

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

General Manager's Monthly Activity Report for August 2015

August 31, 2015

This report identifies the actions and activities taking place during the month that support the objectives of the General Manager's Fiscal Year 2015/16 Business Plan.

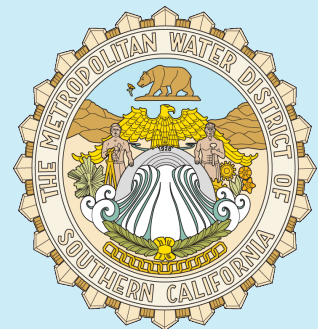
Metropolitan Does a Makeover of Famous Randy's Donuts Rooftop Sign

On August 11, Metropolitan commandeered the iconic sign at Randy's Donuts to showcase the ongoing need to save water during this record drought. The big donut atop the bakery near Los Angeles International Airport has been cloaked with the supersized centerpiece red knob of Metropolitan's "Turn" water awareness advertising and outreach campaign. It is only the second time in 62 years that the donut has been transformed. The early morning unveiling attracted much attention and extensive news media coverage. Metropolitan staff received many water-saving pledges from event attendees, who received a complimentary donut in return. *(see photos below)*



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BAY DELTA INITIATIVES

STRATEGIC PRIORITY

COMPLETE PLANNING PROCESS FOR THE CALIFORNIA WATERFIX AND CALIFORNIA ECORESTORE

Continue to take on a lead role in securing water supplies for the State Water Project (SWP) and working towards the completion of the State of California's Proposed Delta Improvements, Recirculated Draft Environmental Impact Report (RDEIR)/ Supplemental Draft Environmental Impact Statement (SDEIS) for the California WaterFix and California EcoRestore.

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

Bay Delta Conservation Plan/California WaterFix—Two public meetings were held in late July 2015 to provide more information on the Bay Delta Conservation Plan/California WaterFix Recirculated Draft Environmental Impact Report/ Supplemental Draft Environmental Impact Statement and to accept public comments. The meetings held on July 28 in Sacramento and July 29 in Walnut Grove were organized using the same open house format as used in previous public meetings during public review periods. Informational exhibits and project team members were available throughout the meeting for one-on-one discussions to answer questions and provide the public with an opportunity for more in-depth

understanding of the proposed project modifications, new alternatives, and environmental analysis. For those wishing to provide comments, a court reporter was available to capture verbal comments and written comments were accepted. The public comment period concludes on October 30, 2015. Staff is continuing its review of the revised environmental documents for consistency with adopted Metropolitan Board Policies and is working jointly with other State Water Project/ Central Valley Project public water agencies to prepare comments.

CORE

BAY-DELTA SOLUTIONS

- Develop near- and long-term solutions that enhance the Delta ecosystem, improve water supply reliability, and protect water quality.
- Participate in the State Water Resources Control Board (SWRCB) process considering petition for an additional point of diversion for new conveyance facility.
- Continue to work on efforts related to improving water supply reliability and protecting water quality.

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 (SWRCB)—As reported previously, the State Water Resources Control Board issued several curtailment notices directing water diverters in the Delta watershed to cease diversions. Multiple senior water right holders challenged the curtailment notices, raising issues that include proper due process, SWRCB jurisdiction, and water availability. The state Attorney General has requested consolidation or coordination of the cases and the judicial council is considering the request.

BAY-DELTA SOLUTIONS continued...

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.

DWR Delta Flood Emergency Management Plan—The California Department of Water Resources has stated it would request state and federal emergency declarations as threshold conditions triggering implementation of the emergency freshwater pathway. Such conditions would result from earthquake-induced multiple island failures that could suspend export operations for an extended period of time. Under these conditions, Federal Emergency Management Agency actions, with support by the California Emergency Management Agency's Northern California Catastrophic Emergency Management Plan, would combine with DWR and the U.S. Army Corps of Engineers emergency operations response in the Delta.

DWR submitted their After-Action Report/Improvement Plan for their Delta Emergency Tabletop Exercise (April 2015) which focuses on roles and responsibilities of DWR in response to multi-hazard, multi-jurisdictional events in the Delta region. Actions resulting from the exercise included streamlining workflow, adding communications systems to ensure employee safety, and revising emergency operations plans that will be completed over the next several months.

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

Science Activities—Agreement was reached between Metropolitan, the U.S. Geological Survey, University of California, Davis, and ICF consultants to provide Metropolitan funding to study the distribution of larval and adult longfin smelt in the Bay-Delta Estuary. The study will include new approaches for fish sampling and nets suitable for the study of longfin smelt. The sampling approach will be used over the next few years to study the density of longfin smelt at various water depths and how that vertical stratification differs with turbidity and other environmental factors.

BUSINESS PROCESSES AND INFORMATION TECHNOLOGY

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

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

Records Management Program Assessment—The assessment report that benchmarks the current state of the Records Management Program against industry best practices has been completed. The report provides baseline information to begin development of a strategic plan that will include a draft architectural and technology assessment, records management program design, and business and legal requirements.

Digital Signature Application—Staff has completed the installation of over 75 DocuSign licenses and provided training to the end-users. The application is a fully operational e-signature solution with over 300 documents initiated via DocuSign.

Deploy security technologies to enhance Metropolitan's cyber security position.

Cyber Security Countermeasures—Staff is currently performing the final steps in the project, which includes an independent review and assessment by a third party specialized in this field in an effort to implement best practices and remediation efforts.

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

- **Voice over Internet Protocol Technology Communication Systems (VoIP)**—Staff substantially completed a comprehensive plan for the design and build of a VoIP system, including a detailed deployment configuration of 2,400 out of 3,500 phones. A 400-person pilot is planned for October.
- **Communications Infrastructure**—Replacement of end-of-life communications components including core network switches and routers at headquarters and field sites, continued, with 196 of 386 devices replaced in August.
- **Controls Systems, Wadsworth Pump Plant**—Installed new Ethernet network as part of the replacement and upgrades of the control and electrical protection systems.
- **Emergency Radio Systems**—Upgrade of the emergency two-way radio systems continued with the installation of 31 radio repeaters during August.
- **Data Server Upgrades**—Staff and consultants continue to assess the best practices for the upgrades and replacement of end-of-life servers in the IT Datacenter to improve performance and reliability of IT infrastructure.
- **Oracle Financials Upgrade**—Staff prepared for system integration testing of the Oracle upgrade that will provide enhanced functionality, support and maintenance. User acceptance testing is scheduled for the second quarter of the fiscal year.
- **IT Disaster Recovery**—Staff conducted an IT disaster recovery exercise as part of an ongoing effort to maintain Metropolitan's ability to recover critical business processes in the event of a disaster. August's exercise involved executing recovery strategies that support Metropolitan's engineering systems.
- **Enhanced Cellular Coverage**—Staff completed enhancements to improve cellular coverage in board and committee rooms where the cellular signals were weak.

BUSINESS PROCESSES AND INFORMATION TECHNOLOGY continued...

Foster a culture of innovation.

- Metropolitan staff partnered with The Port of Long Beach, the City of Long Beach, MetroLink and Planet Bids to hold one user group meeting to accomplish the goals of adopting uniform small business certification procedures, streamline processes, solve Small Business Enterprise certification issues, and apply best practices in SBE certification.
- Staff held one meeting of the California B2B Alliance that included participants from the Valley Economic Alliance, Los Angeles Mayor's Office, Los Angeles County, and the small business community. The group is planning to introduce the B2BconnectR Platform to public agencies, cities, and the Southern California business community this Fall.
- *How to Become a Certified UAV Pilot* was presented in August as part of Metropolitan's H2O TechTalk Igniting Innovation Lunch and Learn series for employees. Dr. Charlene Ashton from California State Polytechnic University, Pomona spoke to employees about the \$82 billion unmanned aerial vehicle (UAV) industry and Cal Poly's Certified UAV Pilot Training Program. Through Metropolitan's partnership with Cal Poly, ten Metropolitan employees will be trained and become certified UAV pilots by the end of September.
- On August 4, staff participated in a press conference and tour of the La Kretz Innovation Campus with the U.S. Small Business Administration and a member of President Obama's cabinet.
- On August 23, staff was invited to judge rhubarb studios' Water Hackathon in Los Angeles to identify technologies to solve the water crisis in California and export the technologies to other parts of the world. Staff also participated in mentoring and educating attendees on Metropolitan's conservation and drought awareness programs; invited attendees to join the H2o TechConnect Portal; and introduced attendees to Metropolitan's water technologies and pilot programs assessed in the Technology Approval Group.

Simplify access to business information.

Online Procurement Training Academy—Staff has completed the development of the P-Card content for the online training academy. The content for the Agreement Administration and Requisition Processing online training is currently being finalized.

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

Energy Efficiency Projects—Planned activities for ensuring the lowest life-cycle operating costs, in concert with the principles of effective and sustainable facility management, include retrofitting the current roadway lights at headquarters with LED (light-emitting diode) lamps. The equipment required to retrofit the roadway lamps has been requisitioned and the project remains on schedule.

Our Legacy Quarterly E-Newsletter—The first quarter issue, *Summer Is a Cool Time to Be Green*, was distributed to all employees and featured a wide range of tips on how to be 'green' with summer activities.

BUSINESS PROCESSES AND INFORMATION TECHNOLOGY continued...

Maintain an effective Business Outreach Program for regional, small businesses and veterans to ensure broad participation and competitive costs.

- *Connecting California* was the theme for the California Construction Expo 2015 co-hosted by Metropolitan and other major partners. The Expo offered a business matchmaking event and promoted construction contracting opportunities offered by numerous government agencies throughout the region. Now in Metropolitan's 10th year of co-hosting the Expo, staff collaborated to make the event a resounding success and participated as panelists in workshops, exhibit booths, matchmaking, and Question and Answer sessions. (*see photos page 29*)
- Business Outreach supported Metropolitan's Service Disabled Veteran Owned Business Program, the National Service Disabled Veteran Community, and the veteran business community in San Diego by participating in the 27th Annual Navy Gold Coast Small and Veteran Owned Business Conference and the 15th Annual National Convention of Service Disabled Veterans and Small Businesses.
- On August 13, Director Koretz and staff attended the Cecil Murray Center for Community Involvement Alumni Event. Information about Metropolitan's business opportunities, water conservation, and education programs was provided to attendees.
- Metropolitan continued a partnership and support for the California Hispanic Chamber of Commerce by sponsoring the 36th Annual Statewide Convention. Over 3,000 small businesses attended the convention, and staff provided information about Metropolitan's Bay-Delta and water conservation programs, participated in procurement and matchmaking sessions, and encouraged the Hispanic business community to participate in Metropolitan's business opportunities and water conservation efforts.
- Metropolitan staff participated as an advisor at the California Black Chamber of Commerce Statewide Conference, Youth Entrepreneur Summit.
- Business Outreach supported the Orange County business community by exhibiting at the Asian Business Association Orange County Matchmaking Event and at the Orange County Black Chamber Award Dinner.

Seek fair and equitable contract agreements with Member Agencies, federal, and state governments to maintain a long-term sustainable wholesale water resource to Southern California.

This month, the annexation staff:

- Met with Metropolitan's legal counsel on multiple legislation reviews and potential annexations to Metropolitan's service area, including Western MWD and Eastern MWD.
- Considered enhancements to Metropolitan's current Geographic Information System to include an online application that displays the growth of Metropolitan's service area from 1928 to present.
- Studied application of DocuSign software to enhance the transmittal and approval of annual reporting forms.

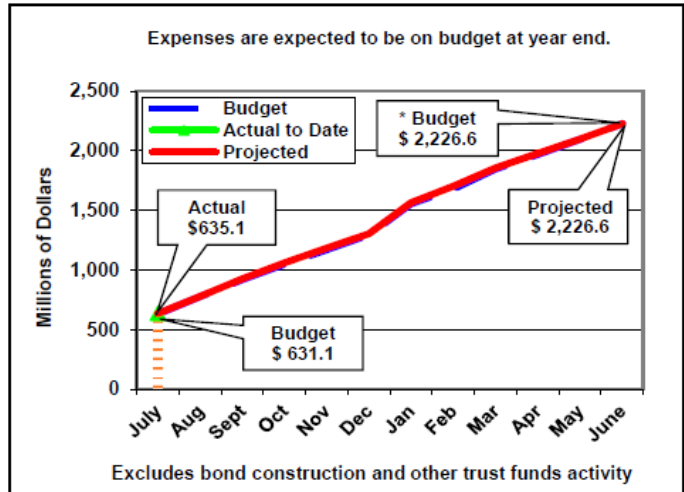
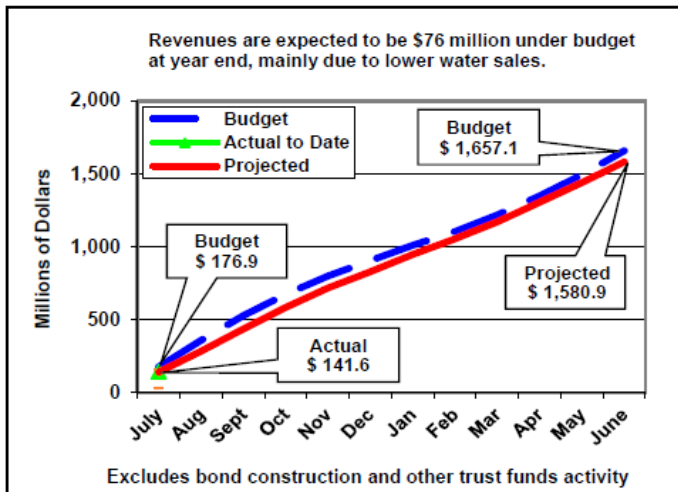
Efficiently maintain and operate Metropolitan's Headquarters building, the Diamond Valley Lake Visitor Center, and the Diamond Valley Lake Education Center.

Current projects underway at Metropolitan's facilities:

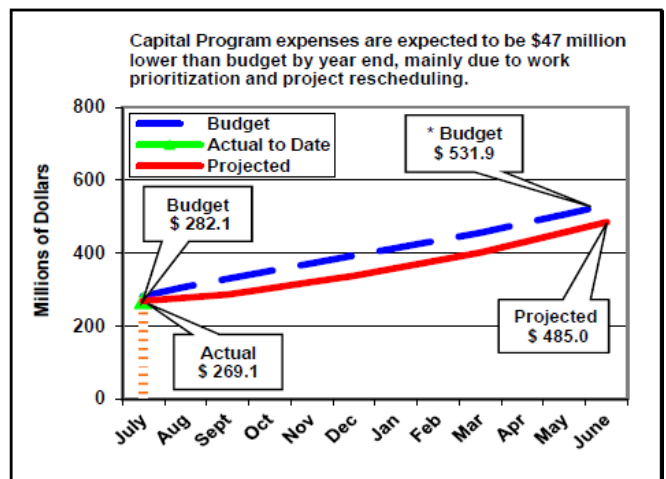
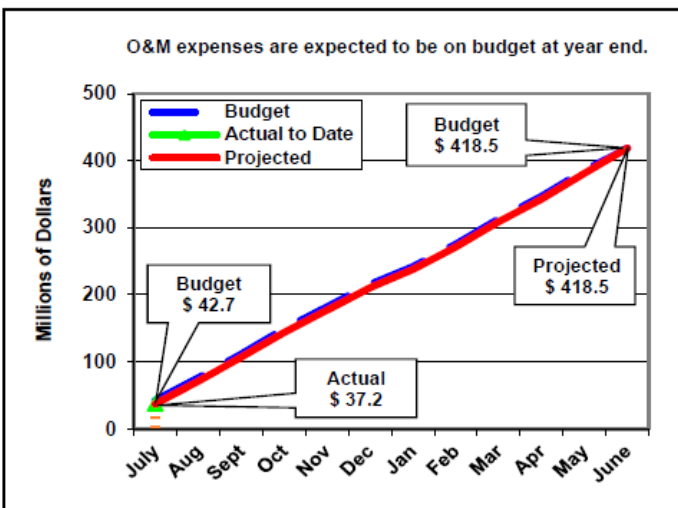
- Staff is currently piloting the mobile application developed for reporting repair requests using mobile devices from within Metropolitan's facilities. The pilot is scheduled to run through September 2015.
- Completed the Infrared Thermography survey of the DVL Visitor Center's electrical boxes to identify potential electrical issues (hot spots). The final report is pending.

CHIEF FINANCIAL OFFICER

FINANCIAL SUMMARY AS OF JULY 31, 2015

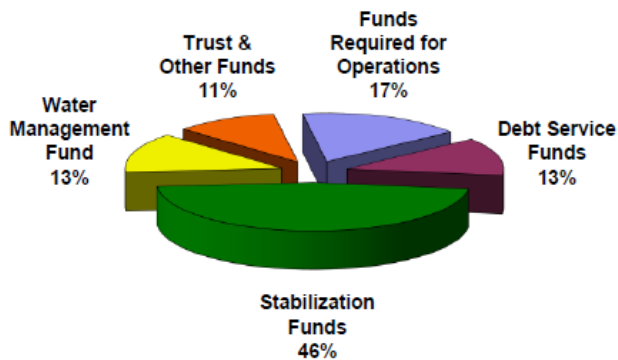


* Includes \$310M, \$264M and 8.8M Board-approved increases for Conservation, Riverside and Imperial County land purchase, and Water Supply Programs, respectively.



* Includes \$264M Board-approved increase for Riverside and Imperial County land purchase.

Cash and Investments at Fair Value \$ 1,048.0 million



Summary Financial Statistics

	Target	Year-End Projected
Fixed Charge Coverage	≥ 1.20 x	1.43 x
Revenue Debt Service Coverage	> 2.00 x	1.75 x
Revenue Bond Debt / Equity Ratio	< 100.0%	60.7%

Credit Ratings

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

CHIEF FINANCIAL OFFICER

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.

Record and report the financial activities of Metropolitan in a timely, accurate, and transparent manner to the Board, executive management, member agencies, and the financial community.

Financial activities were recorded in a timely and transparent manner.

CORE

BUSINESS CONTINUITY

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

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

Staff completed review of applications supporting Mission Essential Functions for use by Information Technology in identifying Mission Essential Applications to be recovered at the Disaster Recovery Facility. The recommendations will be presented to the Emergency Management Working Group at their meeting on September 1.



ENGINEERING SERVICES

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.

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 existing PCCP segments within the Second Lower Feeder. Design activities for the valve and pipe procurement are underway and are scheduled to be complete by June 2016. The programmatic EIR is 50 percent complete and is scheduled to be complete by early 2016.

INFRASTRUCTURE RELIABILITY continued...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:

- Greg Avenue Pump Station Rehabilitation—This drought-response project improves the operational reliability of the Greg Avenue Pump Station by replacing the existing pump and pump/turbine, and by upgrading the electrical and control systems. Final design is 73 percent complete and is scheduled to be complete by March 2016.
- Palos Verdes Reservoir Rehabilitation—This project replaces the existing floating cover and liner, and modifies the existing spillway, control tower, and outlet structures. The project was advertised for bids in August 2015. The bid opening is scheduled for September 2015 and a request to the Board for award of a construction contract is planned for October 2015.
- DVL Boat Ramp Extension—This project extends the boat ramp at the East Marina of Diamond Valley Lake to its ultimate build-out elevation. Design was completed in August 2015 and Metropolitan force construction is scheduled to begin in September 2015.
- Lakeview Pipeline Rehabilitation—This project installs a steel liner within the Lakeview Pipeline to strengthen the pipe and prevent water leakage. Preliminary design is 97 percent complete and is scheduled to be complete by September 2015.
- Upper Feeder Protection—This project extends the existing encasement of the Upper Feeder within Union Pacific Railroad property in the city of Fontana to protect the feeder from additional loads imposed by a new railroad line. Construction is 60 percent complete and is scheduled to be complete by September 2015.
- Allen-McColloch Pipeline Service Connection Seismic Upgrades—This project strengthens 10 service connection structures along the Allen-McColloch Pipeline. Design is 60 percent complete and is scheduled to be complete by January 2017.
- Lake Mathews Hydroelectric Plant Repairs—This project repairs the damaged concrete on the power plant building and forebay. Design is 75 percent complete and is scheduled to be complete by December 2015.

Right-of-Way and Infrastructure Protection Program

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

- Orange County and Western San Bernardino County Operating Regions—Final design of improvements is 50 percent complete and is scheduled to be complete by December 2015. The draft programmatic EIR for the Orange County operating region is 99 percent complete and is scheduled to be released for public review and comment by September 2015.
- Los Angeles County Operating Region—Preliminary design of improvements is 35 percent complete and is scheduled to be complete by February 2016.
- Riverside/San Diego County Operating Region—Preliminary design of improvements is 20 percent complete and is scheduled to be complete by February 2016.

INFRASTRUCTURE RELIABILITY continued...

Colorado River Aqueduct (CRA) Reliability Program

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

- Canal Improvements—This project replaces deteriorated concrete panels and installs parapet walls along portions of the open canal to increase freeboard during periods of high flow. Design is complete and a request to the Board for award of a construction contract is planned for September 2015.
- Iron Mountain Vehicle Service Center Rehabilitation—This project rehabilitates the existing vehicle service center located at Iron Mountain Pumping Plant. Construction is 60 percent complete and is scheduled to be complete by November 2015.
- 6.9 kV Switch House Building Seismic Upgrades—This project performs seismic upgrades to the 6.9 kV switch houses at all five CRA pumping plants. Design is 20 percent complete and is scheduled to be complete by June 2016.
- Copper Basin and Gene Wash Dam Discharge Valves—This project replaces the emergency discharge valves and rehabilitates the discharge structures at Copper Basin and Gene Wash Reservoirs. These facilities are used to draw down the reservoirs in the event of an emergency. Design is 15 percent complete and is scheduled to be complete by June 2016.
- UPS Replacement—This project replaces uninterruptible power supplies (UPS) at all five CRA pumping plants. Each plant has a UPS system to prevent power surges and to serve as a backup supply for critical, non-pumping loads, in case of loss of station power. Design is 30 percent complete and is scheduled to be complete by February 2016.
- Sump System Rehabilitation—This project rehabilitates the main and auxiliary sump systems at Metropolitan's five CRA pumping plants. The sump systems include parallel pumps and piping which circulate cooling water and collect drainage water from several sources. Design is 20 percent complete and is scheduled to be complete by April 2016.

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:

Diemer ORP

- Diemer ORP—On July 1, 2015, the plant began using ozone as the primary disinfectant for compliance with drinking water regulations. Construction to re-vegetate Diemer plant's south-facing slope is 34 percent complete and is scheduled to be complete by February 2016.

Weymouth ORP

- Main ORP Facilities—The plant is the final facility to receive the ozonation process. Construction of the ozonation system is 80 percent complete and is scheduled to be complete in late 2016. The ozonation system will commence operation in 2017.
- ORP Chemicals—These chemical systems are needed for integration of the upcoming ozonation system into the plant's treatment process. A construction contract was awarded by Metropolitan's Board in August 2015.

Weymouth-Piping within chiller room



INFRASTRUCTURE RELIABILITY continued...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:

Weymouth Plant

- East Washwater Tank Seismic Upgrades—This project upgrades the plant's east washwater tank to improve its ability to withstand a major seismic event. Construction is 83 percent complete and is scheduled to be complete by November 2015.
- 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 12 percent complete and is scheduled to be complete by May 2017.

Mills Plant

- Chemical Unloading Facility Chlorine Containment—Construction of containment facilities is 40 percent complete and is scheduled to be complete by February 2017.

Skinner Plant

- Administration Building HVAC System Replacement—This project replaces the Skinner Administration Building's heating, ventilating, and air conditioning system. A construction contract was awarded by the Board in August 2015.

Jensen Plant

- Washwater Tank Seismic Upgrades—This project upgrades the Jensen plant's two washwater tanks to improve their ability to withstand a major earthquake. Construction is 87 percent complete and is scheduled to be complete by December 2015.
- Module No. 1 Filter Valve Replacement—This project replaces 78 deteriorated filter valves within Module No. 1 with new AWWA-standard valves. Construction is 17 percent complete and is scheduled to be complete by October 2016.
- Electrical Upgrades, Stage 1—This project replaces electrical equipment, provides backup in the event of individual component failures, and upgrades the electrical system to be consistent with current codes and industry practices. The Stage 1 work will be completed in two phases. Design of the initial phase is 98 percent complete and is scheduled to be complete by December 2015.
- Jensen Solids Transfer System—This project enables Metropolitan to use four solids lagoons on the grounds of the Los Angeles Aqueduct Filtration Plant. The project installs 7,600 feet of solids transfer piping and a utility crossing structure across Bull Creek Channel. Construction is 92 percent complete and is scheduled to be complete by October 2015.
- LADWP Lagoon Refurbishment—This project rehabilitates four LADWP lagoons which will be used by Metropolitan. Construction is 14 percent complete and is scheduled to be complete by April 2016.

Diemer Plant

- Yorba Linda Power Plant Turbine Replacement—This project at the Diemer plant replaces the existing Pelton Wheel turbine with a Francis turbine capable of operating under post-ORP hydraulic conditions. Manufacture of the turbine generator is complete and the equipment has been delivered to the site. Construction work includes plant modifications and turbine installation, commissioning and testing. Construction is 94 percent complete and is scheduled to be complete by October 2015.
- East Basin Rehabilitation—This project rehabilitates the aging mechanical equipment and its electrical and structural components inside the four east flocculation/sedimentation basins. Notice to proceed was issued in August 2015 and construction is scheduled to be complete by July 2017.

ENGINEERING SERVICES

CORE

INFRASTRUCTURE RELIABILITY continued...

Treatment Plant Reliability Program continued...

Diemer Plant

- Electrical Upgrades, Stage 2—This project replaces electrical equipment, improves backup capability, and upgrades the Diemer plant's electrical system to be consistent with current codes and industry practices. Construction is 70 percent complete and is scheduled to be complete by June 2016. *(see photo right)*
- East Filter Upgrades—This project upgrades the Diemer plant's east filters, including replacement of 127 deteriorated valves with AWWA-standard valves, and seismic strengthening of the filter buildings. A construction contract was awarded in February 2015. Construction is 10 percent complete and is scheduled to be complete by November 2016.

Diemer-Electrical Upgrades, Stage 2 - Installation of conduits and ductbank into the location of new electrical switchgear.



EXTERNAL AFFAIRS

STRATEGIC PRIORITY

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

External Affairs efforts will focus on educating the public, legislative leaders, government officials, non-governmental organizations, and other stakeholders on critical water supply conditions and critical water management decisions.

Expand and enhance Metropolitan's outreach to key stakeholder groups in Southern California, statewide, nationally and internationally in support of strategic priorities.

- Assistant General Manager Patterson was the keynote speaker for the National Water Resources Association Municipal Caucus, addressing current federal issues of interest to Metropolitan, including drought legislation and the Delta. (August 5)
- General Manager Kightlinger addressed the California Water Commission on Metropolitan's water supply conditions, policies, planning, and program initiatives at its August meeting, which was held at Metropolitan's headquarters. The Commission also held a public workshop on the implementation of the Proposition 1 water storage investment program. (August 19)

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

Inform Southern Californians about the drought/water supply conditions and how they can help improve water supply reliability through conservation actions and support for water supply projects.

- Held press conference with Chairman Record, Director Gray, Inglewood Mayor Butts, and Deputy General Manager Zinke at Randy's Donuts to promote Metropolitan's *Let's All Take A Turn* water conservation campaign. The event, which was widely promoted on social media was covered by KTLA-TV (live) and KCAL/KCBS-TV, KABC-TV, KNBC-TV, Fox 11-TV, KABC Talk Radio, KNX radio, Spanish-language Telemundo, Univision, Estrella TV and China Daily News. ([see cover page for more](#))
- In August, television, radio, out of home advertising, and digital media promoting water conservation aired throughout Los Angeles, Riverside/San Bernardino, Oxnard/Ventura and San Diego counties, resulting in more than 200 million impressions to general market audiences and in-language Spanish, Mandarin, Vietnamese and Korean outreach. Website hits to [bewaterwise.com](#) have increased 117 percent since the start of the advertising campaign.
- Shower playlists that are timed to help take short showers, featuring short songs many with water themes, launched on streaming radio stations Pandora and Uforia and received widespread press coverage.
- Strong media interest in the drought continues to generate requests for print, TV and radio interviews on water and drought issues. Metropolitan's senior management, including General Manager Kightlinger, were interviewed this month by The New York Times, Los Angeles Times, San Diego Union Tribune, Associated Press, MSNBC, Univision, Telemundo, KRCA-TV Estrella, KNX radio, KPBS radio, Voice of San Diego, Los Angeles Business Journal, and German news magazine Der Spiegel.
- Conservation information and tips were shared with more than 81,000 unique visitors to [bewaterwise.com](#) in August and 5,700 visitors to the Spanish-language site. More than 2,900 people are following @bewaterwiseh2o on Twitter and the number of Facebook followers is nearly 12,000.
- Staff made a presentation to the Santa Ana Chamber of Commerce Manufacturers Committee on the drought and water conservation rebates available to industrial and commercial users. (August 13)
- Sponsored and staffed an exhibit booth at the annual San Bernardino County Water Conference, which was attended by more than 500 business, community, government and water agency leaders. Staff participated on a water issues panel with representatives from Association of California Water Agencies and Irvine Ranch Water. (August 21)
- Provided a water supply update to the Westchester Playa Democratic Club. (August 22)
- Made a presentation on water issues and conditions to the Burbank Chapter of the Retired Public Employees Association. (August 24)
- Participated in a panel on drought and crisis communications at the Urban Water Institute's Annual Conference in San Diego. (August 28)

EXTERNAL AFFAIRS

STRATEGIC PRIORITY

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

Secure support for Delta conveyance improvements and habitat restoration projects to maintain State Water Project supplies, including any regulatory and/or legislative policies and funding needed to facilitate its implementation.

- Coordinated presentations on California WaterFix and California EcoRestore with the Chairman of the Board and Bay Delta Initiatives staff for various member agencies. (August 4, August 5, August 12)
- Prepared and distributed sample comment letters on California WaterFix for member agencies.
- Made a presentation on the California WaterFix to the Orange County Business Council's Infrastructure Committee. (August 11)
- Staff provided a presentation to the San Gabriel Valley Council of Governments on California WaterFix. (August 18)

Secure support for water bond legislative proposals that meet Board-adopted principles and educate the public about the bonds' impacts to water resources.

Metropolitan hosted and provided public testimony to the California Water Commission's August meeting and workshop on development of regulations and guidelines for the Proposition 1 Water Storage Investment Program.

Communicate and cultivate support for Metropolitan's key initiatives related to Colorado River supplies.

Arranged media interviews with Colorado River Resources Manager Hasencamp and Las Vegas Review Journal and Associated Press reporters for stories about Lake Mead storage levels and cooperation among the lower basin states on conservation programs.

CORE

LEGISLATIVE, COMMUNICATIONS AND COMMUNITY RELATIONS

- Develop near- and long-term solutions that enhance the Delta ecosystem, improve water supply reliability, and protect water quality.
- Participate in the State Water Resources Control Board (SWRCB) process considering petition for an additional point of diversion for new conveyance facility.
- Continue to work on efforts related to improving water supply reliability and protecting water quality.

Develop and implement local, state, and federal water policy and legislative strategies consistent with Board-adopted policies.

FEDERAL

Director Peterson and staff participated in the National Water Resources Association conference to help develop a revised strategic federal legislative advocacy plan. Key issues addressed during the conference included legislation to improve forest service management and status of the implementation of the Waters of the United States rule. (August 4-6)

Staff coordinated with Senators Boxer and Feinstein's offices in coordination with member agencies to provide comments on S.1893 to codify the Pechanga Indian Water Settlement agreement.

LEGISLATIVE, COMMUNICATIONS AND COMMUNITY RELATIONS continued...

Federal, state and local water policy and legislative strategies continued...

STATE

Legislation Highlights

The legislature returned from its summer recess to consider hundreds of bills. The final push on the water and natural resource policy agenda for 2015 will include the Senate energy package and approval of a spending plan for nearly \$2 billion from cap-and-trade auction revenues.

AB 1201 (Salas, D-Bakersfield) would require the Department of Fish and Wildlife develop a science-based approach that helps address predation by non-native species on Delta species listed as threatened or endangered under CESA. The Senate Natural Resources and Water Committee unanimously endorsed the measure.

LOCAL

- Briefed Senator Hertzberg's staff on current drought conditions, California WaterFix, and Metropolitan's actions to meet member agency water supply needs. (August 4)
- Partnered with Central Basin, the Water Replenishment District, and Park Water District to make presentations at Assembly Member Calderon's Water Conservation Forum and Resource Fair in Whittier. (August 5)
- Participated in a Drought Town Hall sponsored by Assembly Member Jones in El Cajon. (August 13)
- Sponsored the Cerritos Regional Chamber of Commerce's State of the Nation event featuring Congresswoman Linda Sanchez, who spoke to the more than 150 attendees on drought and economic concerns impacting Southern California. (August 20)
- Sponsored and participated in Assembly Member Nazarian's Water Issues Forum and made a presentation on current drought and water conservation activities to over 150 community leaders. (August 21)
- Provided a tour of the F. E. Weymouth Water Treatment Plant and Water Quality Lab to Representative Grace Napolitano's staff. (August 26)

Support Board member and executive management communications and working relationships with elected officials, other government leaders, business, agriculture, non-governmental organizations, community leaders and other stakeholders to improve awareness and understanding of water policy issues.

- Directors Friedman, Lefevre and staff attended the BizFed Freshman Policymakers event, which was sponsored by Metropolitan to introduce more than 100 local, state and federal officials and provide information on key water policy issues facing the region. (August 5)
- Directors Gray, Dear and staff presented at the West Basin Municipal Water District Town Hall on water supply and drought conditions. More than 100 local elected officials, community leaders and the public attended the event. (August 15)
- Directors Koretz, Friedman and staff attended the Valley Industry and Commerce Association annual luncheon for local elected officials. Over 300 business leaders and 20 local officeholders attended the event to discuss matters of importance to the Valley, including water conditions. (August 13)

LEGISLATIVE, COMMUNICATIONS AND COMMUNITY RELATIONS continued...

Provide public outreach to increase awareness of water issues and communicate Metropolitan's interests and Board-adopted policies.

- Provided interviews and information about turf removal programs, including responses to litigation related to the release of rebate recipients' information, to the San Diego Union-Tribune, Los Angeles Times, L.A. Daily News, L.A. Weekly, Orange County Register, L.A. Business Journal, KCBS-TV, KNX radio, KPBS radio, KPCC radio and L.A. Magazine.
- Arranged interview with Assistant General Manager Patterson and Sacramento Bee on the California WaterFix and with Associated Press regarding land acquisition plans.
- Set up interviews with Los Angeles Times and ProPublica reporters on Metropolitan's land purchase in the Palo Verde Valley.
- Provided information to the KPCC radio program "Air Talk" about gray water.
- Provided information to Orange County Register about ruling in the copper pipe pitting lawsuit.
- Arranged interviews and provided information to LA Times and Laguna Beach Independent about the impact of a chemical spill in Colorado's Animas River. Prepared and distributed Metropolitan's August e-newsletter, *Your Water*, to more than 14,000 subscribers.

Press Release

Issued press release about the size of Board of Directors increasing to 38.

Online Activities

Online search on Google Search and Google Content Network continued in August resulting in increases in site visits, which are up 117 percent since spring. Keywords "water," "California weather," and "rebates" are the most searched terms for Southern California users.

Provide a suite of educational products and programs that promote conservation behaviors and critical thinking of the water issues facing Southern California.

General Education

The following activities directly reached more than 250 students and teachers:

- Generation Earth Summer Institute to support professional development in secondary schools
- Planning meetings for future activities with Kidspace Museum in Pasadena
- City of Beverly Hills' National Night Out.

Diamond Valley Lake Education Program—Facilitated a presentation to teachers from Rialto Unified School District. Hosted more than 200 visitors at the DVL Visitor Center.

Coordinate with member agencies to advance Metropolitan's interests and Board-adopted policies.

Met with Member Agency Public Information Officers to provide progress report on Metropolitan's advertising and outreach activities and discuss opportunities for future collaborations and events.

Met with member agency managers to discuss California WaterFix, Water Supply Conditions, Metropolitan's Integrated Resources Plan as well as the as the rebate program.

HUMAN RESOURCES

STRATEGIC PRIORITY

EMPLOYEE DEVELOPMENT

This strategic priority focuses on ensuring employees have the tools necessary to meet current job and future responsibilities to support Metropolitan's goals.

Foster learning and development to expand internal talent pool.

- 29 individuals graduated from the first Water System Operations Management Academy implemented by WSO and HR. The second WSO Management Academy group will start in October.
- Delivered a Reasonable Suspicion training class for managers and a number of business-focused sessions on Basic Records Management and Records Management Database and Application, Access Reports Workshop, Excel Pivot Tables, Excel List Database and Tables Workshops and Ten Principles of Effective Email,
- Career development topics included Developing Your Emotional Intelligence and Preparing for Job Interviews.
- Staff was certified to teach Blessing White's Leading Technical People class.
- Continued to support coaching interventions and providing mediation support for several groups.

Foster workforce diversity.

Met with the Employee Resource Groups to share HR priorities and determine if there are opportunities to partner on future projects based on common goals and objectives.

CORE

HUMAN RESOURCES EXCELLENCE

Foster Human Resources Excellence with innovative and efficient processes that attract, hire and develop staff. Also, ensure Metropolitan is a high performance workplace with excellent leadership and management practices.

Update the StrategicHR Plan.

Transitioned HR leadership to Diane Pitman as Interim HR Group Manager.

Foster a high-performance culture.

Presented the results of the Annual Department Head Evaluations for FY 2014/15 to the Board.

Enhance Human Resources' professionalism.

During this month's HR 101, employees learned about communication styles and the challenges and opportunities of adapting to audiences with different styles.

Manage job classifications.

Working with management to review job family of descriptions to determine if changes are needed.

HUMAN RESOURCES EXCELLENCE continued...

Provide proactive, swift, and consistent employee and labor relations.

- During the month of August, the Employee Relations Section continued to be heavily involved in salary negotiations with the bargaining units. This included three face-to-face bargaining sessions, briefing on the status of negotiations to the Organization, Personnel and Technology Committee as well as to the full Board. Negotiations are continuing into September and further Board updates will be provided.
- The Equal Employment Opportunities Investigations staff continued to investigate a number of internal complaints of discrimination.

Manage total compensation benefits.

Transition to new Deferred Compensation third-party record keeper was finalized with a transition date of September 1, 2015. Site visits continued throughout the month, focused on informing all participants of the new services and new reduced fees.

Manage Human Resources Information Systems.

- The PeopleSoft upgrade testing was completed and transition to the new vendor began August 21. The new system was implemented the first week of September.
- Continued to process employee MyPerformance evaluations and merit increases.

Manage risk.

- The Risk Management Unit completed 61 incident reports communicating instances of Metropolitan property damage, liability, workplace injuries, regulatory visits and spills.
- Risk Management completed 75 risk assessments on contracts, including professional service agreements, construction contracts, entry permits, special events and film permits.

Control leave and disability costs.

- Submitted 2 new claims to Metropolitan's workers' compensation claim administrator
- Settlements were negotiated in 3 claims and finalized in 3 claims, and 8 claim files were closed.
- Conducted MedVan evaluations at Diemer, Mills, Lake Skinner and Lake Mathews facilities.
- Arranged 10 medical evaluations (DMV, medical surveillance, hearing conservation, etc.).
- Coordinated random drug/alcohol tests at 2 facilities.
- Addressed 2 accommodation issues.

REAL PROPERTY ACQUISITION, MANAGEMENT AND REVENUE ENHANCEMENT

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

Seek revenue-generating opportunities continued.

A Letter of Consent was issued to Kinder Morgan, Inc. to perform soil sampling work along the Rialto Pipeline in the County of San Bernardino.

A Farm Lease Agreement was entered into with Verbena, LLC allowing continuance of farming operations on the recently purchased Palo Verde property through the end of the calendar year with an option to renew for an additional year upon mutual agreement of both parties.

Pursue development of the Diamond Valley Lake area, including the DVL Visitor Center and marina facilities, to support recreation, develop additional leasing and revenue opportunities for Metropolitan, and benefits the surrounding community.

Total visitors to the DVL Marina continued to decline as a result of low elevations and the private boat launch suspension effective May 2015. At the end of August, the lake elevation was approximately 40 percent of capacity. In the first two months of the FY2015/16, Diamond Valley Lake had 2,496 visitors, a drop of 52 percent from the same period in the previous year, and 78 percent from years when the lake capacity ranged from 70-100 percent. Rental boats are available and the DVL trail system remains open to the public.

Construction has begun on the DVL Marina ramp extension. The contractor is currently on site relocating anchor blocks used to secure the boarding docks. Grading and concrete work by Metropolitan forces is anticipated to begin in several weeks.

The DVL Visitor Center Building #4 completion progresses. Staff from Real Property Development and Management, Water System Operations, and Engineering worked together to complete the concrete floor work. The remaining build-out work will be advertised with an estimated project completion of mid-2016.

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

Approximately 12,780 acres of property were purchased within the Palo Verde Irrigation District in Riverside and Imperial counties from Verbena, LLC.

An easement from the Western Area Power Authority acting on behalf of the United States of America was acquired within the Mead Substation property in Nevada for removal, replacement, and maintenance of 230kv transmission lines and operational equipment.

Evaluate additional use and rental of Metropolitan Headquarters building space.

Staff concluded negotiations with the California Department of General Services and executed extensions of the current Headquarters building leases for the Division of the State Architect and the California Office of Statewide Health Planning and Development at market rents through May 31, 2017.

REAL PROPERTY DEVELOPMENT AND MANAGEMENT

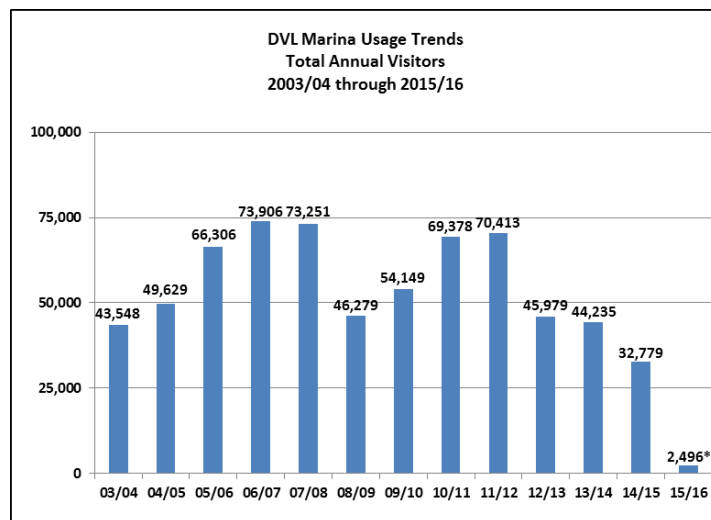
CORE

REAL PROPERTY ACQUISITION, MANAGEMENT AND REVENUE ENHANCEMENT *continued...*

Foster staff training and development.

Staff attended Metropolitan-sponsored training courses: Excel List Database and Tables Workshop; Excel Pivot Tables Workshop; and Developing Your Emotional Intelligence.

RPDM managers participated in two training sessions as subject matter experts regarding Metropolitan’s property management functions. These training sessions were held for the benefit of Water System Operations System staff and provided assistance regarding common problems experienced as they relate to system protection.



*Actual thru August 2015 (2015/16 projection is 31,000)

WATER RESOURCE MANAGEMENT

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.

Water Protocol—Metropolitan staff met with staff from The Climate Registry to provide input into TCR’s proposed greenhouse gas (GHG) reporting protocols for water. TCR is a non-profit organization which operates the primary GHG registry for California. Metropolitan, along with several local water agencies, voluntary reports GHG emissions to TCR on an annual basis using a general reporting protocol. At the request of its members, TCR is developing a reporting protocol specifically for the water sector. The new protocol could impact how water and wastewater agencies report GHGs and affect the cost of reporting. Metropolitan has participated in related TCR workshops throughout 2015 and will be a part of the technical review panel. A draft final version of the water protocol is expected by the end of the year.

CORE

WATER SUPPLY continued...

Ensure cost-effective and reliable imported water supplies.

State Water Project Allocation—The Bureau of Reclamation released the August 24-Month Study confirming Lake Mead forecasted elevation on January 1, 2016 would not trigger a shortage in 2016. The California Department of Water Resources released their updated water operations study confirming no changes to the current 20 percent State Water Project allocation.

Engineering Workshop—Staff participated in a week-long value engineering workshop to study plans to replace the East Wing units at the Edmonston Pumping Plant. Staff seeks a solution for providing the best value for the State Water Contractors while providing long-term plant and overall State Water Project reliability.

Weather Modifications Activities—Staff met with the Colorado Water Conservation Board and funded weather modification activities for winter 2016. Activities are funded with Lower Basin dollars, will occur in the State of Colorado, and are intended to boost snowpack levels in the Upper Colorado basin during the upcoming water year.

Tamarisk Coalition—The Board of Directors for the Tamarisk Coalition, including a staff member, approved the annual budget and developed a strategy to increase the amount of grant funding received by the Walton Family Foundation.

STRATEGIC PRIORITY

LOCAL PROJECTS AND INTEGRATED RESOURCES PLAN UPDATES

In late 2014, Metropolitan adopted a new Local Resources Program (LRP) to encourage the development of additional supplies within the region. Staff intends to monitor progress under this new LRP through fiscal year 2015/16 to see if additional recommendations are necessary to meet the regions long-term supply needs. Metropolitan's Integrated Resources Plan was adopted in 2010 and will be updated in 2015 with new resource targets.

IRP Update—At the August 18, 2015 IRP Committee meeting, staff provided the Committee with draft results from the member agency technical process. Staff presented updated forecasts for conservation, demands, local supplies, and imported supplies. In addition, staff presented the results of two different modeling scenarios. These scenarios showed the impact on Metropolitan's reliability and storage reserves under a "do nothing" case, and under a case with development of the 2010 IRP targets.

Cal Poly Pomona Water Treatment Plant project—The Cal Poly Pomona Water Treatment Plant project, an LRP project, started operations. This project employs typical reverse osmosis technology to treat degraded groundwater from the Spadra Groundwater Basin to potable standard, providing an additional 250 acre-feet per year.

Rose Hills Memorial Park—Staff attended the groundbreaking ceremony for the Rose Hills Memorial Park Project. Rose Hills is already using recycled water for a portion of its irrigation needs. Upon completion of this project, Rose Hills will use recycled water for 100 percent of its irrigation and landscape maintenance with Metropolitan's assistance.

On-site Retrofit Pilot Program—Under the On-site Retrofit Pilot Program, Metropolitan committed \$5.3 million for converting 5,512 acre-feet of potable water to recycled water at 132 sites, including schools, parks, golf courses, cooling towers, and one ice rink.

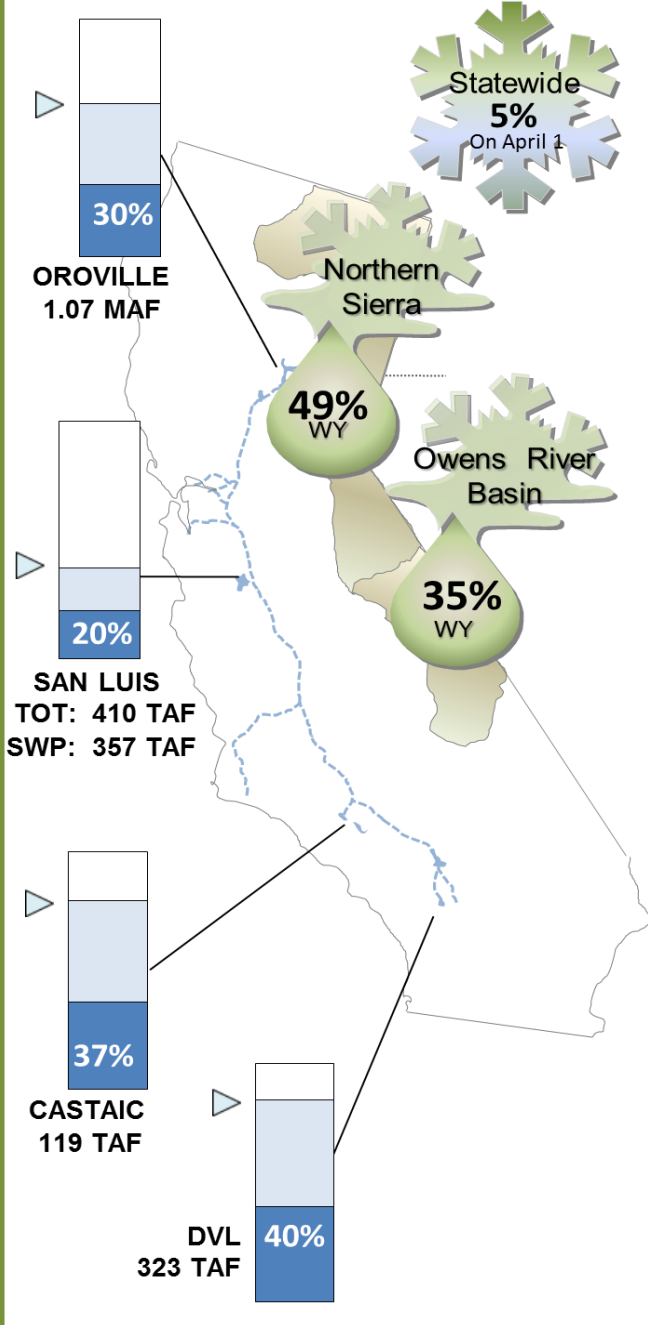
WATER SUPPLY CONDITIONS as of August 31, 2015

2015 SWP Allocation

382,300 AF

20% of Table A

(Does not include CVWD & DWA Table A)

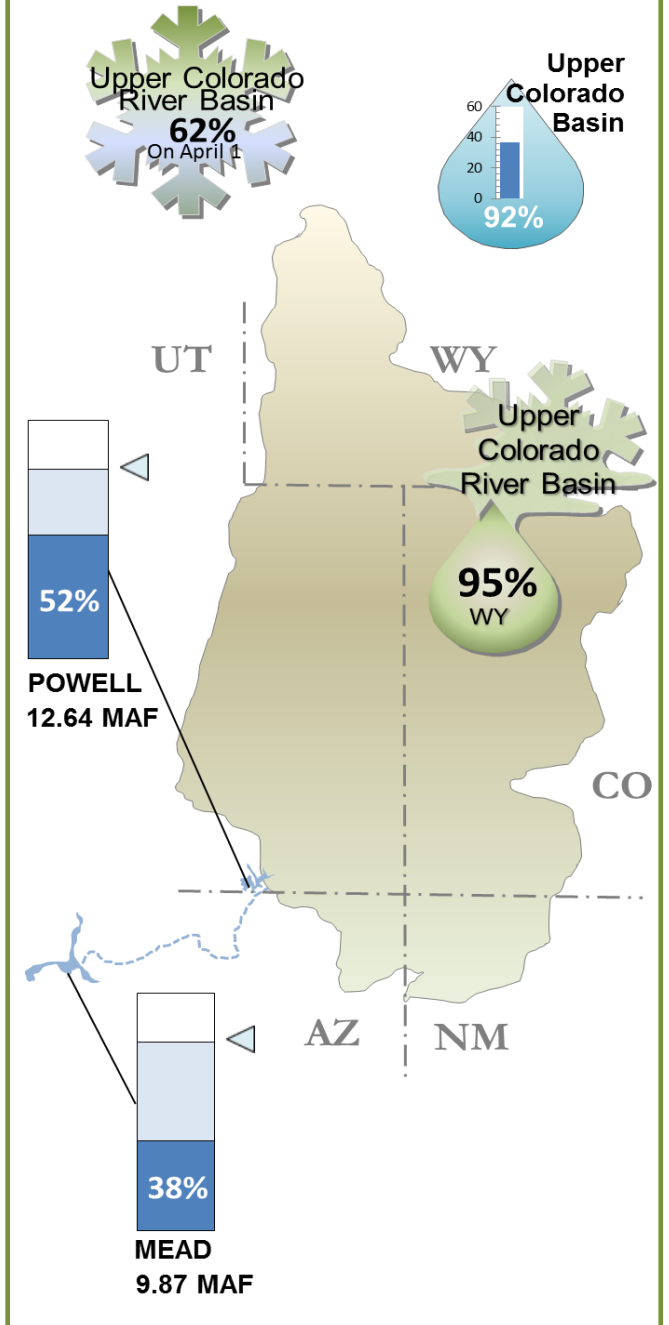


2015 Colorado River

925,000 AF

74% of full CRA

(Does not include Lake Mead Storage)



Regional Snowpack
 Precip
 Capacity (white), Average EOM Storage (light blue), Current Storage (% Capacity) (dark blue)
 Snow pack % April 1
 Runoff Forecast Water Year (WY) to Date unless otherwise

WATER SYSTEM OPERATIONS

CORE

PROVIDE RELIABLE WATER SUPPLIES

System Operations delivered approximately 155,000 acre-feet of water to meet member agency demands in August, which averaged approximately 5,000 AF per day. This compares to about 183,000 AF delivered in August 2010, which was the previous August low over the past decade. Treated water deliveries for August totaled 75,000 AF, or 48 percent of total deliveries for the month. In August, 106,000 AF of Colorado River water was pumped as the CRA remained on an eight-pump flow for the entire month. Year to date CRA diversions are 778,000 AF. State Water Project imports averaged 1,510 AF per day for 46,800 AF for the month. This was an increase of 4,800 AF from July. System Operations continued the strategy of minimizing the use of SWP water wherever possible. For the month of August, the use of SWP water accounted for 30 percent of Metropolitan's deliveries. This was a four percentage point increase from July deliveries.

Storage at Diamond Valley Lake remained at 323,000 AF or 39 percent full and Inland Feeder deliveries remained at zero for the month of August. SWP blends to the Weymouth, Diemer, and Skinner plants remained at zero percent due to the low SWP allocation of 20 percent. The Greg Avenue pump station remained on-line for the month of August. By the end of the month, the pumps at Greg Avenue had delivered 55,200 AF of CRA water to the western side of Metropolitan's distribution system since being activated in March 2014, in response to the low SWP allocations in 2014 and 2015.

System Operations continued to maximize power generation throughout the month. In August, Metropolitan's hydroelectric plants generated an average of 18.7 megawatts per hour for 13,900 megawatt-hours for the month.

CORE

OPTIMIZE MAINTENANCE

Staff completed a five-day shutdown of the Perris Bypass pipeline to enable a contractor to complete the installation of a new control valve at the Perris Pump-back facility. The operators will now be able to adjust the total flow from the pumps to the Mills plant by recirculating a portion of the flow back into the valve manifold. Prior to installation of the control valve, the combined pump flow rates were only adjustable in whole pump increments and did not match the treatment plant's fluctuating demands.

(see photo below)

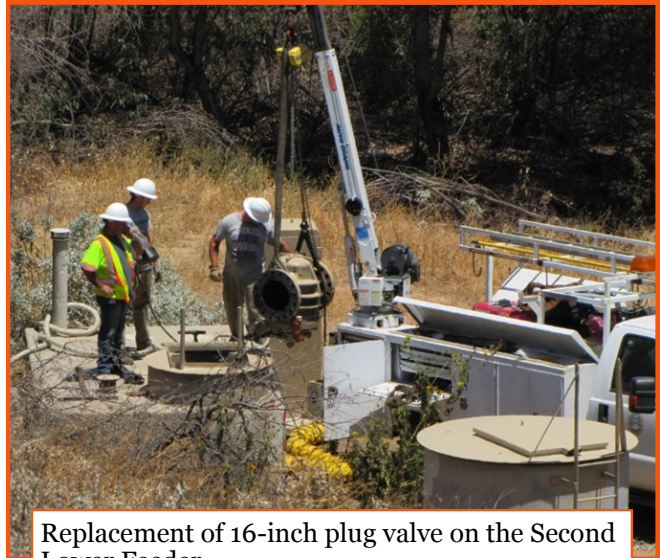
Contractor installation of the 24-inch recirculating valve manifold at Perris Pumpback facility.



CORE

OPTIMIZE MAINTENANCE continued...

As equipment within the distribution system ages, it is either replaced or refurbished. This month, staff refurbished the Beverly Hills pressure control structure on the Santa Monica Feeder, originally put into service in 1941. The work consisted of replacing certain valves, updating the electrical equipment, rebuilding the hydraulic control system, and coating the structure. A 16-inch valve on the Lower Feeder pipeline was also replaced. The valve, normally used for dewatering, had become difficult to operate and was removed and replaced. *(see photo right)*



Replacement of 16-inch plug valve on the Second Lower Feeder

Unpaved access roads are critical to desert staff and are used for infrastructure maintenance and security patrols. Periodic storms during the monsoonal season can cause severe erosion. This month, a severe rain storm dropped approximately six inches of rain at Desert Center, near the Eagle Pump Plant. The flooding damaged a bridge on Interstate 10 and caused major erosion of the access road to the nearby Chuckwalla Peak communications site. The communication site is critical to CRA operations providing radio communications to remote desert facilities. Over a two-week period, staff used road graders and other heavy equipment to restore the access road.

The La Verne Shops manufactured four drop gates for the Jensen plant in order to hydraulically isolate the filters for valve replacement. The gates, as large as 20 feet by 7 feet, were fabricated with aluminum tracks that hold the inflatable seals and were then coated to resist corrosion. *(See photos right)*



A gate being lowered using a crane (left) and (right) staff guiding the gate into the opening at the Jensen plant.

WATER SYSTEM OPERATIONS

CORE

OPTIMIZE MAINTENANCE continued...

During construction of the Module 1 service water pump station at the Jensen plant, it was determined that relocating the existing irrigation pumps would facilitate construction activities and provide better access for service water system operation and maintenance activities. Staff partnered with Engineering to design this modification and began construction of a new 20-foot by 40-foot concrete pad that will house four existing irrigation pumps and miscellaneous steel piping for the plant's potable irrigation system. The project will also include a new duct bank to provide power to the existing pumps, valves and instrumentation. Construction is scheduled for completion in mid-September.

Staff accepted delivery of a new 2015 rough-terrain crane with fully compliant diesel emission controls. This replaces a 24-year-old crane without emission controls. The new engine produces 50 percent less pollution. This unit will be used by desert staff in the maintenance of the Colorado River Aqueduct infrastructure.

(see photo right)

New 2015 crane for CRA infrastructure maintenance



CORE

MANAGE THE POWER SYSTEM

During the month, staff had several meetings with the current and future Hoover power contractors as well as direct negotiations with the Bureau of Reclamation and the Western Area Power Administration on new Hoover power contracts. These contracts would become effective when the current contracts expire on September 30, 2017. Negotiations are expected to continue into 2016.

On August 13, staff met with members of The Climate Registry to discuss the Registry's effort to develop a guidance document for water agencies to use in voluntarily reporting the energy intensity and resulting greenhouse gas (GHG) intensity of the water they serve. The guidance document would provide a uniform tool to communicate energy and GHG intensity values to customers, policymakers, and the public. Staff will review the draft guidance document and provide comments to the Registry.

On August 18, Metropolitan released a Request for Offers for the energy output from five of Metropolitan's 16 conduit hydroelectric power plants. Metropolitan is requesting offers from interested buyers for the renewable energy from the power plants. This energy can be used to meet California's requirements for retail electric utilities to utilize renewable energy in serving their electric customers. Metropolitan is offering the energy for either a two- or five-year term. The current contract for the sale of energy from these five power plants expires December 31 of this year.

WATER SYSTEM OPERATIONS

CORE

IMPROVE SECURITY AND EMERGENCY RESPONSE

Staff met with representatives from member agencies who will be participating in this year's functional emergency exercise scheduled for November. This year's exercise will focus on response and recovery efforts associated with a simulated earthquake in the Southern California desert. Staff from Metropolitan's Mills and Skinner plants and Eastern and Desert Conveyance and Distribution regions will participate in this daylong exercise. Representatives from Western, Eastern and Three Valleys Municipal Water Districts, Inland Empire Utilities Agency, and the San Diego County Water Authority will also participate in the exercise. This collaborative planning will continue through the summer and will strengthen preparedness for Metropolitan and its member agencies.

On July 21, staff met with representatives from the Los Angeles Department of Water and Power in the Metropolitan Emergency Operations

Center in Eagle Rock to review plans for LADWP's new EOC facility. Staff shared lessons learned from the development of Metropolitan's EOC and recent EOC exercises. This type of collaborative effort helps build strong working relationships between Metropolitan and its member agencies, which are extremely beneficial during times of emergency.

In August, high temperatures and drought conditions made a for a dangerous combination. Metropolitan staff monitored numerous wildfires during the month including the Cabin Fire (near Azusa), Lincoln Fire (near Montebello), and Warm Fire (near Lake Castaic). Although none of the fires directly impacted Metropolitan or its member agencies, the extreme weather conditions warranted a watchful eye.

CORE

DEVELOP WORKFORCE

The Water System Operations Apprentice and Technical Training Programs help develop and train personnel to become qualified electricians and mechanics responsible for maintaining Metropolitan's water treatment and distribution systems.

The Class of 2018 Mechanics studied and performed fabrication techniques as part of the Second Period of related instruction. During laboratory instruction, apprentices completed several projects using various types of metal and metal working equipment. Experience gained from these projects and exposure to equipment such as lathes and cutting torches prepares apprentices to perform fabrication tasks throughout their career as future journey-level mechanics. *(see photo right)*

WSO and HR conducted the first WSO Management Academy consisting of ten daylong sessions throughout the year. The Academy addresses the changing workforce and succession planning for first level managers. The goals for the Academy were to develop management and leadership skills for future candidates. The first Academy focused on journey and advanced journey-level operations and maintenance craft employees. Twenty-nine of the 30 students enrolled completed the program on August 19. *(see photo next page)*



Class of 2018 Mechanic operates a metal cutting torch.

WATER SYSTEM OPERATIONS



WSO Management Academy
Class 2015 (see story page 26)

CORE PROTECT SOURCE WATER QUALITY

On August 5, the United States Environmental Protection Agency inadvertently released over 3 million gallons of acidic wastewater containing high levels of heavy metals while conducting site remediation work at the abandoned Gold King Mine located near Silverton, Colorado. The mine is located over 900 miles upstream of Metropolitan's Colorado River Aqueduct intake. The metals-contaminated plume caused discoloration through the Animas River and portions of the San Juan River prior to dissipating as it entered Lake Powell. No water quality impact is anticipated to Metropolitan due to significant dilution and travel time through Lakes Powell and Mead (currently storing a combined 7 trillion gallons of water). Metropolitan routinely monitors for metals at its CRA intake and continues to coordinate with upstream partners to assess impacts of the spill. (see photo right)



Gold King mine spill

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 August 2015

On August 13, staff submitted a permit application under the new Statewide General Permit for Drinking Water System Discharges to obtain coverage for Metropolitan's planned (e.g. shutdown dewatering) and unplanned drinking water system releases. The new permit regulates all potable and raw water releases greater than 50,000 gallons. The permit requires advance notifications, monitoring, recordkeeping, and annual reporting. The permit replaces Metropolitan's coverage under the other regional water quality control board's General Permits.

WATER SYSTEM OPERATIONS

CORE

OPTIMIZE WATER TREATMENT AND DISTRIBUTION

State Water Project target blends at the Weymouth, Diemer and Skinner remained at zero percent for August. Flow-weighted running annual averages for total dissolved solids from July 2014 through June 2015 were 627, 629, and 550 mg/L for Weymouth, Diemer and Skinner plants, respectively.

Work began on the \$41 million capital improvement project to replace the internal components of the Weymouth plant's 48 filters, including the underdrains, media, launder troughs, and surface wash systems. These changes make room for more filter media, improving filtration and backwash performance. In addition, the modified surface wash system will more effectively clean the media and reduce media loss. The contractor works with a limited number of filters at one time so as not to impact plant operations or treated water deliveries. In August, the contractor completed demolition work on five filters and was scheduled to install filter underdrains in two filters. Project completion is targeted for May 2017.

(see photo below)



Drained filter rehabilitation work in progress using contractor; preparing filter for underdrain installation.

Improving treatment plant reliability, the Mills plant began to upgrade the existing Industrial Wastewater Handling Facility. The project will include additional instrumentation to improve process monitoring, increase storage capacity, add a chemical feed system to neutralize the wastewater, and add a discharge line to the sanitary sewer. The total cost of the capital improvement project is \$4.7 million and the target completion date is April 2016.

As treatment plants remove dirt and other suspended materials from the water, thick slurry known as sludge is formed. The plant continues to process the sludge to remove as much of the water as possible to ensure it is returned to the process and not wasted. As part of a project at the Skinner plant, staff replaced four pumps that are used to move sludge from the Reclamation Plant to the thickeners. Plant staff replaced the pumps, piping, motors, conduit, and wiring. The old pumps were replaced due to aggressive corrosion caused by treatment chemicals.

WATER SYSTEM OPERATIONS

CORE

SUPPORT EDUCATION AND OUTREACH INITIATIVES

The California-Nevada Section of the American Water Works Association held a Water Education Seminar on August 12, at Santiago Canyon College, in Orange County. The event provided educational opportunities on subjects related to water treatment and distribution for over 750 water industry professionals. Staff gave presentations at the event on ozone operations, biological filtration, algae treatment, and chlorination.

Staff conducted a Weymouth plant tour during the month for the Los Angeles Service Academy, which provides an intensive introduction to the infrastructure and institutions of greater Los Angeles for students who have expressed an interest in public, civic, and civil service. Tour participants learned about water treatment processes, source water protection, and drought response initiatives.

California Construction Expo—Metropolitan booth and audience during keynote address. *(story page 6)*



Storage	As of 8/31/15	% of Capacity
DVL	322,821 AF	40
Lake Mathews	114,651 AF	63
Lake Skinner	30,591 AF	70

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.

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

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