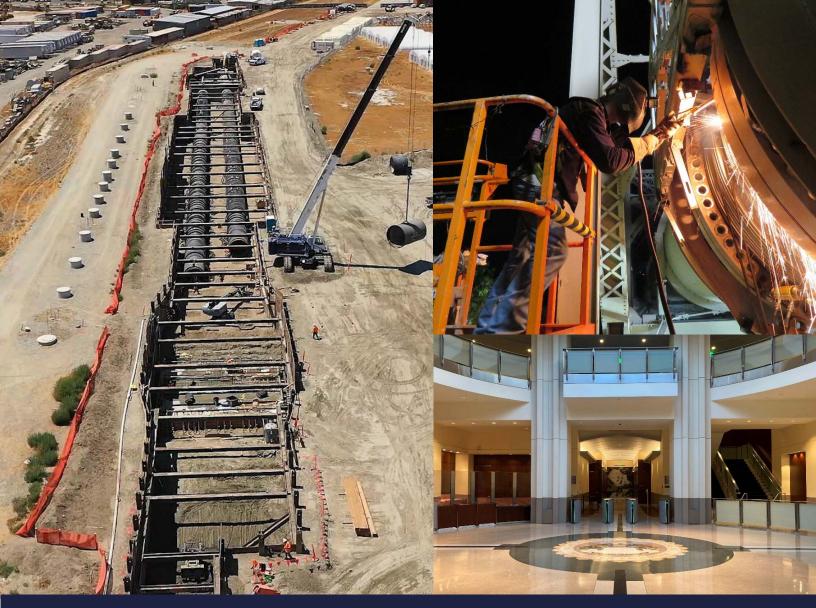
Section 8122(c) of Metropolitan's Administrative Code requires the General Manager to report on the execution of any relocation agreement under the General Manager's authority involving an amount in excess of \$100,000.

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 September 2022

Date of Report: 12/13/2022



The Metropolitan Water District of Southern California

# Capital Investment Plan Quarterly Report



July - September 2022

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# Capital Investment Plan for Fiscal Years 2022/23 & 2023/24

Metropolitan's total planned capital expenditures for Fiscal Years (FYs) 2022/23 and 2023/24 are \$600 million. Figure 1 below shows the planned expenditures by program. In April 2022, the Board appropriated \$600 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 projects identified in the Capital Investment Plan (CIP) for FYs 2022/23 and 2023/24.

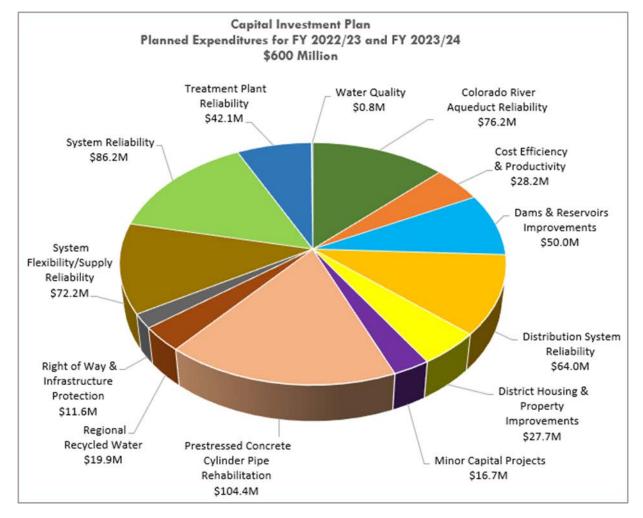


Figure 1: CIP for FY 2022/23 and FY 2023/24 by Program

[Cover Photos: (left to right; top to bottom): Casa Loma Siphon Barrel No. 1 Seismic Upgrade – aerial overview of project site; Upper Feeder Expansion Joint Replacement – removal of existing expansion joint bolts; Metropolitan Headquarters Physical Security Improvements – completed security desk, glass handrail, and turnstiles in rotunda]

# **Executive Summary**

This report provides a summary of the Capital Investment Plan (CIP) activities and accomplishments during the 1st Quarter of Fiscal Year (FY) 2022/23, which ended in September 2022. CIP expenditures through the 1st Quarter totaled \$30.4 million and the expenditures are projected to be slightly above the planned expenditures at the end of the biennium. The CIP funds allocated during the quarter totaled \$469.9 million, leaving approximately \$130.1 million available to be allocated during the remainder of the current biennium. Approximately \$410 million of the \$469.9 million was for work, such as on-going construction projects, authorized in the prior biennium.

During the quarter, twelve project-specific board actions were heard in open sessions including an action to amend the CIP to include Upper Feeder Expansion Joint Replacement and to continue the emergency action of executing a no-bid contract for the installation of a new expansion joint on the Upper Feeder. Also, three actions on drought mitigation-related projects, which will improve water deliveries that depend on State Water Project supplies, were presented to the Board.

Two construction contracts and one procurement contract were awarded by the Board during the reporting period with a total contract amount of approximately \$31.9 million. During the same time, five construction contracts and one procurement contract were completed with a total of approximately \$22.6 million in contract payments authorized, reflecting construction progress on projects such as Casa Loma Siphon Barrel No. 1 Seismic Upgrade, CRA Pumping Plants Overhead Crane Replacement, Lake Mathews PCCP Rehabilitation Valve Storage Building, Second Lower PCCP Rehabilitation – Reach 3A, HQ Building Fire Alarm & Smoke Control Improvements, and Weymouth Basins 5-8 & Filter Building No. 2 Rehabilitation.

# **Board Action Summary**

During the 1st Quarter, board actions heard in open session included twelve project-specific actions summarized in Table 1 below. These actions awarded three contracts totaling approximately \$31.9 million, authorized six new professional/technical services agreements totaling a not-to-exceed amount of approximately \$11.0 million, and authorized an increase to three existing agreements totaling a not-to-exceed amount of approximately \$15.7 million. Information on the awarded contracts can be found in Table 8 of this report. The table below excludes information on board items heard in closed session.

Table 1: 1st Quarter Board Actions

| Month  | Board Letter<br>Item No. | Project  | Action taken  |
|--------|--------------------------|--|---|
| July   | 7-1                      | Upper Feeder Expansion Joint<br>Replacement          | Authorized an unplanned project and determined the need to continue emergency action of executing a no-bid contract |
| July   | 7-2                      | Etiwanda Pipeline Lining Rehabilitation -<br>Stage 3 | Awarded \$25,972,700 construction contract  |
| July   | 7-3                      | Jensen Plant Site Security Upgrades                  | Authorized an agreement not-to-exceed \$700,000   |
| August | 7-2                      | Upper Feeder Expansion Joint<br>Replacement          | Determined the need to continue the emergency action of executing a no-bid contract                                 |

| Month     | Board Letter<br>Item No. | Project   | Action taken   |
|-----------|--------------------------|---|--|
| August    | 7-3                      | Electromagnetic Pipeline Inspections and<br>Assessments; Calabasas Feeder PCCP<br>Rehabilitation; Sepulveda Feeder North<br>Reach | Authorized two agreements not-to-<br>exceed \$7,000,000 and \$900,000 and<br>authorized an increase of \$6,000,000 to<br>an existing agreement |
| August    | 7-4                      | Inland Feeder/SBVMWD Foothill Pump<br>Station Intertie  | Authorized an agreement not-to-exceed \$1,300,000  |
| August    | 7-5                      | Rialto Pipeline Water Supply<br>Improvements  | Awarded \$5,647,405 procurement contract   |
| September | 7-1                      | Upper Feeder Expansion Joint<br>Replacement   | Determined the need to continue the emergency action of executing a no-bid contract  |
| September | 7-2                      | Weymouth Administration Building<br>Upgrades  | Authorized an increase of \$1,200,000 to an existing agreement and authorized an agreement not-to-exceed \$450,000                             |
| September | 7-3                      | Mills Maintenance Building Roof<br>Replacement  | Awarded \$287,824 construction contract  |
| September | 7-4                      | Sepulveda Feeder Pump Stations  | Authorized an increase of \$690,000 to an existing agreement   |
| September | 7-11                     | District Housing and Property<br>Improvements Program   | Authorized an increase of \$8,500,000 to an existing agreement   |

The previously referenced April 2022 board action appropriated \$600 million to perform work on planned capital projects through the current biennium. In order to be considered a planned project, the project must be identified and described in the Capital Investment Plan Appendix for the two-year budget cycle. Consistent with this action, all requests to allocate funds and proceed with planned capital projects are reviewed and approved by the Chief Engineer acting under the General Manager's authority. Unplanned projects, those which are not already identified in the CIP Appendix, require a separate board authorization. During the 1st Quarter, the board amended the CIP to include a new emergency capital project which addressed a leak that was discovered on the Upper Feeder.

Figure 2 shows the allocation of the funds from Appropriation No. 15525 for this quarter and total for the current biennium through the quarter, which is approximately \$469.9 million, leaving approximately \$130.1 million available to be allocated during the remainder of the current biennium. This amount includes allocation of \$10 million to the Minor Capital Projects Program, approximately \$49.9 million for work authorized during the 1st Quarter, and approximately \$410 million in previously authorized work from the prior biennium that is to be completed in the current biennium. Details of the allocations for work authorized during the reporting quarter and from the prior biennium can be found in the **Project Actions** section.

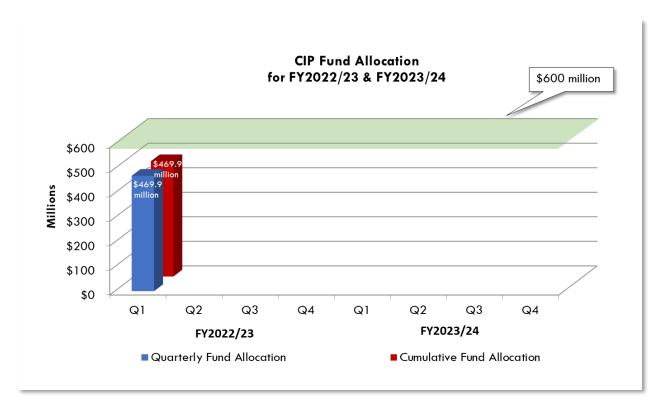


Figure 2: CIP Fund Allocation from Appropriation No. 15525 - FY 2022/23 and FY 2023/24

Information on construction and procurement contracts activities for the 1st Quarter of FY 2022/23 is presented in the **Construction and Procurement Contracts** section of this report. Progress payments for these contracts in the 1st Quarter totaled approximately \$22.6 million and primarily reflect construction progress on Colorado River Aqueduct Pumping Plants Overhead Crane Replacement, Colorado River Aqueduct Replacement of Casa Loma Siphon Barrel No. 1, CRA Pumping Plants Sump Rehabilitation, Lake Mathews PCCP Rehabilitation Valve Storage Building, MWD HQ Building Fire Alarm & Smoke Control Improvements, Second Lower Feeder PCCP Rehabilitation – Reach 3A, and Weymouth Basins 5-8 & Filter Building No. 2 Rehabilitation.

<sup>\*</sup>Numbers may not sum due to rounding

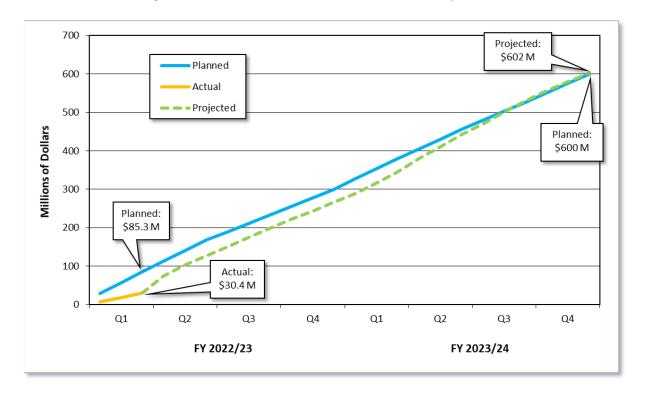
# Planned Expenditure and Budget

Table 2 and Figure 3 below show planned and actual expenditures for the biennium through the end of the 1<sup>st</sup> Quarter of FY 2022/23, and the forecast of expenditures through the end of the current biennium, against planned expenditures for the same time interval. Actual expenditures through the 1<sup>st</sup> Quarter of FY 2022/23 were approximately 36% of planned expenditures.

QuarterPlanned Expenditures<br/>(millions)Actual Expenditures<br/>(millions)FY 2022/23, Q1\$85.3\$30.4Totals\$85.3\$30.4

Table 2: Planned & Actual Expenditures for FYs 2022/23 & 2023/24





As shown in Figure 3, the total planned expenditures in the current biennium are \$600 million. The projected expenditures for the biennium are currently approximately \$602 million with the actual expenditures lower than the planned expenditures during the 1<sup>st</sup> Quarter of FY 2022/23. However, actual expenditures are projected to be slightly above the planned expenditures at the end of the biennium. This negative variance below the planned expenditures in this quarter is mainly due to concerted effort during the last quarter to accelerate the work that was planned for the 1<sup>st</sup> Quarter of FY 2022/23, including the work on the drought projects.

# Major Capital Programs Overview

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

- Program
- Project Group/Appropriation
- Project

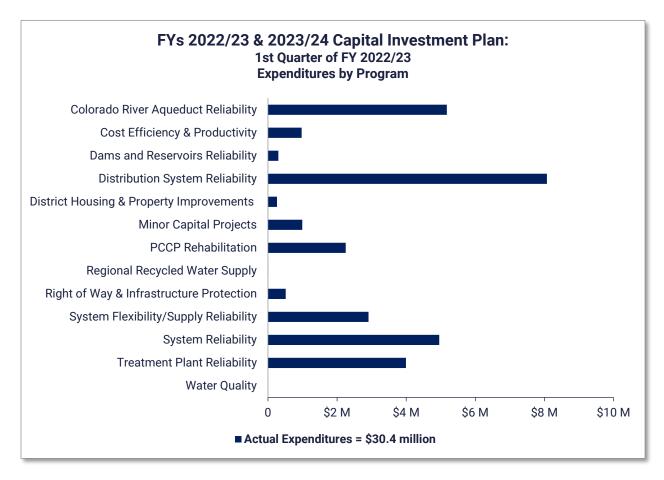
Metropolitan's CIP is comprised of 13 programs, which capture all projects within the CIP. The 13 capital programs are listed below in alphabetical order. Programs are comprised of one or more project groups/appropriations, and project group/appropriations are comprised of one or more projects. The status of each of the programs is provided later in this section of the report.

- Colorado River Aqueduct (CRA) Reliability
- Cost Efficiency & Productivity
- Dams & Reservoirs Improvements
- Distribution System Reliability
- District Housing & Property Improvements
- Minor Capital Projects
- Prestressed Concrete Cylinder Pipe (PCCP) Rehabilitation
- Regional Recycled Water Supply
- · Right-of-Way and Infrastructure Protection
- System Flexibility/Supply Reliability
- System Reliability
- · Treatment Plant Reliability
- Water Quality

For the current biennium, the CIP includes over 37 project groups, 60 planned appropriations, and 447 planned projects (excluding Minor Capital Projects). The list of appropriations that make up each of the programs, along with planned expenditures and actual costs to date for those appropriations, are provided in Table 15 at the end of this report.

Figure 4 below shows actual expenditures for the 13 capital programs for 1st Quarter of FY 2022/23.

Figure 4: Biennium-to-date Actual Expenditures through 1st Quarter FY 2022/23



# Major Capital Project Programs - Highlights

The section that follows provides 1<sup>st</sup> Quarter highlights for the 12 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 1<sup>st</sup> Quarter of FY 2022/23 or are scheduled to achieve major milestones in the next quarter.

Table 3: Major Capital Projects Programs

| Program  | Project  |
|--|--|
| Colorado River Aqueduct (CRA) Reliability                | CRA Pumping Plant Overhead Cranes Replacement      |
| Cost Efficiency & Productivity                           | Battery Energy Storage System                      |
| Dams and Reservoirs Improvements                         | Garvey Reservoir Rehabilitation                    |
| Distribution System Reliability                          | Casa Loma Siphon Barrel No. 1 Seismic Upgrade      |
| District Housing & Property Improvements                 | Program highlights only                            |
| Prestressed Concrete Cylinder Pipe (PCCP) Rehabilitation | Second Lower Feeder PCCP Rehabilitation – Reach 3B |
| Regional Recycled Water Supply                           | Program highlights only                            |
| Right-of-Way & Infrastructure Protection                 | Program highlights only                            |
| System Flexibility/Supply Reliability                    | Perris Valley Pipeline – Tunnels                   |
| System Reliability                                       | La Verne Shops Building Completion – Stage 5       |
| Treatment Plant Reliability                              | Mills Electrical Upgrades – Stage 2                |
| Water Quality  | Program highlights only                            |

# Colorado River Aqueduct (CRA) Reliability Program

Actual Biennium Expenditures (Jul. 2022 through Sep. 2022) \$5.18 million

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

### **Program Highlights (1st Quarter)**

### **Accomplishments**

- Continued construction activities for the following contracts:
  - CRA Domestic Water Treatment System Upgrades at all five pumping plants
    - i) Initiated installation of electrical conduits and pull boxes at Intake Pumping Plant.
    - ii) Initiated and completed excavation for the above-ground conduit support pedestals at Intake and Iron Mountain pumping plants
    - iii) Continued submittals for the water treatment equipment procurement with expected deliveries in two shipments, in late 2022 and early 2024, to coincide with the Domestic Water Treatment System Upgrades construction schedule
  - CRA Mile 12 Flow Meter Upgrades
    - i) Continued installation of above ground electrical conduits and junction boxes
    - ii) Continued installation of security system, solar panel array equipment, and control panels
  - CRA Pumping Plants Overhead Cranes Replacement
    - iv) Completed fabrication of the crane assembly and delivered it to Gene Pumping Plant
    - v) Initiated installation of the crane assembly at Gene Pumping Plant
    - vi) Initiated fabrication of the crane assembly for Eagle Mountain Pumping Plant
  - Gene Wash Reservoir Discharge Valve Structure Rehabilitation
    - vii) All work completed. Contractor has de-mobilized.
- CRA Pumping Plant Sump System Rehabilitation
  - Under Metropolitan's response to COVID-19, suspended on-site construction and continued submittals and fabrication activities
  - Received pump deliveries for Gene Pumping Plants
  - Continued fabrication of remaining pumps, piping, and other materials to be furnished for Hinds
     Pumping Plant
- CRA Pumping Plant Sump System Equipment Installation
  - Continued final design
- CRA 6.9 kV Power Cable Replacement
  - Continued to evaluate and establish the course of action and construction repackaging options of the remaining outstanding contract work items
- CRA Storage Building Replacement at Hinds, Eagle Mountain, and Iron Mountain
  - o Completed Value Engineering workshop to optimize cost savings
- Continued final design of:
  - o CRA Conduits Structural Protection upgrades
  - Gene Communication Reliability Upgrades
  - o Copper Basin Reservoir Discharge Valve Structure Rehabilitation
- Continued preliminary design of:
  - o Black Metal Mountain 2.4 kV Electrical Power Upgrades
  - CRA Desert Region Security Improvements
  - Hinds Pumping Plant Discharge Valve Platform Replacement

- CRA Main Transformer Replacement
  - Completed Risk Assessment and Value Engineering workshops
  - Continued preliminary design and preparation of procurement package
- CRA Main Pump Motor Rehabilitation
  - o Continued the study to install variable frequency drive pumps at Gene and Intake Pumping Plants
  - Continued preparation of procurement package for the pilot exciter system installation at Gene Pumping Plant
- CRA Pumping Plant Village Utility Replacement
  - Continued final design of Hinds, Eagle Mountain, Iron Mountain and Gene Pumping Plants
- Hinds and Eagle Mountain Pumping Plants Village Paving Replacement
  - Initiated final design

### **Upcoming Activities**

- Continue construction activities planned for the following contracts:
  - o CRA Domestic Water Treatment System Upgrades at all five CRA pumping plants
  - CRA Mile 12 Flow Meter Upgrades
  - o CRA Pumping Plants Overhead Crane Replacement
- CRA Pumping Plant Sump System Rehabilitation
  - o Continue fabrication activities and receive final equipment deliveries for Hinds Pumping Plants
- Continue final design of:
  - o CRA Conduits Structural Protection Upgrades
  - o Gene Communication Reliability Upgrades
  - o Copper Basin Reservoir Discharge Valve Structure Rehabilitation
- Continue preliminary design of:
  - Black Metal Mountain 2.4 kV Electrical Power Upgrades
  - o CRA Desert Region Security Improvements
  - o Hinds Pumping Plant Discharge Valve Platform Replacement
- CRA Main Transformer Replacement
  - o Continue preliminary design and preparation of a procurement package
- CRA Main Pump Motor Rehabilitation
  - Complete the study to install variable frequency drive pumps at Gene and Intake Pumping Plants
  - o Continue design of recirculation line up to the connection point at Eagle Mountain Pumping Plant
  - Continue preparation of a procurement package for the pilot exciter system installation at Gene Pumping Plant
- CRA Pumping Plants 2.3 kV Switchrack Rehabilitation
  - Continue study for four CRA pumping plants
  - o Continue preliminary design of a pilot project at Iron Mountain Pumping Plant
- CRA Storage Building Replacement at Hinds, Eagle Mountain, and Iron Mountain
  - Initiate final design to incorporate Value Engineering recommendations to the construction bid package
- CRA Conveyance System Flow Level Sensor Installation
  - o Initiate final design

# CRA Reliability Program: CRA Pumping Plants Overhead Cranes Replacement

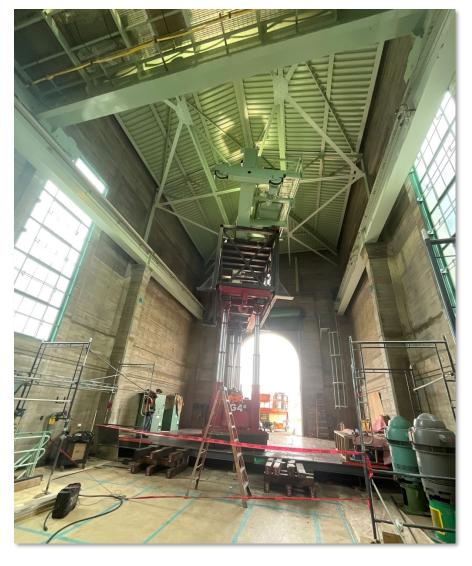
**Total Project Estimate:** \$20.4 million

**Total Project Cost to Date:** \$4.3 million

This project replaces the overhead bridge crane at all five pumping plants. It also makes improvements to the electrical system, abates hazardous materials, and performs seismic retrofit of the below-grade pump bays.

| Phase                                  | Construction   |
|--|----------------|
| % Complete for Construction            | 22%            |
| Construction Contract Awarded          | September 2020 |
| Estimated Construction Completion Date | September 2023 |
| Contract Number                        | 1946           |

The contractor mobilized, removed existing cranes, installed new cranes, and began operational testing at Gene Pumping Plant. In the upcoming quarter, the contractor plans to complete the operational testing at Gene Pumping Plant and mobilize at Eagle Mountain Pumping Plant.



Contractor installing new crane girder at Gene Pumping Plant

### Cost Efficiency and Productivity Program

Actual Biennium Expenditures (Jul. 2022 through Sep. 2022) \$0.98 million

Program Information: The Cost Efficiency and Productivity Program is composed of projects to upgrade, replace, or provide new facilities, software applications, or technology, which will provide economic savings that outweigh project costs through enhanced business and operating processes.

### **Program Highlights (1st Quarter)**

### **Accomplishments**

- Payroll-Timekeeping Reimplementation
  - o Advertised a request for proposal (RFP)

### **Upcoming Activities**

- Battery Energy Storage Systems at Jensen, Weymouth, and Skinner Plants
  - o Continue construction
- WINS Water Billing System Upgrade
  - o Continue system upgrade
- Real Property Group Business System Replacement
  - Continue system replacement
- Enterprise Content Management Phase II
  - o Advertise an RFP
- Payroll-Timekeeping Reimplementation
  - o Authorize an agreement to begin design

# Cost Efficiency & Productivity Program: Battery Energy Storage Systems

**Total Project Estimate:** \$27.0 million

**Total Project Cost to Date:** \$6.7 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 of Jensen and Skinner                     | 35%                         |
| % Complete for Construction of Weymouth                               | 3%                          |
| Contract Awarded for Jensen and Skinner Contract Awarded for Weymouth | September 2021<br>June 2022 |
| Estimated Construction Completion Date for Jensen and Skinner         | November 2024               |
| Estimated Construction Completion Date for Weymouth                   | July 2023                   |
| Contract Number for Jensen and Skinner                                | 1998                        |
| Contract Number for Weymouth  | 2014                        |

Submittal review continued, construction of the fire access road at the Skinner plant continued, and construction of the equipment pads began for the Jensen and Skinner plants. A Notice to Proceed (NTP) was issued to the contractor for Weymouth plant and submittal review began. In the upcoming quarter, the contractor will continue construction of the fire access road at the Skinner plant, continue construction of the equipment pads at the Jensen and Skinner plants, and begin construction of electrical conduits at the Jensen and Skinner plant. At the Weymouth plant, the contractor will mobilize and submittal review will continue.



Contractor excavating equipment pad area at the Jensen plant

### Dams and Reservoirs Improvements Program

Actual Biennium Expenditures (July 2022 through Sep. 2022) \$0.30 million

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

### Program Highlights (1st Quarter)

### **Accomplishments**

- Diamond Valley Lake Dam Monitoring System Upgrades
  - Completed evaluation of RFQ submittals for dam monitoring systems upgrades and identified qualified consultants to support the implementation of the upgrades
- Garvey Reservoir Rehabilitation
  - Completed Value Engineering study to support the preliminary design of the reservoir rehabilitation project
  - Completed evaluation of RFQ submittals for dam monitoring systems upgrades and identified qualified consultants to support the implementation of the upgrades
- Lake Mathews and Lake Skinner Dam Monitoring System Upgrades
  - Completed evaluation of RFQ submittals for dam safety engineering services and identified qualified consultants to complete preliminary and final design
- Lake Skinner Outlet Tower Seismic Upgrade
  - Evaluated the structural analysis approach and methodologies proposed by the consultant to perform detailed structural analysis of the outlet tower

### **Upcoming Activities**

- Diamond Valley Lake Dam Monitoring System Upgrades
  - Establish an agreement with the selected consultant to support implementation of dam monitoring system upgrades
- · Garvey Reservoir Rehabilitation
  - o Continue preliminary design of the comprehensive reservoir rehabilitation project
  - Establish an agreement with the selected consultant to support implementation of dam monitoring system upgrades
- Lake Mathews and Lake Skinner Dam Monitoring System Upgrades
  - Establish on-call agreements for dam safety services with qualified consultants and initiate task orders for the preliminary design
- Lake Skinner Outlet Tower Seismic Upgrade
  - Establish project specific agreement with the selected consultant to perform the detailed structural analysis of the outlet tower

# Dams and Reservoirs Improvements Program: Garvey Reservoir Rehabilitation

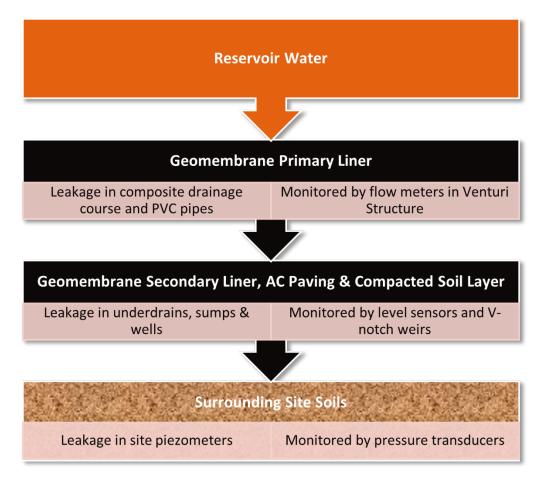
**Total Project Estimate:** \$68.5 million

**Total Project Cost to Date:** \$2.1 million

This project will refurbish aging facilities at the Garvey Reservoir site and restore them to reliable operating condition.

| Phase  | Preliminary Design |
|--|--------------------|
| % Complete for Current Phase                 | 65%                |
| Current Phase Authorized                     | March 2021         |
| Estimated Preliminary Design Completion Date | February 2023      |

Metropolitan staff and the design consultant worked on developing the preliminary design report and a value engineering (VE) workshop was completed. A scope for the of the dam monitoring system upgrade was developed and a prequalified consultant was selected for design. In the upcoming quarter, the preliminary design report will be updated with VE recommendations.



Proposed reservoir liner system design for Garvey Reservoir

### Distribution System Reliability Program

Actual Biennium Expenditures (Jul. 2022 through Sep. 2022) \$8.07 million

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

### **Program Highlights (1st Quarter)**

### **Accomplishments**

- Awarded construction contracts for:
  - Etiwanda Pipeline Lining Rehabilitation Stage 3
  - o Live Oak Reservoir Pipelines Cathodic Protection
- Upper Feeder Expansion Joint Replacement at the Santa Ana River Crossing
  - Completed design, fabrication, and installation during a shutdown of the Upper Feeder. The shutdown was completed ahead of schedule.
- Garvey Reservoir Drainage and Erosion Improvements Areas 6 to 8, 10, and 11
  - o Completed construction

### **Upcoming Activities**

- Upper Feeder Expansion Joint Replacement at the Santa Ana River Crossing
  - o Ratify an emergency contract for construction
- Garvey Reservoir Sodium Hypochlorite Feed System Upgrades
  - o Complete testing of the upgraded system
- Casa Loma Siphon No. 1 Seismic Upgrade
  - Continue construction

# Distribution System Reliability Program: Casa Loma Siphon Barrel No. 1 Seismic Upgrades

**Total Project Estimate:** \$37.2 million

Total Project Cost to Date: \$28.6 million

This project will retrofit the Casa Loma Siphon Barrel No. 1 with earthquake resistant ductile iron pipe (ERDIP) for the estimated Casa Loma Fault seismic displacement, and non-tectonic ground subsidence.

| Phase                                  | Construction  |
|--|---------------|
| % Complete for Construction            | 65%           |
| Contract Awarded                       | December 2021 |
| Estimated Construction Completion Date | June 2023     |
| Contract Number                        | 1958          |

Construction of the north and south barrel of ERDIP was completed and geofoam was installed. In the upcoming quarter, an ERDIP joints pressure testing and ERDIP zone backfill will be completed. Steel pipe installation will continue.



ERDIP to steel pipe transition thrust block construction with concrete temperature control system

# District Housing & Property Improvements Program

Actual Biennium Expenditures (Jul. 2022 through Sep. 2022) \$0.26 million

Program Information: The District Housing & Property Improvements Program is composed of projects to refurbish or upgrade workforce housing at Metropolitan to enhance living conditions to attract and retain skilled employees.

### Program Highlights (1st Quarter)

### **Accomplishments**

 Completed a board action to amend an existing consulting services agreement to perform final design of the housing, village enhancements, and the kitchen and lodging improvements at four pumping plants – Hinds, Eagle Mountain, Iron Mountain, and Gene Pumping Plants

### **Upcoming Activities**

- Continue preparation of the environmental documentation in support of the housing and property improvements program
- Initiate an amendment to an existing consulting services agreement to perform final design of the housing, village enhancements, and the kitchen and lodging improvements at four pumping plants – Hinds, Eagle Mountain, Iron Mountain and Gene Pumping Plants
- Initiate final design of the housing, village enhancements, and the kitchen and lodging improvements at Hinds and Eagle Mountain Pumping Plants

# Prestressed Concrete Cylinder Pipe (PCCP) Rehabilitation Program

Actual Biennium Expenditures (Jul. 2022 through Sep. 2022) \$2.25 million

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

### **Program Highlights (1st Quarter)**

### **Accomplishments**

- Second Lower Feeder:
  - Reach 3A Approved contractor submittals and initiated materials procurement for construction, which will reline approximately 1.2 miles of pipeline from Oak Street Pressure Control Structure south through City of Rolling Hills Estates to the Palos Verdes Reservoir
  - Reach 3B Completed design and advertised construction specifications, which will reline approximately 3.6 miles of pipeline from the intertie with Sepulveda Feeder south to Oak Street PCS, through the cities of Torrance, Los Angeles, and Lomita, and will replace three 48-inch diameter sectionalizing valves at the intertie with Sepulveda Feeder
  - Isolation Valve Procurement Continued fabrication of the sixth through tenth of the thirteen largediameter conical plug valves and actuators. Worked with the manufacturer to schedule the shipment of completed valves until PCCP Rehabilitation Valve and Equipment Storage Building is completed.
- Allen-McColloch Pipeline:
  - Continued preliminary design for rehabilitation, including identification of proposed pipe access excavation pits for approximately nine miles of PCCP
  - Continued evaluating a member agency partnership proposal that may facilitate rehabilitation work
- Sepulveda Feeder Reach 1 Continued final design to rehabilitate approximately three miles of Sepulveda
  Feeder 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. Work includes preparation of final
  design drawings, traffic control plans, and permitting.
- Sepulveda Feeder Reach 2 Continued final design to rehabilitate approximately 3.8 miles of Sepulveda
  Feeder from the Dominguez Gap Channel crossing south to the intertie with Second Lower Feeder, through
  the cities of Torrance and Los Angeles. Work includes preparation of final design drawings, traffic control
  plans, and permitting.
- Sepulveda Feeder North Reach Obtained board authorization to amend an existing engineering services
  agreement to conduct a detailed evaluation and to complete preliminary design for the northern 20-mile
  portion of the Sepulveda Feeder, including both steel and PCCP portions of the pipe and appurtenances.
- PCCP Rehabilitation Valve and Equipment Storage Building Began construction of concrete foundation and fabrication of the pre-engineered metal building for a new valve storage building at Lake Mathews. This building will safely store large-diameter valves and actuators to support the PCCP Rehabilitation Program.
- Calabasas Feeder Received board authorization for an engineering services agreement to complete preliminary design work the relining of the entire approximately nine-mile-long Calabasas Feeder PCCP line.

### **Upcoming Activities**

- Second Lower Feeder:
  - Reach 3A Begin installation of temporary traffic controls and pipe access shaft excavations
  - o Reach 3B Open bids and prepare a board letter to award a construction contract
  - o Isolation Valve Procurement Receive delivery of two 54-inch conical plug valves in November 2022.
- Allen-McColloch Pipeline Complete preliminary design
- Sepulveda Feeder South Reaches 1 and 2 Continue developing final designs and initiate permitting process for long-lead permits from Caltrans, City of Los Angeles, and City of Torrance
- Sepulveda Feeder North Reach Initiate preliminary design
- PCCP Rehabilitation Valve and Equipment Storage Building Complete storage building foundations and site work including drainage improvements and utilities
- Calabasas Feeder Continue preliminary design

# PCCP Rehabilitation Program: Second Lower Feeder PCCP Rehabilitation – Reach 3B

**Reach 3B Total Project Estimate:** \$68.0 million

Reach 3B Total Project Cost to

Date:
\$13.7 million

This project will rehabilitate approximately 3.6 miles of PCCP segments of the Second Lower Feeder with steel liner and replace three existing large diameter sectionalizing valves within the cities of Torrance, Los Angeles, and Lomita.

| Phase                        | Final Design   |
|------------------------------|----------------|
| % Complete for Current Phase | 99%            |
| Current Phase Authorized     | January 2015   |
| Final Design Completion Date | September 2022 |

Rach 3B construction bid package was completed and advertised. In the upcoming quarter, a board letter to award a construction contract will be prepared.



Second Lower Feeder Reach 3B project location – in the cities of Torrance, Los Angeles, and Lomita

### Regional Recycled Water Program

Actual Biennium Expenditures (Jul. 2022 through Sep. 2022) \$0.03 million

Program Information: The Regional Recycled Water Program includes the design and construction of the Advanced Water Treatment (AWT) Demonstration Plant, which represents the initial step in development of a potential regional recycled water system for recharge of groundwater basins within Southern California.

### **Program Highlights (1st Quarter)**

### **Accomplishments**

- Advanced Water Treatment Demonstration Facility
  - Obtained approval from the Division of Drinking Water (DDW) for the secondary membrane bioreactor (MBR) testing and monitoring plan
  - Obtained Southern California Air Quality Management District (SCAQMD) permit to operate the demonstration facility with a capacity of up to 1 million gallons per day (MGD)
  - Replaced MBR and reverse osmosis (RO) membranes and installed additional system/site improvements to prepare for secondary MBR testing
  - Coordinated with the independent scientific advisory panel to review Phase 1 draft testing report
- Direct Potable Reuse Demonstration Facility
  - Continued study and developed draft technical memoranda to identify potential studies for testing future direct potable reuse (DPR) processes

### **Upcoming Activities**

- Advanced Water Treatment Demonstration Facility
  - Continue coordination with the State Water Resources Control Board to submit final reimbursement invoice as part of the grant funding agreement
  - o Finalize Phase 1 testing report
  - Continue post-construction contract improvements to enhance safety and operational reliability of the AWT
  - o Initiate secondary MBR testing
- Direct Potable Reuse Demonstration Facility
  - Continue study and prepare framework to modify the AWT Demonstration Facility to allow testing of future direct potable reuse processes

# Right-Of-Way and Infrastructure Protection Program

Actual Biennium Expenditures (Jul. 2022 through Sep. 2022) \$0.51 million

Program Information: The Right of Way Infrastructure Protection Program (RWIPP) is comprised of projects to refurbish or upgrade above-ground facilities and right-of-way along Metropolitan's pipelines in order to address access limitations, erosion-related issues, and security needs.

### **Program Highlights (1st Quarter)**

### **Accomplishments**

- Western San Bernardino County Stage 1
  - o Continued construction

### **Upcoming Activities**

- Western San Bernardino County Region Stage 2
  - o Continue final design
- Riverside and San Diego County Region Stage 2
  - Continue final design for two urgent repair sites along San Diego Pipelines 4 & 5

### System Flexibility/Supply Reliability Program

Actual Biennium Expenditures (Jul. 2022 through Sep. 2022) \$2.91 million

**Program Information:** The System Flexibility / Supply Reliability Program is comprised of projects to increase the capacity and flexibility of Metropolitan's water supply and delivery infrastructure to meet service demands. Projects under this program address climate change affecting water supply, regional drought, and alternative water sources for areas dependent on State Project Water.

### **Program Highlights (1st Quarter)**

### **Accomplishments**

- Secured passage of legislation to allow Metropolitan to utilize progressive design-build delivery for drought related projects
- Completed evaluation of the West Service Area Supply Reliability Improvements consisting of the following individual projects:
  - West Area Supply and Delivery Alternatives
  - Drought Response West Side Pump Station
- Rialto Pipeline Water Supply Reliability Improvements
  - Awarded a contract to procure large diameter isolation valves
- Sepulveda Feeder Pump Stations
  - Authorized increase of an existing agreement for an owner's advisor services to assist with the preparation of a progressive design-build contract
- Wadsworth Pumping Plant Eastside Pipeline Intertie
  - Completed final design and advertised

### **Upcoming Activities**

- Perris Valley Pipeline Tunnels
  - Open bids to award a construction contract Q3 of FY 2022/23
- Wadsworth Pumping Plant Eastside Pipeline Intertie
  - Award a construction contract
- Rialto Pipeline Water Supply Reliability Improvements
  - Continue design of the following individual projects that make up the improvements effort:
    - Wadsworth Pumping Plant Eastside Pipeline Intertie
    - Wadsworth Pumping Plant Stage 2 Badlands Tunnel Surge Tank Facility
    - Inland Feeder/Rialto Pipeline Intertie
    - Inland Feeder/San Bernardino Valley Municipal Water District (SBVMWD) Pump Station Intertie

# System Flexibility/Supply Reliability Program: Perris Valley Pipeline – Tunnels

**Total Project Estimate:** \$79.3 million

**Total Project Cost to Date:** \$7.1 million

This project will connect northern and southern reaches of Perris Valley Pipeline by micro-tunneling and 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                        | Final Design |
|------------------------------|--------------|
| % Complete for Current Phase | 100%         |
| Current Phase Authorized     | January 2010 |
| Final Design Completion Date | June 2022    |

The construction bid package was advertised and a mandatory pre-bid meeting was conducted. Negotiations continued with March Joint Powers Authority and Caltrans to obtain the necessary easements and permits prior to the start of construction. In the upcoming quarter, bids for the construction bid package is scheduled to be opened for award during the following quarter.



Example of micro-tunneling technology that will be used for the Perris Valley Pipeline - Tunnels project

### System Reliability Program

Actual Biennium Expenditures (Jul. 2022 through Sep. 2022) \$81.30 million

Program Information: The System Reliability Program is comprised of projects to improve or modify facilities located throughout Metropolitan's service area in order to utilize new processes and/or technologies, and improve facility safety and overall reliability. These include projects related to Metropolitan's Supervisory Control and Data Acquisition (SCADA) system and other Information Technology projects.

### **Program Highlights (1st Quarter)**

### **Accomplishments**

- Asset Management and Monitoring System
  - o Released pre-production revenue meter dashboard
- Datacenter Backup Infrastructure Upgrade
  - Advertised request for proposal (RFP)
- Desert Microwave Site Tower Upgrades
  - Continued preparation of design
- Fuel Management System Upgrade
  - Installed fuel management units at ten facilities along with corresponding equipment to facilitate fueling in several hundred vehicles
- Headquarters Fire Alarm & Smoke Control Upgrades
  - o Completed fire alarm system portion of the upgrade work
- Skinner Facility Area Paving
  - o Completed construction

### **Upcoming Activities**

- Applications-Servers Upgrade
  - Continue to migrate and upgrade applications in batches
- Control System Upgrade Phase 3
  - Begin pilot project at Mills Water Treatment Plant
- Headquarters Fire Alarm & Smoke Control Upgrades
  - o Begin work on the smoke control portion of the project
- Headquarters Security Upgrade Stage 2
  - Continue installation of new interior building security features
- Maximo Mobile Upgrade
  - o Continue deployment of devices to field staff
- MWD Cyber Security Upgrade
  - o Continue deployment of secure web gateway software to MWD-owned workstations and laptops
  - Continue deployment of privileged access management software to MWD-owned workstations, laptops, and servers

## System Reliability Program: La Verne Shops Building Completion - Stage 5

**Total Project Estimate:** \$27.9 million

**Total Project Cost to Date:** \$4.4 million

This project will procure and install new fabrication and machine shop equipment, including a hydraulic shear, hydraulic press brake, waterjet cutting system, horizontal band saw, and vertical milling center and complete building and utility improvements for several shop buildings on the grounds of the Weymouth plant.

| Phase                                  | Construction |
|--|--------------|
| % Complete for Current Phase           | 6%           |
| Construction Contract Awarded          | May 2022     |
| Estimated Construction Completion Date | May 2024     |
| Contract Number                        | 1885         |

The contractor mobilized and prepared submittals for review. Construction of temporary protective containment walls for machine shop equipment began. These walls will protect the machines during construction. In the upcoming quarter, the contractor will complete the containment walls and begin refurbishing machine shop walls.



Construction of containment wall structure for vertical machine area

### Treatment Plant Reliability Program

Actual Biennium Expenditures (Jul. 2022 through Sep. 2022) \$89.26 million

Program Information: The Treatment Plant Reliability Program is comprised of projects to replace or refurbish facilities and components of Metropolitan's five water treatment plants in order to continue to reliably meet treated water demands.

### **Program Highlights (1st Quarter)**

### **Accomplishments**

- Continued preliminary design of:
  - o Diemer Filter Rehabilitation
  - Jensen Reservoir Bypass Gate Replacement
  - Water Quality Laboratory Upgrades
- Continued construction of:
  - o Jensen Ozone PSU Replacement Stage 1
  - Mills Electrical Upgrades Stage 2
  - o Mills Module Nos. 3 and 4 Flash Mix Chemical Containment Upgrades
  - o Weymouth Basins Nos. 5-8 & Filter Building No. 2 Rehabilitation
- Diemer Power and Distribution Panel Upgrade
  - o Continued equipment procurement
- Jensen Ozone PSU Replacement Stage 1
  - Received delivery of power supply units (PSU) and dielectrics
- Weymouth Administration Building Upgrades
  - Obtained board authorization of two agreements for final design and field investigation

### **Upcoming Activities**

- Continue preliminary design of:
  - o Diemer Filter Rehabilitation
  - Jensen Reservoir Bypass Gate Replacement
  - Water Quality Laboratory Upgrades
  - Mills Perimeter Security & Erosion Control Improvements
- Continue construction of:
  - Jensen Ozone PSU Replacement Stage 1
  - Mills Electrical Upgrades Stage 2
  - o Mills Module Nos. 3 and 4 Flash Mix Chemical Containment Upgrades
  - o Weymouth Basins Nos. 5-8 & Filter Building No. 2 Rehabilitation
- Diemer Power and Distribution Panel Upgrade
  - Continue equipment procurement
- Diemer Washwater Reclamation Plant Improvements
  - o Begin preliminary design to stabilize the slope next to the existing washwater reclamation plant
- Weymouth Administration Building Upgrades
  - Begin final design

## Treatment Plant Reliability Program: Mills Electrical Upgrades – Stage 2

**Total Project Estimate:** \$18.5 million

**Total Project Cost to Date:** \$4.0 million

This project will add a second incoming 12 kV service from the Riverside Public Utilities, upgrade the plant's main medium voltage switchgear, and replace the standby generator switchgear and the emergency generator programmable logic controller.

| Phase                         | Construction & Closeout |
|-------------------------------|-------------------------|
| % Complete for Construction   | 17%                     |
| Construction Contract Awarded | November 2021           |
| Construction Completion Date  | January 2025            |
| Contract Number               | 1990                    |

The contractor completed excavation, conduit installation, and backfill of the new Riverside Public Utility (RPU) electrical accessway structures and duct banks. Demolition of the 4160 V cable between the ozone switchgear and Unit Power Center 12 was completed. In the upcoming quarter, the contractor will relocate Accessway No. A48 in preparation of the ozone switchgear building expansion and continue construction of the new RPU switchyard.



Excavating to construct electrical ductbanks A-1 and A-2 at Mills plant

# Water Quality Program

Actual Biennium Expenditures (Jul. 2022 through Sep. 2022) \$0.33 million

**Program Information:** The Water Quality Program is comprised of projects to add new facilities to ensure compliance with water quality regulations for treated water, located at Metropolitan's treatment plants and throughout the distribution system.

### **Program Highlights (1st Quarter)**

### **Accomplishments**

- Mills Enhanced Bromate Control Facilities
  - o Continued final design

### **Upcoming Activities**

- Mills Enhanced Bromate Control Facilities
  - o Continue final design

# 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 bienniums, the minor cap budget was included in the CIP appropriation. In order 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 Item 8-3 and the same cap is applied for the new minor caps that are approved for the current biennium. Prior to that action, the budget cap for minor cap projects was \$250,000.

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.

For the past three bienniums, the two-year budgets for the Minor Cap Program have been \$10 million, \$15.5 million, and \$20 million respectively. In April 2022, the Board appropriated funds for the projects identified in the CIP appendix for the current biennium, FYs 2022/23–2023/24, including the Minor Cap Program. \$10 million has been allocated for the current biennium.

### **Minor Cap Program Historical Summary**

The following table provides the overall status of the Minor Cap appropriations for the fiscal years 2016/17–2017/18 through fiscal years 2022/23–2023/24.

Fiscal Year Totals 2016/17-2018/19-2020/21-2022/23-2021/22 2023/24 2017/18 2019/20 \$10M **Amount Appropriated** \$10M \$20M \$55.5M \$15.5M **Expenditures** (through September \$7.2M \$11.7M \$7.1M \$0.3M \$26.3M 2022) **Number of Projects** 41 48 54 154 11 **Approved** Number of Projects Completed 77 40 33 4 0 (through September 2022) **Number of Projects** with Durations of 0 0 7 1 6 Over 3 Years

Table 4: Minor Capital Projects Program

Through September 2022, 77 of the 154 projects have been completed, and seven active projects have exceeded three years in duration, as described below.

- Garvey Reservoir Sodium Hypochlorite Tank Replacement has experienced delays due to the Texas deep
  freeze event, which caused power and resin supply chain disruptions in 2021, and delivery of the new tank
  was delayed. The tank was delivered in July 2022. Metropolitan force construction will complete tank
  installation by December 2022.
- Gene Inlet Surge Chamber Access Improvement has experienced delays due to re-scheduling of the
  installation of recently fabricated hatch cover, which can only occur when Gene Wash Reservoir water level
  is lowered. Metropolitan force construction plans to complete the hatch cover installation during the 2023
  CRA shutdown and complete the project by April 2023.
- Gene Pool Refurbishment has experienced delays due to shortage of local contractors for this type of work due to increased construction activity in the region. Metropolitan force construction will complete the work and the project is scheduled to be completed by December 2022.
- Jensen Ozone Diffuser Reliability Upgrades has been completed and the project is scheduled to be closed in November 2022, upon payment of pending invoices and completion of record drawings.
- Lower Feeder Blow-Off Drain Line Replacement experienced delays in obtaining Caltrans permit for Highway 90. Construction has started and the project is scheduled to be completed by April 2023.
- OC-88 Fire Protection System Upgrades started construction in late 2021, however, the contract was
  terminated as a result of the contractor's debarment by the State of California's Department of Industrial
  Relations. A new contract has been awarded, and the project is scheduled to be completed by November
  2022.
- San Diego Pipeline No. 2 Access Road Relocation was originally advertised for bids in November 2020 to be
  constructed by a contractor, but construction did not start in Spring 2021 as planned due to COVID-19
  pandemic restrictions and the contract was terminated. Metropolitan forces have completed construction
  and the project will be closed by December 2022.

Actual biennium expenditures to date (July 2022 through September 2022) for the Minor Capital Projects Program were \$0.99 million.

### Minor Cap Projects, 1st Quarter

### **Authorized Projects**

Eleven projects were authorized under the Minor Cap Program during the 1<sup>st</sup> Quarter of fiscal year 2022/23 (July through September 2022). The total amount authorized for these projects was \$2,921,087:

- Conveyance and Distribution SCADA Network Switch and Router Replacement This project will procure
  and replace network switches and routers for Metropolitan's control system network in Conveyance and
  Distribution (C&D) locations, which includes Operations Control Center and Diemer, Skinner, Weymouth, and
  Jensen Water Treatment Plants, that are either no longer supported by the manufacturers or the support is
  soon to end. The project budget is \$392,954.
- Jensen Chemical Flow Meter Replacement This project will replace 26 chemical flow meters at the Jensen plant, which have exceeded their service life and are difficult to read due to deterioration of the meter display caused by prolonged sun exposure. The project budget is \$397,133.
- Jensen Chlorine Ejector System Pipe Replacement This project will replace the existing chlorine service water and solution piping for the chlorine ejector system at the Jensen plant, which has exceeded its service life, to maintain chlorine system reliability. The project budget is \$68,000.
- Jensen Modules 2 and 3 Filter Surface Wash Valve Replacement This project will replace four leaky filter surface wash valves for Filter Nos. 24, 28, 31, and 40 and install new couplings downstream of the valves to improve access for maintenance. The project budget is \$144,000.
- Mills Sodium Hypochlorite Storage System Improvements This project will procure and install mechanical, electrical, and instrumentation equipment to place two existing spare sodium hypochlorite storage tanks into service to enhance water treatment reliability. The project budget is \$365,000.

- Mills WTP Wildlife Barrier Screen Installation This project will provide primary and secondary exclusion screens at the Mills plant to prevent wildlife entry into the water treatment process, consistent with California Health & Safety provisions. The project budget is \$385,000.
- Sepulveda PCS to Venice PCS Valve Replacement This project will replace 16 valves ranging in size from 4 to 6 inches on the Sepulveda Feeder between Sepulveda Pressure Control Structure (PCS) and Venice PCS, which have exceeded their service life. The project budget is \$350,000.
- Skinner Plant Lighting Upgrades This project will replace obsolete low-pressure sodium light fixtures that are used to illuminate the plant with new LED light fixtures, which are brighter, use less power, and require less maintenance, to increase visibility and enhance safety. The project budget is \$335,000.
- Skinner Plant 1 UPS Upgrades This project will replace nine existing 15-year-old uninterruptible power supply (UPS) units for Skinner Plant 1 with new UPS units that are easier to operate and maintain. The project budget is \$240,000.
- Water Quality Laboratory Walk-In Refrigerator Replacement This project will procure and replace the main components of the existing source water microbiology/pathogen analysis walk-in refrigerator at Metropolitan Water Quality Laboratory in La Verne, which have been in service for over 27 years and have exceeded their service life. The project budget is \$199,000.
- WB-06A Flow Meter Replacement This project will replace the electromagnetic flow meter at the WB-06A service connection, which is no longer supported by the manufacturer, to enhance system reliability. This project will also replace flow meter transmitter and power/signal cables. The project budget is \$50,000.

### **Completed Projects**

Four projects were completed under the Minor Cap Program during the 1<sup>st</sup> Quarter of fiscal year 2022/23 (July through September 2022):

- Irvine Regulating Structure Sump Drain Line Modification
- Mills Industrial Wastewater Handling Facility Improvements
- OC-88 Pump Station PLC Upgrade
- Water Quality HVAC Energy Management Upgrade

### **Cancelled Projects**

None

# **Project Actions**

Table 5 lists capital project actions authorized by the General Manager along with funding allocation amounts during the 1st Quarter of FY 2022/23, through the authority delegated by the Board in April 2022. The total funding amount authorized during the 1st Quarter is \$49,870,000 through eighteen 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 1st Quarter

| Project Authorized  | Activity Authorized                       | Amount<br>Authorized for<br>Current Biennium | Total Amount<br>Authorized |
|---|---|--|----------------------------|
| Calabasas Feeder PCCP Rehabilitation <sup>1</sup>                   | Additional<br>Preliminary Design          | \$553,000                                    | \$1,500,000                |
| CIP Budgeting System SharePoint Enhancements                        | Design,<br>Development, and<br>Deployment | \$200,000                                    | \$200,000                  |
| CRA Utility Replacement – Eagle Mountain Pumping Plant <sup>2</sup> | Additional Final<br>Design                | \$753,000                                    | \$753,000                  |
| CRA Utility Replacement – Hinds Pumping Plant <sup>3</sup>          | Additional Final<br>Design                | \$807,000                                    | \$807,000                  |
| Diamond Valley Lake and Skinner Area Flow Meter<br>Replacement      | Study                                     | \$100,000                                    | \$100,000                  |
| Eagle Mountain Pumping Plant Village Pavement<br>Replacement        | Preliminary Design and Final Design       | \$120,000                                    | \$120,000                  |
| Etiwanda Pipeline North Relining – Stage 3                          | Construction                              | \$33,000,000                                 | \$33,000,000               |
| Hinds Pumping Plant Village Pavement Replacement                    | Preliminary Design and Final Design       | \$120,000                                    | \$120,000                  |
| Hollywood Tunnel North Portal Equipment Upgrades                    | Final Design                              | \$1,304,000                                  | \$1,375,000                |

Additional funds were required to finalize preliminary design including identifying construction reaches, identifying isolation locations, determining construction packaging and sequencing determining locations and evaluating pipe access sites, developing shutdown requirements, and evaluating construction impacts to the community.

Additional final design funds were required to perform additional utility investigation and hydraulic analysis for the Eagle Mountain Site and to revise design to incorporate desert housing project improvements features.

Additional final design funds were required to perform additional utility investigation and hydraulic analysis for the Hinds Site and to revise design to incorporate desert housing project improvements features.

| Project Authorized   | Activity Authorized                               | Amount<br>Authorized for<br>Current Biennium | Total Amount<br>Authorized |
|--|---|--|----------------------------|
| Inland Feeder/SBVMWD Foothill Pump Station Intertie                          | Preliminary Design                                | \$998,000                                    | \$998,000                  |
| Iron Mountain Transformer Bank Projection Relays<br>Replacement              | Final Design and<br>Procurement                   | \$600,000                                    | \$600,000                  |
| Lake Mathews Administration and Warehouse<br>Building Roof Upgrade           | Study, Preliminary<br>Design, and Final<br>Design | \$240,000                                    | \$240,000                  |
| Lower Feeder Air Entrainment Improvement                                     | Study   | \$410,000                                    | \$450,000                  |
| Oracle Database Upgrade  | Design,<br>Development, and<br>Deployment         | \$1,200,000                                  | \$1,980,800                |
| Replacement of Network Switches at MWD<br>Headquarters Building              | Design,<br>Development, and<br>Deployment         | \$25,000                                     | \$2,750,000                |
| Sepulveda Feeder PCCP Rehabilitation <sup>4</sup>                            | Additional<br>Preliminary Design                  | \$6,500,000                                  | \$6,500,000                |
| Sepulveda Feeder West Area Water Supply Reliability<br>Pipeline Improvements | Preliminary Design                                | \$2,000,000                                  | \$2,000,000                |
| Upper Feeder Expansion Joint Replacement                                     | Final Design \$900,000                            |  | \$900,000                  |
|  | Total   | \$49,870,000                                 | \$64,393,800               |

Additional funds were required for detailed preliminary design activities including updated geotechnical and subsurface utility investigations, survey, environmental planning, and permitting to comply with the updated pipeline access safety criteria for the northern 20-mile portion of the Sepulveda Feeder PCCP portions.

Table 6 lists capital projects which were authorized during the previous biennium with an unfunded portion of authorized work remaining to be funded at the end of the biennium, as the work authorized was scheduled to extend beyond the biennium. The unfunded portion of these projects were funded from Appropriation 15525 at the start of the current biennium.

Table 6: Previously Authorized Capital Projects Funded from Appropriation No. 15525

| Project  | Amount Authorized for Current<br>Biennium |
|--|---|
| Applications-Servers Upgrade from Old Windows Operating Systems                          | \$3,040,609                               |
| Arc Flash Software Model Development   | \$12,000,000                              |
| Battery Energy Storage System at Jensen, Skinner, and Weymouth Water<br>Treatment Plants | \$18,578,521                              |
| Black Metal Mountain 2.4 kV Power Upgrade  | \$533,000                                 |
| Cabazon Radial Gate Facility Upgrades  | \$1,440,000                               |
| Casa Loma Siphon No. 1 Seismic Upgrades  | \$12,506,000                              |
| CRA Conduit Erosion Control Improvements   | \$4,600,000                               |
| CRA Pumping Plants 6.9 kV Power Cables Replacement                                       | \$600,000                                 |
| CRA 6.9 kV Power Cable Replacement Units 6 to 9  | \$1,550,000                               |
| CRA Desert Region Security Improvements  | \$1,430,000                               |
| CRA Domestic Water Treatment System Upgrades   | \$39,300,000                              |
| CRA Pumping Plant Sump Rehabilitation  | \$16,000,000                              |
| CRA Pumping Plants Crane Improvement   | \$9,270,100                               |
| Datacenter Backup Infrastructure Upgrade   | \$788,072                                 |
| Datacenter Modernization Relocation  | \$1,166,819                               |
| Desert Housing Improvements  | \$300,000                                 |
| Desert Microwave Tower Sites Upgrades (Phase 1 of 2)                                     | \$3,676,000                               |
| Diemer Chemical Feed System Improvements   | \$3,268,000                               |
| Diemer Filter Rehabilitation   | \$1,232,000                               |
| Diemer Power and Distribution Panel Upgrades   | \$1,065,000                               |
| Direct Potable Reuse Demonstration Facility  | \$1,500,000                               |
| Districtwide Near Zero and Zero Emissions Fleet Infrastructure                           | \$133,000                                 |

| Project  | Amount Authorized for Current<br>Biennium |
|--|---|
| Drought Response Westside Pump Station                                     | \$175,000                                 |
| East Lake Skinner Bypass and Bypass No. 2 Screening Structure Upgrade      | \$75,000                                  |
| Etiwanda Pipeline North Relining – Stage 3                                 | \$6,675,000                               |
| Garvey Hypochlorite Feed System Upgrades                                   | \$75,000                                  |
| Greg Avenue Pump Station Rehabilitation                                    | \$1,270,910                               |
| Headquarters Fire Alarm and Smoke Control Upgrades                         | \$9,000,000                               |
| Hinds Transformer Bank Protection Relays Replacement                       | \$676,000                                 |
| Inland Feeder/Rialto Pipeline Intertie                                     | \$916,000                                 |
| Iron Mountain and Gene Pumping Plant Utility Replacement                   | \$3,500,000                               |
| Iron Mountain Pumping Plant Station and Lighting Switchrack Rehabilitation | \$1,200,000                               |
| Jensen Electrical Upgrades Stage 3   | \$2,660,000                               |
| Jensen Solids Mechanical Dewatering Facility                               | \$5,000                                   |
| Jensen Ozone PSUs Replacement - Stage 2                                    | \$222,000                                 |
| Jensen Ozone PSUs Replacement - Stage 1                                    | \$3,938,897                               |
| Jensen Reservoir Bypass Gate Refurbishment                                 | \$374,000                                 |
| Jensen Sulfuric Acid Tank Rehabilitation                                   | \$251,000                                 |
| La Verne Machine and Fabrication Shop Equipment Design and Procurement     | \$87,600                                  |
| La Verne Shops - Stage 5 Buildings Completion & Equipment Procurement      | \$24,172,800                              |
| La Verne Water Quality Laboratory Upgrades                                 | \$7,120,000                               |
| Lake Mathews Wastewater System Replacement                                 | \$144,020                                 |
| Lake Skinner Pipelines Cathodic Protection                                 | \$74,200                                  |
| Live Oak Reservoir Asphalt Liner Replacement                               | \$60,000                                  |
| Mills Electrical Upgrades – Stage 2  | \$10,700,000                              |
| Mills Plant Control System Upgrade   | \$19,705,000                              |
| OC-88 Pumping Plant Chillers Replacement                                   | \$4,100,000                               |

| Project  | Amount Authorized for Current<br>Biennium |
|--|---|
| Orange County and Riverside/San Diego County Operating Regions Valve Replacement         | \$693,600                                 |
| Orange County Feeder Relining - Reach 3  | \$21,400,000                              |
| PCCP Rehabilitation Valve Storage Building   | \$6,300,000                               |
| Payroll and Timekeeping System Upgrade   | \$1,420,000                               |
| San Diego Canal Radial Gate Replacement  | \$1,679,000                               |
| Second Lower Feeder PCCP Rehabilitation Remaining Budget                                 | \$7,000,000                               |
| Second Lower Feeder PCCP Rehabilitation - Reach 3A                                       | \$19,100,000                              |
| Sepulveda Feeder PCCP Rehabilitation - Reach 1   | \$1,220,000                               |
| Sepulveda Feeder PCCP Rehabilitation - Reach 2   | \$1,344,868                               |
| Skinner Facility Area Paving   | \$1,000,000                               |
| Upgrades at Three Sepulveda Feeder Structures  | \$4,650,000                               |
| Wadsworth Pumping Plant Stage 2 - Badlands Tunnel Surge Tank Facility                    | \$1,340,000                               |
| Water Information System   | \$1,175,000                               |
| West Area Supply and Delivery Alternatives   | \$175,500                                 |
| Western San Bernardino County Operating Region Erosion Control<br>Improvements – Stage 1 | \$662,898                                 |
| Western San Bernardino County Operating Region Erosion Control<br>Improvements - Stage 2 | \$667,000                                 |
| Weymouth Treatment Basins Nos. 5-8 and Filter Building No. 2 Rehabilitation              | \$109,000,000                             |
| Total:   | \$409,982,414                             |

## **CEQA** Determinations

Table 7 lists CEQA exemption determinations made by the General Manager during the 1st Quarter. Consistent with CEQA, the Board delegated this authority to the General Manager in April 2020. Adoption of Negative Declarations and 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 heard in closed session.

**Table 7: CEQA Exemption Determinations** 

| Projects  |
|---|
| Iron Mountain Pumping Plant Station and Lighting Switchrack Replacement |
| Hinds Village Paving Replacement  |
| Inland Feeder Foothill Pump Station - Geotech Investigation             |
| San Diego Pipeline No. 1 Rainbow Tunnel Rehabilitation                  |

## **Construction and Procurement Contracts**

The table below summarizes the status of all construction and procurement contracts that were active during the reporting quarter. These contracts are listed in Table 9, Table 11, and Table 12. Total contract earnings for the 1st Quarter were approximately \$41,702,349. Tables in this section exclude contracts for minor capital projects.

Table 8: 1st Quarter Contract Action

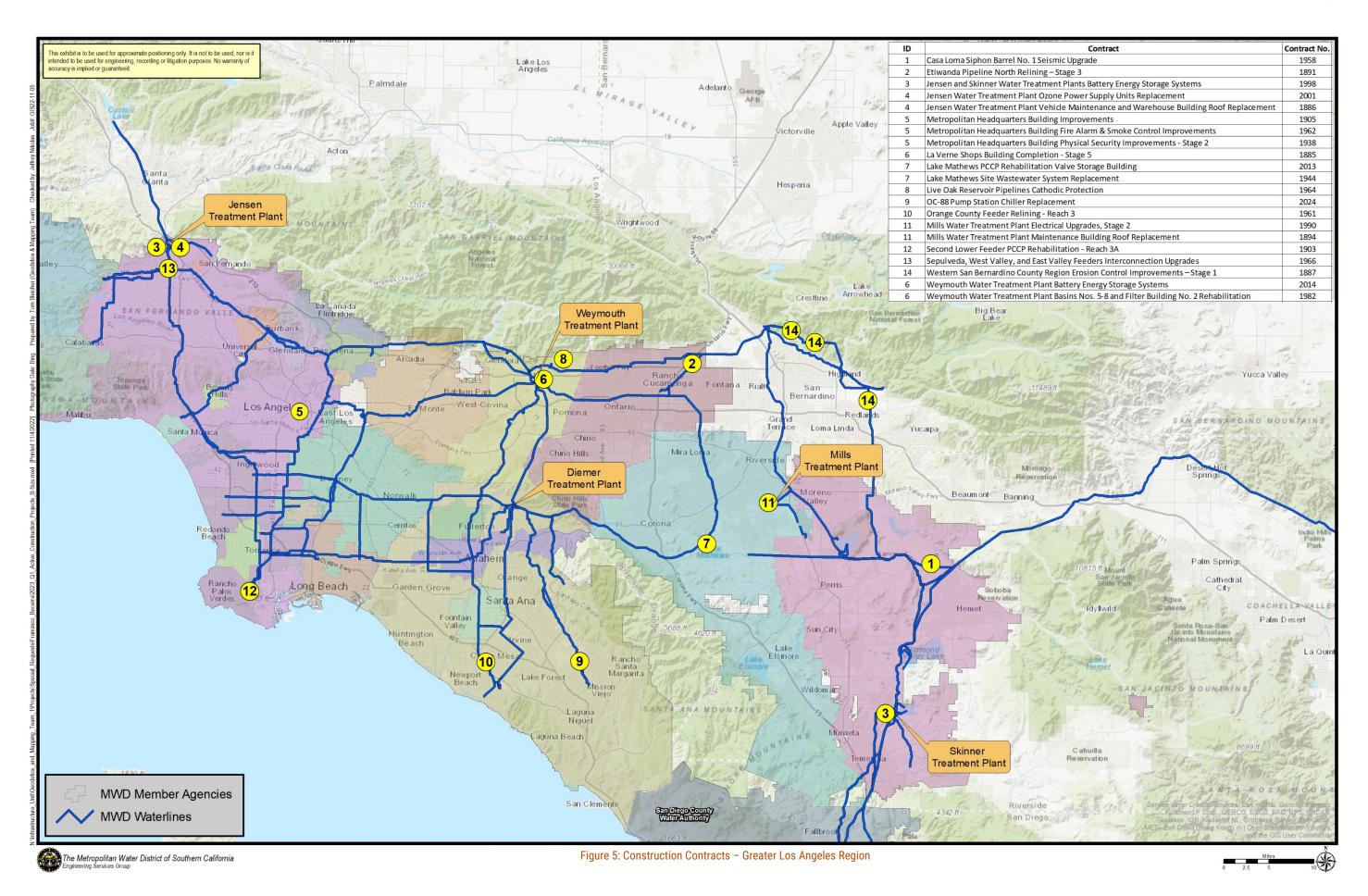
| Contract Actions during Q1 for FY 2022/2023, July 2022 through September 2022 |   |  |  |  |  |
|---|---|--|--|--|--|
| Contracts Awarded by Board  | 2 construction contracts totaling \$26.26 million (Table 10) 1 procurement contract totaling \$5.65 million (Table 10)                                      |  |  |  |  |
| Total Payments Authorized   | \$22.56 million   |  |  |  |  |
| Construction Contracts Completed  | Notice of Completion was filed for 5 construction contracts (Table 9)   |  |  |  |  |
| Procurement Contracts Delivery<br>Completed                                   | Delivery of all items completed for 1 procurement contract (Table 12)   |  |  |  |  |
| Active Contracts at end of Q1 <sup>5</sup>                                    | 25 construction contracts, totaling \$370.89 million (Table 11) 15 procurement contracts, totaling \$71.01 million (Table 12) \$441.90 million total value* |  |  |  |  |

<sup>\*</sup>Numbers may not sum due to rounding

The figures on the next two pages show the locations of the twenty-five construction contracts that were active through the end of the 1st Quarter.

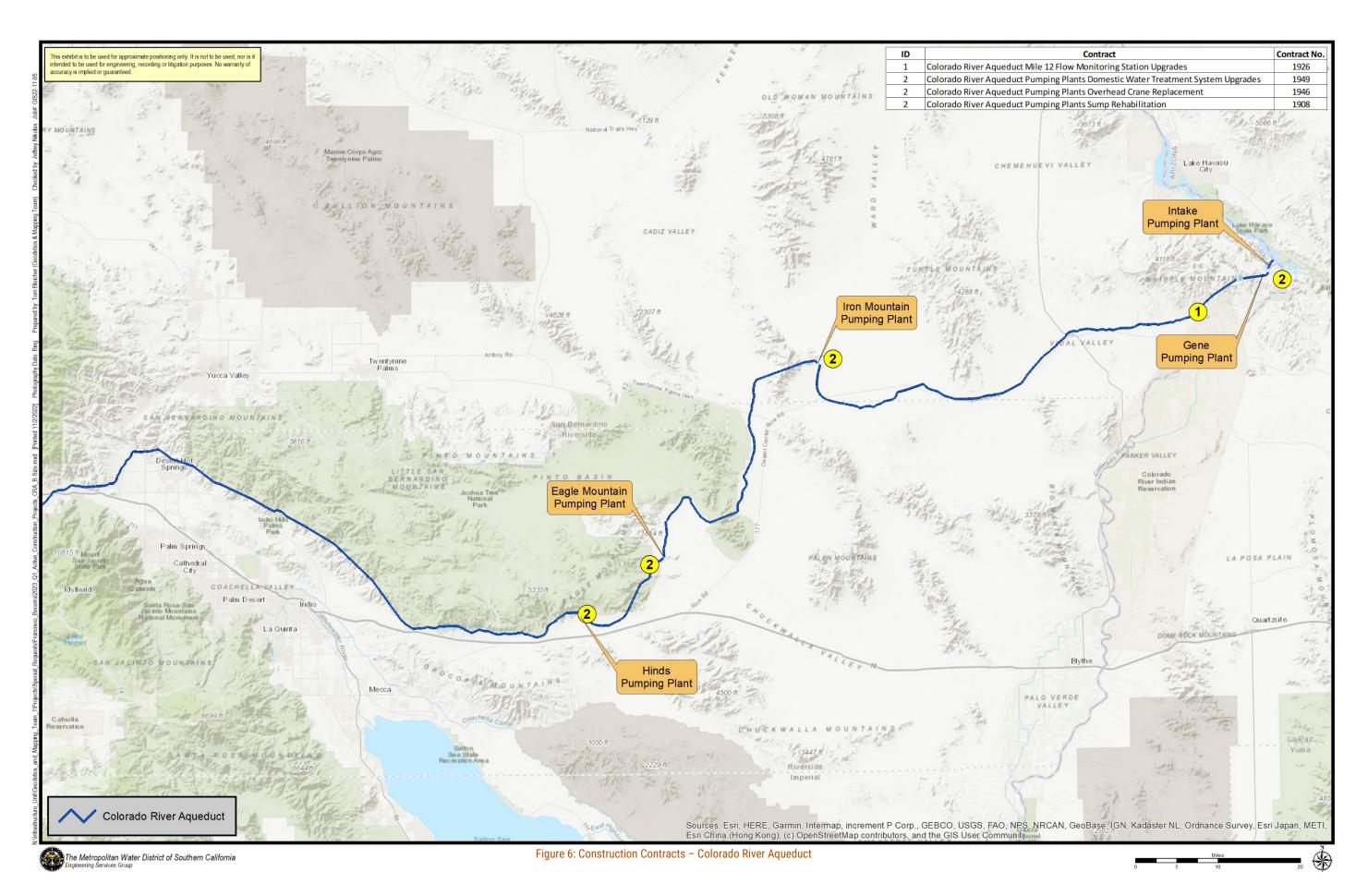
Active contracts at the end of the 1<sup>st</sup> Quarter are those that are ongoing at the end of September 2022. In other words, contracts completed during the reporting quarter are excluded.

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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 1st Quarter, the Board did not authorize any increases to the General Manager's change order authority.

#### Notices of Completion during 1st Quarter:

The following table shows the five construction contracts for which Metropolitan accepted the contract as completed during the 1st Quarter of FY 2022/23 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<br>No. | Construction Contract  | Notice of<br>Completion | Original Bid<br>Amount | Final<br>Contract<br>Costs | Change Order | Change<br>Order % |
|-----------------|--|-------------------------|------------------------|----------------------------|--------------|-------------------|
| 1884            | Garvey Reservoir Sodium<br>Hypochlorite Feed System<br>Upgrade                       | July 2022               | \$2,418,149            | \$2,430,457                | \$12,308     | 0.5%              |
| 1951            | Skinner Water Treatment<br>Plant Cathodic Protection                                 | July 2022               | \$240,933              | \$247,053                  | \$6,120      | 2.5%              |
| 1984            | Skinner Water Treatment<br>Plant Facility Area Paving                                | July 2022               | \$1,936,977            | \$2,110,339                | \$173,362    | 9.0%              |
| 1970            | Garvey Reservoir Drainage<br>and Erosion Improvements -<br>Areas 6, 7, 8, 10, and 11 | September<br>2022       | \$1,294,800            | \$1,542,553                | \$247,753    | 19.1%             |
| 2045            | Upper Feeder Santa Ana<br>River Crossing Expansion<br>Joint Replacement              | September<br>2022       | N/A                    | \$855,624                  | N/A          | N/A               |
|                 | Totals:  |                         |                        |                            |              |                   |

For the 1st Quarter, the total bid amount of the completed construction contracts was approximately \$5.9 million. As for the Contract Number 2045, Upper Feeder Santa Ana River Crossing Expansion Joint Replacement, the General Manager awarded the contract under the emergency contracting provisions in the administrative code, after a leak was discovered, without going through the competitive bid process. Therefore, the work under this contract was performed with an estimated budget of \$1.2 million instead of a set bid amount. As for Contract 1970, change orders include an extension of drainage piping, replacement of asphalt pavement, construction of a concrete block wall due to differing site conditions discovered during construction and to complete the work that would have otherwise been completed in a future contract. Contract 1984 change orders include utility relocation, drainage restoration, and asphalt paving due to differing site conditions discovered during construction and to complete the work that would have otherwise been completed in a future contract.

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 (October 2021 through September 2022) is 3.75 percent<sup>6</sup>.

Original amount of construction contracts completed (Oct. 2021 through Sept. 2022) = \$42,008,373 Change orders for completed construction contracts (Oct. 2021 through Sept. 2022)= \$1,574,617 Change order percentage (Oct. 2021 through Sept. 2022)=3.75%

#### Contracts Awarded by the Board during 1st Quarter:

During the period of July through September 2022, two construction contracts totaling \$26,260,524 and one procurement contract totaling \$5,647,405, were awarded by the Board.

Table 10: Construction and Procurement Contracts Awarded This Quarter

| Construction Contracts                |  |  |  |  |  |  |
|---------------------------------------|--|--|--|--|--|--|
| Etiwanda Pipeline Nor                 | Etiwanda Pipeline North Relining - Stage 3   |  |  |  |  |  |
| Contract Number                       | 1891   |  |  |  |  |  |
| Contractor                            | Mladen Buntich Construction Co., Inc.  |  |  |  |  |  |
| Amount                                | \$25,972,700   |  |  |  |  |  |
| Mills Plant Maintenand                | ce Building Roof Replacement   |  |  |  |  |  |
| Contract Number                       | 1894   |  |  |  |  |  |
| Contractor                            | Bishop, Inc.   |  |  |  |  |  |
| Amount                                | \$287,824  |  |  |  |  |  |
| Procurement Contract                  | ts   |  |  |  |  |  |
| Furnishing Butterfly Va               | alves for the Wadsworth Bypass Pipeline, Inland Feeder-Rialto Pipeline Intertie, and |  |  |  |  |  |
| Badlands Tunnel Isolation Surge Tanks |  |  |  |  |  |  |
| Contract Number                       | 2022   |  |  |  |  |  |
| Contractor                            | Sojitz Machinery Corporation of America  |  |  |  |  |  |
| Amount                                | \$5,647,405  |  |  |  |  |  |

The table on this page lists the 25 ongoing construction contracts through the end of the 1st Quarter. Also, Metropolitan is negotiating a settlement with the contractor on Construction Contract No. 1908 to remove the remaining construction portion of the contract, which was suspended due to Metropolitan's response to COVID-19. As part of the settlement, Metropolitan is procuring materials and equipment from the contractor for a future construction contract. This list does not contain construction contracts for minor capital projects.

Table 11: Active Construction Contracts at the End of 1st Quarter

|   | Cont. No. | Contract Title  | Contractor                                  | Contract<br>Amount <sup>7</sup> | Earnings<br>Through<br>September<br>2022 | Start Date | Est.<br>Completion<br>Date | Est. Percent<br>Complete |
|---|-----------|---|---|---------------------------------|--|------------|----------------------------|--------------------------|
| 1 | 1885      | La Verne Shops Building<br>Completion – Stage 5   | Woodcliff<br>Corporation,<br>Inc.           | \$18,930,000                    | \$1,217,960                              | 6/10/22    | 5/24                       | 6%                       |
| 2 | 1886      | Joseph Jensen Water<br>Treatment Plant Vehicle<br>Maintenance Building Roof<br>Replacement <sup>8</sup> | AME Builders,<br>Inc. dba AME<br>Roofing    | \$282,390                       | \$236,583                                | 11/1/21    | 10/22                      | 84%                      |
| 3 | 1887      | Western San Bernardino<br>County Region Erosion Control<br>Improvements – Stage 1                       | Jeremy Harris<br>Construction,<br>Inc.      | \$677,898                       | \$611,488                                | 4/1/22     | 11/22                      | 90%                      |
| 4 | 1891      | Etiwanda Pipeline North<br>Relining - Stage 3   | Mladen Buntich<br>Construction<br>Co., Inc. | \$25,972,700                    | \$618,000                                | 8/19/22    | 10/23                      | 2%                       |
| 5 | 1894      | Mills Plant Maintenance<br>Building Roof Replacement  | Bishop, Inc.                                | \$287,824                       | \$0                                      | 10/12/22   | 6/23                       | 0%                       |
| 6 | 1903      | Second Lower Feeder PCCP<br>Rehabilitation – Reach 3A   | J. F. Shea<br>Construction,<br>Inc.         | \$11,884,700                    | \$3,260,000                              | 6/6/22     | 6/23                       | 27%                      |
| 7 | 1905      | Metropolitan Headquarters<br>Building Improvements <sup>8</sup>   | Bernards Bros.<br>Inc.                      | \$50,689,760                    | \$50,645,831                             | 1/14/19    | 12/22                      | 99%                      |
| 8 | 1908      | CRA Pumping Plants – Sump<br>Rehabilitation <sup>9</sup>  | Michels<br>Construction,<br>Inc.            | \$27,242,360                    | \$12,615,770                             | 1/24/19    | 12/22                      | 46%                      |
| 9 | 1926      | CRA Mile 12 Flow Monitoring<br>Station Upgrades   | R2 Engineering<br>dba R2Build               | \$2,053,567                     | \$1,622,457                              | 6/16/21    | 1/23                       | 79%                      |

<sup>&</sup>lt;sup>7</sup> 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.

<sup>8</sup> Granting of additional working days to complete construction are being considered.

<sup>9</sup> Contract 1908 has exceeded the contract working days and Metropolitan is assessing liquidated damages.

|    | Cont. No. | Contract Title  | Contractor                                | Contract<br>Amount <sup>7</sup> | Earnings<br>Through<br>September<br>2022 | Start Date | Est.<br>Completion<br>Date | Est. Percent<br>Complete |
|----|-----------|---|---|---------------------------------|--|------------|----------------------------|--------------------------|
| 10 | 1938      | MWD HQ Bldg. Physical<br>Security Improvements <sup>8</sup>                                 | Bernards Bros.<br>Inc.                    | \$5,998,980                     | \$5,944,666                              | 9/22/20    | 12/22                      | 99%                      |
| 11 | 1944      | Lake Mathews Reservoir<br>Wastewater System<br>Replacement                                  | Creative Home<br>dba CHI<br>Construction  | \$3,815,000                     | \$2,209,050                              | 12/13/21   | 3/23                       | 58%                      |
| 12 | 1946      | Colorado River Aqueduct<br>Pumping Plants - Overhead<br>Crane Replacement                   | J.F. Shea<br>Construction,<br>Inc.        | \$13,518,670                    | \$3,024,867                              | 10/14/20   | 9/23                       | 22%                      |
| 13 | 1949      | Colorado River Aqueduct<br>Pumping Plants Domestic<br>Water Treatment System<br>Replacement | J.F. Shea<br>Construction,<br>Inc.        | \$32,824,000                    | \$2,758,438                              | 1/20/22    | 2/25                       | 8%                       |
| 14 | 1958      | Colorado River Aqueduct<br>Replacement of Casa Loma<br>Siphon Barrel No. 1                  | J.F. Shea<br>Construction,<br>Inc.        | \$11,499,000                    | \$8,315,907                              | 1/20/22    | 6/23                       | 72%                      |
| 15 | 1961      | Orange County Feeder Relining - Reach 3   | Spiniello<br>Infrastructure<br>West, Inc. | \$17,226,250                    | \$771,272                                | 5/11/22    | 9/23                       | 4%                       |
| 16 | 1962      | MWD HQ Building Fire Alarm & Smoke Control Improvements                                     | Bernards Bros.<br>Inc.                    | \$14,165,888                    | \$8,672,379                              | 9/24/20    | 1/23                       | 61%                      |
| 17 | 1964      | Live Oak Reservoir Pipelines<br>Cathodic Protection   | Exaro<br>Technologies<br>Corporation      | \$182,800                       | \$0                                      | 9/28/22    | 3/23                       | 0%                       |
| 18 | 1966      | Sepulveda, West Valley, and<br>East Valley Feeders<br>Interconnection Upgrades              | Blois<br>Construction,<br>Inc.            | \$3,143,592                     | \$50,383                                 | 7/7/22     | 8/23                       | 2%                       |
| 19 | 1982      | Weymouth Water Treatment<br>Plant Basins Nos. 5-8 & Filter<br>Building No. 2 Rehabilitation | J. F. Shea<br>Construction,<br>Inc.       | \$93,840,000                    | \$7,597,716                              | 6/10/22    | 5/25                       | 8%                       |
| 20 | 1990      | Henry J. Mills Water Treatment<br>Plant Electrical Upgrades,<br>Stage 2                     | CSI Electrical<br>Contractors,<br>Inc.    | \$9,200,000                     | \$1,543,366                              | 12/13/21   | 1/25                       | 17%                      |
| 21 | 1998      | Jensen and Skinner Water<br>Treatment Plants Battery<br>Energy Storage Systems <sup>8</sup> | Ameresco, Inc.                            | \$11,604,521                    | \$3,136,668                              | 10/7/21    | 11/24                      | 27%                      |

|    | Cont. No.   | Contract Title  | Contractor                                       | Contract<br>Amount <sup>7</sup> | Earnings<br>Through<br>September<br>2022 | Start Date | Est.<br>Completion<br>Date | Est. Percent<br>Complete |
|----|---|---|--|---------------------------------|--|------------|----------------------------|--------------------------|
| 22 | 2001  | Jensen Water Treatment Plant<br>Ozone Power Supply Units<br>Replacement | Leed Electric,<br>Inc.                           | \$2,257,897                     | \$56,098                                 | 7/20/22    | 12/23                      | 2%                       |
| 23 | 2013  | Lake Mathews PCCP<br>Rehabilitation Valve Storage<br>Building           | Facility Builders<br>& Erectors, Inc.            | \$4,759,000                     | \$1,970,047                              | 3/10/22    | 8/23                       | 41%                      |
| 24 | 2014  | Weymouth Plant Battery Energy<br>Storage System                         | Siemens<br>Industry, Inc.                        | \$6,176,521                     | \$0                                      | 7/18/22    | 7/23                       | 0%                       |
| 25 | 2024  | OC-88 Pump Station Chiller<br>Replacement                               | Mehta<br>Mechanical<br>Co., Inc. dba<br>MMC Inc. | \$2,654,000                     | \$114,000                                | 6/6/22     | 6/23                       | 4%                       |
|    | Total contract value for active construction contracts: |   |  | \$370,887,318                   |  |            |                            |                          |

The following table lists the 15 ongoing procurement contracts at the end of the 1st Quarter.

Table 12: Active Procurement Contracts at the End of 1st Quarter

|   | Cont. No.          | Contract   | Contractor   | Contract<br>Amount <sup>10</sup> | Earnings<br>Through<br>September<br>2022 | Start Date | Est. Delivery<br>Completion<br>Date | Est. Percent<br>Complete <sup>11</sup> |
|---|--------------------|--|--|----------------------------------|--|------------|-------------------------------------|--|
| 1 | 1861               | Furnishing Lubricated Plug<br>Valves for Second Lower<br>Feeder                                    | Southwest<br>Valve &<br>Equipment,<br>Inc.         | \$2,380,909                      | \$2,362,968                              | 9/11/17    | D <sup>12</sup>                     | 99%                                    |
| 2 | 1867 <sup>13</sup> | Furnishing Butterfly Valves for<br>the Weymouth Water<br>Treatment Plant – Schedule 1              | Crispin Valve,<br>LLC                              | \$5,066,975                      | \$2,674,908                              | 12/18/17   | 12/22                               | 53%                                    |
| 3 | 1868               | Furnishing Butterfly Valves for<br>the Weymouth Water<br>Treatment Plant – Schedule 2              | DeZurick, Inc.                                     | \$771,984                        | \$760,384                                | 12/18/17   | D <sup>12</sup>                     | 98%                                    |
| 4 | 1873               | Furnishing One Hydraulic Shear<br>System for the La Verne<br>Maintenance Shops                     | Landmark<br>Solutions, LLC                         | \$151,870                        | \$146,970                                | 3/21/18    | D <sup>12</sup>                     | 97%                                    |
| 5 | 1912               | Furnishing Large-Diameter<br>Conical Plug Valves   | Ebara<br>Corporation                               | \$23,750,060                     | \$17,157,856                             | 12/24/18   | 6/23                                | 72%                                    |
| 6 | 1922               | Furnishing One Double Column<br>Vertical Machining Center for<br>the La Verne Maintenance<br>Shops | Gosiger<br>Machine<br>Tools, LLC<br>(Gosiger West) | \$2,193,356                      | \$2,170,295                              | 9/17/18    | D <sup>12</sup>                     | 99%                                    |
| 7 | 1948               | Refurbishing Valve Actuators<br>for the Diemer Water<br>Treatment Plant                            | Flowserve<br>Limitorque                            | \$3,532,700                      | \$2,399,089                              | 2/16/19    | 3/23                                | 68%                                    |
| 8 | 1955               | Furnishing Membrane Filtration<br>Systems for the CRA Domestic<br>Water Treatment Systems          | Wigen Water<br>Technologies                        | \$1,244,535                      | \$529,166                                | 5/28/20    | 7/25                                | 43%                                    |

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.

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.

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

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.

|    | Cont. No.  | Contract   | Contractor                                 | Contract<br>Amount <sup>10</sup> | Earnings<br>Through<br>September<br>2022 | Start Date | Est. Delivery<br>Completion<br>Date | Est. Percent<br>Complete <sup>11</sup> |
|----|--|--|--|----------------------------------|--|------------|-------------------------------------|--|
| 9  | 1965   | Furnishing Equipment for the<br>Jensen Ozone Power Supply<br>Units Upgrades  | Suez<br>Treatment<br>Solutions, Inc.       | \$4,141,194                      | \$2,025,325                              | 3/30/20    | D <sup>14</sup>                     | 86%                                    |
| 10 | 1968   | Furnishing Earthquake-<br>Resistant Ductile Iron Pipe for<br>the Casa Loma Siphon Barrel<br>No. 1  | Kubota<br>Corporation                      | \$9,237,782                      | \$9,224,982                              | 2/12/20    | D <sup>12</sup>                     | 99%                                    |
| 11 | 1969   | Furnishing Inlet Valve<br>Gearboxes for Skinner Module<br>No. 7  | R&B<br>Automation,<br>Inc.                 | \$224,510                        | \$207,035                                | 4/29/20    | 2/24                                | 92%                                    |
| 12 | 1978   | Furnishing Steel Pipe for the<br>Casa Loma Siphon Barrel No. 1   | Northwest<br>Pipe Company                  | \$6,134,208                      | \$5,860,701                              | 1/16/20    | 12/23                               | 96%                                    |
| 13 | 2011   | Furnishing Steel Pipe for<br>Etiwanda Pipeline North<br>Relining, Stage 3  | Northwest<br>Pipe Company                  | \$6,044,897                      | \$5,400,744                              | 12/20/21   | 12/23                               | 89%                                    |
| 14 | 2022   | Furnishing Butterfly Valves for<br>the Wadsworth Bypass<br>Pipeline, Inland Feeder-Rialto<br>Pipeline Intertie, and Badlands<br>Tunnel Isolation Surge Tanks | Sojitz<br>Machinery<br>Corp. of<br>America | \$5,647,405                      | \$0                                      | 10/3/22    | 9/25                                | 0%                                     |
| 15 | PO<br>206047   | Furnish Equipment to Upgrade<br>the Ozone Control System at<br>the Mills Water Treatment<br>Plant  | Royal<br>Industrial<br>Solutions           | \$492,440                        | \$0                                      | 12/6/21    | 10/22                               | 0%                                     |
|    | Total contract value for active procurement contracts: |  |  | \$71,014,825                     |  |            |                                     |  |

All items were delivered during the reporting quarter but contract remains open pending use of manufacturer field services.

### Performance Metrics

In order 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,<br>% of Construction | Inspection<br>% 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.

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 13 and Table 14 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 performance for in-house construction projects and minor capital projects are not reported in this section since the efforts required for final design and inspection are different.

Table 13: Performance Metric Actuals, Construction Costs > \$3 Million

| Project   | Metric       | Actual Cost of<br>Metric | Construction<br>Cost | Target<br>Range | Actual % |
|---|--------------|--------------------------|----------------------|-----------------|----------|
| Etiwanda Pipeline Lining<br>Replacement Stage 3 | Final Design | \$800,054                | \$32,795,097         | 9-12%           | 2.4%     |

Table 14: Performance Metric Actuals, Construction Costs < \$3 Million

| Project  | Metric       | Actual Cost of<br>Metric | Construction<br>Cost | Target<br>Range | Actual %            |
|--|--------------|--------------------------|----------------------|-----------------|---------------------|
| Garvey Reservoir Drainage &<br>Erosion Improvements - Areas 6,<br>7, 8, 10, and 11 | Inspection   | \$497,570                | \$1,594,198          | 9-15%           | 31.2% <sup>15</sup> |
| Garvey Reservoir Sodium<br>Hypochlorite Feed System<br>Upgrades                    | Inspection   | \$327,156                | \$2,700,580          | 9-15%           | 12.1%               |
| Live Oak Reservoir Pipelines<br>Cathodic Protection                                | Final Design | \$43,211                 | \$196,000            | 9-15%           | 22.0% <sup>16</sup> |
| Mills Maintenance Building Roof<br>Replacement                                     | Final Design | \$47,000                 | \$464,824            | 9-15%           | 10.1%               |
| Skinner Facility Area Paving   | Inspection   | \$320,000                | \$2,316,977          | 9-15%           | 13.8%               |
| Skinner Pipelines Cathodic<br>Protection   | Inspection   | \$45,497                 | \$311,144            | 9-15%           | 14.6%               |
| Upper Feeder Expansion Joint<br>Replacement at the Santa Ana<br>River Crossing     | Final Design | \$224,560                | \$2,334,624          | 9-15%           | 9.6%                |
| Upper Feeder Expansion Joint<br>Replacement at the Santa Ana<br>River Crossing     | Inspection   | \$163,653                | \$2,334,624          | 9-15%           | 7.0%                |

Inspection costs for Garvey Reservoir Drainage & Erosion Improvements Areas 6, 7, 8, 10, & 11 were higher than the target range due to contractor issues which resulted in significant contract delays and increased inspection expenditures. Issues included a lapse of the contractor's license and the contractor contemplating closing the business, which resulted in inspection staff investigating the use of a bonding company to complete the construction.

Final design cost for the Live Oak Reservoir Pipelines Cathodic Protection were higher than the target range due to changes made during final design to convert to a stand-alone, solar-power system and higher than anticipated cost of construction.

## 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 (July through September 2022).

#### 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 1st Quarter of FY 2022/23 (July through September 2022).

# Program/Appropriation Status

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

Table 15: Program and Appropriation Budget vs. Cost and Planned Expenditures vs. Actuals

|  |           | Total to Date                  |  | Biennium   | ı to Date   |
|--|-----------|--------------------------------|--|--|---|
| Capital Programs/Appropriations                      | Appn. No. | Appn.<br>Amount<br>(\$1,000's) | Costs thru<br>September<br>2022<br>(\$1,000's) | Biennium to<br>Date Planned<br>Expenditures<br>(\$1,000's) | Biennium<br>Actual<br>Expenditures<br>(\$1,000's) |
| Colorado River Aqueduct<br>Reliability Program       | Total     | \$554,437                      | \$430,713                                      | \$11,670   | \$5,176   |
| Cabazon Radial Gate Facility<br>Improvements         | 15320     | \$2,456                        | \$740  | \$0  | \$35  |
| White Water Siphon Protection                        | 15341     | \$15,585                       | \$14,492                                       | \$1,820  | \$8   |
| CRA - Conveyance Reliability                         | 15373     | \$117,828                      | \$116,600                                      | \$520  | \$224   |
| CRA Pumping Plant Reliability                        | 15374     | \$24,467                       | \$24,005                                       | \$0  | \$2   |
| CRA - Electrical/Power Systems<br>Reliability        | 15384     | \$58,665                       | \$49,688                                       | \$600  | \$1,198   |
| CRA – Discharge Containment                          | 15385     | \$8,129                        | \$7,976  | \$0  | \$1   |
| CRA - Reliability for FY2006/07<br>through FY2011/12 | 15438     | \$150,194                      | \$119,839                                      | \$2,710  | \$367   |
| CRA Main Pump Reliability                            | 15481     | \$75,000                       | \$54,586                                       | \$3,600  | \$1,529   |
| CRA - Reliability for FY2012/13<br>through FY2017/18 | 15483     | \$90,967                       | \$37,411                                       | \$1,880  | \$1,530   |
| CRA - Reliability for FY2018/19<br>through FY2023/24 | 15507     | \$11,146                       | \$5,377  | \$540  | \$283   |
| Cost Efficiency & Productivity Program               | Total     | \$162,645                      | \$104,644                                      | \$1,350  | \$975   |
| DVL Recreation Facilities                            | 15334     | \$87,104                       | \$59,456                                       | \$0  | \$71  |
| Yorba Linda Power Plant<br>Modifications             | 15446     | \$17,125                       | \$17,093                                       | \$0  | \$1   |
| Business Operations<br>Improvement                   | 15484     | \$19,441                       | \$10,540                                       | \$580  | \$302   |

|   |           | Total to Date                  |  | Biennium   | ı to Date   |
|---|-----------|--------------------------------|--|--|---|
| Capital Programs/Appropriations   | Appn. No. | Appn.<br>Amount<br>(\$1,000's) | Costs thru<br>September<br>2022<br>(\$1,000's) | Biennium to<br>Date Planned<br>Expenditures<br>(\$1,000's) | Biennium<br>Actual<br>Expenditures<br>(\$1,000's) |
| Project Controls and Reporting<br>System  | 15490     | \$6,440                        | \$6,307  | \$0  | \$5   |
| Enterprise Content Management   | 15500     | \$3,600                        | \$3,595  | \$480  | \$0   |
| DVL Recreation Rehabilitation & Refurbishment   | 15515     | \$1,030                        | \$972  | \$150  | \$59  |
| Energy Sustainability<br>Improvements   | 15521     | \$27,905                       | \$6,682  | \$140  | \$537   |
| Dams and Reservoirs Reliability<br>Program  | Total     | \$76,514                       | \$69,289                                       | \$600  | \$301   |
| Reservoir Cover and Replacement   | 15417     | \$65,214                       | \$59,587                                       | \$320  | \$219   |
| Dam Rehabilitation & Safety<br>Improvements   | 15419     | \$11,300                       | \$9,702  | \$280  | \$82  |
| Distribution System Reliability<br>Program  | Total     | \$472,162                      | \$376,201                                      | \$14,040   | \$8,073   |
| Conveyance and Distribution<br>System - Rehabilitation                                    | 15377     | \$125,961                      | \$102,581                                      | \$3,070  | \$836   |
| Conveyance and Distribution<br>System - Rehabilitation for<br>FY2006/07 through FY2011/12 | 15441     | \$155,912                      | \$118,347                                      | \$170  | \$2,858   |
| Hydroelectric Power Plant<br>Improvements   | 15458     | \$20,403                       | \$17,425                                       | \$1,950  | \$149   |
| Conveyance and Distribution<br>System - Rehabilitation for<br>FY2012/13 through FY2017/18 | 15480     | \$139,666                      | \$116,682                                      | \$5,710  | \$3,030   |
| Pipeline Rehabilitation and Replacement   | 15482     | \$1,143                        | \$1,033  | \$60   | \$0   |
| Conveyance and Distribution<br>System - Rehabilitation for<br>FY2018/19 through FY2023/24 | 15503     | \$29,077                       | \$20,133                                       | \$3,080  | \$1,200   |

|  |           | Total to Date                  |  | Biennium   | n to Date   |
|--|-----------|--------------------------------|--|--|---|
| Capital Programs/Appropriations  | Appn. No. | Appn.<br>Amount<br>(\$1,000's) | Costs thru<br>September<br>2022<br>(\$1,000's) | Biennium to<br>Date Planned<br>Expenditures<br>(\$1,000's) | Biennium<br>Actual<br>Expenditures<br>(\$1,000's) |
| District Housing & Property Improvements Program   | Total     | \$10,907                       | \$6,813  | \$2,100  | \$263   |
| Employee Village Enhancement   | 15513     | \$10,907                       | \$6,813  | \$2,100  | \$263   |
| Minor Capital Projects Program   | Total     | \$45,500                       | \$19,120                                       | \$2,400  | \$993   |
| Capital Program for Projects<br>Costing Less Than \$400,000 for<br>FY2018/19 through FY2019/20 | 15504     | \$15,500                       | \$11,734                                       | \$650  | \$310   |
| Capital Program for Projects<br>Costing Less Than \$400,000 for<br>FY2020/21 through FY2021/22 | 15518     | \$20,000                       | \$7,103  | \$1,270  | \$400   |
| Capital Program for Projects<br>Costing Less Than \$400,000 for<br>FY2022/23 through FY2023/24 | 15526     | \$10,000                       | \$283  | \$480  | \$283   |
| Prestressed Concrete Cylinder Pipe Rehabilitation Program                                      | Total     | \$346,345                      | \$269,918                                      | \$17,150   | \$2,250   |
| PCCP Rehabilitation and<br>Replacement   | 15471     | \$24,243                       | \$22,722                                       | \$450  | \$48  |
| Sepulveda Feeder PCCP<br>Rehabilitation  | 15496     | \$39,590                       | \$28,412                                       | \$1,000  | \$489   |
| Second Lower Feeder PCCP<br>Rehabilitation   | 15497     | \$266,827                      | \$207,775                                      | \$14,800   | \$1,410   |
| Allen-McColloch Pipeline,<br>Calabasas Feeder, and Rialto<br>Pipeline PCCP Rehabilitation      | 15502     | \$15,685                       | \$11,009                                       | \$900  | \$303   |
| Regional Recycled Water Supply<br>Program  | Total     | \$24,350                       | \$20,304                                       | \$1,150  | \$3   |
| Demonstration-Scale Recycled<br>Water Treatment Plant  | 15493     | \$24,350                       | \$20,304                                       | \$1,150  | \$3   |
| Right of Way & Infrastructure<br>Protection Program  | Total     | \$31,715                       | \$27,573                                       | \$1,410  | \$513   |
| Right of Way & Infrastructure<br>Protection  | 15474     | \$31,715                       | \$27,573                                       | \$1,410  | \$513   |

|  |           | Total to Date                  |  | Biennium   | ı to Date   |
|--|-----------|--------------------------------|--|--|---|
| Capital Programs/Appropriations  | Appn. No. | Appn.<br>Amount<br>(\$1,000's) | Costs thru<br>September<br>2022<br>(\$1,000's) | Biennium to<br>Date Planned<br>Expenditures<br>(\$1,000's) | Biennium<br>Actual<br>Expenditures<br>(\$1,000's) |
| System Flexibility/Supply Reliability Program                                  | Total     | \$679,098                      | \$644,459                                      | \$7,400  | \$2,911   |
| Hayfield and Lake Perris<br>Groundwater Recovery                               | 15402     | \$1,500                        | \$1,116  | \$80   | \$2   |
| Perris Valley Pipeline   | 15425     | \$133,500                      | \$131,427                                      | \$3,550  | \$309   |
| Water Delivery System<br>Improvements  | 15488     | \$82,279                       | \$72,101                                       | \$3,030  | \$2,495   |
| Verbena Property Acquisition   | 15492     | \$264,000                      | \$262,027                                      | \$710  | \$79  |
| Delta Wetlands Properties (Delta<br>Islands)                                   | 15494     | \$197,819                      | \$177,789                                      | \$30   | \$24  |
| System Reliability Program   | Total     | \$448,836                      | \$311,888                                      | \$19,400   | \$4,957   |
| Information Technology System -<br>Infrastructure                              | 15376     | \$51,306                       | \$47,761                                       | \$20   | \$43  |
| Information Technology System -<br>Security                                    | 15378     | \$12,351                       | \$11,009                                       | \$0  | \$194   |
| La Verne Shop Facilities Upgrade   | 15395     | \$71,348                       | \$47,755                                       | \$0  | \$435   |
| Water Operation Control  | 15467     | \$71,359                       | \$42,335                                       | \$1,820  | \$253   |
| Union Station Headquarters<br>Improvements                                     | 15473     | \$107,845                      | \$87,497                                       | \$2,500  | \$1,271   |
| IT Infrastructure Reliability  | 15487     | \$57,968                       | \$38,024                                       | \$3,960  | \$1,231   |
| Operations Support Facilities<br>Improvement                                   | 15495     | \$32,558                       | \$20,349                                       | \$8,700  | \$807   |
| Metropolitan Security System<br>Enhancements                                   | 15499     | \$15,910                       | \$11,282                                       | \$975  | \$230   |
| Infrastructure Reliability Information System                                  | 15501     | \$17,970                       | \$2,982  | \$75   | \$116   |
| System-Wide Paving & Roof<br>Replacements for FY 2020/21<br>through FY 2021/22 | 15516     | \$4,791                        | \$1,762  | \$400  | \$168   |
| System-Wide Paving & Roof<br>Replacements for FY2020/21<br>through FY2023/24   | 15519     | \$1,741                        | \$1,076  | \$200  | \$158   |

|   |           | Total                          | to Date  | Biennium   | n to Date   |
|---|-----------|--------------------------------|--|--|---|
| Capital Programs/Appropriations   | Appn. No. | Appn.<br>Amount<br>(\$1,000's) | Costs thru<br>September<br>2022<br>(\$1,000's) | Biennium to<br>Date Planned<br>Expenditures<br>(\$1,000's) | Biennium<br>Actual<br>Expenditures<br>(\$1,000's) |
| Enterprise Data Analytics   | 15522     | \$3,690                        | \$55   | \$750  | \$50  |
| Treatment Plant Reliability<br>Program  | Total     | \$922,722                      | \$752,076                                      | \$6,669  | \$3,993   |
| Weymouth Water Treatment Plant<br>Improvements                                    | 15369     | \$195,711                      | \$188,336                                      | \$80   | \$196   |
| Jensen Water Treatment Plant<br>Improvements                                      | 15371     | \$47,062                       | \$46,638                                       | \$310  | \$0   |
| Diemer Water Treatment Plant<br>Improvements                                      | 15380     | \$213,657                      | \$208,699                                      | \$1,190  | \$369   |
| Mills Water Treatment Plant<br>Improvements                                       | 15381     | \$5,525                        | \$5,277  | \$0  | \$1   |
| Diemer Water Treatment Plant<br>Improvements for FY2006/07<br>through FY2011/12   | 15436     | \$74,707                       | \$66,202                                       | \$1,900  | \$530   |
| Weymouth Water Treatment Plant<br>Improvements for FY2006/07<br>through FY2011/12 | 15440     | \$138,079                      | \$28,348                                       | \$430  | \$832   |
| Jensen Water Treatment Plant<br>Improvements for FY2006/07<br>through FY2011/12   | 15442     | \$91,376                       | \$84,954                                       | \$1,410  | \$258   |
| Mills Water Treatment Plant<br>Improvements for FY2006/07<br>through FY2011/12    | 15452     | \$39,852                       | \$25,195                                       | \$30   | \$603   |
| Weymouth Water Treatment Plant<br>Improvements for FY2012/13<br>through FY2017/18 | 15477     | \$77,539                       | \$77,014                                       | \$39   | \$56  |
| Diemer Water Treatment Plant<br>Improvements for FY2012/13<br>through FY2017/18   | 15478     | \$1,425                        | \$1,423  | \$120  | -\$13   |
| Mills Water Treatment Plant<br>Improvements for FY2012/13<br>through FY2017/18    | 15479     | \$1,094                        | \$882  | \$0  | \$35  |
| Jensen Water Treatment Plant<br>Improvements for FY2012/13<br>through FY2017/18   | 15486     | \$8,339                        | \$7,485  | \$0  | \$1   |

|   |           | Total to Date                  |  | Biennium to Date   |   |
|---|-----------|--------------------------------|--|--|---|
| Capital Programs/Appropriations   | Appn. No. | Appn.<br>Amount<br>(\$1,000's) | Costs thru<br>September<br>2022<br>(\$1,000's) | Biennium to<br>Date Planned<br>Expenditures<br>(\$1,000's) | Biennium<br>Actual<br>Expenditures<br>(\$1,000's) |
| Weymouth Water Treatment Plant<br>Improvements for FY2020/21<br>through FY2023/24   | 15505     | \$685                          | \$390  | \$0  | \$88  |
| Jensen Water Treatment Plant<br>Improvements for FY2020/21<br>through FY2023/24     | 15508     | \$17,323                       | \$5,842  | \$40   | \$637   |
| Diemer Water Treatment Plant<br>Improvements for FY2020/21<br>through FY2023/24     | 15510     | \$3,758                        | \$914  | \$0  | \$159   |
| Skinner Water Treatment Plant,<br>Improvements for FY 2020/21<br>Through FY 2023/24 | 15512     | \$3,961                        | \$3,680  | \$1,120  | \$43  |
| Mills Water Treatment Plant<br>Improvements for FY2020/21<br>through FY2023/24      | 15520     | \$2,631                        | \$796  | \$0  | \$199   |
| Water Quality Program   | Total     | \$10,240                       | \$9,615  | \$0  | \$0   |
| Enhanced Bromate Control  | 15472     | \$10,240                       | \$9,615  | \$0  | \$0   |
| Total CIP   |           | \$3,785,472                    | \$3,042,612                                    | \$85,339   | \$30,409  |

#### Notes on above table:

- Numbers may not sum due to rounding.
- Numbers are based on the general ledger information downloaded on 10/10/2022.
- \$0 under Planned Expenditures indicate 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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