

# THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA



## General Manager's Monthly Activity Report for June 2017

June 30, 2017

This report identifies the actions and activities taking place during the month that support the objectives of the General Manager's Fiscal Year 2016/17 Strategic Priorities and the Core Business of the GM's work groups.

### GM STRATEGY PRIORITY—EMPLOYEE DEVELOPMENT

The MWD Management Academy is a formalized training program comprised of nine sessions (one per month), which provide foundational knowledge of management. The goals of the Management Academy are to (1) Build “bench strength” of current and future talent, (2) Provide a realistic preview of management roles and responsibilities, and (3) Prepare for potential retirements and transitions. The first cohort of 28 employees in the MWD Management Academy attended an inspection tour of the Colorado River Aqueduct facilities and completed Session 3, which focused on Managing Self. *(see photos below)*



MWD Management Academy class takes their learning experience to Gene Camp and on an inspection trip.

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## CORE

### **BUSINESS PROCESSES**

Advance continuous business process improvements to improve effectiveness and efficiency while striving for innovation, flexibility, and integration with technology.

Implement innovative solutions for customers that will positively impact their business operations through improved quality, speed, simplicity, and cost improvements.

Metropolitan's EForms Management Program—EForms Management is now utilizing adaptive mobile form technology and is beginning the process of converting additional forms to this new format. This new innovative platform is a replacement of the current EForm environment and provides mobile functionality. In partnership with IT, this platform will allow managers to access and approve electronic forms via their mobile devices.

Information Governance—Staff has initiated efforts to improve the ability to manage Metropolitan's records. The first step in this effort is to properly identify electronic information and minimize redundant and outdated information. This is called Digital Asset Optimization. In preparation of the digital asset optimization, staff participated in a four-day professional training conducted by AIIM (Association for Information and Image Management, which focused on Electronic Records Management and Taxonomy and Metadata.

La Verne and Soto Street Warehouses—The expansion of the Soto Street warehouse was completed and the warehouse is fully operational. The warehouse was expanded by over 40 percent and stocked with items identified to support the expanding needs of employees who maintain and support Metropolitan's infrastructure. *(see photo right)*



Simplify access to business information.

Enterprise Content Management—In an effort to assist in reducing legacy records stored on-site, staff developed a process to assist Records Coordinators to inventory and classify records, determine retention periods, and determine if records should be sent to offsite storage or disposed of according to the Records Management retention schedule. Staff is currently working with Engineering Services and Water System Operations.

## BUSINESS PROCESSES continued...

Foster a workplace culture of innovation.

Point of Use Dispensing—Beginning in July 2017, high-use warehouse items will be accessible 24/7 with the implementation of point of use dispensing machines. The machines, specifically fabricated for Metropolitan, will be installed in three locations (La Verne, Diamond Valley Lake, and Lake Skinner) to test their ease of access and determine the feasibility of implementing at other locations.

Continue innovative sustainability efforts in business practices including, Spring Green Expo, Our Legacy Newsletter, the rideshare program, energy conservation, and recycling efforts.

Our Legacy e-Newsletter—The e-newsletter was distributed to all employees. The focus this month is Solar Power Your Life, which includes solar products that help save energy.

Implement comprehensive workforce succession planning and employee development programs.

Employee Development—In its commitment to the development of contracting staff, Contracting Services has developed a one-stop informational dashboard on six widely recognized professional certifications. These certifications will provide contracting staff the opportunity to expand their knowledge base and use it to deliver better customer service.

Management Development—In support of Metropolitan’s commitment to develop internal resources, the Administrative Services Section has developed a training program for its staff and management. The section’s management completed the first path of the developmental training in May 2017. Staff has finalized two additional paths to be implemented in July 2017. Path 2 will focus on the development of principal and senior level staff. Path 3 will focus on all levels of staff within the Administrative Services Section.

## STRATEGIC PRIORITY

### COMPLETE THE BAY DELTA CONSERVATION PLAN/ CALIFORNIA WATERFIX ENVIRONMENTAL IMPACT REPORT/STATEMENT

Pursue efforts in a lead capacity to complete environmental documentation, financing agreements, and associated permits necessary to implement California WaterFix and EcoRestore.

Pursue Decision on the State's Proposed Delta Improvements including the California WaterFix and EcoRestore.

#### California WaterFix

The release of the U.S. Fish and Wildlife Service and National Marine Fisheries Service Biological Opinions for California WaterFix occurred on June 26. Following this important milestone, action on the Final Environmental Impact Report/Environmental Impact Statement is expected.

## CORE

### BAY-DELTA SOLUTIONS

- Develop near- and long-term solutions that enhance the Delta ecosystem, improve water supply reliability, protect water quality, and mitigate environmental impacts.
- Participate in the State Water Resources Control Board (SWRCB) process considering petition for an additional point of diversion as part of the CA WaterFix project.
- Continue to work on efforts related to meeting the co-equal goals of contributing to a restored Delta ecosystem and ensuring a reliable water supply for California.

NEAR TERM – Develop near-term measures, compatible with long-term Delta solutions, to improve water supply reliability and water quality, and facilitate protection and enhancement of Delta ecosystems and associated species.

#### State Water Resources Control Board

The California WaterFix Petition proceedings before the State Water Resources Control Board are ongoing. Part 1 of the hearings addresses the effects of the proposed project on legal users of water. Staff is participating in the rebuttal phase of Part 1 in collaboration with the State Water Contractors, and Sur-Rebuttal for Part 1 of the hearing started on June 15. Part 2 of the hearings, which are scheduled to begin once the EIR/EIS is approved and Endangered Species Act permits are approved, will address the effects of the proposed project on fish and wildlife, including consideration of appropriate Delta flow criteria.

SCIENCE/REGULATORY – Pursue the best scientific research to protect and restore fish, wildlife, and the Delta's ecosystem while ensuring water supply reliability.

#### Science Activities

Staff continues to participate in the Collaborative Science and Adaptive Management Program. Staff provided technical input to the design of an adaptive management plan and monitoring studies to evaluate the outcomes of summer and/or fall flow actions for 2017. The actions include using augmented flows for the purposes of enhancing Delta smelt survival by routing the flows through either the main stem Sacramento River and/or the Yolo Bypass. Staff participates on the Flow Alteration Project Work Team, which is charged with developing the conceptual model and general research questions that would be important for promoting survival of Delta smelt.

**BAY-DELTA SOLUTIONS continued....**

SCIENCE/REGULATORY – continued...

Staff organized and participated in a half-day meeting with policy and technical staff from U.S. Fish and Wildlife Service to discuss possible improvements to its Enhanced Delta Smelt Monitoring Program (EDSM). Staff is supportive of the EDSM, but has commented that the EDSM cannot serve as a basis for estimating Delta smelt population and distribution until a full range of possible Delta smelt habitats have been sampled more thoroughly.

Staff attended the California Fish and Game Commission Delta Fisheries Forum, a meeting for interested stakeholders to explore and discuss the future of fisheries management in the Sacramento-San Joaquin Delta and identify potential California Fish and Game Commission actions to support and enhance the state’s current fisheries management goals. While there was disagreement regarding the magnitude of the impact of predation on salmonid smolts, there were some common outcomes for the commission to consider, including: (1) restating the directive of the California Department of Fish and Wildlife and where their work should be focused (salmon or bass); (2) a need for more research into life history diversity, abundance and distribution of predators; (3) a need for more collaboration between agencies, public, and the private sector; and (4) placing management actions into a holistic and adaptive management framework.

**EMERGENCY RESPONSE** – Ensure that Delta emergency response measures are implemented, including actions to develop a freshwater pathway after a major emergency event in the Delta.

Delta Flood Emergency Management Plan

DWR is documenting results of their Emergency Response Tool (ERT) simulation runs, which will lead to completion of the Delta Flood Emergency Management Plan. The ERT runs have demonstrated strategies to limit the period of export disruption to less than six months following the breach of multiple levees and island flooding.

DWR and the U.S. Army Corps of Engineers (USACE) are nearing completion of their Delta Emergency Operations Integration Plan. The purpose of the Integration Plan is to define how personnel and resources from DWR and USACE integrate operations during flood emergencies and how the agencies interact under state and federal emergency operations.

The California Office of Emergency Services has indicated that their Northern California Catastrophic Flood Management Plan, including the Delta region, has been briefed to their executives and is approaching completion. The Plan elements were put into practice at an interagency level during the Orville spillway failure emergency operations and performed favorably.

**CFO  
PRIORITY**

## **BUSINESS CONTINUITY**

Facilitate district-wide planning and training to prepare employees and managers to effectively carry out critical roles and recover mission essential functions thus ensuring continuity of operations in the event of a disaster.

Manage Business Continuity Program in accordance with Operating Policy A-06.

- Completed the business continuity plan template updates and worked with the vendor to implement into the Fusion system. Additional enhancements continued to be made to the system as well.
- Developed an enhanced structure in the MIR3 Emergency Notification System to more effectively serve Metropolitan's communication needs. Weekly meetings are taking place with the core group of MIR3 users to develop procedures, communication templates, and a suggested framework for authority/responsibility for sending emergency communications.
- Developed materials and facilitated two business continuity exercises for the Engineering Services Group. This lays the foundation for plan updates and ongoing related activities.
- Provided a status update of the business continuity program to the Group Managers and requested they review and update the main planning contacts to liaison with the Business Continuity Program Manager.
- Presented an overview of Metropolitan's business continuity program to the Los Angeles County Office of Emergency Management and a special task force comprised of members throughout Los Angeles and Orange Counties.

**CORE**

## **RISK MANAGEMENT**

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

The Risk Management Unit completed 54 incident reports communicating instances of Metropolitan property damage, liability, workplace injuries, regulatory visits and spills.

Risk Management completed 52 risk assessments on contracts, including professional service agreements, construction contracts, entry permits, special events and film permits.

**CFO  
CORE**

## **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.

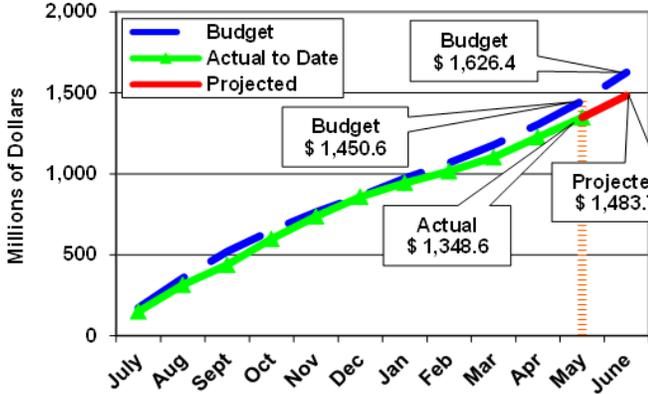
Manage Business Continuity Program in accordance with Operating Policy A-06.

On June 1, 2017, Metropolitan successfully closed the \$238.0 million Subordinate Water Revenue Refunding Bonds, 2017 Series A. The 2017 Series A bonds refunded approximately \$243.1 million of outstanding water revenue bonds, for present value debt service savings of approximately \$4.70 million. The 2017 Series A bonds are the first part of a larger plan of finance that includes the issuance of an additional \$380 million of refunding bonds and \$80 million of new money bonds, which are expected to close on July 3, 2017.

# CHIEF FINANCIAL OFFICER

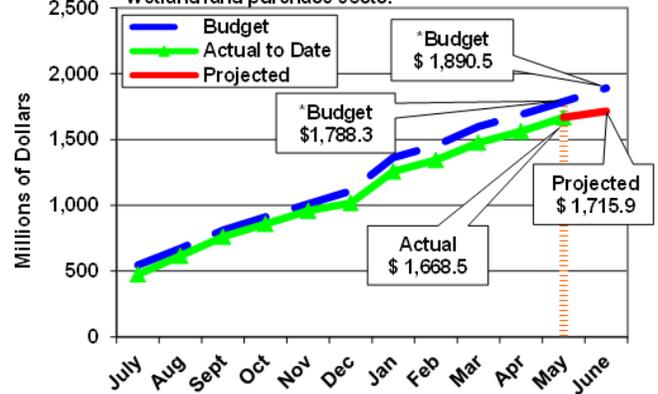
## FINANCIAL SUMMARY AS OF May 31, 2017

Revenues are expected to be \$142.7M under budget at year end, primarily due to lower water sales.



Excludes bond construction and other trust funds activity

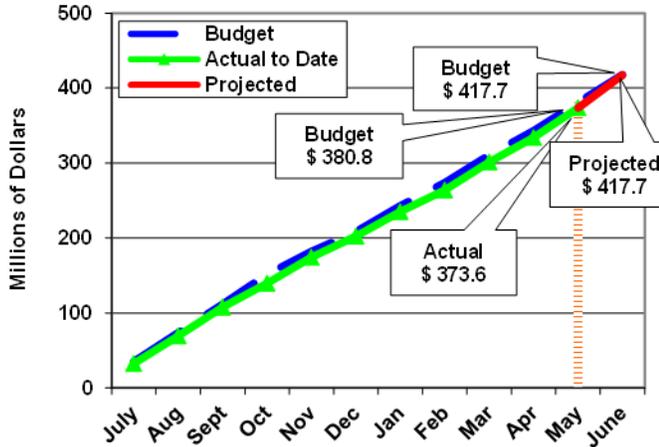
Expenses are expected to be \$174.6M under budget at year end, primarily due to lower SWP, supply program costs, CRA costs, Conservation program costs, and Delta Wetland land purchase costs.



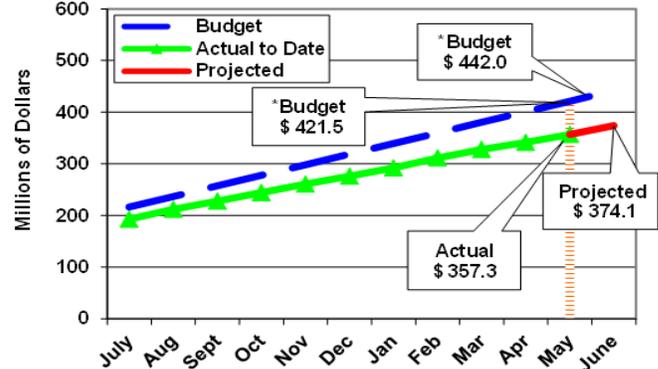
Excludes bond construction and other trust funds activity.

\*Includes \$196M Board-approved purchase of Delta Wetlands, of which \$174M has been spent.

O&M expenses are expected to be on budget at year end.

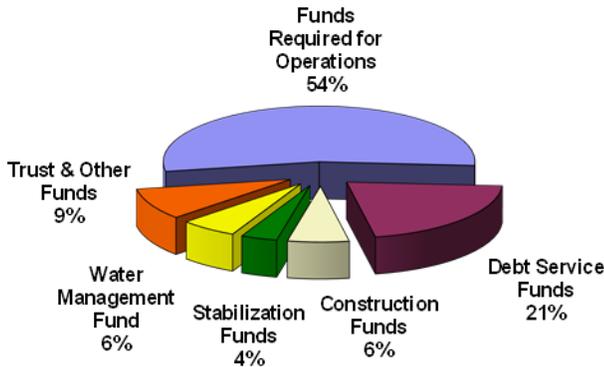


Capital Program expenses are expected to be \$68M under budget at year end, including \$22M lower cost of Delta Wetlands land purchase and \$46M lower CIP costs due to work prioritization and project rescheduling.



\* Includes \$196M Board-approved purchase of Delta Wetlands, of which \$174M has been spent.

### Cash and Investments at Fair Value \$ 1,360.3 million



### Summary Financial Statistics

	Target	Year-End Projected
Fixed Charge Coverage	≥ 1.20 x	1.28 x
Senior Lien Revenue Bond Coverage	> 2.00 x	1.50 x
Revenue Bond Debt / Equity Ratio	< 100.0%	62.0%

### Credit Ratings

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

## CORE

### INFRASTRUCTURE RELIABILITY

Manage Board-authorized projects in the Capital Investment Plan and collaborate with the Water System Operations Group to identify and address system vulnerabilities to ensure reliability of the region's water treatment and delivery infrastructure. In addition, coordinate closely with WSO to integrate project planning and facility assessment efforts with near-term actions and planned shutdowns.

Manage and complete Board-authorized projects within the 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:

- Etiwanda Pipeline Lining Repairs—This project replaces the Etiwanda Pipeline's damaged interior mortar lining with a polyurethane coating. The pipeline will be relined in three stages. The first two stages are complete and design of the Stage 3 repairs is scheduled to be complete by July 2017.
- DVL East Dam Electrical Upgrades—This project provides permanent electrical service to the seepage monitoring structures at the DVL East Dam and to the East Marina area. This project will connect these facilities to the new incoming electrical service from Southern California Edison. Construction is 85 percent complete and is scheduled to be complete by August 2017.
- Orange County Feeder Lining Repairs—This project replaces the deteriorated internal lining along an 11-mile portion of the Orange County Feeder within the cities of Santa Ana, Costa Mesa, and Newport Beach. Construction of the initial two-mile reach is 95 percent complete and is scheduled to be complete by July 2017. Final design for the remaining three reaches is 65 percent complete and is scheduled to be complete by April 2018. *(see photos below)*
- Santa Ana River Bridge Expansion Joint Replacement—This project replaces an existing leaky expansion joint with a new bellows-type expansion joint along the Upper Feeder at the Santa Ana River Bridge. A request to the Board for award of a construction contract is planned for August 2017.
- Garvey Reservoir Drainage and Erosion Improvements—This project installs permanent drainage systems and erosion control features at Garvey Reservoir that will reduce the risk of flooding and damage from storm events. The planned improvements will address 11 drainage zones along the western and southern perimeters of the reservoir. Construction of the improvements will proceed via a series of minor construction contracts. A request to the Board for award of the initial construction contract is planned for August 2017.



Orange County Feeder Lining Repairs – Installation of access manhole



Orange County Feeder Lining Repairs – Site restoration

## INFRASTRUCTURE RELIABILITY *continued...*

### Distribution System Reliability Program continued....

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 31 percent complete and is scheduled to be complete by August 2018. *(see photos next page)*

Lakeview Pipeline/Inland Feeder Intertie—Construction of the piping portion of this drought-response project was completed in October 2014, providing a backup supply to the Mills plant from Diamond Valley Lake. A planned valve installation contract will replace removable pipe spools that were installed during the original construction (in lieu of three large-diameter valves) due to the long lead-time required to manufacture the valves and actuators. Fabrication of the valves is now complete, and a request to the Board for award of a construction contract is planned for August 2017.



Palos Verdes Reservoir Rehabilitation – Concrete formwork for Second Lower Feeder Inlet



Palos Verdes Reservoir Rehabilitation – Grading for new inlet structure box culvert

### Water Quality/Oxidation Retrofit Program (ORP)

This program adds ozonation facilities which reduce disinfection by-products and improve water quality at Metropolitan’s five water treatment plants. Recent activities include the following:

#### Weymouth ORP

- Main Ozonation Facilities—The main ORP construction contract was completed in May 2017. Remaining activities include control system integration, start-up and testing, permitting with the State Division of Drinking Water, and preparation of Operation and Maintenance manuals. These activities are 70 percent complete and are scheduled to be complete by December 2017.
- ORP Bromate Control Upgrades—These chemical system upgrades are needed for integration of the new ozone system into the Weymouth plant’s treatment process. Construction is 78 percent complete and is scheduled to be complete by June 2018.

## INFRASTRUCTURE RELIABILITY continued...

Prestressed Concrete Cylinder Pipe (PCCP) Rehabilitation Program

This program enhances the reliability of Metropolitan's water distribution system and reduces the risk of costly emergency repairs of PCCP lines. 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 the first pipeline rehabilitation package is complete.
- Pipeline Inspections—A key component of Metropolitan's strategy for management of its PCCP feeders is to perform regular monitoring of the lines. Electromagnetic inspections of portions of the Calabasas Feeder and West Valley Feeder No. 2 were completed in March 2017. Results from the inspections were received in June and no new wire breaks were detected..

Treatment Plant Reliability Program

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

## Mills Plant

- Chemical Unloading Facility Containment System—Construction of the containment system is 99 percent complete and is scheduled to be complete by July 2017.

## Diemer Plant

- East Basin Rehabilitation—This project rehabilitates aging mechanical equipment and the electrical and structural components within the east flocculation/sedimentation basins. Construction is 85 percent complete and is scheduled to be complete by August 2017.
- Administration Building Seismic Upgrades—This project provides seismic and fire safety upgrades to the Administration Building at the Diemer plant. Construction is 15 percent complete and is scheduled to be complete by April 2018.

## Jensen Plant

- Electrical Upgrades, Stage 1—This project replaces electrical equipment, provides backup in the event of individual component failures, and upgrades the Jensen electrical system. The work will be completed in three stages. Construction of Stage 1 is 79 percent complete and is scheduled to be complete by February 2019.

## Weymouth Plant

- Filter Rehabilitation—This project replaces the internal components of the plant's 48 filters, including the underdrains, media, launder troughs, and surface wash systems. Construction is 92 percent complete and is scheduled to be complete by December 2017. *(see photo right)*

Weymouth Filter Rehabilitation – New aluminum handrail at filters



## INFRASTRUCTURE RELIABILITY continued...

Cost Efficiency and Productivity Program

This program provides economic savings through enhanced business and operating processes and through reduced energy costs. Recent activities include the following:

- Jensen Solar Power Plant—This project constructs a 1-megawatt solar generating facility on the grounds of the Jensen plant in Granada Hills. Construction is 70 percent complete and is scheduled to be complete by August 2017.

Colorado River Aqueduct (CRA) Reliability Program

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

- Sand Trap Rehabilitation—This project replaces deteriorated sand trap equipment located upstream of Iron Mountain, Eagle Mountain, and Hinds Pumping Plants. Construction is 89 percent complete and is scheduled to be complete by August 2017.
- Expansion Joint Repairs—This project repairs 16 expansion joints located on the pump delivery lines at the five CRA pumping plants. Construction is 20 percent complete and is scheduled to be complete by December 2017.
- 6.9 kV Switch House Building Seismic Upgrades—This project performs structural upgrades to the 6.9 kV switch houses at each CRA pumping plant. Construction is 45 percent complete and is scheduled to be complete by July 2018.
- Copper Basin & Gene Wash Reservoirs Discharge Valve Rehabilitation—This project rehabilitates the discharge structures at Copper Basin and Gene Wash Reservoirs. The project scope includes replacement of the fixed cone valves at the base of the dams; upgrade of the electrical systems; and access improvements to safely enable construction personnel, materials, and equipment to reach the work site. Fabrication of the valves is 15 percent complete and valve delivery is scheduled for February 2018. Preliminary design to improve access is underway and will be complete by summer 2017. Final design of the valve installation is 35 percent complete and is scheduled to be complete by December 2017.
- CRA Surge Chamber Line Bypass Cover—This project prevents water in the surge chamber from overflowing into a bypass line. Final design is 95 percent complete and is scheduled to be complete by December 2017.
- Conduit Structural Protection—This project adds protection over the aqueduct cut-and-cover conduits at 22 siphons where there is vulnerability to heavy vehicle and equipment loading. Design is 27 percent complete and is scheduled to be complete by December 2017.
- CRA Motor Cable Replacement—This project replaces the electrical cables that provide power to the main pump motors. Design is 78 percent complete and is scheduled to be complete by December 2017.
- CRA UPS Replacement—This project will replace the uninterruptible power supply (UPS) system at the 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. Design is 95 percent complete and is scheduled to be complete by July 2017.

## STRATEGIC PRIORITY

### EDUCATE THE PUBLIC AND STAKEHOLDERS ON CRITICAL WATER SUPPLY CONDITIONS AND CRITICAL WATER MANAGEMENT DECISIONS

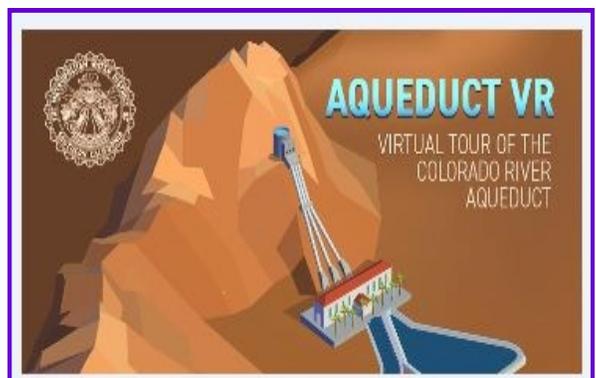
External Affairs will develop and maintain relationships with the public, legislative leaders, government officials, non-governmental organizations, and other stakeholders, and implement effective and diverse communication and outreach strategies on the value of water, current water supply conditions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

Recognizing there is a new normal that is directly impacting California water conditions, inform key stakeholders, 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.

- Chairman Record was honored at the Western Riverside Council of Government's Annual General Assembly and Leadership Address event for his longstanding service to the region, including his leadership at Metropolitan. The event, which was sponsored by Metropolitan and attended by more than 500 elected officials, business leaders and community groups, featured discussions on regional issues and successful cross-jurisdictional partnerships. (June 22) *(See photo below)*
- In response to strong media interest about California WaterFix, provided information to reporters and arranged interviews with General Manager Kightlinger, Assistant General Manager Patterson and Bay-Delta Initiatives Manager Arakawa with Sacramento Bee, Stockton Record, Los Angeles Times and the Los Angeles News Group.
- Directors Ackerman, Barbre, Beard, Dick, Gold, Lefevre, McKenney and Peterson attended and General Manager Kightlinger was a featured speaker at the 10th Annual Orange County Water Summit sponsored by Municipal Water District of Orange County. Kightlinger discussed water supply issues and some of the many Metropolitan initiatives and activities to ensure regional reliability now and in the future. (June 16)
- Director Gray participated in the opening ceremonies of the USA City Games (formerly the Watts Summer Games) and spoke about the importance of water for healthy sustainable communities. Metropolitan hosted an exhibit booth at the event and provided participants with information about water conservation and rebates. (June 19)
- Metropolitan introduced new apps for Android and Apple mobile devices that feature 360-degree, virtual reality tours of the Colorado River Aqueduct system. The tours are available in English and Spanish and bring to a large and diverse group of viewers a unique learning experience about Metropolitan's Colorado River aqueduct and its importance to Southern Californians now and in the future. *(see photo below)*



Chairman Record being honored by Western Riverside Council of Government's Chair Ben Benoit, incoming Chair Debbie Franklin, and public service honoree Rose Mayes at their annual General Assembly and Leadership Address.



Virtual reality tour of the Colorado River Aqueduct using smartphone application.

## STRATEGIC PRIORITY

### EDUCATE THE PUBLIC AND STAKEHOLDERS ON CRITICAL WATER SUPPLY CONDITIONS AND CRITICAL WATER MANAGEMENT DECISIONS *continued...*

Increase awareness and advance public understanding of the current and anticipated risks to Southern California's water supply reliability and the need to prepare for potentially drier and more volatile supply conditions and impacts due to climate change.

Metropolitan sponsored and staff from External Affairs, Bay-Delta Initiatives and Environmental Services participated in the Coalition for Clean Air annual event, which recognized leaders from government, business and citizen advocacy for their work on clean air, reduced emissions and climate change adaptation. Metropolitan had the opportunity to share information about its work to ensure reliable and sustainable water supplies to the region, its commitment to environmental stewardship and current activities to address climate change impacts. (June 9) *(see photo right)*



## CORE

### 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.

**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.

#### Federal

- Continued to work with the Coalition to Protect Water Conservation and met with U.S. Treasury Department officials regarding an administrative ruling acknowledging the tax-exempt status of water conservation rebates. (June 1)
- Participated in a briefing on the status of an interstate effort to preserve the tax-exempt status of municipal bonds. (June 7)
- Provided briefings to the offices of Senator Feinstein and Representatives Calvert and Napolitano on the status of environmental review and the pending state-federal Record of Decision regarding the California WaterFix project.
- Participated in federal water policy discussions during the Western Coalition of Arid States Conference in San Diego. (June 22-23)

## LEGISLATIVE SERVICES continued...

**State**

Staff attended the California Chamber of Commerce's Legislative Summit in Sacramento and participated in legislative meetings with the Chambers Commerce Alliance of Ventura and Santa Barbara counties. The delegation met with staff from the offices of Senators Jackson, Wilk and Stern and Assemblymembers Limon, Acosta, Irwin and Cunningham to discuss key issues impacting businesses. (June 1)

Staff participated in a lobbying trip to Sacramento with the Valley Industry and Commerce Association. Business leaders from the region met with elected officials and the administration to discuss a variety of topics including water. (June 28)

Making Water Conservation a Way of Life

Three major conservation bills, AB 1323 (Weber, D-San Diego), AB 1654 (Rubio, D-West Covina) and AB 1668 (Friedman, D-Glendale), were approved by the Assembly and will be heard by the Senate Natural Resources and Water Committee on July 11. Two other bills on water use reduction targets were held by the Assembly Appropriations Committee in late May.

The bipartisan Assemblymember conservation working group, established by Assembly Water, Parks and Wildlife Committee Chairman Garcia, adopted five general principles to govern the workgroup's engagement going forward. The Brown Administration is pulling back on moving a budget trailer bill to allow policy bills to be considered as part of the legislative process, but will remain engaged in the policy discussions.

Public Goods Charge

SB 623 (Monning, D-Carmel) would establish a fund for disadvantaged communities that do not have access to safe drinking water. The bill passed the Senate and the author is working with the Community Water Center and Water Foundation. The Senator has discussed plans to establish a "ratepayer assessment" (i.e., tax or fee) on water, with additional funding from a statewide tax on fertilizer products. SB 623 would require two-thirds approval by the Legislature. ACWA, CMUA and individual water agencies have pledged their commitment to work with the author and sponsors on a mutually agreeable approach.

**Local**

- Metropolitan staff provided the Associated General Contractors of California's Los Angeles Board of Directors with an update on the current water supply conditions and issues. (June 6)
- Staff participated in the Independent Cities Association's annual conference with local elected officials from Los Angeles County to discuss policy issues, including California WaterFix, water supply conditions and current legislation. Representatives from Metropolitan's member agencies from Glendale, Long Beach, Santa Monica, Pasadena, Beverly Hills and Los Angeles were in attendance. (June 8-11)
- Director Blois and Metropolitan staff attended the Oxnard Chamber's Business Awards in Oxnard to honor distinguished business leaders in the city. Director Blois' former firm Blois Construction, Inc., received the Large Business of the Year Award. (June 8)
- Metropolitan hosted a Sacramento region and Delta briefing and tour for the Inland Empire Economic Partnership's Regional Leadership Academy participants. The group of 29 business leaders represented various stakeholder groups from Riverside and San Bernardino counties. The group also met with members of the Inland Empire legislative caucus to discuss regional issues. (June 13)

LEGISLATIVE SERVICES continued...

**Local** continued...

- Staff attended the Santa Monica Chamber of Commerce’s Annual Leadership Installation Dinner. (June 14)
- Director Peterson, Metropolitan staff and representatives from Calleguas Water District attended the Association of Water Agencies of Ventura County’s Waterwise Breakfast in Oxnard. More than 100 water leaders attended to discuss watershed coordination of water supplies in Ventura County. (June 16)
- Metropolitan staff attended the Los Angeles County Division of the League of Cities’ Annual Economic Conference in Long Beach. More than 300 business leaders attended to discuss the economic drivers and status of the region. (June 21)
- Metropolitan staff participated in the Glendale Chamber of Commerce’s 2017 event recognizing the Chamber’s new board officers. (June 23)
- Staff attended the United Chamber of Commerce’s of San Fernando Valley’s annual Mega Mixer in Van Nuys, where more than 200 business leaders met to discuss regional issues, including supply conditions and proposed water infrastructure projects. (July 29)
- Metropolitan sponsored and staff participated in the Pacoima Beautiful’s Environmental Justice Awards honoring Senator de Leon, Los Angeles County Supervisor Kuehl, and Los Angeles Board of Public Works Vice President Repenning. (June 29)
- Metropolitan held a legislative briefing with Senator Henry Stern in his district office in Calabasas. (June 30)

**Inspection Trips**

Nearly 300 stakeholders participated in eight inspection trips to learn more about the State Water Project, Bay Delta, Colorado River system and Metropolitan’s regional infrastructure facilities.

**MEDIA AND COMMUNICATIONS** - Communicate Metropolitan’s policy priorities, actions and initiatives through various means to raise public awareness, enhance the district’s visibility and cultivate support for district priorities. Update and develop new communications tools, materials and platforms to ensure Metropolitan information reaches diverse audiences

**Awards**

Metropolitan received the 2017 Public Communications Award from the American Water Works Association at the national conference in Philadelphia. Metropolitan also received eight major awards, the most received by any local public agency, from the National Association of Government Communicators at its annual meeting in St. Louis. *(see photo right of the awards)*



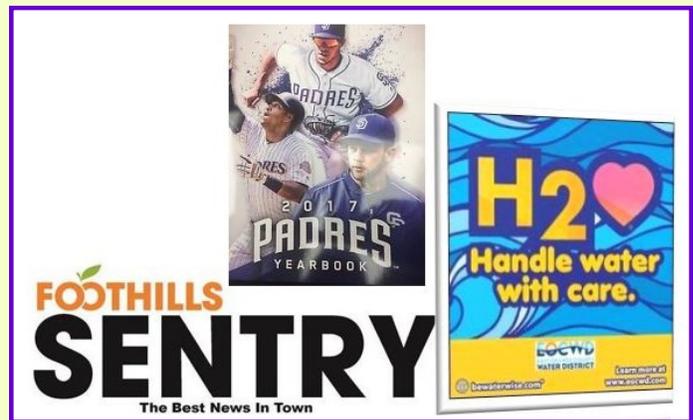
MEDIA AND COMMUNICATIONS continued...

**Water Conservation Campaign**

- The H2Love spring paid media campaign concluded this month. Using billboards, bulletins, posters on transit shelters, wraps on busses and Metro rail lines, and digital and social media, the campaign generated about 350 million impressions and positive press coverage. A short video showcasing the highlights of the campaign was produced and posted online.
- Sponsorship activities with the LA Galaxy will continue through the summer and consist of stadium signage, videos on digital scoreboard and field board media, and an H2Love Title Night event. Staff worked with LA Galaxy goalie Brian Rowe to film a new public service announcement calling on Southern Californians to continue conserving water. *(see photo below)*
- Metropolitan partnered with the state of California/ACWA Save Our Water campaign on a month-long advertising sponsorship of weather segments of the NBC morning news shows in Los Angeles and San Diego, and on KPPC radio in Los Angeles.
- The H2Love campaign has a featured spot on the inside front cover of the San Diego Padres 2017 Yearbook. The *Foothills Sentry* community newspaper and website is featuring the H2Love campaign in a partnership with the East Orange County Water District. *(see photo below)*



LA Galaxy Goalie Brian Rowe



**Press Releases**

Metropolitan joined with western water districts and federal agencies to approve new grants for water-saving projects as part of the joint Innovative Conservation Program.

**Social Media**

Metropolitan's education programs received over 29,000 impressions using #solarcup, #waterart, #thinkh2o, #mwdeducates through @bewaterwiseh2o and @mwdh2o on Twitter, Facebook and Instagram.

**Website**

More than 22,500 people visited the English, Spanish, and Chinese versions of bewaterwise.com for tips and ideas on how to conserve water.

## MEDIA AND COMMUNICATIONS continued...

**Communications Activities**

- Coordinated with Metropolitan science team to produce on-site interviews of Delta region habitat and science activities for video blogs.
- Completed and distributed Metropolitan's 2016 Water Quality Report.
- Sponsored the PBS series, A Growing Passion, an award-winning TV and online garden lifestyle program that explores California gardens, native habitat, green rooftops and community gardens.
- Special Projects Manager Westford provided public comment on Metropolitan's leadership and fiscal integrity, and responded to misinformation by San Diego County Water Authority officials at the following meetings:
  - Otay Water District (June 7)
  - El Cajon (June 13)
  - City of Chula Vista (June 20)
  - Vallecitos Water District (June 21)
  - Helix Water District (June 21)

**Media Interviews**

- Issued press statement from and arranged media interviews with General Manager Kightlinger in response to state Court of Appeal's favorable ruling upholding Metropolitan's transportation rates charged as part of its exchange agreement with the San Diego County Water Authority.
- Set up interview with Assistant General Manager Breaux and Voice of San Diego reporter to dispute San Diego County Water Authority claims of Metropolitan budget mismanagement.
- Arranged taped interview with Solar Cup Project Manager Kalbacher and KNX radio Los Angeles to discuss the May 2017 Solar Cup competition.
- Arranged live, on-air TV interview with Metropolitan's press officer Muir and KCBS-TV Channel 2 Los Angeles reporter for a story about hiking trails near Metropolitan's Eagle Rock command center. Also provided similar information to the Pasadena Star News, Curbed Los Angeles and the Eastsider.
- Provided information to Los Angeles Times reporter about fishing conditions in Diamond Valley Lake and Lake Skinner for a story on the quality of sports fishing at local reservoirs. Also provided information to *Bassmaster* magazine about sport fishing at Diamond Valley Lake.
- Provided a response to *Voice of San Diego* reporter about a San Diego County Water Authority public push poll asking Southern California residents their views about Metropolitan.
- Provided information to *Business Life* magazine about the continued importance of water conservation.
- Provided information to the *Orange County Register* about Metropolitan's ongoing efforts to limit the spread of the invasive quagga mussel in Metropolitan's distribution and storage system.

**Online**

Launched a revised web page for California WaterFix and an update toolkit with easy to use materials and informational resources. The site is accessible through Metropolitan's main homepage and from the MWDWaterTomorrow.com portal.

Using Facebook Live, broadcast portions of Metropolitan's *Pilots and Trials* workshop, which was viewed more than 900 times.

Paid online search on Google Search and the Google Content Network continued this month. Links to [bewaterwise.com](http://bewaterwise.com) appear when keywords such as "water," "California weather," and "water rebates" are searched for by Southern California users.

**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 the district.

Public Outreach for Metropolitan Projects

Staff responded to community concerns and worked with Los Angeles City Councilmember Huizar’s staff and representatives from the Collaborative Eagle Rock Beautiful to address issues regarding access to hiking trails in the vicinity of Metropolitan’s Eagle Rock facility.

Metropolitan staff held meetings with local government staff, organizations and members of the public for the following projects:

- City of Lakewood and Lake Forest regarding planning and outreach for upcoming construction projects
- Provided notice to 70 residences and businesses for the Orange County Feeder shutdown
- Provided a CIP update for the Business Development Association of Orange County.

Staff made a presentation on California’s water challenges at the 4th Annual California Water Summit. (June 21)

Provided a tour of the Weymouth treatment plant and Water Quality Lab for the Southern California Water Utilities Association. (June 22)

Member Services

Metropolitan provided an update for the Central Basin MWD Water Education Tour. (June 28)

Community Partnering Program

Metropolitan sponsored and provided conservation and water issue materials at the following events:

- VerdeXchange water workshop (June 1)
- Los Angeles Neighborhood Land Trust garden conference (June 11)
- Orange County Water District’s Water Summit 2017 (June 16)



University of La Verne students on tour (see story next page)

**LEGISLATIVE, COMMUNICATIONS, COMMUNITY RELATIONS, PUBLIC AND BUSINESS OUTREACH**  
continued...

**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 youth for the value of clean, reliable water supplies and the importance of good water stewardship.

General Education

Staff supported field trips, activities and classroom presentations for Career Day events in Chino and San Bernardino, at Our Redeemer Lutheran School, and teacher meetings with Brawley High, Palo Verde Desert Compadres, and the University of La Verne REACH program. Staff directly interacted with 900 students and teachers. *(see photo on page 18)*

Student Art Program

The Student Art Exhibit was hosted at Diamond Valley Lake and Walnut Valley Water District.

Diamond Valley Lake Education Program

The Visitor Center hosted field trips for 400 students from Sunny Sands, Tuscany Hills Elementary, North Broadway Elementary, Escondido Elementary, Mesa View Elementary and Railway School. Docents hosted more than 300 visitors at the center and guided 340 people to the viewpoint.

Facilitate opportunities for small businesses to work with Metropolitan. Help position Metropolitan as a leader in water resource/systems innovation.

Supported small businesses throughout the region through participation and sponsorship of the following programs, conferences and events:

- Metropolitan participated in the first annual 2017 Small Business Summit with the Los Angeles Mayor's Office of Economic Development to provide information to 400 participants representing small, disadvantaged and disabled veteran business enterprises. (June 1)
- Metropolitan hosted the Asian American Architects/Engineers Association (AAa/e) annual scholarship event, which has awarded more than \$200,000 in student scholarships. (June 1)
- Staff attended the American Indian Chamber of Commerce annual luncheon to recognize community members for their contributions to the region's economic development. (June 1)
- About 100 small businesses attended a certification panel program where staff from Metropolitan, the State of California, the county of Los Angeles and the U.S. Small Business Administration provided assistance with business opportunities. (June 1)
- Metropolitan sponsored and participated in workshops at the California Small Business Day Awards and Expo Program in Sacramento. State legislators recognized small businesses in their districts. (June 5)
- Staff presented upcoming CIP opportunities to 40 attendees representing contractors and professional service companies at the Orange County Business Development Association. (June 8)
- Staff attended the Asian Business Association Inland Empire board meeting to discuss events and programs that promote Asian American businesses in the region. (June 13)
- Business Outreach and Government Relations staff attended, sponsored and made a presentation on California WaterFix to the National Association of Women Business Owners awards program. (June 16 and 19)

**LEGISLATIVE, COMMUNICATIONS, COMMUNITY RELATIONS, PUBLIC AND BUSINESS OUTREACH**  
continued...

Small businesses continued....

- Staff attended and exhibited at the Women’s Business Enterprise National Conference. (June 20)
- Metropolitan joined more than 800 attendees at the 2017 OCTANe Technology Investor Forum, the largest technology innovation and investment conference in Southern California. The conference presented Metropolitan with an opportunity to discover new energy and water technologies, meet innovators and entrepreneurs, attend strategic sessions, and view innovative products and services. (June 1-2)
- Director Dake attended and Group Manager Upadhyay provided opening remarks at Metropolitan’s first *Pilots & Trials* workshop, which was attended by more than 100 representatives from member agencies, water utilities, academia and technology incubators. Staff facilitated the discussion of 10 new technologies piloted by Metropolitan, its member agencies and other water utilities. (June 21)



**STRATEGIC  
PRIORITY**

**EMPLOYEE DEVELOPMENT**

Recruitment activity will be expanded to fully replace all retirements and add some positions to bring the work force to approximately 1,800 positions over the next two years. Increased cross-training and employee development efforts will be needed to meet the challenge of increased retirements brought about by an aging workforce.

Partner with district and group leadership to support learning, development and workforce planning initiatives.

HR Staff continued to administer the CPI 260 Assessment tool and debriefed the results and conducted one-on-one coaching sessions for the MWD Management Academy participants.

Software training consisting of two-hour modules was conducted at the Weymouth plant on the following topics:

- MS Outlook – Managing emails, Calendar and Tasks
- Skype for Business

Delivered a session on Success Signals training on styles for effective communication, a two-day *Everyday Business Writing*, and a *Project Management Essentials* class.

Thirty-one employees participated in an inspection tour of the Colorado River Aqueduct facilities as part of the General Manager’s initiative to provide exposure to water operations to all employees.

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

During the past month, Staffing has filled 18 positions and received 19 new requisitions. Included in the filled positions are 10 student interns for desert facilities as well as the new Information Technology Group Manager.

Staffing is currently recruiting for 149 positions, including finalizing the recruitment for the Chief Operating Officer / Assistant Group Manager.



Metropolitan Management University class exercise for Interpersonal Effectiveness



## HR PRIORITY

### ENSURE EFFECTIVE PEOPLE MANAGEMENT

Provide consultation, guidance, standards, policies, procedures and learning opportunities to ensure that employee experience is enhanced as they are appropriately managed, evaluated, engaged, motivated, developed, recognized and valued.

Ensure Metropolitan managers have the foundational knowledge and on-going support to effectively manage employees.

- The fourth cohort of managers of Metropolitan Management University (MMU) attended Module 5, which focused on enhancing Interpersonal Effectiveness. *(see photos on page 21)*
- Module 2 was conducted for 15 Unit Managers in the MMU Graduate program. Staff continued administering the 360 degree feedback process for participating managers.
- Two managers attended an Institute for Management Studies full-day seminar on *How to use Advocacy Skills to Influence Action in the Workplace*.

## CORE

### Provide Excellent HR Services

Human Resources provides a wide range of services and support from pre-hire to post-retirement care. To ensure our services add value and meet the needs of all employees, we will review and revise HR policies, procedures and practices as appropriate to continually improve service and better utilize technologies.

- In June, the Association of Confidential Employees finalized a new five-year Memorandum of Understanding that will run through December 31, 2021.
- Completed testing for the annual MyHR system update and maintenance. This ensures internal system reliability to help ensure compliance, apply fixes and new functionalities.
- HR Benefits participated in the June 8 New Employee Orientation Day 2 at Gene Pumping Plant by conducting a presentation informing the attendees of their Metropolitan benefits and CalPERS benefits.
- HR Benefits also launched a new presentation at Gene on June 18 entitled *Your Survivor's Benefits and Beneficiary Designation*. This new class provided the attendees with information about what type of benefits their survivors would be eligible to receive if the employee passed away while actively employed and the importance of having an updated Metropolitan and CalPERS Beneficiary designation on file.

## CORE

### COMPLY WITH EMPLOYMENT LAWS AND REGULATIONS

Ensure all policies, programs and practices comply with ever-change laws and regulations.

Effectively administer all Human Resources policies, programs, and practices in compliance with applicable federal and state laws and Metropolitan Administrative Code, Operating Polices, and Memorandum of Understanding.

Workers' Compensation/Medical Screening:

- Conducted initial investigations on 7 injury incidents
- Submitted 5 new claims to Metropolitan's workers' compensation claim administrator
- Settlements were negotiated in 1 claim and finalized in 1 claim, and 14 claim files were closed
- Conducted MedVan evaluations at Jensen facility
- Arranged 6 medical evaluations (DMV, medical surveillance, hearing conservation, etc.)
- Coordinated random drug/alcohol tests at 3 Metropolitan facilities
- Addressed 4 workplace accommodation issues.

## INFORMATION TECHNOLOGY

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

Upgrade and refurbish Information Technology applications and infrastructure to ensure system reliability and performance levels that meet customer needs.

Data Center Storage Upgrades—The project team is planning deployment of all Production Server Data Migrations, based on customer's preferred schedule to ensure minimum impact on their business.

Voice over Internet Protocol Technology—The project team deployed new phones at the Sacramento office (31 phones and 2 Polycoms). Staff completed on-site training for Sacramento users and resolved minor issues during the telephone deployment. Next step, complete plans for the remaining phone deployment at Headquarters Building.

Implement innovative solutions for customers that will positively impact their business operations through improved quality, speed, simplicity, and cost improvements.

IT Metrics Program—Staff implemented the Service Level Agreement to better clarify business line customers' expectations. Also, implemented IT Work Request form as a vehicle to capture business line customer requirements. Finally, developed a new process to track all costs across all areas within IT. Next step is to start implementing the process and accumulate detailed costs with this system next fiscal year.

Update Information Technology Strategic Plan to support Metropolitan's Mission and Programs.

Enterprise Architecture at Metropolitan—IT Enterprise Architecture Staff provided a recommendation of integration of Project Control Reporting System into existing Enterprise Business Intelligence Platform and mobile access to on-call staff browser.

Simplify access to business information.

Web Services—Staff is currently working with IT Quality Analyst to test web services to allow external parties to access publicly available water meter data on a self-service basis. Next step is to pilot the services with a single member agency.

## 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 for future operational business needs.

Seek incremental revenue-generating opportunities for real estate assets in traditional and alternative market segments such as telecommunications, solar/wind generation, agriculture, and sustainable technology and research.

A permanent easement was granted to Southern California Edison to install electrical service to the Diamond Valley East Dam.

Implement strategies for right-of-way planning and acquisition support of infrastructure reliability, protection programs, and Bay-Delta Initiatives.

- A lease was extended for an additional month for construction staging and laydown area as part of the Orange County Feeder Relining Project.
- A residential lease in Riverside County was extended for two additional years to provide housing to Metropolitan's first responder at Lake Mathews.

Efficiently maintain and operate Metropolitan's Headquarters building and the Diamond Valley Lake Visitor Center.

Staff completed annual maintenance of the Headquarters Building courtyard fountain and continued to upgrade the building's lighting system to energy efficient LED fixtures. The upgraded fixtures result in increased lighting performance and lower maintenance cost.

Staff performed the annual fire life safety system testing at Diamond Valley Lake Visitor Center as required by building and safety code. Staff also replaced six solar inverters and power washed the solar array, resulting in increased efficiency and performance of the overall solar power system.

Foster staff training and development.

Staff attended/completed a number of training and development courses including:

- *Management Academy Program*
- *Real Estate Market Trends Seminar*
- *Principles of Land Acquisition, Environmental Awareness, and Real Estate Engineering*

## STRATEGIC PRIORITY

### EMBARK ON STRATEGIC REVIEW OF METROPOLITAN'S MISSION AND PROGRAMS

Periodically the Board has reviewed its policies and mission to ensure they fit with the times. Many significant policy issues have arisen from the historic drought conditions and were discussed in the 2015 Integrated Resources Plan update. Fiscal Year 2016/17 presents an opportune time for Metropolitan to look in the mirror and determine if changes to policies should be made as we make critical decisions on broader California water policy matters.

Metropolitan has worked through a process with the Integrated Resources Planning Committee to consider IRP-related policies. A draft set of policy principles to consider was provided to the IRP Committee on June 27, 2017. These policy principles help provide guidance regarding Metropolitan's role in the area of local supply development and conservation.

## CORE

### WATER SUPPLY

Develop and execute water resource strategies that achieve the long-term reliability envisioned in the Integrated Resources Plan (IRP). Efforts include the negotiation and management of supply, storage, and water use efficiency programs, administration of imported supply contracts, development of new water resource policy recommendations in support of the IRP, collaborative planning with member agencies, and forecasting resource and facility needs.

Participate and lead, where appropriate, in statewide and regional planning efforts.

#### Metropolitan Receives Planning Grants

Metropolitan received four \$75,000 planning grants for groundwater basin studies from the State Water Resources Control Board's Water Recycling Funding Program. This funding will help offset a portion of the projected costs. The groundwater basin studies will help Metropolitan evaluate potential recycled water demand, feasibility of continuous groundwater recharge, and alternative pipeline alignments for the potential Regional Recycled Water Program. Additional state and federal grant funding would be pursued for the full-scale Regional Recycled Water Program upon Board approval in the future.

#### The Climate Registry Workshop

Metropolitan hosted and participated in a workshop for The Climate Registry on June 14 at Headquarters. The Climate Registry (Registry) is a non-profit organization that designs and operates voluntary Greenhouse Gas (GHG) reporting programs and assists organizations in measuring, reporting and verifying their GHG emissions. The purpose of the workshop was to launch a pilot test of Registry's Water-Energy reporting protocol, which could provide more information on water agency GHG emissions. The workshop included staff from Metropolitan, member agencies, local water and wastewater utilities, universities and other stakeholders participating in the pilot test. Staff presented on the Water-Energy nexus and Metropolitan's GHG reporting during the workshop. Metropolitan is a member of Registry and has been voluntarily submitting verified GHG emission reports to The Climate Registry since 2009.

**WATER SUPPLY continued...**

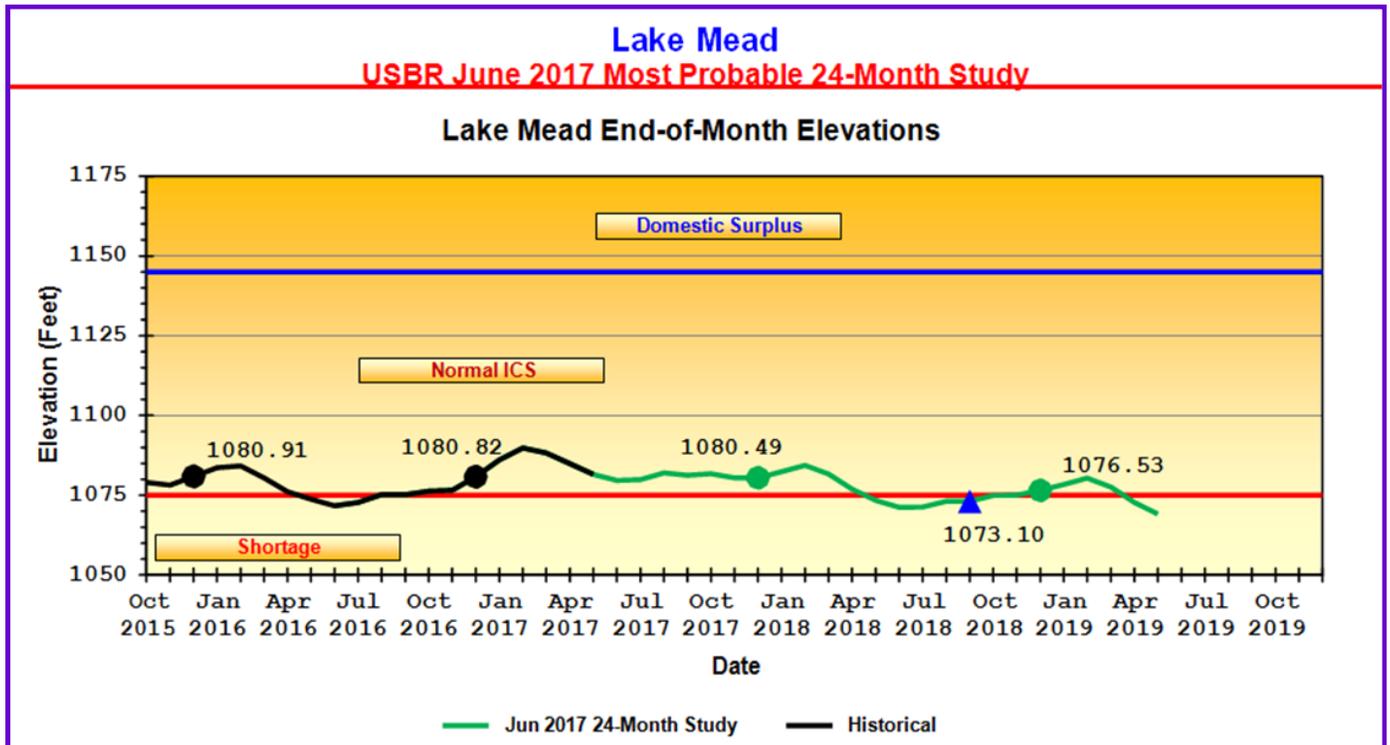
Ensure cost-effective and reliable imported water supplies.

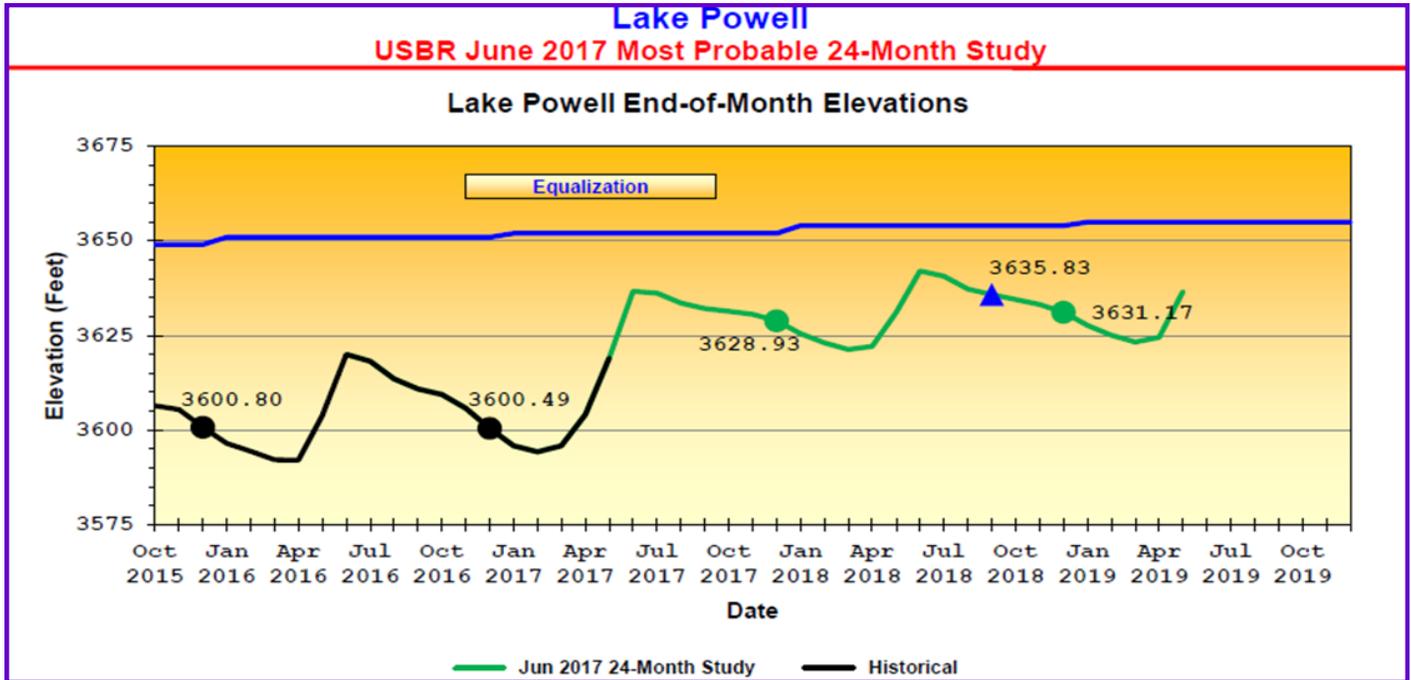
Water Use Reports

Staff delivered the first round of quarterly Water Use Reports to lessees farming Metropolitan’s lands in Palo Verde Irrigation District. The reports will keep lessees apprised of their year-to-date water use and annual water use targets, and will also provide analytics designed to help growers farm more effectively and save water.

Forecast for Unregulated Inflow

The Colorado Basin River Forecast Center forecast for unregulated inflow into Lake Powell for Water Year 2017 dropped 582,000 acre-feet and the input unregulated inflow into Lake Powell for WY 2018 dropped 982,000 acre-feet. No equalization releases are shown in WY 2018 or in WY 2019 through May 2019. Lake Powell ends 2017 at 3628.93 feet, which is below the 2018 equalization line value of 3654 feet. Lake Mead ends Calendar Year 2017 at 1080.49 feet which is 5.49 feet above the shortage elevation of 1075 feet. Operations for WY 2018 for Lake Powell and CY 2018 for Lake Mead will be determined by the August 2017 24-month study. *(see charts below and page 27)*





Implement the Conservation Program effectively.

Peer-to-Peer Conference

On May 31-June 1, the California Water Efficiency Partnership held a “Peer-to-Peer” Conference in San Diego hosted by the San Diego County Water Authority. The CalWEP is the new organization borne from the previous California Urban Water Conservation Council, and is aligned with the Alliance for Water Efficiency based in Chicago, Illinois. The Conference was attended by representatives of many water agencies throughout California. Several Metropolitan staff from the Water Efficiency Team attended the Conference, which featured panel presentations serving as conversation starters for robust peer-to-peer idea sharing, training, and other professional interaction. Many discussions offered suggestions that will help to shape the newly formed organization, from organizational structure to research agendas and messaging.

Collaborate with member agencies to coordinate planning efforts, develop policy recommendations, and promote consistent public communications in water resource management issues.

Southern California Salinity Coalition Board Meeting

Staff participated in a Board meeting of the Southern California Salinity Coalition (SCSC). The SCSC welcomed Kevin Hardy as the new Executive Director of the Coalition. Kevin is also the incoming Executive Director of the National Water Research Institute and formerly was the General Manager of the Encina Wastewater Authority. The SCSC is funding a white paper on the effects of higher salinity wastewater influent on recycled water and received an update on the project. Metropolitan is a founding member of the SCSC and holds a position on the Board.

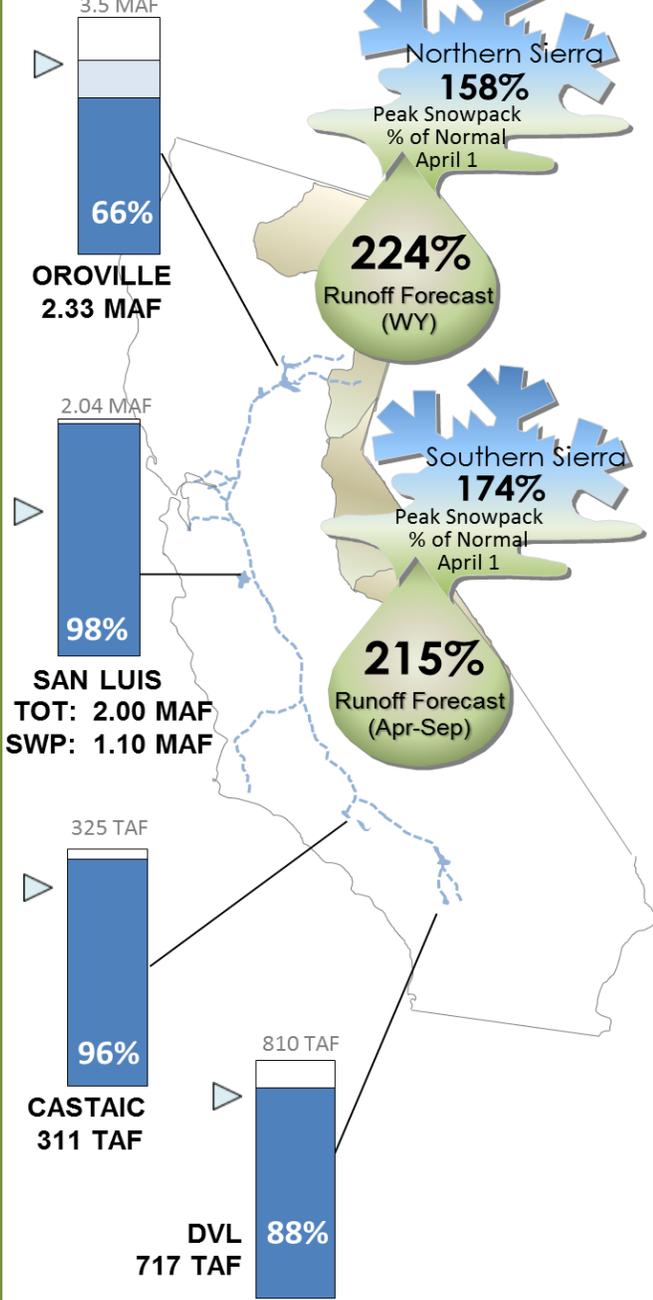
# WATER SUPPLY CONDITIONS as of June 30, 2017

## 2017 SWP Allocation

1,624,775 AF

85% of Table A

(Does not include CVWD & DWA Table A)

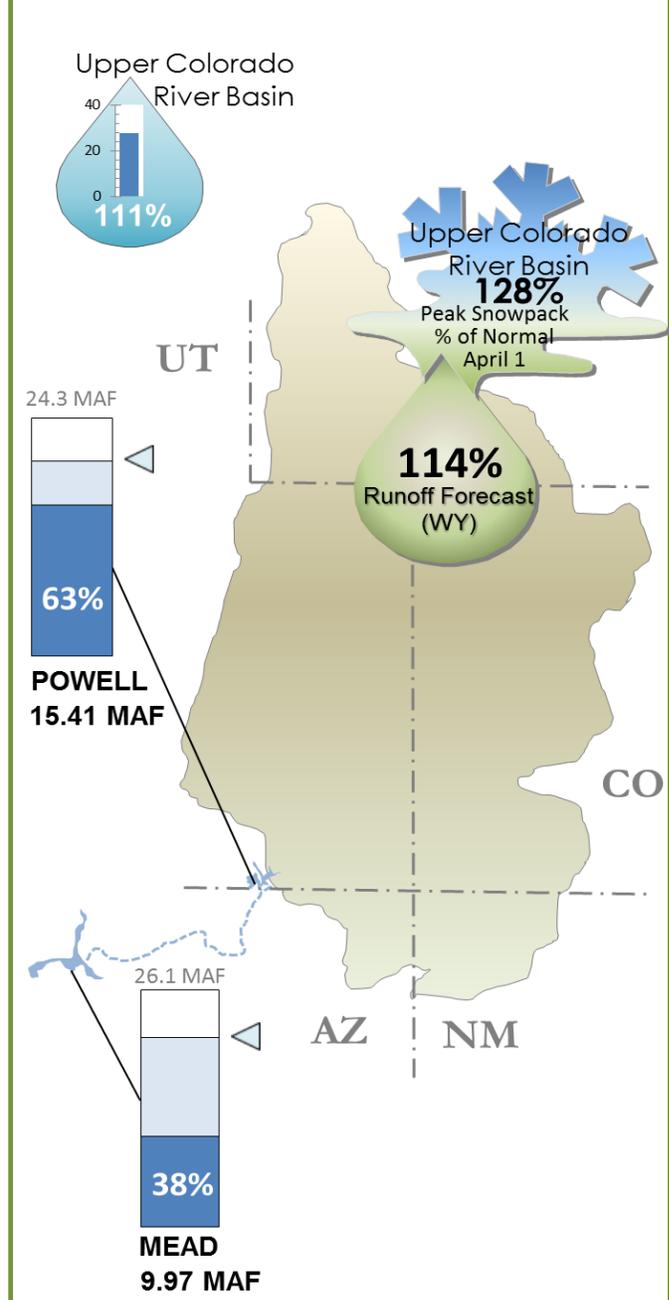


## 2017 Colorado River

947,000 AF

76% of full CRA

(Does not include storage withdrawals)



Regional Snowpack

Precip

WY to Date (in)

Capacity  
Average EOM Storage  
Current Storage (% Capacity)

Peak Snowpack % of Normal April 1  
Runoff Forecast WY

## STRATEGIC PRIORITY

### DEVELOP WATER SUPPLIES AND MANAGE WATER RESERVES

Staff will work closely with the Board to manage Metropolitan's water supply reserves in the face of the unprecedented drought conditions in California and throughout the Southwest. If El Niño conditions create more supply, staff is prepared to maximize storage opportunities. The actions will include implementation of storage withdrawals, coordination of deliveries with the member agencies, close monitoring of drought conditions and possible allocation actions as part of the Water Surplus and Drought Management plan, and targeted outreach on conversation efforts. The past year's successful implementation of the Water Supply Allocation Plan will be reviewed and a determination will be made on what actions to take for FY2016/17.

Manage water reserves.

State Water Project imports into the service area were maximized in June. This was due in part to efforts to divert Colorado River Aqueduct deliveries into storage and increase SWP deliveries under the 85 percent SWP allocation. For the month of June, the use of SWP accounted for 81 percent of Metropolitan's deliveries excluding 27,600 acre-feet that was delivered into Diamond Valley Lake. Storage at Diamond Valley Lake increased to 727,000 AF or 89.7 percent full. Water reserves continue to be managed according to the Annual Operating Plan and Water Surplus and Drought Management principles. Deliveries to Semitropic and Kern Delta Storage continue and staff is working with the banking partners to increase scheduled storage at every opportunity. Deliveries of Colorado River water to groundwater storage in the Advance Delivery Account with Desert Water Agency and Coachella Valley Water District were increased further to over 700 cubic feet per second, from 650 cfs last month, for a year-to-date delivery amount of about 146,000 AF. In addition, by keeping Colorado River Aqueduct deliveries low at a 4-pump flow, Lake Mead Intentionally Created Surplus storage is continuing to fill.

## CORE

### PROVIDE RELIABLE WATER SUPPLIES

Metropolitan delivered approximately 132,000 acre-feet of water to meet member agency demands in June, which averaged approximately 4,400 AF per day. This was an increase of 750 AF per day from May deliveries. Treated water deliveries for June totaled 67,000 AF, or 51 percent of total deliveries for the month. In June, 55,200 AF of Colorado River water was pumped at an average of 1,840 AF per day. The Colorado River Aqueduct was on a four-pump flow for the entire month. Year-to-date CRA diversions are 248,450 AF. State Water Project imports averaged 3,863 AF per day for 115,900 AF for the month. This was a decrease of about 7,300 AF from May imports, due to several scheduled flow restrictions at Devil Canyon and less SWP East Branch capacity due to other SWP contractors taking their maximum capacity under the 85 percent SWP allocation. The targeted blends for the Weymouth, Diemer, and Skinner plants were 75 percent SWP for the month of June. Emergency exchange deliveries between Los Angeles Department of Water and Power and Metropolitan began on June 13 with LADWP delivering 70 cfs at the LADWP/MWD interconnection at Magazine Canyon.

Staff continued to maximize power generation throughout the month. Metropolitan's hydroelectric plants generated an average of 31.5 megawatts per hour for 22,700 megawatt-hours for the month.

## WATER SYSTEM OPERATIONS

### STRATEGIC PRIORITY

#### EMPLOYEE DEVELOPMENT

The proposed budget calls for Metropolitan to cease its managed attrition that has shrunk Metropolitan from 2,400 full-time employee positions to a current workforce of approximately 1,750. Recruitment activity will be expanded to fully replace all retirements and actually add some positions to bring the work force to approximately 1,800 positions over the next two years. Increase employee cross-training and employee development efforts will be needed to meet the challenge of increased retirements brought about by an aging workforce.

Manage vacancies.

WSO filled six vacant positions in May 2017.

Prepare employees for new opportunities.

The Water System Operations Apprentice and Technical Training Programs develop and train personnel to become qualified mechanics and electricians responsible for maintaining Metropolitan's water treatment and distribution systems. This month, staff completed the recruitment of pre-apprentices and finalized candidate rankings for the hiring eligibility list. Position offers to the top 17 candidates (6 electrical and 11 mechanical) are in progress for a July 31 start date. The eligibility list will remain in effect and be utilized to fill additional pre-apprentice openings over the next two years.

Staff also scheduled rotations for two existing electrical and six mechanical apprentices. The Apprenticeship Program arranges short-term rotations across WSO maintenance teams to ensure apprentices receive training in various work processes and gain exposure to other journey-level staff at a variety of Metropolitan locations. This cross-training facilitates a well-rounded experience and satisfies the California Division of Apprenticeship Standards' requirement for mobility between facilities to complete apprentices' on-the-job training.

### CORE

#### OPTIMIZE MAINTENANCE

Staff continued its preventative maintenance program in coating pipeline structures, treatment plants and distribution facilities. Some recently completed coating activities included coating for San Diego Pipelines Nos. 1 and 2, sealing structures to prevent groundwater intrusion at five locations on the Lower Feeder, and mortar repairs on the Santiago Lateral Pipeline. *(see photos below of before and after mortar repairs)*



## CORE

## OPTIMIZE MAINTENANCE

The CRA Pump Plant facilities have three separate water systems that are part of the operations and maintenance of the pump plant as well as the supporting facilities, systems, and residential villages. Staff discovered a leak on the 6" diameter main feeder line for the irrigation/fire suppression water system at the Iron Mountain plant. Staff isolated, excavated, and repaired the line on a fairly steep hillside and in close proximity to the circulating water line that feeds the primary storage tank for the entire facility. Staff performed the excavation carefully in order to not damage the other lines in the vicinity of the break. Once the excavation was completed, the pipe was repaired using a clamp-type band and the line was tested and returned to service without disruption in Colorado River Aqueduct deliveries. *(see photo right)*



Leak repaired with a clamp at Iron Mountain pump plant on the 6" IFW main feeder line

Staff completed the installation of a new air receiver tank for the Lake Skinner aeration system. The air receiver tank will store compressed air to provide a more stable air pressure and supply so the air compressors will not run continuously, which helps increase equipment longevity. The Lake Skinner aeration system is used to manage water quality by promoting lake mixing to increase the oxygen level in the lake. *(see photo right)*



New air receiver tank installed at Lake Skinner aeration system



Staff completed the replacement of a vacuum valve on the Orange County Feeder in Corona Del Mar. The valve was leaking and not holding pressure, which caused the pipeline pressure to drop and the hydraulic valve to drift open upstream at the Irvine Regulating Structure. *(see photo left)*

Replaced vacuum valve on the Orange County Feeder

# WATER SYSTEM OPERATIONS

## CORE

## OPTIMIZE MAINTENANCE continued...

Staff completed corrective maintenance on the Middle Feeder at the Rio Hondo Pressure Control Structure (PCS) in Southgate. Rio Hondo PCS controls pressure on a portion of the Middle Feeder that supplies water to the southwestern section of Metropolitan's service area. During routine system operations, the 36-inch main electric control valve malfunctioned due to a limit switch failure, which also caused cover plate damage to the valve actuator. Staff removed the cracked cover plate and found the internal damage to be minimal. Staff cleaned the internal components of debris, installed new parts for the limit switch and replaced the cover plate. The valve was tested and returned to service without disruption to water deliveries. *(see photos below)*



36" valve actuator with cracked cover plate at the Rio Hondo Pressure Control Structure



36" valve actuator with replaced cover plate

Staff performed two-year maintenance work at the Rio Hondo Hydroelectric Plant in Southgate. The work included testing of high voltage equipment and mechanical components. Staff inspects hydroelectric plants quarterly, performs minor maintenance every two years, and performs major maintenance every six years to ensure that the plants operate with minimal down time. These maintenance periods are scheduled in advance when plants are not expected to generate power. During this maintenance, staff observed that the air cooler used to remove heat from the high voltage generator windings was starting to show signs of wear and leaks. Staff completed the repairs promptly and returned the power plant back to service this month.

Staff completed the construction of a new control center concrete pad for a tank farm at the Weymouth plant as part of the overall Ozone Retrofit Project. The new control center will automate the dosage of ammonia to control bromate formation, a regulated disinfection byproduct. The control center pad construction will be completed and made available to the tank farm contractor to facilitate completion of the work on the control center. *(see photo right)*

Installation of steel rebar as part of tank farm construction at the Weymouth plant



## WATER SYSTEM OPERATIONS

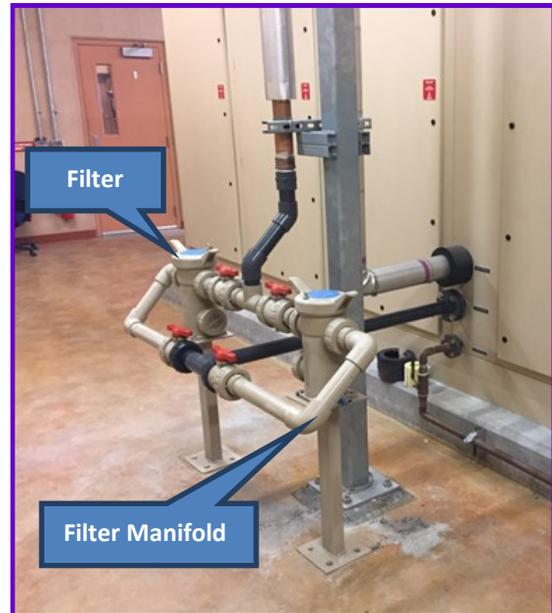
### CORE

### OPTIMIZE MAINTENANCE continued...

Staff installed new filter manifolds to each of the five Ozone Generator Power Supply Units at the Skinner plant. The new filtering system was installed in the closed-loop cooling water system to control cooling debris in the chilled water. Due to corrosion, the aluminum transistor cooling blocks started plugging, causing an overheating condition which would shut down the power supply units. This issue caused many hours of labor for the electricians cleaning these blocks. The installation of these filters has reduced labor hours, extending the life of the equipment and increasing reliability of the units for the ozone generators.



Corroded aluminum transistor on ozone generator PSU at Skinner plant



New filter manifold installed on ozone generator PSU at Skinner plant

- Staff rewired a control panel for the Lake Mathews Tower mobile chlorinator. The chlorinator is used to control quagga mussels in the water leaving Lake Mathews in route to the Diemer and Weymouth plants. The rewiring ensures that all wire routings are easily identified and are connected properly.
- Staff is in the final stages of relocating the Ozone System Control room at the Diemer plant during the Administration Building Seismic Upgrade Project. The Ozone System Control room is being modified to act as a secondary master control room during this project. Staff performed major upgrades to the Ozone System Control room to provide operational control equal to the original operations control room. The Ozone System Control room has been upgraded with extra computers, security equipment, automatic safety shut off controls, and alarm sensors to fully equip the control room and create a secondary master control center that can also be used after the seismic upgrade project is complete, should the main control room become unavailable during an emergency or other event.
- Staff performed major repairs on the electrical wiring that feeds the Allen-McColloch Pipeline master meter. The meter is located approximately one-half mile from the Diemer plant. Wiring to the meter is fed through a cable that runs underground from the southeast corner of the Diemer plant to the meter structure. Insulation on the original wiring failed, rendering the meter inoperable. Staff located the failure, identified the damaged wiring and replaced 2,000 feet of damaged cable to return the meter to operation. Since this is a master reference meter to measure total pipeline flow, member agency flow meter measurements were unaffected.

## CORE

## OPTIMIZE MAINTENANCE continued...

Staff has repaired the third of four basins from the East Basin Rehabilitation Project at the Diemer plant. Basin No. 2 has been disinfected and filled with water. Testing was done with the new equipment and is in service. The plant's outdated components were either rebuilt or replaced to produce a more robust system. *(see photo right)*



- Staff removed a pipe spool to install an orifice plate flow meter in the new Ozone Generator Building at the Weymouth plant. The orifice plate flow meter is used for testing to compare and verify that the contractor installed flow meters used to measure gaseous oxygen and ozone in the ozone feed system are working properly. The test meter can be installed and removed by staff whenever there is a need to verify the flow accuracy of the system. Installing and removing the spool requires numerous safety measures to be in place as it is heavy and cannot be accessed with large equipment. The spool was installed and preliminary verification was performed, moving one more step forward toward the completion of the Weymouth Ozone Project later this year.
- Staff performed backflow testing on the potable water system at the Weymouth plant. Backflow testing is performed to ensure the backflow devices are working properly to protect the water from contamination. These devices prevent contaminated water from being drawn back into a potable water line in the event of pump failures or changes in water demands due to a line break. These tests are performed on a regular interval to ensure the health and safety of the Weymouth plant employees and visitors. Staff performing these tests at Weymouth plant have to be certified and authorized by the County of Los Angeles in order to conduct the testing.

Staff installed a solar panel at the Magazine Canyon facility on the Balboa Tunnel in Sylmar that will provide power to a radio that provides communication between a newly installed overflow float switch and the SCADA control system. This will allow for continuous monitoring in the event of excessive flow through the top of a 96-inch diameter energy dissipater shaft at the facility. An alarm will notify the Jensen plant operators to make a flow adjustment to correct an overflow condition, should one occur.

Installed solar panel at Magazine Canyon



Radio links for flow meter and overflow float switch alarm



## WATER SYSTEM OPERATIONS

### CORE

#### MANAGE THE POWER SYSTEM

In June, the California Independent System Operator (CAISO) submitted the CAISO/Metropolitan Operating Agreement to the Federal Energy Regulatory Commission for approval. The Operating Agreement was negotiated between the CAISO and Metropolitan over the past year and governs the operation of Metropolitan's Colorado River Aqueduct electrical transmission system within the area under the jurisdiction of the CAISO. The Operating Agreement will become effective when an existing agreement between Southern California Edison and Metropolitan expires on September 30, 2017. On June 13, Metropolitan's Board of Directors authorized the General Manager to execute the Operating Agreement.

During June, numerous meetings took place between Metropolitan, SCE, CAISO, and the Arizona Electric Power Cooperative (AEPCO) regarding the operation of Metropolitan's Colorado River Aqueduct electrical transmission system and the coordinated exchange of real time and metered electrical power data from the Colorado River Aqueduct. These meetings are creating the process for a transfer of responsibility for the operation of the CRA electrical system from SCE to AEPCO and CAISO. The transfer will occur on September 30, 2017, when certain existing contracts between SCE and Metropolitan terminate.

### CORE

#### IMPROVE SECURITY AND EMERGENCY RESPONSE

The initial planning meeting for Metropolitan's annual emergency exercise was held on June 1 at Metropolitan's Emergency Operations Center. This year's exercise will focus on a large earthquake scenario and will correspond with California's annual Great ShakeOut exercise in October. As with past exercises, a number of Metropolitan member agencies will be invited to participate in this year's exercise, which will focus on the Los Angeles County area. Metropolitan water treatment plants and conveyance and distribution command centers, as well as local government emergency management agencies, also plan to participate in this year's exercise.

On June 8, staff participated in a regular meeting held by the California Office of Emergency Services on the development of future emergency management training and exercises, as well as the continued development of California's Emergency Operations Center (EOC) Position Credentialing Program. Once finalized, the EOC Position Credentialing Program will set training and experience standards for all persons working in government EOCs. Emergency managers from cities, counties, special districts, and other jurisdictions also participated in this meeting.

### CORE

#### OPTIMIZE WATER TREATMENT AND DISTRIBUTION

State Water Project target blends at the Weymouth, Diemer, and Skinner plants were 75 percent for June 2017. Flow-weighted running annual averages for total dissolved solids from April 2016 through March 2017 were 586, 599, and 601 mg/L for Weymouth, Diemer, and Skinner plants, respectively.

## CORE

### PROTECT SOURCE WATER QUALITY

Metropolitan submitted comments to the Nevada Division of Environmental Protection on the Phase 3 Remedial Investigation Work Plan addressing perchlorate contamination from the former Tronox site in Henderson, Nevada. Staff recommended a modified approach for investigating the study area that involves prioritizing source-area contamination to expedite remedy selection and ultimate cleanup. Staff also emphasized the importance of remedial actions to support compliance with California's maximum contaminant level of 6 µg/L for perchlorate. The remedial investigation and remedy selection are scheduled to be complete in 2022, followed by implementation of the final remedy. Perchlorate remediation efforts in Henderson are critical for continued protection of Colorado River supplies.

Staff continues to monitor the U.S. Department of Energy's (DOE) progress in removing uranium mill tailings along the Colorado River near Moab, Utah. The mill tailings removal rate continues to slow down as resources are needed to expand the disposal site at Crescent Junction, Utah; repair operating equipment; and improve safety measures. Recently, the Fiscal Year 2017 budget of nearly \$38 million, \$3 million over the original budget request, was approved to continue funding DOE's cleanup efforts. Metropolitan, through the Lower Colorado River Water Quality Partnership, sent a letter to the Secretary of Energy and Congressional delegation to advocate for increased Fiscal Year 2018 funding for the project to expedite cleanup and meet DOE's targeted completion date of 2025. To date, approximately 55 percent of the original 16-million-ton tailings pile has been removed.

## CORE

### PROVIDE TECHNICAL SUPPORT TO MEMBER AGENCIES

- Staff provided technical guidance, site reconnaissance, and analytical services in support of member agency plans to use State Project Water for groundwater replenishment.
- Staff completed fabrication of a spool piece and installed a replacement meter at CB-20 service connection on the Rialto Feeder as the existing magnetic flow meter had failed. This service connection provides raw water deliveries for groundwater replenishment to Inland Empire Utilities Agency.
- Staff is working with Eastern Municipal Water District on a proposed new groundwater replenishment connection on the Eastside Pipeline near the City of Hemet, designated as EM-25. A conceptual design report was issued to EMWD earlier this year, and this month a coordination meeting was held to further refine the proposed turnout location. Next steps are to update the conceptual design report and begin preliminary design of the connection.
- Staff designed, manufactured, and installed a temporary meter for the interconnecting pipeline between Los Angeles Department of Water and Power's aqueduct and Metropolitan's Balboa Tunnel at Magazine Canyon. The metered connection will measure flows between LADWP's system and Metropolitan's system as part of an emergency exchange agreement to deliver water from LADWP to Metropolitan upstream of the Jensen plant. As part of the effort, the La Verne Shops manufactured a 24-inch by 8-inch 150-pound adapter flange and piping assembly to support the new internally mounted flowmeter. The shops welded, machined, and applied corrosion resistant epoxy coating to the assembly. Staff reviewed and selected the new flowmeter, which uses acoustic technology to measure flow. The meter is located in a remote area, operates using solar power, and communicates wirelessly to Metropolitan's control system.

# WATER SYSTEM OPERATIONS

## CORE

### 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 May 2017.

The Water Quality Laboratory’s compliance functions were assessed on June 6-9 by an external accreditation expert to ensure readiness for the state’s implementation of new laboratory standards. A quick debrief was provided to staff after the assessment. Key findings included evaluating laboratory organization structure and staffing to ensure that quality assurance inspections can be conducted efficiently and independently under new laboratory standards, and reviewing existing documentation and record keeping procedures. A written report will be provided to staff in the near future.

## CORE

### PREPARE FOR FUTURE LEGISLATION AND REGULATION

On May 5, 2017, the California Superior Court in Sacramento, in response to a lawsuit by California Manufacturers and Technology Association, ordered the State Water Resources Control Board (SWRCB) – Division of Drinking Water to withdraw the Maximum Contaminant Level (MCL) for hexavalent chromium (Cr6) and establish a new MCL. Although Cr6 is not an issue for Metropolitan, staff has been tracking this lawsuit because of its implications for other water agencies in Southern California, and the precedent that could be set for development of other MCLs by SWRCB - Division of Drinking Water.

The National Safety Council designates June as National Safety Month. The theme this year is Watch Out: Slips, Trips, and Falls. In June, staff conducted refresher training on how to recognize unsafe conditions that can cause slips, trips, and falls. Staff reviewed hazard preventions, such as keeping walkways and stairs clear of objects, debris, and holes; coiling extension cords and hoses when not in use; utilizing guardrails and covers for floor openings; and wearing proper footwear.

Staff reviewed and provided comments on Assembly Bill 1587 (Levine) that aims to amend the state Fish and Game Code 2301 (invasive species). Comments focused on maintaining language in the bill to ensure that lakes deemed as infested would not be closed to water operations and that water utilities have no civil or criminal liability for invasive mussel introductions in the course of normal operations, so long as they are operating under the provisions of an approved control plan.

#### 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.

Storage	As of 6/30/17	% of Capacity
DVL	716,706 AF	88
Lake Mathews	151,091 AF	83
Lake Skinner	35,278 AF	80

## CORE

## SUPPORT EDUCATION AND OUTREACH INITIATIVES

Staff assisted with a two-day employee inspection trip of the Colorado River Aqueduct for 32 participants. All trip participants visited the Gene field headquarters, attended a boat trip of the Copper Basin reservoir dam, and toured the Whitsett Intake Pumping Plant, located on Lake Havasu. Guests also visited the Alan Preston Museum to view historical artifacts from the aqueduct and old construction sites. These inspection trips help staff understand and experience the facilities and operations that continue to meet Metropolitan's mission.

Staff conducted four plant inspection trips during the month of June for approximately 155 participants at the Weymouth plant. Staff from Three Valleys Municipal Water District, Central Basin Municipal Water District, City of Santa Ana, and Southern California Water Utilities Association attended tours of the Weymouth plant, Water Quality Laboratory, and Maintenance Shops. Staff members at the plants provided presentations on water treatment facilities, pertinent water quality and treatment issues, as well as plant operations and maintenance activities.

Metropolitan completed an extensive assessment of its treatment plants as part of the Partnership for Safe Water Plant Optimization Program. The program encourages water utilities to conduct in-depth analyses of their treatment plants to identify unit process that are fully optimized, as well as develop actions necessary to ensure continued improvement, to meet current and foreseeable water quality regulations and consumer satisfaction. As a result of this effort, coordinated with staff, Metropolitan's Jensen plant was recognized with the Partnership's Presidential Award at the 2017 American Water Works Association's Annual Conference. (*see photo below*)



Staff accepting Partnership for Safe Water, Presidential Award for the Jensen plant, from AWWA President-elect and U.S. E.P.A representative.

**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.

[www.MWDH2O.com](http://www.MWDH2O.com)

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