



# The Metropolitan Water District of Southern California General Manager's Monthly Activity Report for August 2018

This report identifies the actions and activities taking place during the month that support the objectives of the General Manager's Fiscal Year 2018/19 Strategic Priorities and the Core Business of the GM's work groups.

AUGUST 31, 2018

## External Affairs

On August 24, Metropolitan sponsored bewaterwise.com night at the Los Angeles Dodgers game against the San Diego Padres to promote water conservation and the 365 Save Water Every Day outreach campaign. As part of the partnership, a "Groundskeeper of the Game" was recognized during the pregame to showcase the water-wise methods used at the stadium. Chairman Record threw out the ceremonial first pitch and 40,000 fans in attendance received a cooling towel premium giveaway, co-branded with the Dodgers and bewaterwise.com. Metropolitan staffed a booth at the stadium to share information about water-saving tips and available rebates. Metropolitan will be featured at several other games and participate in the Viva Los Dodgers event later this season as part of the sponsorship.



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# ADMINISTRATIVE SERVICES SECTION

## CORE BUSINESS: Business Processes

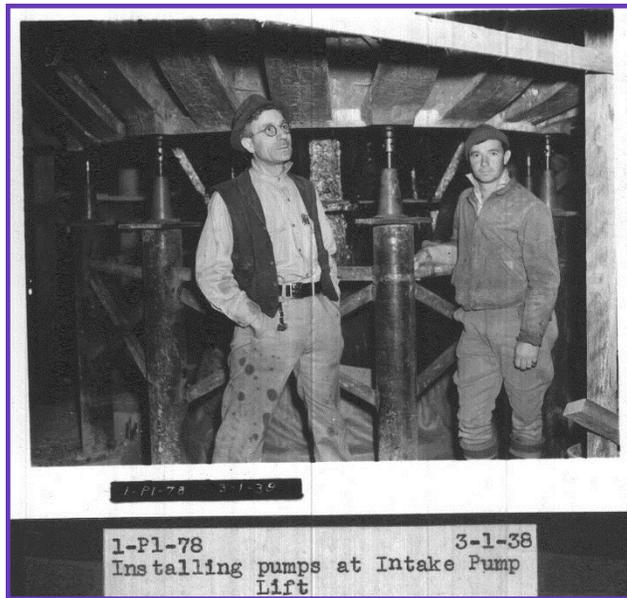
Advance value-added business process improvements to increase effectiveness and efficiency while striving for innovation, flexibility, and integration with technology.

### Contracting Services Unit accomplishments for Fiscal Year 2018/19

Contracting Services Unit was awarded the 2018 Achievement of Excellence in Procurement Award for the 12th straight year. A national award given to select agencies, Metropolitan is one of 47 agencies in California and one of 29 special districts in U.S. and Canada to receive this award.

### Records Management and Imaging Services

The Records Management and Imaging Services team worked with two student interns to review 78 compact disks containing more than 76,000 images to validate meta-data, uploaded 524 photographs into Cumulus (image database), and scan 96 glass slide images. Among the highlights of this work were collections of Walt Preston with Huell Howser, the Joseph Jensen 1965 Salute Dinner, and the initial April 3, 1970 construction ceremony for the Joseph Jensen Water Treatment Plant. *(see photo right)*



CRA workers installing pumps at the Intake Pump lift on 03/01/1938. The Negative Code of 1-PL-78 indicates that this subject is the Whitsett Intake plant.

## BAY-DELTA INITIATIVES GROUP

### GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

Southern California's foundational water supply remains the Colorado River and the State Water Project and their ongoing reliability is critical for the region. Important decisions on both supplies need to be made over the next two years.

**Objective:** Collaborate with the state and other state and federal water agencies in pursuing the implementation and construction of California WaterFix.

The Delta Conveyance Design and Construction Authority (DCA) held a meeting on August 16. The DCA Board adopted several resolutions establishing policies for the newly formed agency including bylaws, Ethics Policy, Investment Policy, and a Protest Policy for competitive bidding solicitations. The Delta Conveyance Finance Authority also met on August 16. At this meeting, actions included approving an operating budget of \$550,000 for the current fiscal year and approving resolutions adopting Debt Management and Investment Policies

The State Water Resources Control Board (SWRCB) proceedings for the California WaterFix petition for additional point of diversion are ongoing. The evidentiary portion of Part 2 of the hearings, which consider the effects of the proposed project on fish and wildlife, concluded on April 25, 2018. The rebuttal phase of the hearing started on August 2. Staff provided testimony addressing the modeling analyses to support the permit applications and the existing conditions of listed species in the Bay Delta.

## BAY-DELTA INITIATIVES GROUP

### GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability continued...

**Objective:** Provide leadership on scientific studies that further opportunities to sustain and support native species and habitat.

The experimental operation of the Suisun Marsh Salinity Control Gates, as part of the state's Delta Smelt Resiliency Strategy, started on August 1 and continued through the end of August. The operation lowers salinity in Suisun Marsh in an effort to create more hospitable habitat for Delta smelt. The California Department of Water Resources will conduct monitoring to examine Delta smelt distribution, as well as monitor habitat parameters such as water quality, flow, plankton, and clams. The State Water Contractors are supplementing DWR's operations and monitoring program with additional monitoring to further evaluate the potential benefits of the project for Delta smelt.

A scientific paper co-authored by Metropolitan staff Corey Phillis and David Fullerton in collaboration with consultants at ESSA Technologies Ltd. was accepted at the peer-reviewed journal *Limnology & Oceanography*. The manuscript systematically reviews and retests relationships describing how fish populations respond to environmental variables in the Bay-Delta. The study finds that the variables used for regulatory actions have diminished value as policy tools.

### CORE BUSINESS: Bay-Delta Solutions

Develop and pursue near- and long-term solutions that will ensure improved water quality and water supply reliability. Efforts include providing leadership for proposed Delta improvements, participating in on-going federal and state Bay-Delta regulatory processes, effectively managing studies and research activities that promote collaborative science, identifying opportunities for Delta Islands land management, and monitoring Delta levees performance to ensure long-term levees integrity.

**Objective: NEAR-TERM DELTA ACTIONS**—Develop and implement near-term measures, compatible with long-term Delta solutions to support regulatory processes that improve water quality and water supply reliability. Near-Term Actions include important efforts such as Regulatory, Planning, and Legislative Support; Science Development, and Emergency Preparedness Planning and Implementation.

#### a. Regulatory, Planning, and Legislative Support

#### State Water Resources Control Board

The SWRCB held a public meeting on August 21 and 22 to receive oral public comments on proposed amendments to the Bay-Delta Water Quality Control Plan (WQCP) for the Lower San Joaquin River and Southern Delta as part of the Phase I process. The draft final proposal would update water flow objectives in the Lower San Joaquin River and its major tributaries (the Stanislaus, Tuolumne, and Merced Rivers). Staff developed and submitted comments on the proposed WQCP amendments on July 27, 2018. After two full days of public comment, the SWRCB announced it will reconvene on the topic on November 7, 2018.

#### **Objective: NEAR-TERM DELTA ACTIONS**—b. Science Development

In August, the CSAMP Policy Group developed a set of priorities for 2019-2020 focused on Delta smelt and salmon actions, development of integrated science plans for Delta smelt and salmon and continuing the development of structured decision making tools. Staff also participated in CAMT and salmon subcommittee discussions on the feedback received at the CAMT Salmon Research Workshop held in June 2018.

Staff met with the Centerville Schoolhouse Workgroup, which is a group of stakeholders committed to ensuring the future of Butte Creek's population of spring-run Chinook salmon. The meeting focused on discussion of four

## BAY-DELTA INITIATIVES GROUP

### CORE BUSINESS: Bay-Delta Solutions continued...

#### Objective: NEAR-TERM DELTA ACTIONS—b. Science Development

scenarios that could occur if Pacific Gas and Electric (PG&E) sells the DeSabra-Centerville Hydroelectric Project. These scenarios which range from keeping the project as-is to decommissioning options. Metropolitan contributed to restoration efforts on Butte Creek as a result of the Bay-Delta Accord in December 1994.

#### Objective: NEAR-TERM DELTA ACTIONS—c. Emergency Preparedness Planning and Implementation

##### Delta Flood Emergency Management Plan

In August, DWR completed a series of workshops with their executive, engineering, and operations staff to coordinate final input to the Delta Flood Emergency Management Plan (DFEMP). DWR plans to use in-house and consulting staff to prepare a final DFEMP in fall 2018.

DWR also completed analysis in August to determine optimum volume and timing of reservoir releases from the Sacramento and San Joaquin River reservoirs to support freshwater pathway development and export resumption. The U.S. Army Corps of Engineers has assigned a new emergency operations manager to participate in Delta flood emergency management and implementation with federal and state agencies.

## CHIEF FINANCIAL OFFICER GROUP

### CFO STRATEGIC PRIORITY: Maintain Strong Financial Position

Provide timely and discerning financial analyses, planning, and management to ensure that forecasted revenues are sufficient to meet planned expenses and provide a prudent level of reserves consistent with Board policy.

#### Objective: Manage risk to protect Metropolitan's assets against exposure to loss.

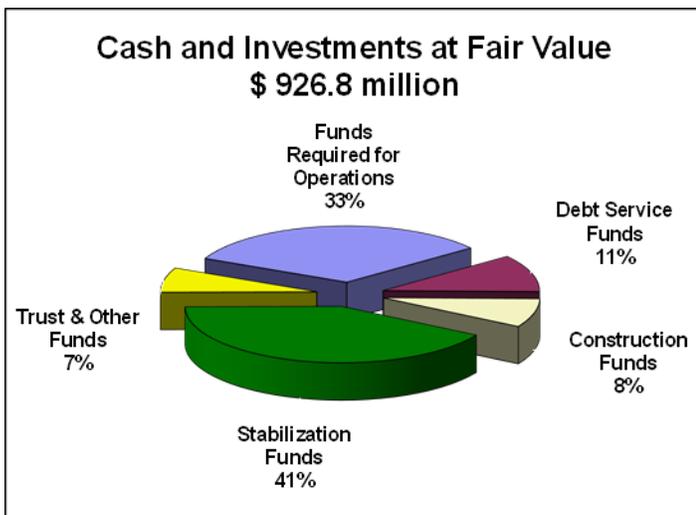
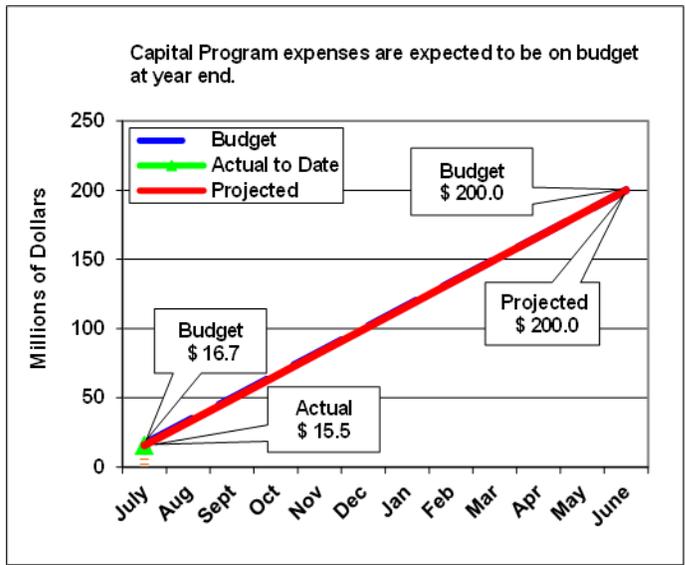
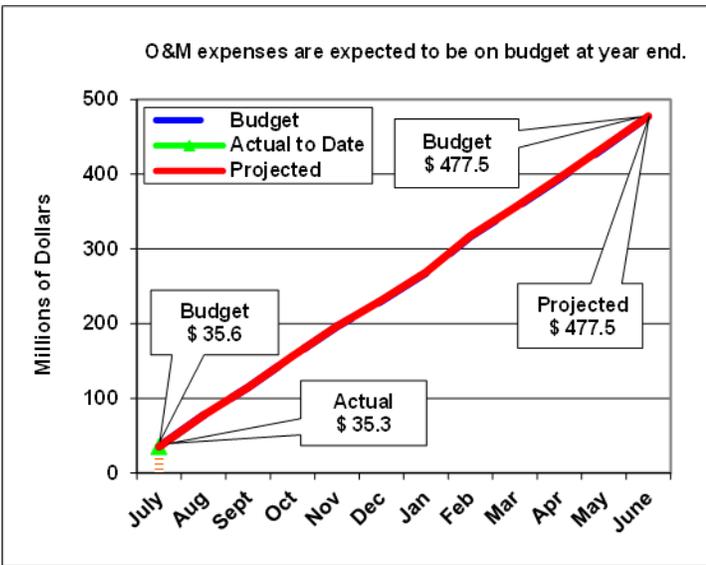
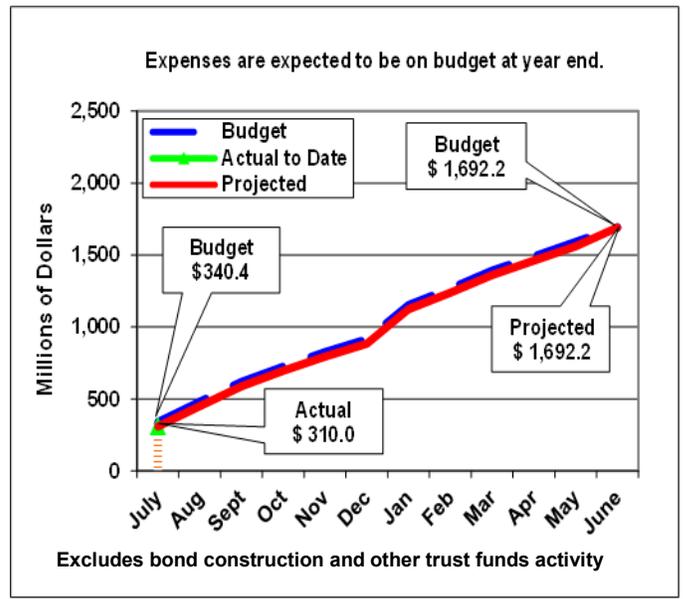
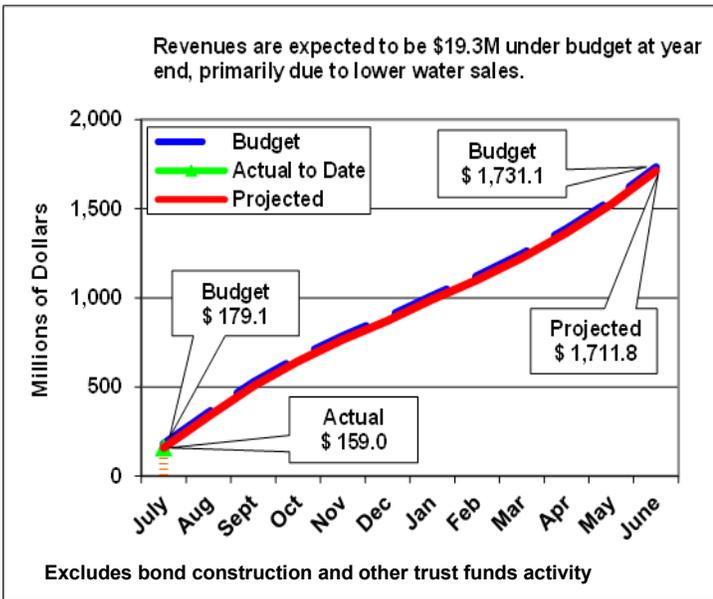
The Risk Management Unit completed 51 incident reports communicating instances of Metropolitan property damage, liability, workplace injuries, regulatory visits, and spills.

Risk Management completed 63 risk assessments on contracts, including professional service agreements, construction contracts, entry permits, special events, and film permits.

#### Objective: Establish rates and charges to maintain moderate overall rate increases, minimize variability, and recover costs consistent with Board policy.

In August, the Board adopted a resolution maintaining Metropolitan's ad valorem tax rate at 0.0035 percent of assessed property values, which is anticipated to generate \$125.3 million in revenues. The certified assessed property valuations for Metropolitan's six-county service area total \$2.9 trillion for fiscal year 2018/19.

FINANCIAL SUMMARY AS OF JULY 31, 2018



Summary Financial Statistics

	Target	Year-End Projected
Fixed Charge Coverage	≥ 1.20 x	1.41 x
Revenue Bond Coverage	> 2.00 x	1.56 x
Revenue Bond Debt / Equity Ratio	< 100.0%	61.1%

Senior Lien Revenue Bond Credit Ratings

	Target	Year-End Projected
- Moody's Investors Service	Aa2	Aa1
- Fitch Ratings	AA	AA+
- Standard & Poor's	AA	AAA

## CHIEF FINANCIAL OFFICER GROUP

### CORE BUSINESS: Financial Management

Manage Metropolitan's finances in an ethical and transparent manner and provide consistent, clear, and timely financial reporting. Update Metropolitan's capital financing plans and work with rating agencies and investors to communicate Metropolitan's financial needs, strategies, and capabilities thus ensuring Metropolitan has cost-effective access to capital markets and the ability to finance ongoing future needs. In addition, actively manage Metropolitan's short term investment portfolio to meet ongoing liquidity needs and changing economic environments.

**Objective:** Update capital financing plans and work with rating agencies and investors to communicate financial needs and capabilities, ensure cost-effective access to capital markets, and maintain long-term bond ratings of AA or better.

In August 2018, Metropolitan entered into a Note Purchase and Continuing Covenant Agreement with Bank of America, N.A. (the 2018 BANA Agreement) to provide gap funding for costs related to California WaterFix. In August, Metropolitan drew \$7.8 million and will have similar monthly draws on the 2018 BANA Agreement over the next ten months.

## ENGINEERING SERVICES GROUP

### GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

Metropolitan's vast network of aqueducts, pipelines, pumps and treatment facilities are the backbone of Southern California's regional water system. However, this vital infrastructure is aging and heightened reinvestment in this system is essential to ensure Metropolitan can continue to deliver on its promise of reliability in the coming decades.

**Objective:** Manage and execute Board-authorized projects within the Capital Investment Plan (CIP) to ensure the reliable delivery of water to Metropolitan's member agencies.

#### Distribution System Reliability Program

This program maintains reliable water deliveries through specific repair and rehabilitation projects on Metropolitan's pipelines, reservoirs, and control structures. Recent activities include the following:

- Jensen Finished Water Reservoir No. 2 Cover Replacement. This project replaces the floating cover and liner at the Jensen plant's Reservoir No. 2 and improves the existing inlet configuration for the reservoir. Preliminary design is 78 percent complete and is scheduled to be complete by December 2018.
- Mills Finished Water Reservoir Rehabilitation. This project rehabilitates the Mills plant's two finished water reservoirs, including replacement of the floating covers and liners, refurbishment or replacement of existing shutoff gates, installation of a new drop gate, and installation of enhanced security

features. Preliminary design is 78 percent complete and is scheduled to be complete by December 2018.

- Valley View Hydroelectric Power Plant Rehabilitation. This project refurbishes deteriorated components of the generator at Valley View Hydroelectric Plant and rehabilitates auxiliary systems at the facility. Rehabilitation is proceeding in two stages: Stage 1 will perform immediate repairs to the generator to enable the plant to return to operation, and Stage 2 will address long-term improvements needed for auxiliary systems at the plant. The Stage 1 work is 55 percent complete and is scheduled to be complete by November 2018, while preliminary design of the Stage 2 improvements is 23 percent complete and is scheduled to be complete by February 2019.
- Lake Mathews and Lake Skinner Dam Upgrades. This project conducts comprehensive evaluations

## ENGINEERING SERVICES GROUP

### GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

**Objective:** Manage and execute Board-authorized projects within the Capital Investment Plan (CIP) to ensure the reliable delivery of water to Metropolitan's member agencies.

for improvements to the spillways and appurtenant structures at Lake Mathews and Lake Skinner, and upgrades the dam monitoring systems at both facilities. These facilities are under the jurisdiction of the California Division of Safety of Dams. The comprehensive assessment of the two spillways and the outlet tower at Lake Skinner is 25 percent complete and is scheduled to be complete by December 2018. Preliminary design of the monitoring system upgrades at both facilities is 20 percent complete and is scheduled to be complete by February 2019.

- Lake Mathews Forebay Lining and Tower Repairs. This project repairs the outlet tower and concrete lining at the Lake Mathew forebay. These repairs will improve the reliability of water deliveries through the Upper and Lower Feeders to the Weymouth and Diemer plants. Construction is 95 percent complete and is scheduled to be complete by October 2018. *(see photo below)*
- Orange County Region Service Center. This project constructs a new 12,000 sq. ft. permanent service center for the Orange County operating region. The existing service center was removed in 2008 to provide space for the Oxidation Retrofit Program construction. Construction is 10 percent complete and is scheduled to be complete by December 2019.



Lake Mathews Forebay Lining and Tower Repairs – Installation of brace supports for the Outlet Tower platform

- Service Connection A-06 Meter Replacement. This project rehabilitates a service connection on the East Orange County Feeder No. 2. Final design is ten percent complete and is scheduled to be complete by April 2019.
- Electrical Upgrades of 15 Structures in OC Region. This project replaces deteriorated electrical components at 15 service connection structures within the Orange County operating region. Design is complete and a request to the Board for award of a construction contract is planned for November 2018.
- Service Connection CENB-29 Equipment Relocation. This project relocates piping and above-ground panels for Service Connection CENB-29 on the Lower Feeder. Construction is 99 percent complete and is scheduled to be complete by December 2018.
- Palos Verdes Reservoir Rehabilitation. This project replaces the reservoir's existing floating cover and liner and modifies the existing spillway, control tower, and outlet structures. Construction is 90 percent complete and is expected to be complete in late 2018. *(see photo below)*



Palos Verdes Reservoir Rehabilitation – Installation of chemical piping

## ENGINEERING SERVICES GROUP

### GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

**Objective:** Manage and execute Board-authorized projects within the Capital Investment Plan (CIP) to ensure the reliable delivery of water to Metropolitan's member agencies. **Continued...**

#### Right-of-Way and Infrastructure Protection Program

This program performs needed site improvements throughout the distribution system, including erosion protection for pipelines and access roads. It also addresses right-of-way issues such as access easements and third-party encroachments, and obtains long-term programmatic environmental permits to enable system-wide improvements. Recent activities include the following:

- Orange County Operating Region. Final design of improvements is divided into two specification packages. The first package was completed in December 2017, while the second was completed in May 2018. Preparation of environmental documentation is complete, and permit applications for both packages have been submitted to the California Department of Fish and Wildlife (CDFW) and the U.S. Army Corps of Engineers for review. Staff received a draft permit from CDFW and is preparing a response to address proposed restrictions and requirements. Permit applications are expected to be issued by the permitting agencies by October 2018.
- Western San Bernardino County Operating Region. Final design of improvements is 80 percent complete and is scheduled to be complete in late 2018. The draft programmatic environmental impact report for this region is planned to be released for public review in January 2019.
- Riverside/San Diego County Operating Region. Preliminary design of improvements was completed in August 2018.
- Los Angeles County Operating Region. Preliminary design of improvements was completed in August 2018.

#### Prestressed Concrete Cylinder Pipe (PCCP) Reliability Program

This program was established to enhance the reliability of Metropolitan's water distribution system and to reduce the risk of costly emergency repairs of PCCP pipelines. The priority pipelines included in the program are the Second Lower Feeder, Sepulveda Feeder, Calabasas Feeder, Rialto Pipeline, and the Allen-McColloch Pipeline. Recent activities include the following:

- Second Lower Feeder PCCP Rehabilitation. This project rehabilitates the remaining 28 miles of PCCP segments within the Second Lower Feeder. Final design of Reach 4 is complete and a request to the Board for award of a construction contract is planned for October 2018. Final design of Reaches 2 and 3 is 75 percent complete and are scheduled to be complete by January 2019.
- Second Lower Feeder Pipe Fabrication. Fabrication of steel liner pipe for the next two reaches will provide approximately 21,100 feet of 75-inch-diameter welded steel liner pipe. Fabrication is 20 percent complete and the initial delivery of pipe for Reach 4 is scheduled to be complete by November 2018.
- Second Lower Feeder Shutoff Valve Procurement. This contract provides 216 shutoff valves that will replace deteriorated valves along the length of the Second Lower Feeder. These valves range in diameter from 4 inches to 16 inches and are used to control and isolate flow at air release/vacuum valve locations, dewatering vaults, and blowoff structures. Delivery of 150 valves is scheduled for September 2018. The remaining 66 valves will be delivered by September 2019.

## ENGINEERING SERVICES GROUP

### GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

Objective: Manage and execute Board-authorized projects within the Capital Investment Plan (CIP) to ensure the reliable delivery of water to Metropolitan's member agencies. **Continued...**

#### Treatment Plant Reliability Program

This program was initiated to maintain reliability and improve the operating efficiency of Metropolitan's water treatment plants through specific improvement projects. Recent activities include the following:

##### Weymouth Plant

- Weymouth West Washwater Tank Seismic Upgrades. This project performs seismic strengthening and refurbishment of the west washwater tank at the Weymouth plant. Construction is 14 percent complete and is scheduled to be complete by May 2019.

##### Diemer Plant

- Administration Building Seismic Upgrades. This project performs seismic and fire safety upgrades on the Administration Building at the Diemer plant. Construction is 97 percent complete and is scheduled to be complete by September 2018.

#### Colorado River Aqueduct (CRA) Reliability Program

This program maintains the reliability of Metropolitan's CRA conveyance system. Recent activities include the following:

- CRA Domestic Water Distribution System Replacement. This project replaces the potable water distribution systems at all five pumping plants. The project will replace 8.5 miles of main line piping and building laterals and will add new backflow prevention devices, valves, meters, and remote water quality analyzers. Final design for the Hinds and Eagle Mountain Pumping Plants is 88 percent complete and is scheduled to be complete by January 2019. Final design for the Gene and Iron Mountain Pumping Plants is 58 percent complete and is scheduled to be complete by July 2019. Final design for Intake Pumping Plant is 13 percent complete and is scheduled to be complete by December 2019.
- 6.9 kV Switch House Building Seismic Upgrades. This project performs structural upgrades to the 6.9 kV switch house at each CRA pumping plant. Construction was completed in August 2018.
- Employee Housing Rehabilitation. These projects perform comprehensive improvements to Metropolitan-provided employee housing at the CRA pumping plants. Construction was completed in June 2018. Project No. 2 refurbishes 89 houses that require minor or moderate levels of renovation. The initial construction is focusing on 11 houses under a pilot program. This work is 38 percent complete and is scheduled to be complete by July 2019.
- CRA Uninterrupted Power Supply Replacement. This project replaces the uninterruptible power supply systems at the five CRA pumping plants. Each plant has a UPS system to prevent fluctuations in power quality and to serve as a backup in case of loss of power. Construction is 10 percent complete and is scheduled to be complete by May 2019.
- Intake Power Line and Communication Replacement. This project relocates a power transmission line that serves Intake Pumping Plant and several remote CRA facilities. Construction is five percent complete and is scheduled to be complete by June 2019.
- Auxiliary Power System Rehabilitation at Iron Mountain Pumping Plant. The auxiliary system provides power to support critical equipment such as discharge valves, station power, and systems that cool the main pumps. Preliminary investigations for Hinds, Eagle Mountain, Gene, and Intake Pumping Plants are 20 percent complete and are scheduled to be complete by April 2020. Preliminary design for Iron Mountain Pumping Plant is 10 percent complete and is scheduled to be complete by May 2019.

## ENGINEERING SERVICES GROUP

### GM STRATEGIC PRIORITY: Maximize Local Resources

**Objective:** Develop and support opportunities to collaborate with other agencies to enhance local water supplies.

#### Regional Recycled Water Program

- **Advanced Water Treatment Demonstration Plant.** This project constructs a 0.5 mgd demonstration facility on the grounds of the Los Angeles County Sanitation District's Joint Water Pollution Control Plant. The demonstration facility will collect data for regulatory acceptance of the proposed process train for a full-scale recycling plant, and will enable testing that will optimize the treatment process. Construction is 60 percent complete and is scheduled to be complete by the end of 2018.

## ENVIRONMENTAL PLANNING SECTION

**GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency**  
Metropolitan's vast network of aqueducts, pipelines, pumps and treatment facilities are the backbone of Southern California's regional water system. However, this vital infrastructure is aging and heightened reinvestment in this system is essential to ensure Metropolitan can continue to deliver on its promise of reliability in the coming decades.

**Objective:** Provide planning, CEQA/NEPA (National Environmental Policy Act), and regulatory permitting support for enhancement of infrastructure, safety, security, and resiliency.

#### CEQA/NEPA

- Finalized Addendum No. 2 for the Orange County Feeder Reach 2 construction.
- Reviewed and commented on the first draft of the biological technical report for the San Gabriel Tower Improvements Project.

#### Regulatory Permitting and Compliance

- Continued negotiations with CDFW on the Orange County Right of Way and Infrastructure Protection Program (RWIPP) SAA and continued to support U.S. Fish and Wildlife Service (USFWS) in the preparation of the Biological Opinion for the program.
- Continued coordination with the Coastal Commission in support of their coastal permit application for the Orange County Blowoff Rehabilitation Project. and to secure a hearing date for the project approval.
- Reviewed the Draft Incidental Take Permit for the Foothill Feeder Shutdown and coordinated with CDFW to finalize permit conditions.

### GM STRATEGIC PRIORITY: Promote Environmental Stewardship and Sustainability

Metropolitan will continue to lead with programs that promote actions that support sustainable practices, reduce greenhouse gas emissions and protect natural habitat and water quality.

**Objective:** Integrate principles and practices of resource and habitat protection into capital projects, operations and maintenance activities, and management and maintenance of Metropolitan's lands.

Finalized a cooperative project with the Southern California Gas Company as mitigation for their pipeline installation through the back entrance to the Jensen water treatment plant. The Jensen Stormwater Park integrates the use of native plants with stormwater irrigation

## ENVIRONMENTAL PLANNING SECTION

### GM STRATEGIC PRIORITY: Promote Environmental Stewardship and Sustainability continued...

**Objective:** Continue to actively manage Metropolitan's conservation lands through cooperative relationships with public agencies and non-governmental conservation organizations.

#### Southwestern Riverside County Multi-Species Reserve

Provided environmental monitoring during the installation of speed dots for vehicle speed control and wildlife crossing signs along Angler Avenue in preparation for nighttime vehicle use of the road to the Diamond Valley Lake marina. (see photo right)

#### Lake Mathews Reserve

Coordinated archaeological testing at the Lake Mathews Reserve and reviewed the Natural Environmental Study prepared by Riverside County in support of the Cajalco Road Widening Project.



**Objective:** Continue cultural resources planning and education to protect and preserve the historic legacy of Metropolitan.

- Mapped all known archaeological resources at Diamond Valley Lake and the Southwestern Riverside County Multi-Species Reserve.
- Coordinated with External Affairs and Records Management for the new museum exhibit to be located in the lobby at the Headquarter Building.
- Reviewed and approved an archeological report and initiated Native American consultation for the West Valley Feeder No. 1, Stage 3, Improvements Project.

### CORE BUSINESS: Business Processes

**Objective:** Provide timely and professional planning services and CEQA and regulatory support to Engineering Services, Water System Operations, Water Resource Management, External Affairs, and Real Property.

#### CEQA Clearances

- Provided environmental planning clearances for 5 WSO projects, 2 Real Property actions, and 12 board letters.
- Submitted the Administrative Draft CEQA/NEPA document for the proposed Dennis Underwood Conservation Area to Legal for review.

#### Construction Monitoring

- Continued construction mitigation monitoring for the Diemer Filter Outlet Conduit Seismic Upgrades Project, Whitewater Colorado River Aqueduct Erosion Protection Project, Palos Verdes Reservoir Upgrades Project, Garvey Reservoir Permanent Drainage and Erosion Control Project, Orange County Conveyance and Distribution Team Maintenance Building, and the Prestressed Concrete Cylinder Pipe Second Lower Feeder Relining Project – Package I.

# ENVIRONMENTAL PLANNING SECTION

## CORE BUSINESS: Business Processes

Objective: Provide timely and professional planning services and CEQA and regulatory support to Engineering Services, Water System Operations, Water Resource Management, External Affairs, and Real Property. Continued...

### WSO Support

- Conducted three training sessions about desert tortoise to consultants and Metropolitan staff working on desert projects.
- Conducted biological surveys in support of WSO activities and dewatering events at several locations, including Etiwanda Pipeline Station 167+62, Garbani Agricultural Pump Station, and the chlorine house in San Jacinto.
- Monitored desert tortoise fencing at the west Iron Mountain tailings pile processing site to allow the sorting of material at the site. *(see photo right)*
- Provided environmental construction monitoring for repair of eroded berms along the Colorado River Aqueduct in the East San Andreas area.

### Miscellaneous

Discussed career opportunities in the environmental field and staffs' role at Metropolitan to a group of high school students enrolled in the Nature Conservancy's Leaders in Environmental Action for the Future program. *(see photo below)*

### External Project Review

Commented on 26 CEQA notices for various external projects that may impact Metropolitan facilities and/or operations.



Desert tortoise fencing installed at the west Iron Mountain tailings pile processing site



Staff and high school students enrolled in the Nature Conservancy's Leaders in Environmental Action for the Future (LEAF) program with their mentors.

## EXTERNAL AFFAIRS GROUP

### EXTERNAL AFFAIRS PRIORITY: Advance Initiatives to Educate and Inform the Public, Elected Officials and Stakeholders on Water Supply Conditions and Important Water Management Decisions.

External Affairs will develop and maintain relationships with the public, legislative leaders, government officials, non-governmental organizations, and other stakeholders, and implement effective and diverse communication and outreach strategies on the value of water, current water supply conditions, innovative strategies to address current and future challenges, and the importance of Metropolitan actions and leadership to promote stewardship, planning and investments to benefit the region.

**Objective:** Recognizing there is a new normal that is directly impacting California water conditions, driven in part by more volatile supply conditions due to climate change, inform key stakeholders, news media, businesses and the public on the need for sustained conservation actions, support for new water supply projects and continued investment in imported water systems to maintain water supply reliability and protect the environment.

General Manager Kightlinger and Metropolitan staff participated in the National Water Resources Association Western Water Seminar. GM Kightlinger participated in the keynote session panel with fellow Basin States general managers to discuss critical Western water issues. *(see photo right of panel)*



### CORE BUSINESS: Legislative, Communications, Community Relations, Public and Business Outreach

Engage the public, labor, business community, agriculture, government leaders, non-governmental organizations and other stakeholders in California's water issues, communicating Metropolitan's interests and Board-adopted policies through federal and state legislative strategies, multimedia and multi-cultural communications, and educational and other outreach programs. Inform the public about Metropolitan projects, facilities, operations and initiatives to gather input and support, foster competitive and diverse business opportunities, and facilitate innovation and technology sharing.

**Objective:** LEGISLATIVE SERVICES - Develop and implement local, state and federal legislative and regulatory strategies consistent with Board-adopted policies. Promote interaction between Metropolitan leadership and various stakeholders, including elected officials, to facilitate support for, and garner greater understanding of, water policy issues.

#### State

Metropolitan staff joined representatives from the Valley Industry Commerce Association on an advocacy trip to Sacramento and met with members of the Assembly.

#### Senate Rules Committee Confirmation Hearing

The Senate Rules Committee, on a 5-0 vote, recommended that the full Senate confirm Governor Brown's nomination of Karla Nemeth as Director of the Department of Water Resources. The full Senate voted on August 30 to confirm Ms. Nemeth serving in that position.

## EXTERNAL AFFAIRS GROUP

**CORE BUSINESS:** Legislative, Communications, Community Relations, Public and Business Outreach continued...

**Objective:** LEGISLATIVE SERVICES - Develop and implement local, state and federal legislative and regulatory strategies consistent with Board-adopted policies. Promote interaction between Metropolitan leadership and various stakeholders, including elected officials, to facilitate support for, and garner greater understanding of, water policy issues.

### Local

- Attended the United Chambers of Commerce of the San Fernando Valley's annual State of the County Lunch featuring LA County Supervisors Barger and Kuehl. (August 1)
- Sponsored and attended the Los Angeles County Business Federation's annual Freshman Policymaker event, which recognized newly elected government officials. (August 2)
- Attended the Central City Association's Chiefs of Staff reception. The event recognized key staff members of Los Angeles city and county elected officials. (August 8)
- Attended a multi-Chamber roundtable discussion featuring Congresswoman Diaz Barragan (D-Carson) to discuss federal funding for transportation, water, and other regional related infrastructure projects aimed at sustaining economic growth. (August 9)
- Sponsored the Gateway Chambers Alliance 2018 *State of the Nation* event. The event feature Representative Sanchez (D-Norwalk), who spoke on key issues for the gateway region cities. Director Vasquez-Wilson and staff hosted the Congresswoman at Metropolitan. (August 9)
- Attended a roundtable on the Los Angeles River hosted by Representative Gomez (D-Los Angeles). (August 10)
- Water Policy and Strategy Manager Goshi spoke at a California WaterFix panel discussion at the annual San Bernardino County Water Conference. More than 700 business, community, and water leaders were in attendance. (August 10)
- Attended the California Contract Cities Association Directors meeting with more than 200 local officials. (August 15)
- Attended Valley Industry Commerce Association's annual Local Office Holders Luncheon with more than 400 local officeholders and San Fernando Valley-area leaders. (August 16)
- Sponsored Assemblymember Nazarian's (D-North Hollywood) 6th annual Water Briefing Breakfast. More than 100 community leaders were briefed on key water supply and policy issues by Bay-Delta Initiatives Manager Arakawa. (August 17)
- Director Dake and Metropolitan staff participated in a roundtable with Assemblymember Carrillo (D-Los Angeles) that was hosted by the Los Angeles County Business Federation (BizFed). (August 17)
- Directors Camacho, De Jesus, Morris, and Trevino attended an event hosted by the San Gabriel Valley Public Affairs Network entitled "Sacramento Update," featuring Assemblymembers Holden (D-Pasadena) and Rubio (D Baldwin Park). (August 17)
- Attended the LA County Division of the League of California Cities' annual installation board dinner. (August 23)

**Objective:** MEDIA AND COMMUNICATIONS - Communicate Metropolitan's policy priorities, actions and initiatives through various means to raise public awareness, enhance Metropolitan's visibility and cultivate support for Metropolitan priorities. Update and develop new communications tools, materials and platforms to ensure Metropolitan information reaches diverse audiences throughout its service area in a cost-effective, timely, relevant manner that reflects current communications trends.

### Media Activities and Interviews

- Helped plan media event to showcase a water-efficiency project at Cedar-Sinai medical center that received \$188,000 in Water Savings Investment Program funds and additional funding from Los Angeles Department of Water and Power's TAP program. Water Resource Management Manager Coffey joined with Los Angeles Mayor Garcetti and LADWP at the press conference. (August 23)
- Arranged separate interviews with Colorado River Resources Manager Hasencamp and Nevada Independent reporter Daniel Rothberg and Wall Street Journal's Jim Carlton on Bureau of Reclamation's study showing the likelihood of a shortage declaration in 2020.

## EXTERNAL AFFAIRS GROUP

**CORE BUSINESS:** Legislative, Communications, Community Relations, Public and Business Outreach continued...

**Objective:** MEDIA AND COMMUNICATIONS continued...

### Media Activities and Interviews

- Set up interview with General Manager Kightlinger with Samantha Yates of *Global Water Intelligence* magazine on a broad range of subjects, including California WaterFix, Colorado River issues, desalination, and water recycling.
- Arranged interview between General Manager Kightlinger and *Debtwire* reporter Maryellen Tighe on Metropolitan's Board action to finance California WaterFix.
- Handled request from *Wall Street Journal* reporter Jim Carlton regarding potential cyber threats to the nation's water infrastructure and what is being done to safeguard against them.
- Responded to press calls from *Sacramento Bee's* Dale Kasler on California WaterFix costs.

### Press Release

- Reopening of Diamond Valley Lake to recreation after the potential health effects of a large bloom of cyanobacteria, also known as blue-green algae, diminished.
- Two new Metropolitan directors representing the San Diego County Water Authority.
- Metropolitan Board Approves Agreement Delivering Water Reliability to Sycuan Tribe.

### Communication Activities

- Executive Strategist Philp authored an article for *Water Deeply* on a new scientific study documenting changes in wind conditions in the Sacramento-San Joaquin Delta and related ecosystem impacts.
- Metropolitan's 365 *water conservation* media campaign continued this month with nearly 1,000 billboards and other out-of-home signs; advertising on television, digital and movie theaters; and multi-lingual placements in community newspapers; and local retail stores. Social media assets from campaign focused on driving users to [bewaterwise.com](http://bewaterwise.com) website for rebate information and produced more than 150 signups for rebates. (see photo right)
- Over 50,200 users visited the English, Spanish, and Chinese versions of the [bewaterwise.com](http://bewaterwise.com) websites this month, nearly 50 percent more than in June 2018.

- Created new videos on the construction progress at the Regional Recycled Water Program demonstration facility, landscape transformation program, and how an acre-foot of water now serves an average of three Southland homes, thanks to increased conservation. (see photo below)
- Podcasts on the landscape transformation program and 2018 water supply conditions were posted on SoundCloud and iTunes, attracting new audiences to hear information about Metropolitan programs and the region's water issues.
- Photos of Metropolitan's Water Quality Laboratory were posted on social media accounts to celebrate Water Quality Month.



## EXTERNAL AFFAIRS GROUP

### CORE BUSINESS: Legislative, Communications, Community Relations, Public and Business Outreach continued...

**Objective: PUBLIC OUTREACH AND MEMBER SERVICES -** Conduct public outreach to increase awareness and input on Metropolitan projects and initiatives and ensure impacted communities are aware of Metropolitan construction and maintenance activities. Enhance public awareness of Metropolitan's systems and facilities and the role they play in regional supply reliability while protecting environmental resources. Serve as liaison to Metropolitan's member agencies and facilitate their engagement with Metropolitan.

- Hosted a two-day training conference for the Water Utility Climate Alliance. (August 8-9)
- General Manager Kightlinger spoke to the Los Angeles Service Academy, a select group of high school students from throughout Los Angeles County studying policy issues and staff provided a tour of the Weymouth treatment plant. (August 9)
- Hosted the Marshes on the Margin Management Technical Advisory meeting, a NOAA-funded effort being implemented by a multi-disciplinary team from the Coastal Conservancy, UC Davis, USGS, San Francisco Estuary Institute, SCCWRP, Tijuana River NERR, USC Sea Grant, and Point Blue. (August 14)
- Conducted a tour of the Weymouth Treatment Plant and Water Quality Lab for staff of CA-NV American Water Works Association and Three Valleys MWD. (August 16)

#### Public Outreach for Metropolitan Projects

- Worked with residents and officials in the communities of Gardena and Torrance on the shutdown of Sepulveda Feeder to inspect pipe, replace valves, and make minor repairs.
- Provided notices to 70 residents in Rolling Hills Estates on upcoming evening construction work at the Palos Verdes Reservoir. (August 15)
- Met with city of Santa Ana Public Works and Santa Ana Neighborhood Initiatives staff to discuss outreach for the upcoming Orange County Feeder Relining Project. (August 20)
- Delivered 200 notices to residents in the cities of Fontana and Rancho Cucamonga regarding the Etiwanda Pipeline shutdown. (August 21)

#### Member Services

- Coordinated with West Basin Municipal Water District and California Water Services Company during the "Good Morning Palos Verdes Peninsula" meeting by the Palos Verdes Peninsula Chamber of Commerce. The event highlighted statewide and local water projects. (August 1)
- Director Vasquez-Wilson and Education Manager Hightower presented to the Water Education Tour in partnership with Central Basin MWD and the California Latino Leadership Institute. (August 8)
- External Affairs Manager Sims provided an update on the 365 advertising and outreach water conservation campaign at West Basin's caucus meeting. (August 15)
- Convened Member Agency General Managers meeting to discuss conservation programs and disadvantaged communities, the Local Resources Program, and conservation outreach. (August 24)
- Hosted the *Third Annual Water Data Summit* for the California Data Collaborative, a coalition of water utilities and member agencies working to pioneer new data infrastructure that supports water management and conservation activities. (August 23-24)

#### Event Sponsorships and Community Partnering Program

Metropolitan sponsored and staff participated in the following events to promote water education, conservation, and sustainability initiatives:

- Kidspace Children's Museum's *Go Green Event* (August 4)
- City of Beverly Hills *2018 National Night Out* (August 7) ([See photo next page](#))
- LA Neighborhood Land Trust's *2018 Garden Event* (August 9)
- Three Squares Inc. *9th Annual Women in Green Forum* (August 16)
- The Learning Centers at The Fairplex *Premiere Event* (August 30)

## EXTERNAL AFFAIRS GROUP

**CORE BUSINESS:** Legislative, Communications, Community Relations, Public and Business Outreach continued...

**Objective:** BUSINESS OUTREACH AND INNOVATION - Facilitate opportunities for small businesses to work with Metropolitan. Help position Metropolitan as a leader in water innovation.

Metropolitan supported small businesses throughout the region through its presentations, participation, and sponsorship of the following programs, conferences, and events including:

- La Verne Small Business Development Center, Small Business Expo with 250 attendees (August 2)
- Women Business Enterprise Council, W. Los Angeles Forum Showcase with 200 attendees (August 2)
- National Disabled Veteran Business Conference with 200 participants (August 15-17)
- Women Business Enterprise Council-West *Success Crash Course Workshop* (August 16)
- California Hispanic Chamber of Commerce statewide conference with over 3,000 small business advocates, corporate representatives, community leaders, government officials, and entrepreneurs (August 22-24)
- California Black Chamber of Commerce statewide conference with over 400 attendees (August 23-25)
- Black Chamber of Orange County Awards Dinner with over 300 attendees (August 24)

Metropolitan hosted an exhibit table at the Filipino American Chamber of Commerce of Orange County *Go Green Expo*.

The Innovation and Technology team participated in the annual *Sustain OC Water Conference*.

**Objective:** EDUCATION AND COMMUNITY RELATIONS - Facilitate public engagement in and understanding of water resource issues through community relations activities and education projects. Build awareness of and appreciation among Southern California for the value of clean, reliable water supplies and the importance of good water stewardship.

### General Education

- Staff supported presentations including Student Event at California State University at Los Angeles, Kidspace STEAM Summer Event, STEM PULL (Riverside), and Generation Earth Teachers Resource Event. Education Unit interacted with more than 600 students, teachers, and the public.
- Metropolitan's 2018 Student Art Exhibit made its final stops at Eastern MWD and Las Virgenes MWD. The 2019 Water Is Life calendar selections have begun with the review of 204 student art posters from 24 participating member and retail agencies.

### Diamond Valley Lake Education Program

Staff hosted nearly 500 visitors at the Visitor Center and guided nearly 130 visitors to the Clayton Record Viewpoint.



Metropolitan Booth at City of Beverly Hills  
2018 National Night Out

## HUMAN RESOURCES

### GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities

More than half of Metropolitan's workforce has reached retirement age, including many members of Metropolitan's executive management team. This is a challenge to Metropolitan's capacity to adequately train and prepare its workforce but is also an opportunity to build a workforce geared for the challenges of the future.

**Objective:** Partner with Metropolitan leadership to support learning, development and workforce planning initiatives.

Twenty-five employees from Cohort 3 of the Water System Operations Management Academy completed all the requirements for graduation in this nine-month program. The Academy program provides a wide range of learning experiences focused on preparing graduates for potential management roles in water operations.

*Preparing for Job Interviews* training class was delivered at Headquarters to help employees more effectively compete for promotional opportunities. A *Project Management Essentials* class was also delivered at Headquarters to help employees enhance their project management skills. And a class on *Accelerating Teamwork* was delivered to employees at Weymouth to foster improved teamwork in the workplace.

Two-hour computer classes were delivered on:

- Excel: Tips and Tricks; Intermediate Workshop; Performing Advanced Calculations
- WORD: Mail Merge Workshop, Advanced Features, Professional Reports
- Outlook: Increasing Productivity

Starlight Education provided several business training sessions on *Effective Business Writing*, *Organizational Skills*, and *Effective Presentation Skills*.

Staff conducted a class entitled *Communication Styles Using Success Signals* as part of a team-building effort for staff in the Chief Financial Officer Group.

Chief Administrative Officer Chapman kicked off the second cohort of 30 employees in the MWD Management Academy on August 14. Class One consisted of a presentation on the history of Metropolitan, a financial overview, a discussion of management competencies, and a Senior Management Panel addressing leadership questions from the participants. ([see photo below](#))

Senior Management Panel at the kick-off of the Second Cohort of the MWD Management Academy.



**Objective:** Seek diverse, high-quality talent, and establish partnerships to discover additional outreach opportunities that aid in staffing positions.

- Recruitment filled 44 positions for the month of August, while at the same time receiving 26 new staffing requisitions. There are now 138 positions currently in recruitment.
- The Desert Pre-Apprentice announcement has closed and HR is in the process of inviting candidates to test the week of September 10.
- Class/Comp is finalizing the annual Department Head Salary Survey and has begun reviewing Supervisors Association job descriptions as part of that bargaining unit's Classification Study.

## HUMAN RESOURCES

### HR PRIORITY: Strengthen Partnerships with HR Customers

Collaborate and partner with customers at all levels to support strategic decisions on workforce planning, hiring strategies, advancement and learning opportunities, disciplinary issues, and other challenges as they arise.

**Objective:** Establish partnerships focused on strategic solutions to various Human Resource management challenges.

A Joint Labor-Management Committee involving the Supervisors Association convened on August 13, 2018. The purpose of the committee is to improve efficiency of the MyPerformance Evaluation Process and to provide guidance and resources to those who are responsible for preparing employee evaluations.

### HR PRIORITY: Provide Excellent Human Resources Services

Human Resources provides a wide range of services and support from pre-hire to post-retirement care. HR policies, procedures, and practices will be reviewed and revised as appropriate. HR will continually improve service and better utilize technologies.

**Objective:** Administer all HR services with efficiency and a focus on customer service excellence, consistency, and flexibility.

- Human Resources Benefits Unit completed the transition of 401(k) and 457(b) plans from TIAA Financial to Empower Retirement.
- HR Benefits is working with Venbrook Insurance on renewal rates, plan updates, and competitive quotes from other providers for health and voluntary benefit renewals in preparation of open enrollment, which will launch September 17, 2018 for calendar year 2019.

### CORE BUSINESS: Prepare to Meet Challenges of Future Workforce Changes

Human Resources can provide a wide range of services and support to ensure that Metropolitan positions itself for future workforce changes, by maintaining a collaborative and inclusive work environment, as well as a diverse workforce.

**Objective:** Promote an inclusive and collaborative workplace, maintain robust policies and procedures to ensure diversity, and prevent harassment and discrimination.

Human Resources partnered with Employee Resource Groups to expand outreach efforts to higher education students by participating in the Student Leadership Workshop held at University of California, Riverside. Employees participated in two panels: *Connecting with Employers* and *MWD: Careers in the Water Industry*. (see photos below of the panels)



## HUMAN RESOURCES

### CORE BUSINESS: Comply with Employment Laws and Regulations

Ensure all policies, programs, and practices comply with ever-changing laws and regulations. Compliance with applicable laws and policies requires monitoring and analyzing changing requirements, determining impact on Metropolitan management and staff, and implementing any changes necessary to maintain compliance. In addition, these changes must be clearly communicated to all customers as necessary, with any needed training provided, as appropriate.

**Objective:** Effectively administer all Human Resources policies, programs, and practices in compliance with applicable federal and state laws and Metropolitan's Administrative Code, Operating Policies, and Memorandum of Understanding.

In partnership with California Public Employees' Retirement System (CalPERS), HR Benefits completed an internal audit of all "New" CalPERS members to determine if their membership with a reciprocal agency changed their classification from "New" to "Classic" member. Out of 536 "New" members, four were converted to "Classic" members.

HR Benefits, Payroll, and Employee Relations continued working with American Federation of State, County, and Municipal Employees on clarifying current Memorandum of Understanding language pertaining to the 12.5-hour work schedule, which is used by personnel at the water treatment plants. During a recent audit, CalPERS asked that the current MOU language provide greater detail about this work schedule (e.g., how many days worked per week; number of hours in a day; etc.). The parties hope to resolve this matter in the near future.

Activities of the Workers' Compensation/Medical Screening Unit are summarized as follows:

- Submitted four new claims to Metropolitan's workers' compensation claim administrator
- Negotiated settlements in five claims; closed seven claim files
- Completed the employer's portion of the Public Self-Insurer's Annual Report
- Conducted MedVan evaluations at Mills, Lake Skinner, Lake Mathews, and Weymouth facilities
- Arranged eight medical evaluations (DMV, medical surveillance, hearing conservation, etc.)
- Coordinated one random drug/alcohol test
- Addressed one accommodation issue.

# INFORMATION TECHNOLOGY

## CORE BUSINESS: Information Technology

Collaboratively work with customers to deliver information technology options, services, and solutions in the areas of enterprise and business applications, Engineering Services and Water System Operations applications, data analytics, mobile/wireless computing, telecommunications, network services, information security, and personal computing..

**Objective: Strengthen Metropolitan's cyber security capabilities by deploying new and emerging technologies, and implementing enhanced security countermeasures.**

- Increased cybersecurity awareness by issuing a memorandum to provide guidance on the use and protection of user accounts by all Metropolitan Managers and Contract Administrators.
- Conducted internal testing in preparation for rollout of the Mandatory Online Cybersecurity Awareness Training (CSAT) beginning September 2018. This mandatory course addresses increasing and evolving cyber threats.
- Continued Cyber Security Remediation Phase I Project with a planned update to the Board in October (closed session).
- Continued Cyber Security Remediation Phase II preparations for Board Action in December 2018. This project includes analysis, assessment and implementation of new countermeasures as part of the next phase of cybersecurity enhancements.

**Objective: Provide IT services in support of the Headquarters Improvements Program.**

Worked in collaboration with Engineering Services on IT Services such as design and installation of network equipment (i.e., switches and routers) and Wi-Fi infrastructure within the five-floor wing portion of the Headquarters Building.

**Objective: Modernize Operational Technology and Control System Upgrades as part of the Capital Investment Plan.**

Wadsworth Pumping Plant (DVL) control system upgrade Project—This project includes replacement of the control and communications systems, protection relay system, vibration monitoring system, and pump/turbine drive controls. The shutdown commenced last month is proceeding according to plan and is anticipated to extend through March 2019. Installation activities are proceeding for Units 2, 3, and 4, as well as higher level plant-wide aspects of the control system.

Remote Terminal Unit (RTU) Replacement Project—The scope of this project is to replace RTU field computers with an updated operating system and hardware that will improve cybersecurity protection and increase reliability with solid-state drive technology. Deployment at various field locations and treatment plants are underway. To date, approximately 55 percent of the devices have been installed and are operational.

**Objective: Improve Metropolitan's IT Disaster Recovery and Response Capability.**

IT Disaster Recovery Project – This project scope is to upgrade server, storage, databases, and backup devices at the IT Disaster Recovery Facility datacenter to provide sufficient capacity to run critical systems concurrently in the event of a disaster. IT Staff continued efforts related to planning, data migration, testing, and the deployment phases. Work is proceeding according to plan with upcoming pilot testing of databases.

# INFORMATION TECHNOLOGY

**Objective: Provide leadership, planning, and solutions in support of Metropolitan's Strategic Priorities.**

Initiated deployment of network and server infrastructure at CoreSite to improve network reliability / capability and prepare for Metropolitan's migration to cloud processing.

**Objective: Deploy innovative solutions to improve operations, promote collaboration, and provide business value.**

Conducted an unmanned aerial vehicle mission for External Affairs to capture aerial photographs and video of the construction site of the Advanced Water Treatment Demonstration Plant. *(see photos below)* Other activities include planning for an upcoming UAV mission scheduled for Diamond Valley Lake.



**Objective: Enhance workforce productivity by simplifying access to business information and deploy technologies to support customers in business decisions.**

Developed a dashboard for the Office of Chief Administrative Officer providing detail and rollup reporting of financial data. The dashboard report provides easy access to information and enhances workforce productivity by automating manual processes. *(see snapshot of the dashboard right)*



## REAL PROPERTY

### GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

Metropolitan's vast network of aqueducts, pipelines, pumps and treatment facilities are the backbone of Southern California's regional water system. However, this vital infrastructure is aging and heightened reinvestment in this system is essential to ensure Metropolitan can continue to deliver on its promise of reliability in the coming decades.

**Objective:** Provide right-of-way planning and real property acquisition services for infrastructure.

An access license was acquired from the Water Facilities Authority for Metropolitan to enter property to perform maintenance and other activities on the circuit breaker, conduit, and wiring to maintain Metropolitan's service connection CB-12.

### CORE BUSINESS: Real Property Acquisition, Management and Revenue Enhancement

Manage Metropolitan's real property assets with a focus on enhancement of returns while ensuring that Metropolitan's core operations are protected. Acquire real property rights for future operational business needs.

**Objective:** Manage Metropolitan's real property assets to support water system operations and water supply needs, and seek maximum revenue and reduce costs where possible.

An amendment to an Entry Permit was granted to the county of Riverside to use Metropolitan's fee-owned property at Lake Mathews in the county of Riverside. The Riverside County Transportation Department (RCTA) is conducting a land survey, including the identification of biological species, biological habitat (including wetlands), cultural resources, and soil sampling.

An Entry Permit was granted to Mesquite Productions, Inc. to use the Jensen water treatment plant. Mesquite Productions, Inc. conducted three days of filming for their Future Man film series. [\(see photo below\)](#)



## REAL PROPERTY

### CORE BUSINESS: Real Property Acquisition, Management and Revenue Enhancement continued...

**Objective:** Pursue development and improvement of the Diamond Valley Lake area, including the DVL Visitor Center and marina facilities, in support of recreation, additional leasing and revenue opportunities.

An existing lease with the Western Science Center was extended an additional year to allow for continued operation of the Western Center Academy located at the DVL Visitor Center campus.

Urban Park Concessionaires hosted two night fishing tournaments. The National Bass West tournament had 39 teams and the biggest fish caught weighed in at 9.57 pounds; the biggest bag (3 fish) was 21.08 pounds. The American Bass Association tournament had 24 teams and the biggest fish caught weighed in at 7.89 pounds; the biggest bag (4 fish) was 23.25 pounds.

Valley-Wide Park and Recreation District hosted several Southern California Senior Softball Association tournaments at the Diamond Valley Community Park location near DVL

**Objective:** Efficiently maintain and operate Metropolitan's Headquarters Building, Diamond Valley Lake Visitor Center, and District Housing.

Staff coordinated the emergency repair of a leaking fire sprinkler water pipe at the Headquarters Building and the replacement of two fire sprinkler water riser isolation valves on the 9th and 10th floors. *(see photo right of leaking pipe)*



## SECURITY SECTION

### CORE BUSINESS: Improve Security and Emergency Response

- Staff and the Department of Homeland Security's Office of Infrastructure Protection hosted a tabletop exercise for participants from State and Federal Law Enforcement and Emergency Services. The dual-module exercise included scenarios involving chlorine transportation issues.
- Staff launched a Security web page on Metropolitan's IntraMet. The webpage provides employees with links to security announcements, tips, training videos, and other resources. The site also includes a map of facilities showing the Security Specialists responsible for each location and listing their contact information.
- New communication and safety monitoring technology called *Lone Worker* has been purchased by the Security Unit for employees to sign out and take with them when they travel to remote locations. The devices use multiple communications technologies to ensure connectivity and can be programmed to check on workers periodically and summon responders if check-ins are missed or the panic feature is activated.

## WATER RESOURCE MANAGEMENT

### GM STRATEGIC PRIORITY: Prepare for More Extreme Hydrology

Staff will work closely with the Board to assess Metropolitan's storage capabilities, current strategies and review future needs to identify whether new strategies and/or new investments are needed.

**Objective:** Monitor development of climate science and incorporate updated information into the Integrated Water Resources Planning approach.

Subseasonal and Seasonal Forecasting Report—Metropolitan submitted comments on National Oceanic and Atmospheric Administration's (NOAA) Subseasonal and Seasonal Forecasting Innovation: Plans for the 21st Century. The report is being organized around two main goals: improving the skill of the forecasts and enhancing the value of products for stakeholders.

**Objective:** Manage existing and develop new regional water management programs to maintain water supply reliability in the face of increasing water supply volatility.

Fallowing Call—Metropolitan issued a fallowing call notice requiring the participants of the Palo Verde Irrigation District/MWD Fallowing Program to fallow their land at 40 percent of their maximum commitment to the program, starting August 1, 2019 through July 31, 2020. The estimated water savings is 50,000 acre-feet.

### GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

Southern California's foundational water supply remains the Colorado River and the State Water Project and their ongoing reliability is critical for the region. Important decisions on both supplies need to be made over the next two years.

**Objective:** Ensure a cost-effective and reliable State Water Project.

On August 23, General Manager Kightlinger and California Department of Water Resources Director Nemeth signed an agreement providing the first \$41.5 million in funding for California WaterFix. *(see photo right of Kightlinger and Nemeth)*



**Objective:** Ensure access to sufficient water supplies to operate a full Colorado River Aqueduct in times of drought.

Pilot System Conservation Projects—Contracts for two Pilot System Conservation Projects were finalized in the Lower Colorado River Basin. These projects are with Indian tribes in Arizona, the Colorado River Indian Tribes and the Tohono O'odham Nation. Conservation will be achieved through fallowing and a reduction in groundwater storage, respectively, and will conserve over 21,000 acre-feet of system water in Lake Mead.

## WATER RESOURCE MANAGEMENT

### GM STRATEGIC PRIORITY: Maximize Local Resources

Staff will begin work with the Board and member agencies on a review of the institutional issues associated with the Regional Recycled Water Program and its relationship to Metropolitan's ongoing Local Resources Program.

**Objective:** Implement Future Supply Actions Funding Program.

**FSA Funding Program**—The Future Supply Actions Funding Program addresses future uncertainties like climate change by funding studies that remove barriers to the development of local groundwater, recycling, seawater desalination, and stormwater supplies. Staff released a \$3.5 million Request for Proposals under the FSA Funding Program to member agencies in early July and held a webinar on July 26 to answer questions from the member agencies and other stakeholders. The 90-minute webinar was attended by 35 member agency, sub-agency, and stakeholder representatives.

**Objective:** Collaborate with member agencies, water agencies and associations, and provide leadership for policy development, advocacy, outreach and education.

**Los Angeles WaterReuse Chapter Meeting**—Staff led the Los Angeles WaterReuse Chapter meeting discussion on proposed recycled water policy amendments and recycled water legislation. Approximately 75 local agency staff and consultants attended the meeting.

**The Climate Registry Workshop**—Metropolitan staff participated in two workshops sponsored by The Climate Registry (TCR) related to developing voluntary greenhouse gas reporting criteria for the water sector. The first workshop, held in early August, was related to developing a reporting protocol specifically for water supply

### GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities

More than half of Metropolitan's workforce has reached retirement age, including many members of Metropolitan's executive management team. This is a challenge to Metropolitan's capacity to adequately train and prepare its workforce but is also an opportunity to build a workforce geared for the challenges of the future.

**Objective:** Promote learning and increased technical capacity of staff.

**San Bernardino County Water Conference**—Attended the 12th Annual San Bernardino County Water Conference. Attendees included water agencies, local government, and key stakeholders who work together to identify practical conservation policies and practices for businesses and local residents.

**Objective:** Promote Metropolitan's technical capabilities and innovation efforts to advance the understanding of water resources management.

**Salinity Economic Impact Model**—Staff participated in the kick-off meeting for project that will update a model used to estimate the economic impacts from salinity in water supplies. The U.S. Bureau of Reclamation is leading the \$300,000 studies. Funding for the 18-month project is being provided by USBR as well as the Colorado River Salinity Control Forum. Metropolitan staff is on the project's advisory committee.

# WATER SYSTEM OPERATIONS

## GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

Metropolitan’s vast network of aqueducts, pipelines, pumps and treatment facilities are the backbone of Southern California’s regional water system. However, this vital infrastructure is aging and heightened reinvestment in this system is essential to ensure Metropolitan can continue to deliver on its promise of reliability in the coming decades.

### Objective: Provide Reliable Water Deliveries.

Metropolitan delivered approximately 170,000 acre-feet of water to member agencies in August. August deliveries averaged approximately 5,500 AF per day, an increase of 75 AF per day from July deliveries. Treated water deliveries for August totaled 90,000 AF, or 53 percent of total deliveries for the month. This was an increase of about 7,000 AF from July treated water deliveries. The Colorado River Aqueduct operated at a

7-pump flow in the month of August. A total of 98,500 AF of Colorado River water was pumped in August, averaging 3,200 AF per day. SWP imports averaged 2,600 AF per day, totaling 81,000 AF for August. The target blends for the Weymouth, Diemer, and Skinner plants was 35 percent for the month of August.

### Objective: Ensure Water Quality Compliance, Worker Safety, and Environmental Protection.

Metropolitan complied with all water quality regulations and primary drinking water standards during the month of July 2018.

Staff conducted a survey at the Diemer plant of areas where wildlife could potentially come into contact with treated water. Structures such as air vents, spillways, and instrument boxes were checked for any openings that were not screened. At these locations, improvements were made to prevent wildlife access and ensure protection of treated water quality.

### Objective: Actively Engage in Capital Project Planning and Execution.

Staff reconstructed an existing access road through rugged terrain that will be used to safely transport personnel, equipment, and supplies to the Gene Wash and Copper Basin. *(see photo below)*



Staff reconstructing access road to Gene Wash and Copper Basin reservoirs

Seismic upgrades to the Diemer Administration Building is nearing completion and staff is beginning the transition from temporary offices back into the building. Remaining staff will be relocated back to the upgraded administration staff building in September and October 2018. *(see photo below)*



Temporary trailer for staff during the Diemer Administration Building Upgrades

# WATER SYSTEM OPERATIONS

**GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency**  
Continued....

**Objective: Optimize Maintenance.**

Each year, Metropolitan plans and performs shutdowns to inspect pipelines and facilities, perform repairs, and support Capital Investment Plan projects, all of which are critical in delivering safe and reliable water supplies. On August 9, staff conducted the Annual Shutdown Meeting to review the fiscal year 2018/19 shutdown schedule. Over 75 employees across Metropolitan workgroups participated in the meeting. Staff will distribute the FY 2018/19 Shutdown Schedule to member agencies in September 2018.

Staff continued coating repair of various equipment, structures, and pipelines throughout Metropolitan’s system. In August, staff performed coating work at San Diego Pipeline Nos. 1, 2, and 5; OC-76 flow control structure; Red Mountain Hydroelectric Plant; OC-88; Lake Skinner spillway; and coatings support for the Sepulveda Feeder shutdown. *(see photos below)*



Staff prepping pipe joints and surrounding areas for internal seal installation on San Diego Pipeline No. 1



San Diego Pipeline No. 1 pipe joint before (above) and after preparation (below) of internal seal installation



Staff completed a shutdown on the southern section of the Sepulveda Feeder from the West Coast Feeder in the city of Gardena to the Second Lower Feeder in the city of Torrance. Approximately 30 AF was dewatered to facilitate an electromagnetic and visual inspection on this 6.5-mile section of prestressed concrete cylinder pipeline. Upon inspection, staff conducted repairs at one pipe joint location that was in need of mortar repair. Staff also used this shutdown opportunity to replace failed plug valves at the Dominguez Channel blowoff station. *(see photo right of staff installing a new dresser coupling between newly replaced plug valves at the Dominguez Channel blowoff station)*



# WATER SYSTEM OPERATIONS

**GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency**  
Continued....

**Objective: Optimize Maintenance.**

Staff maintains hundreds of miles of unpaved roads that provide critical access to Metropolitan operating facilities. In August, staff began Federal Emergency Management Agency reimbursable repairs on two berms along the Colorado River Aqueduct, west of Desert Hot Springs. The patrol road damage was a result of extreme storm events that occurred in January 2017. The work will consist of using 750 tons of clean soil to repair berm and patrol road erosion. (see photo right)



Staff compacting soil for CRA patrol road repairs

Staff performed six-year scheduled maintenance at Coyote Creek Hydroelectric Plant. Staff performs maintenance at the HEPs on one, two, and six-year intervals to ensure continued reliability. Six-year maintenance is more extensive and can include refurbishment of major parts. The work at Coyote Creek included inspection, cleaning, and servicing of high voltage switchyard and generator equipment and refurbishment of the generator heat exchangers. (see photos below)



Staff cleaning high voltage insulators at the Coyote Creek HEP switchyard



Staff removing a generator heat exchanger at the Coyote Creek HEP

Staff addressed a failed flow meter signal at the Sepulveda Hydroelectric Plant, which resulted from an electrical short during a thunderstorm. The flow signal is used to adjust flow into the Sepulveda HEP. The facility was taken offline for less than 24 hours, which allowed staff to replace, test, and restore the flow signal to its original condition.

# WATER SYSTEM OPERATIONS

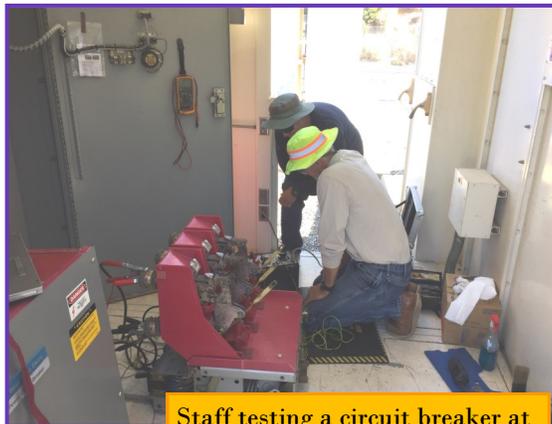
**GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency**  
 Continued....

**Objective: Optimize Maintenance.**

As part of its six-year scheduled maintenance at Red Mountain Hydroelectric Plant, staff performed maintenance and electrical tests in the switchyard and on the generator equipment. Staff also inspected major components of the turbine in preparation for an upcoming turbine generator rehabilitation. *(see photo right and below)*



Staff pressure washing electrical insulators at Red Mountain HEP switchyard



Staff testing a circuit breaker at Red Mountain HEP

**Objective: Manage the Power System.**

In July 2018, Metropolitan was notified of a range of refunds expected annually by October 31 over the next five years by the United States Bureau of Reclamation. This is in accordance with the new 50-year Hoover contracts that began power deliveries on October 1, 2017. These contracts require all new participants of Hoover power to pay for certain replacements that were previously funded by Metropolitan and 14 other Hoover contractors under prior contracts. Metropolitan’s refund totals about \$1.5 million over the five-year period.

The California Independent System Operator (CAISO) experienced spikes in energy prices in late July and August during late afternoon and evening hours. Staff responded to the high energy prices by reducing Gene and Intake pumping operation in the late afternoon and evening hours without impacting Colorado River water deliveries into Metropolitan’s service area.

As part of Southern California Edison’s efforts to manage electrical demand within its service area, Critical Peak Pricing (CPP) was established to encourage consumers to reduce electrical consumption during peak demand periods (hot summer days between 2 p.m. and 6 p.m.). Although Metropolitan is not required to reduce electrical consumption during CPP events, the price for retail electricity increases to approximately 10 to 12 times its normal price. Therefore, any energy use that can be moved, deferred, or reduced during these hours can significantly lower Metropolitan’s electric bill. Due to the recent high temperatures, SCE has called for multiple CPP events at the Weymouth plant. Staff took a number of actions to reduce electrical consumption, such as rescheduling filter backwashes, adjusting large air conditioning systems, and deferring other non-process critical operations.

# WATER SYSTEM OPERATIONS

**GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency**  
Continued....

**Objective: Improve Security and Emergency Response.**

Staff met with emergency planners from local jurisdictions in July and August to coordinate emergency response activities associated with Metropolitan dams and reservoirs. During the meetings, staff reviewed Metropolitan’s emergency plans and procedures and provided local officials with emergency planning points of contact at Metropolitan.

**Objective: Optimize Water Treatment and Distribution.**

State Water Project target blends at the Weymouth, Diemer, and Skinner plants were 35 percent beginning June 2018. Flow-weighted running annual averages for total dissolved solids from July 2017 through June 2018 were 393, 399, and 395 mg/L for the Weymouth, Diemer, and Skinner plants, respectively. .

Staff supported a remote terminal unit (RTU) replacement project at Santa Clarita Valley Water Agency’s service connection CLWA-01T, located in the city of Santa Clarita. An RTU provides remote monitoring and control of process equipment through a computerized Supervisory Control and Data Acquisition (SCADA) system. The existing RTU was replaced with a newer technology RTU that will provide improved performance. *(see photos below)*



New RTU at the CLWA-01T service connection

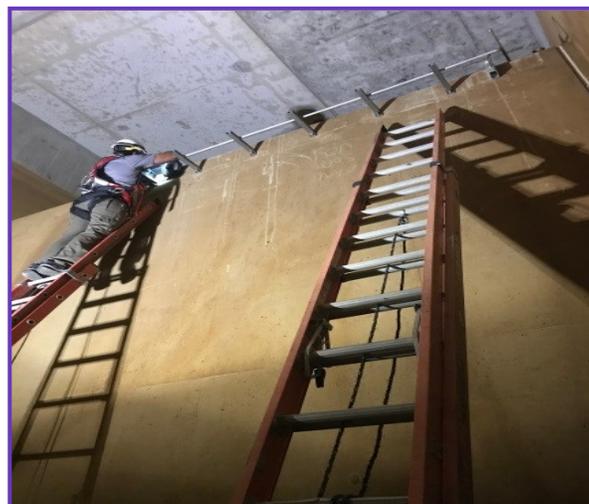


CLWA-01 and CLWA-01T service connection meter cabinets

Staff completed upgrades of three chlorine feed control valves at the Mills plant for improved process control and increased reliability. The upgraded valves give Mills plant operators the ability to control chlorine feed with precision from the plant’s control room.

Staff relocated six sample lines in one of the ozone contactors at the Jensen plant. The new samples lines were modified and moved to a more optimal location to establish better flow to the ozone analyzer, improving accuracy of the sample results. *(see photo right)*

Staff relocating ozone sample lines at the Jensen plant



# WATER SYSTEM OPERATIONS

**GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency**  
Continued....

**Objective: Optimize Water Treatment and Distribution.**

Staff completed repairs to the washwater reclamation facility at the Diemer plant. The washwater reclamation facility treats filter backwash water and returns treated water to the head of the Diemer plant. Staff found that a flocculator paddle was not functioning properly due to excessive sediment in the facility. Staff removed the sediment and repaired the failed flocculator.



Flocculator before (left) and after (right) cleaning and repairs at the washwater reclamation facility at the Diemer plant

Staff inspected the Skinner plant’s finished water reservoir slide gates to evaluate their condition and plan for future refurbishment. A State of California Division of Safety of Dams (DSOD) inspector was onsite to observe the operation of the slide gates to ensure water can be safely released during an emergency. DSOD also inspected the Skinner plant’s finished water reservoir dam and Lake Skinner Dam, with no deficiencies identified. Finally, staff performed electrical and mechanical maintenance on the slide gates to ensure continued functionality. (see photos below)



Diver beginning inspection. Staff monitoring diver during inspection of slide gates at Skinner plant’s finished water reservoir

## WATER SYSTEM OPERATIONS

### GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency Continued....

#### Objective: Prepare for Future Legislation and Regulation.

On August 13, Metropolitan submitted comments to the United States Environmental Protection Agency (USEPA) and the U. S. Army Corps of Engineers supporting the proposed repeal of the 2015 rule defining Waters of the United States (WOTUS). By repealing the 2015 rule, USEPA will revert to the definition of WOTUS that existed prior to 2015. Staff will continue to monitor the federal repeal process and subsequent development of a replacement rule for any potential impacts to Metropolitan.

#### Objective: Provide Technical Support to Member Agencies.

Service connection LA-30 was installed in the early 1990s but was not connected to the agency's system at that time. In August, staff continued coordinating with Los Angeles Department of Water and Power for the construction of their pipeline and plans to tie in the LA-30 service connection.

Staff continued to work with member agencies for planning and design of new service connections for Eastern Municipal Water District (EM-25) and West Basin Municipal Water District (WB-41). These service connections are located on the Inland Feeder and Second Lower Feeder, respectively.

Staff continued construction support for Castaic Lake Water Agency's service connection CLWA-01, located in Santa Clarita. Construction is approximately 90 percent complete and staff is planning for a final tie-in to the Foothill Feeder in February 2019.

### GM STRATEGIC PRIORITY: Prepare for More Extreme Hydrology

Staff will work closely with the Board to assess Metropolitan's storage capabilities, current strategies and review future needs to identify whether new strategies and/or new investments are needed

#### Objective: Manage Water Reserves.

State Water Project imports into the service area in August accounted for about 48 percent of Metropolitan's deliveries. Storage at Diamond Valley Lake is at 710,200 acre-feet or 88 percent full. Water reserves continued to be managed according to Water Surplus and Drought Management principles and the 2018 Annual Operating Plan, while considering the current 35 percent 2018 SWP allocation. The only deliveries made to storage accounts in August were to the Advanced Delivery Account with Desert Water Agency and Coachella Valley Water District (42,000 AF).

### GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

Southern California's foundational water supply remains the Colorado River and the State Water Project and their ongoing reliability is critical for the region. Important decisions on both supplies need to be made over the next two years.

#### Objective: Support Imported Supply Reliability

On July 25, staff from the Los Angeles Department of Water and Power, the California Department of Water Resources, and Metropolitan participated in a half-day workshop to develop a joint emergency response plan to address how the three agencies will work together following a catastrophic earthquake in Southern California. Metropolitan hosted the workshop at the Emergency Operations Center in Eagle Rock. This workshop is part of the ongoing work by the Seismic Resilient Water Supply Task Force to collaborate on efforts to prepare for a large earthquake, or other emergency events, to further improve reliability of imported water supplies.

## WATER SYSTEM OPERATIONS

### GM STRATEGIC PRIORITY: Maximize Local Resources

Staff will begin work with the Board and member agencies on a review of the institutional issues associated with the Regional Recycled Water Program and its relationship to Metropolitan's ongoing Local Resources Program.

#### Objective: Support the Regional Recycled Water Program.

An Independent Science Advisory Panel (Panel) has been formed for the demonstration project at the Regional Recycled Water Advanced Purification Center in Carson. The Panel will review the treatment approach, including the application of membrane bioreactors, for meeting existing potable reuse regulations. The first Panel workshop was held on August 8 and 9 to review the testing and monitoring plan for the demonstration project. The Panel will complete its evaluation report by September 2018. Metropolitan will incorporate feedback from the Panel and submit the testing and monitoring plan for regulatory approval later this year.

On August 9, Metropolitan, along with its partnering agency, the Los Angeles County Sanitation Districts, hosted its fifth Regulator Meeting for the Regional Recycled Water Program. The meeting, which included the Division of Drinking Water and the Los Angeles and Santa Ana Regional Water Quality Control Boards, was focused on gaining input from the regulators on the proposed testing and monitoring plan for the demonstration project. Construction progress of the Advanced Purification Center is at 65 percent and will be complete by the end of 2018. Operation is expected to begin in early 2019, with testing spanning at least one year.

### GM STRATEGIC PRIORITY: Promote Environmental Stewardship and Sustainability

Metropolitan will continue to lead with programs that promote actions that support sustainable practices, reduce greenhouse gas emissions and protect natural habitat and water quality.

#### Objective: Manage Power Resources and Energy Use in a Sustainable Manner.

Staff continued to maximize power generation throughout the month. Metropolitan's hydroelectric plants generated an average of 31 megawatts per hour for approximately 23,000 megawatt-hours for August.

#### Objective: Protect Source Water Quality.

On August 1, staff participated in a meeting to discuss United State Bureau of Reclamation's Salinity Economic Impact Model. Metropolitan is working with USBR to update the model inputs and functions used to assess economic impacts of salinity levels in source water supplies above 500 mg/L. The update, expected to be completed by June 2020, will include groundwater and recycled water data exclusive to Metropolitan's service area. Metropolitan strives to achieve its water quality goal for salinity of less than 500 mg/L total dissolved solids as a running annual average based on water supply conditions.

On August 1, staff participated in the quarterly stakeholder meeting regarding perchlorate cleanup at the former Tronox site in Henderson, Nevada. The Nevada Environmental Response Trust discussed current remedial operations, ongoing site investigations in areas downgradient of the site, and the status of current treatability and pilot studies. Staff continues to monitor the overall development of the long-term remedial plan and distribution of the Trust's funds for site cleanup, which remains at \$1.1 billion.

On August 14, Lake Skinner was treated with copper sulfate to control a bloom of cyanobacteria that was producing high levels of 2-methyl isoborneol (MIB)

# WATER SYSTEM OPERATIONS

## GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities

More than half of Metropolitan’s workforce has reached retirement age, including many members of Metropolitan’s executive management team. This is a challenge to Metropolitan’s capacity to adequately train and prepare its workforce but is also an opportunity to build a workforce geared for the challenges of the future.

### Objective: Manage Vacancies.

WSO filled five vacant positions in July 2018.

### Objective: Prepare Employees for New Opportunities.

The Apprenticeship Program is actively recruiting pre-apprentices to establish a desert hiring eligibility list. Metropolitan opened applications for desert positions in July and received 400 applications before the August 6, 2018, closing deadline. Qualified applicants were invited to participate in the next phase of recruitment, which involves written testing on September 11 and 12, 2018. Physical abilities testing and interviews will be held later this year with final hiring anticipated in early 2019.

The WSO Management Academy is a training program designed to prepare eligible employees for the potential transition into a Team Manager position. On August 8, the final session of the third group of participants was held. Management acknowledged their achievement and the participants received certificates of completion.



2018 WSO Management Academy participants and instructors



Final address to the 2018 WSO Management Academy

# WATER SYSTEM OPERATIONS

**GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities continued...**

**Objective: Enhance Support Infrastructure at the Desert Facilities.**

Support of the Desert Housing Renovation Program continues. This month, hardscape consisting of concrete driveways, walkways, and stairs was installed around newly constructed houses at Gene pumping plant. To date, hardscape has been completed on six houses, with an additional four to be completed by October 2018. Renovation of four existing houses is also in progress. Each house is in various stages of completion. Cabinet and flooring selections, as well as other features of the new and renovated houses, had resident input through the collaborative efforts of the Desert Housing Working Group.



Concrete driveway and walkway for newly constructed house at Gene pumping plant



Cabinets for newly constructed house at Gene pumping plant

**GM STRATEGIC PRIORITY: Maintain Sound Business Practices and Fiscal Integrity**  
Metropolitan will continue its longstanding practice of operating in a productive, cost-effective, transparent and efficient manner to ensure sound financial stability.

**Objective: Ensure Accurate Billing Infrastructure.**

The La Verne Shops completed fabrication and coating of equipment and rehabilitated a check valve for service connection PM-01. This work is part of retrofitting a new meter to replace the existing meter that recently failed. Service connection PM-01 provides water to the California State Polytechnic University, Pomona campus. (see photo right)



Fabricated and coated equipment for PM-01 service connection

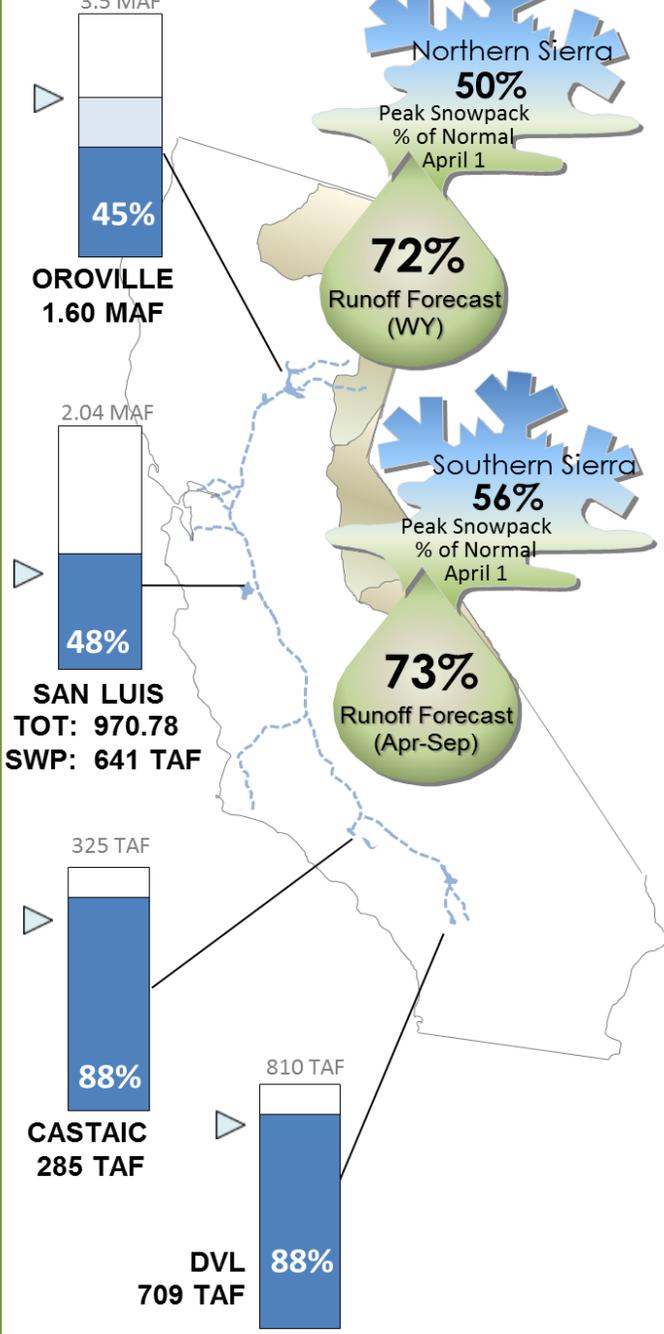
WATER SUPPLY CONDITIONS AS OF AUGUST 31, 2018

**2018 SWP Allocation**

669,025 AF

35% of Table A

(Does not include CVWD & DWA Table A)

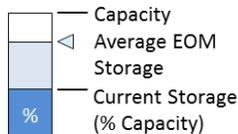
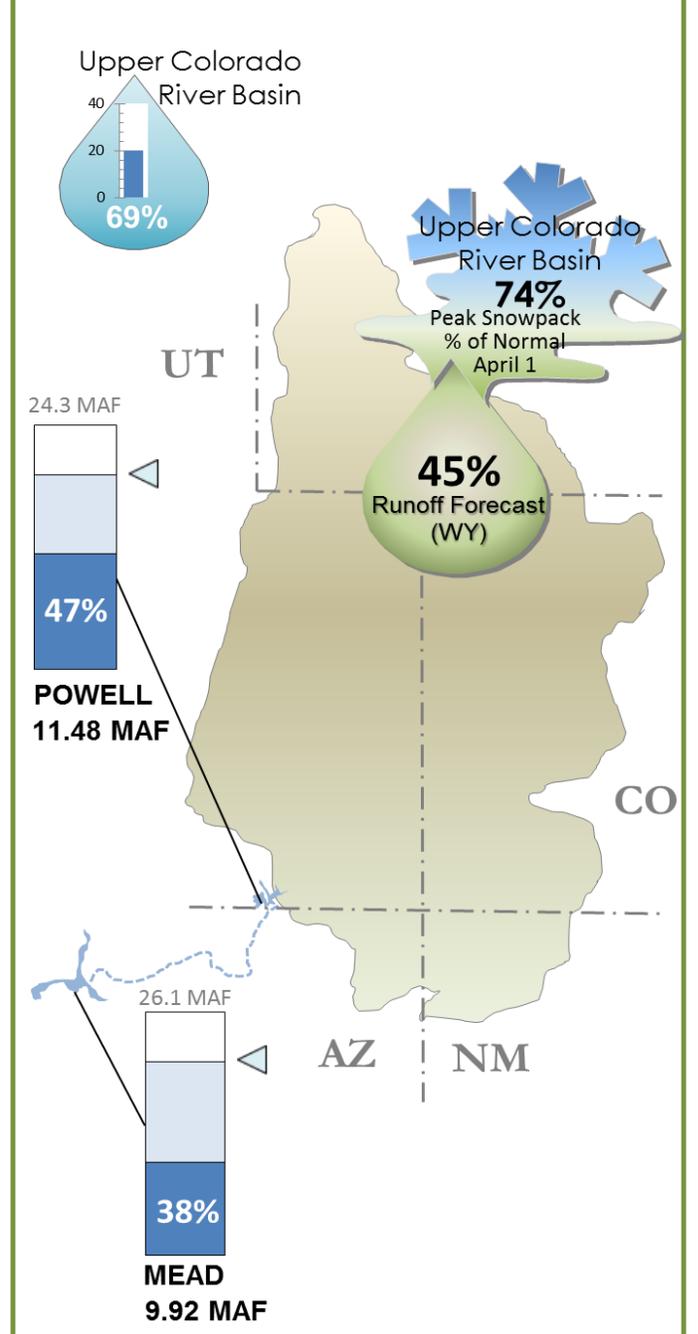


**2018 Colorado River**

836,221 AF

67% of full CRA

(Does not include storage withdrawals)





#### Useful information:

**AF**=acre-foot, the volume of water to cover an acre of land, one-foot deep.

Approximately 326,000 gallons of water, serves annual needs of two typical California families.

**TAF**=thousand acre-feet.

**MAF**=million acre-feet.

**PPT**=One part per trillion (1 ppt) is a proportion equivalent to one-twentieth of a drop of water diluted into a two-meter-deep Olympic-size swimming pool.

Metropolitan's Mission is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

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