THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Report

Engineering Services Group

- **Engineering Services Group Monthly Activities Report – July 2026**

Summary

This monthly report provides highlights and a summary of Engineering Services Group activities for July 2026 in the following key areas:

- Colorado River Aqueduct Program
- Dams & Reservoirs Program
- Distribution System Program
- Additional Facilities and Systems Program
- Prestressed Concrete Cylinder Pipe Program
- Water Treatment Plants Program
- Workforce Development
- Drought Mitigation – State Water Project Dependent Areas
- Pure Water Southern California
- Integrated Strategy for Infrastructure Reliability

Purpose

Informational

Attachments

Detailed Report – Engineering Services Group's Monthly Activities for July 2026

Engineering Services' Monthly Activities

July 2026 Highlights

In support of the Board and General Manager's priorities of investing in infrastructure and preparing for an uncertain future, Engineering Services manages and executes projects within the adopted Capital Investment Plan (CIP) to maintain infrastructure resilience, ensure regulatory compliance, enhance sustainability, and provide flexibility in system operations to address uncertain water supply conditions. In addition, Engineering Services provides technical services to enhance reliable system operation and real property planning, valuation, acquisition, and disposition services to protect Metropolitan's assets. Engineering Services also empowers our staff and partners with the communities we serve to accomplish Metropolitan's mission.

Investment in our Existing Infrastructure

As of the end of June 2026, 44 construction and procurement contracts are underway with a total bid amount of approximately $715 million. Three contracts were initiated in June, and two were completed. Recent key activities on CIP programs and other key engineering functions are described below.

Colorado River Aqueduct (CRA) Program

The CRA program includes CIP projects to replace or refurbish facilities and components of the CRA system to reliably convey water from the Colorado River to Southern California.

- **CRA Domestic Water Treatment System —** This project upgrades the domestic water treatment systems at all five CRA pumping plants, including the replacement of the water treatment units. The contractor has installed the temporary treatment skid system at the Intake Pumping Plant. The temporary skid will remain in operation until the new system is installed, tested, and commissioned. Installation of the electrical and mechanical systems to support the new equipment is underway at the Intake Pump Plant. Installation of the temporary skid at Gene Pumping Plant is nearing completion, and a 14-day water quality test will be conducted. Construction is 58 percent complete and is scheduled for completion by December 2028.
- **CRA Main Pump Transformers Procurement —** This project replaces thirty-five 230 kV and 69 kV stepdown transformers that are used to operate the main pumps at all five of Metropolitan's Colorado River Aqueduct pumping plants. The Board awarded a procurement contract and authorized a consulting agreement for final design in May 2025. Submittal reviews are currently underway for the fabrication of the transformers. Final design for the transformer installation is 13 percent complete and anticipated to be complete by March 2027. Transformer deliveries are scheduled to begin in late 2028 and conclude by 2030.
- **CRA Hinds Fuel Dispenser** — This project will replace the existing fuel suction system at the Hinds Pumping Plant with a pressurized system, including pump, fuel dispenser, and associated appurtenances. Final design is complete, and a Board action to award a construction contract is planned for October 2026.

- **Black Metal Mountain Electrical Upgrades** — This project replaces the deteriorated power line serving Black Metal Mountain communication sites 1 and 2 with a new, upgraded line. The project will also rehabilitate the main access road to the communications sites. The final design is 75 percent complete and is scheduled for completion by August 2026.

CRA Domestic Water Treatment System — Intake Pumping Plant
Electrical Installation of Air Compressor and Dryer

Dams & Reservoirs Program

The Dams & Reservoirs Program includes CIP projects to upgrade or refurbish Metropolitan's dams, reservoirs, and appurtenant facilities to ensure reliable water storage and continued regulatory compliance.

- **Copper Basin Discharge Valve Replacement & Access Improvements —** This project includes installation of a new 54-inch fixed cone valve and actuator at the base of the dam, refurbishment of the existing slide gate and valve house, road improvements, and upgrades to associated electrical systems and access ladders at Copper Basin Reservoir. This project will also include replacing access ladders at the Gene Wash Dam. Final design and acquisition of environmental permits is complete. A board action to award a construction contract is planned for November 2026

- **Garvey Reservoir Rehabilitation —** This project will replace the aging reservoir floating cover and liner; strengthen the structure of the reservoir outlet tower to reduce the risk of damage following a major seismic event; and upgrade the reservoir's rainwater collection, pumping, and subdrain systems. The contractor began concrete work on the 4" concrete ribbon between the perimeter curb and anchor curb. Construction is 11 percent complete and is scheduled for completion by September 2028.
- **Lake Mathews Pressure Control Structure (PCS) and Electrical System Upgrades** — This project will replace the aging Lake Mathews discharge facility and electrical system. It includes the construction of a new PCS with a bypass pipeline alongside the existing forebay, a new chlorination facility, and electrical system upgrades to accommodate future power needs. The project utilizes a progressive design-build project delivery method. Negotiations with the selected design-build entity are ongoing. A board action to authorize the Phase 1 agreement is planned for August 2026. The project is anticipated to be complete by 2033.
- **Lake Skinner Outlet Tower Valve Procurement** – This project will replace two 42-inch butterfly valves and actuators at Lake Skinner Outlet Tower with new stainless-steel butterfly valves. Appurtenant piping replacements and other upgrades to the tower may also be necessary. The procurement is currently 95 percent complete, and valves are scheduled for delivery by October 2026.
- **Replacement of Lake Mathews Outlet Tower 2 Valves —** This project will replace thirty 60-inch butterfly valves and actuators at Lake Mathews Outlet Tower #2 with new stainless-steel triple-offset butterfly valves. The existing hydraulic power unit will be rehabilitated or replaced. Appurtenant piping replacements and other upgrades to the tower may also be necessary. The project study is currently 35 percent complete and is scheduled for completion by Fall 2026.

Garvey Reservoir Rehabilitation
Applying Curing Compound on New Concrete Ribbon, Looking West

Distribution System Program

The Distribution System Program includes CIP projects to replace, upgrade, or refurbish existing facilities within Metropolitan's distribution system—including PCSs, hydroelectric power plants, and pipelines—to reliably meet water demands.

- **Service Connection LA-17 Meter Procurement —** The project will replace two flow meters, adjoining thimble pieces, coupling assemblies, and gaskets located in the same vault near the Eagle Rock Operations Control Center. A procurement contract was awarded in December 2025, and the flow meters are scheduled for delivery by September 2026. Staff is planning to install the meters in November 2026.
- **Yorba Linda Pressure Control Structure Valves —** This project will refurbish the existing five control valves at the Yorba Linda Pressure Control Structure. The valves will be rehabilitated sequentially to maintain system operation. The valve in the first chamber was removed for rehabilitation in the spring of 2026. The valve was found to be in good condition, but the elbow and reducer that attach to the valve require replacement. The procurement of materials for the fabrication of new fittings has begun, and fabrication is scheduled to begin in the fall of 2026.

- **Auld Valley Pressure Control Structure (PCS) Valve Replacement —** This project will rehabilitate two 42-inch sleeve valves for the Auld Valley Pressure Control Structure. One valve at the Auld Valley PCS has been rehabilitated, and Metropolitan forces are currently rehabilitating the second. Both valves are scheduled to be installed during the winter 2026 shutdown.
- **Covina Pressure Control Structure (PCS) Valve Procurement —** This project includes removing and replacing six globe valves with actuators at Covina PCS to improve reliability. The globe valves will be advertised in the fall of 2026, with the award of the procurement contract anticipated at the end of 2026.

Additional Facilities and Systems Program

The Additional Facilities and Systems Program includes CIP projects to refurbish, replace, upgrade, or provide new facilities and systems that support Metropolitan's business and district-wide operations.

- **New La Verne Warehouse Improvements —** The new La Verne Warehouse project involves the demolition of two existing warehouse buildings and the construction of a new 60,000 square-foot reinforced concrete tilt-up warehouse with a new loading dock and an additional 30,000 square feet of outdoor canopy storage space. The new warehouse building will include the Central Stores Warehouse and Inventory Control Teams. The building will include a loading dock, conference rooms, offices, a breakroom, public counters for each team, and storage facilities. Preliminary design is underway, and the first draft Preliminary Design Report (PDR) has been submitted and reviewed. A Value Engineering Workshop was conducted in May 2026. The disposition meeting was conducted in July 2026. The final Value Engineering Report will be prepared in July, and recommendations will be incorporated in the final PDR.
- **CRA Aircraft Facilities Improvements Stage 1 —** This project will refurbish the airfield runways with new pavement and access roads at all pumping plants and upgrade the lighting at the Iron Mountain and Eagle Mountain Pumping Plants' aircraft runways. New weather stations will be installed at the Eagle Mountain and Hinds Pumping Plants. Preliminary design is 40 percent complete and is scheduled for completion by August 2026.

Prestressed Concrete Cylinder Pipe (PCCP) Program

The PCCP Program includes CIP projects to refurbish or upgrade Metropolitan's PCCP feeders to maintain water deliveries without unplanned shutdowns.

- **Sepulveda Feeder PCCP Rehabilitation Reach 2 —** This project installs steel lining along 3.8 miles of PCCP in the cities of Torrance and Los Angeles. The Board awarded a construction contract in January 2026. Fabrication of the 81-inch steel liner, setting up the construction trailers, potholing, and permit applications are underway. Construction is 28 percent complete, and completion is expected by mid-2027.
- **Sepulveda Feeder PCCP Rehabilitation Reach 9 —** This project will rehabilitate approximately 3.7 miles of 120-inch to 96-inch diameter PCCP with a combination of solid steel and coiled steel liner systems. Reach 9 is located on Hayvenhurst Avenue from near State Route 118 to just north of Van Nuys Airport in Los Angeles. Additionally, a new 54-inch sectionalizing valve and valve structure

will be installed on the Sepulveda Feeder near the intersection of Hayvenhurst and Chatsworth Street. Final design is 99 percent complete and is scheduled to be completed by October 2026.

Sepulveda Feeder PCCP Rehabilitation Reach 2
81-inch Steel Liners in Line to be Hydro Tested

Water Treatment Plants Program

The Water Treatment Plants Program includes CIP projects to replace or refurbish facilities and components at Metropolitan's five water treatment plants to continue to meet treated-water demands reliably.

- **Weymouth Administration Building Upgrades —** This project upgrades the building to withstand a significant earthquake. The planned upgrades include structural strengthening consistent with current seismic standards for essential facilities; accessibility and fire/life-safety improvements; architectural modifications near the areas of structural upgrades; and improvements associated with the preservation of historic architectural features. The contractor has provided the baseline schedule, equipment, lab, and office trailer submittals. Construction is approximately five percent complete and is scheduled for completion by January 2029.
- **Mills Finished Water Reservoir Rehabilitation** — This project will replace the aging floating covers and liners at the Mills Plant's finished water reservoirs; upgrade the rain removal system, piping, and valving to enhance reservoir operational flexibility and mixing improvements; refurbish the reservoir

slide gates; and install a new drop gate. Final design is approximately 55 percent complete and is scheduled for completion in the spring of 2027.

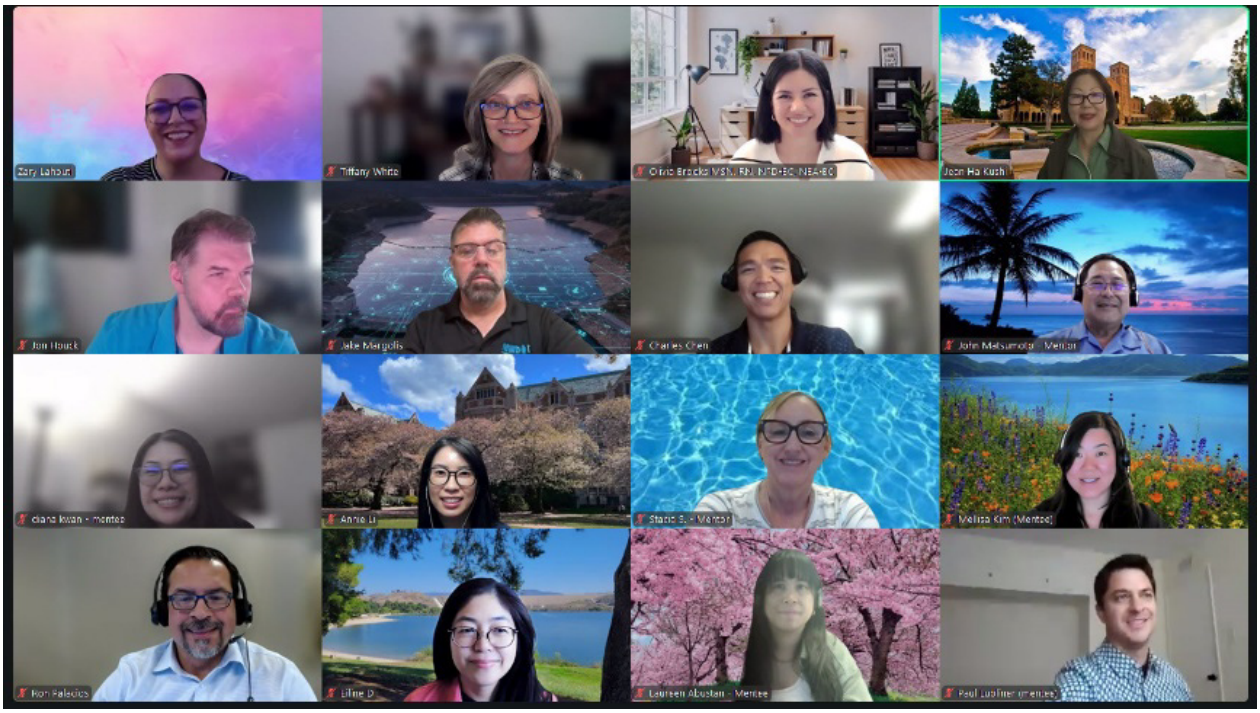
- **Jensen Mechanical Dewatering Facility** — This project will construct a new mechanical dewatering facility at the Jensen Plant, including associated solids-conveyance piping, chemical feed, and electrical and control systems, to improve the plant's residual-solids processing and address its long-term solids-handling needs. The final design is approximately 20 percent complete and is scheduled for completion in the spring of 2027.

Investment in the Workforce

Workforce Development

During this period, several activities reflected Engineering's ongoing commitment to workforce development, innovation, collaboration, employee engagement, and investment in future generations. Through learning opportunities, industry partnerships, and organizational activities, staff are motivated to expand their knowledge, strengthen connections, and support Metropolitan's mission. Below are some highlights from this past month.

- **Engineering Services Mentoring Program** — This month's module, Navigating AI for Success, *was* a virtual session where participants learned about Metropolitan's AI tools, including Copilot and Board Buddy, and explored how artificial intelligence can enhance workplace productivity. Mentoring Program lead coordinator, Zary Lahouti, facilitated this engaging session, along with IT Group's Chief Information Security Officer, Jake Margolis, and Information Technology Architect, Jonathan Houck.
- **All-Staff Meeting** — Engineering Services staff at Union Station participated in an all-staff meeting where leadership provided an update on the General Manager's focus areas, recognized staff career-related achievements, and highlighted staff service anniversaries and major milestones. The meeting also included a safety-focused component in recognition of Safety Awareness Month. An all-staff meeting was held in La Verne in June.
- **Engineering Services Student Intern Program** — A total of ten students began internships to support Metropolitan's capital programs for Fiscal Year 2026-2027. This is an opportunity for sophomore, junior, and senior college students to gain experience in engineering (e.g., design, project management, construction contracts, substructures, or construction management) and real property. Since its inception in 2002, approximately 305 students have participated in the program. Several activities are planned for the interns, including project site visits, a field trip to the Weymouth treatment plant, a tour of DVL, and various project-related meetings, in addition to attending the Engineering, Operations, and Technology Committee meeting. This year's cohort will also benefit from being matched with a Mentor as a part of the Engineering Services Group Mentoring Program.



Engineering Services Mentoring Program
Navigating AI for Success Virtual Session

All-Staff Meeting and Networking Activity

Engineering Services Student Intern Welcome Meeting and Board Introduction

Planning for an Uncertain Future

Drought Mitigation — State Water Project Dependent Areas

The Drought Mitigation—State Water Project Dependent Areas Program includes CIP projects to replace, refurbish, upgrade, or construct new facilities, which are identified to mitigate the vulnerability experienced by specific member agencies that are affected during shortages of State Water Project supplies.

- **Foothill Pump Station Intertie and 132-inch Butterfly Valve Procurement —** This project will connect Metropolitan's Inland Feeder to San Bernardino Valley Municipal Water District's Foothill Pump Station. The project is one of four Rialto Pipeline service area supply reliability improvement projects. Foothill Pump Station will provide the hydraulic lift needed for direct water delivery from Diamond Valley Lake to the Rialto Pipeline. The project will install supply and discharge bypass pipelines, isolation valves, and their vault, and a surge protection system. Final design is complete. Advertisement of the contract is pending the acquisition of the final environmental permits. The project also has a separate procurement contract for a 132-inch butterfly valve. The procurement contract is ongoing, and the valve is scheduled for delivery by mid-2026.
- **Sepulveda Feeder Pump Stations —** This project installs new pump stations at the existing Venice and Sepulveda Canyon pressure control facilities, enabling reverse flow in the Sepulveda Feeder and delivering 30 cubic feet per second from the Central Pool to portions of the western State Water Project exclusive area. This project utilizes the progressive design-build project delivery method. Construction of the Venice Pump Station is approximately 43 percent complete. The contractor has completed the placement of the concrete encasement for the suction piping at Venice and has begun installing the roofing system for the Venice Electrical Building. The contractor has completed the demolition and asbestos abatement of the large tank at the Sepulveda Pressure Control Structure. Negotiations for the guaranteed maximum price for Sepulveda Canyon Pump Station work are ongoing, and board authorization of Phase 2B is planned for September 2026.

Pure Water Southern California

Pure Water Southern California (Pure Water) is a large regional recycled water program that will provide a new local source of safe and reliable drinking water for Southern California. Pure Water currently focuses on five areas: program management, environmental planning, advanced water purification facility (AWPF) planning, demonstration testing, and preliminary design of initial pipeline reaches. Pure Water will produce up to 150 million gallons per day of purified water from the AWPF in Carson for indirect potable reuse (IPR) and direct potable reuse (DPR) applications.

- **Program Management** — Program management activities include project controls, scheduling, budget development, risk management, coordination with program partners and stakeholders, grant and funding management, and preparation of various plans and studies. The Pure Water program management team was engaged in the following activities during this reporting period:

  - Continued coordination and grant reporting efforts with the United States Bureau of Reclamation (USBR) for the $125,472,855 Large-Scale Water Recycling Program grant and the $5 million WaterSmart Title XVI Planning Grant. Metropolitan has received a total of approximately $28.7 million to date. Staff is working with USBR to amend the grant agreement to realign project scope and extend the period of performance.
  - The $80 million state grant is also used to support the current phase of program work; approximately $60.2 million has been spent as of the end of June.
  - Continued to coordinate with the CAMP4W assessments.

- **Environmental Planning** — In February 2026, Metropolitan's Board certified the program's final EIR and approved PWSC for CEQA purposes. Staff plans to prepare a NEPA document to address the realigned project scope to be funded by USBR's Large-Scale Water Recycling Program grant.
- **Advanced Water Purification Facility** — The AWPF will purify treated wastewater from the Los Angeles Sanitation District's (Sanitation Districts') A.K. Warren Water Resource Facility using membrane bioreactors (MBR), reverse osmosis, and ultraviolet/advanced oxidation. With its expertise in biological wastewater treatment, the Sanitation Districts will be responsible for implementing the AWPF pretreatment, including the MBR facilities. A final draft of the Conceptual Facilities Report has been prepared. This document records key assumptions of AWPF components and will be used to prepare upcoming RFQs for progressive design-build contracts later this year.
- **Demonstration Testing —** Staff continued testing the IPR processes and planning for expansion for DPR testing. Market-sounding interviews were conducted with contractors to gauge industry interest in an alternative delivery approach, such as a Construction Manager/General Contractor (CM/GC), to procure and install the DPR testing equipment and construct the necessary facilities. DPR testing equipment will include membrane filtration, reverse osmosis, UV/AOP, ozone with granular and biological activated carbon, a lime stabilization system, and a carbon dioxide system. An advertisement for a CM/GC contract is anticipated this summer. An RFQ for the selection of the CM/GC contractor is expected to be advertised in summer 2026, with a board action to award the contract in spring 2027. The facility is expected to be online in 2029. Information from this DPR testing will allow Metropolitan to assess both treated-water and raw-water augmentation alternatives.
- **Conveyance System —** The PWSC Conveyance Facilities Conceptual Design Report for the entire conveyance system has been completed and is available on Metropolitan's public website: https://www.mwdh2o.com/building-local-supplies/pure-water-southern-california/technical-resources/. In addition, preliminary designs of Reaches 1 and 2 through the cities of Carson, Long Beach, and Lakewood are underway. Preparation of bid documents is also underway for one or more CM/GC firms for the first two reaches. In addition, staff recently authored a technical paper, presented at the North American Tunneling Conference in Anaheim in June. It was published in the June issue of Tunneling and Underground Construction magazine.

Integrated Strategy for Infrastructure Reliability (ISIR)

In April 2025, Metropolitan staff initiated a series of workshops to foster collaboration with member agencies and to develop broad agreement on a pathway to enhance regional reliability, focusing on new infrastructure needs and system improvements. These workshops are intended to develop an ISIR. Multiple workshops

have been conducted to date, during which staff and member agency representatives developed the process goals and objectives, discussed methodologies, reviewed relevant infrastructure development policies, and provided updates on ongoing activities.

The overall planning effort is expected to be a two-year process, during which staff will propose an integrated strategy, including recommendations for policy adjustments and future infrastructure investments. The ISIR workshop series with member agencies is ongoing, and staff will provide periodic updates to the Board and seek feedback.

On June 12th, 2026, Metropolitan conducted workshop number 5, where the following topics were discussed:

- Equitable Supply Reliability Projects
    - Regional Conveyance Improvements
    - South of Delta Surface Storage
    - Seawater Desalination
    - Sepulveda Feeder Pump Project Stage 2
    - Reliability Analysis
- Systemwide Studies Update
    - System Flexibility Study
    - Operational System Overview Study
- Infrastructure Policies Reference Guide
- Strategic Infrastructure Resilience Plan Update