



General Manager's Monthly Report



Activities for the Month of November 2022



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Message from the General Manager

In November, we honored the centennial of the Colorado River Compact, which is so closely tied to our proud legacy as an organization. The Compact enabled Metropolitan to secure the critical water supplies of the Colorado River to serve a growing Southern California.

One hundred years after the signing of the Compact, we face big decisions on the Colorado River among the many water management challenges of drought and climate change.

I am inspired by the boldness with which our predecessors faced their water supply needs as Metropolitan considers today's "Mulholland moment" and how we will build a resilient and sustainable water supply for the next century.

Recognizing that a reliable water supply is critical to all economies and communities relying on the drought-stricken Colorado River, we must work together to secure our future. This means uniting across state and international boundaries, bridging urban and agricultural water needs, creating new partnerships, and expanding best practices in policy and industry.

One such step forward is a [Memorandum of Understanding](#) (MOU) we recently signed, along with more than 30 water agencies and providers, committing to actions that reduce water demands and help protect the Colorado River system. Under the MOU, signatories will implement the conservation actions, programs and/or policies most appropriate for their individual communities and water efficiency goals.

It will take much more to bring the Colorado River into balance, but this MOU illustrates that we can build solutions by working together. Like the Compact has become a cornerstone of our water infrastructure, our efforts today to set a sustainable foundation for the future will ensure that Southern California communities and economies can thrive for decades to come.

We are one,

Adel



**“A sustainable future
for humankind
depends on a caring
partnership with
nature as much as
anything else.”**

- Nelson Mandela



Strategic Priorities Update

The General Manager's Strategic Priorities guide actions in key areas of focus, investment, and transformation for Metropolitan.

Empower the workforce and promote diversity, equity, and inclusion

Build a safe, inclusive, and accountable workplace where all employees feel valued, respected, and able to meaningfully contribute to decisions about their work.

The November management development (MMU) session covered how managers can utilize Employee Relations as a resource to manage and track performance.

Prepare and support the workforce by expanding training and skill development and updating strategies to recruit and retain diverse talent at a time when Metropolitan's needs are evolving and employee expectations about the workplace are changing.

Updated recruitment policy and procedures have been communicated to all employees and submitted as part of the most recent status report to the State Auditor.

Sustain Metropolitan's mission with a strengthened business model

Manage rate pressure on member agencies through attention to programmatic costs, organizational efficiencies and efforts to secure external funding for projects with broad and multi-purpose benefits.

Secured \$50 million from the State for drought projects funding, which is scheduled for Board of Directors action in December to accept the grant and designate a signatory.

Adapt to changing climate and water resources

Provide each member agency access to an equivalent level of water supply reliability through necessary adaptive implementation of the IRP findings.

Staff met multiple times with State Water Project-dependent area agencies to plan for 2023 and develop volumetric limits for SWP Table A, Human Health & Safety, and Water Surplus & Drought Management (WSDM) supplies. Overall State Water Project use remains under the volumetric limits set in collaboration with the SWP-dependent area agencies.

In a joint press release, more than 30 water agencies and providers across the West announced their commitment to take additional actions to protect the Colorado River system through reducing water demands. This commitment is made in an MOU that Metropolitan helped organize, that includes a number of agencies in Southern California, and that was delivered to the Bureau of Reclamation Commissioner Camille Touton.

On November 1 we launched an increase in turf removal rebates of \$1 for CII, residential and public agency consumers. The public agency rebate went from \$3 to \$4 per sq ft as result of a \$2 million grant from the United States Bureau of Reclamation. The residential and CII rebate went from \$2 to \$3 per sq ft due to a separate \$2 million grant from the Department of Water Resources.

Advance the long-term reliability and resilience of the region's water sources through a One Water approach that recognizes the interconnected nature of imported and local supplies, meets both community and ecosystem needs, and adapts to a changing climate.

We are developing a district-wide SRI Strategy through work across multiple groups within Metropolitan, including with Engineering Services, which is assessing opportunities to incorporate sustainability measures into design, capital projects and operations, is assisting with the review of options to pursue solar and renewable energy on Metropolitan property, and has secured a consultant to help create an Infrastructure Resilience Strategic Plan.

As part of implementation of our Climate Action Plan, Operations (WSO) assigned two lead staff to help advance the transition of Metropolitan's fleet to zero emission vehicles and facilitate our ZEV Task Force.

In support of stormwater capture strategies, we met with Anaheim to discuss their forthcoming State College Boulevard Stormwater Capture Project, which is receiving matching funds through Metropolitan's stormwater

recharge pilot program. This innovative project will use an abandoned wastewater pipe and dry well field to divert and infiltrate stormwater.

The NOP comment deadline is closed for Pure Water Southern California, and staff is reviewing public comments. Potential program manager consultants are being interviewed, and the RFP for preliminary design of the Carson-Lakewood pipelines is ready for distribution.

Metropolitan submitted comments on the Delta Conveyance Project Draft EIR, which have been shared with the Board and member agencies.

Protect public health, the regional economy, and Metropolitan's assets

Proactively identify, assess, and reduce potential vulnerabilities to Metropolitan's system, operations, and infrastructure.

Staff conducted a full-scale emergency-response exercise at the Diemer plant. This exercise was a collaboration between Metropolitan and local first responders, including the Orange County Fire Authority, Orange County Sheriff's Department, Water Emergency Response Organization of Orange County, city of Yorba Linda, and others. Over 100 participants collaborated to simulate a real-world emergency response at the Diemer plant.

Staff bolstered relationships with security partners including hosting a Cybersecurity and Infrastructure Security Agency (CISA) for the region's first-ever "ChemLock" tabletop emergency exercise, joining the Joint Management Council for the Safety, Security and Emergency Management Committee at the Union Station campus, and attending the Water Information Sharing and Analysis Center security conference. All these efforts help to improve Metropolitan's security posture.

Construction of the new Cybersecurity Operations Center progressed with completion anticipated by the end of the year. As part of the Datacenter Modernization Relocation project, staff conducted data migration and physical relocation of hardware. Planning for the final migration of software and applications (e.g., Virtual Desktop Infrastructure, Enterprise GIS) is underway. The cybersecurity team has also successfully configured appliances to monitor for malicious activity related to user account access.

Implementation of Metropolitan's Strategic Asset Management Plan is initiated through a pilot program to collect and analyze field data of meter facilities to enhance condition assessments and inform maintenance planning.

Apply innovation, technology, and sustainable practices across project lifecycles (design, construction, operations, maintenance, and replacement).

Metropolitan and its consultant have begun a pilot installation of the SCADA control system before moving on to upgrade and furnish equipment to replace the entire system at the Mills plant.

The Chief SRI Officer participated in a delegation to Denmark to exchange ideas on innovative solutions for reducing GHGs in water utilities.

Partner with interested parties and the communities we serve

Grow and deepen collaboration and relationships among member agencies, interested parties, and leaders on the issues most important to them and toward mutual and/or regional benefits.

Staff successfully completed a public engagement training course on best practices and is surveying other agencies on engagement strategies. Work continues on identifying and evaluating partnering and sponsorship program options to maximize value.

Executive Summary

This executive summary is added to this report to provide a high-level snapshot of a key accomplishment from each area of the organization. Detailed information is reported in the pages following this summary.

Administrative Services

Investment Recovery (IR) within the Inventory Control Team is Metropolitan Water District's central receiving department for excess equipment, surplus material, and scrap. Throughout the year IR receives surplus material, scrap, vehicles, tools, and surplus equipment from HQ and twelve field facilities. Our mission is to recover the highest value for any asset that is no longer needed by Metropolitan. We do so by assessing whether equipment can be redeployed within the organization, resold to the public, or recycled (scrap or E-waste). During Q1 FY22/23, Investment Recovery generated \$177,594.45 in revenue.

Bay-Delta Initiatives

Staff worked with researchers from UC Davis to initiate the Delta Smelt Pilot Propagation study. The study uses the impoundments on Metropolitan's Delta Island properties to evaluate their use to aid the state and federal agencies efforts to propagate hatchery Delta smelt in the wild. This initial study is one of several planned that is being conducted with the support of the California Department of Water Resources, California Department of Fish and Wildlife, U.S. Fish and Wildlife Service, and local stakeholders.

Chief Financial Officer

Finance's Treasury team worked with our external Investment Advisor to develop a reallocation strategy of Liquidity and Core Portfolio balances to meet District cashflow needs as well as enhance our investment returns given changing market conditions. Implementation of this strategy is anticipated to begin in December 2022.

Colorado River

On November 21, Metropolitan partnered with Palo Verde Irrigation District and Bard Water District to submit following proposals to the Bureau of Reclamation for funding under the Inflation Reduction Act. If accepted, these proposals would conserve additional water through 2026, assisting California in meeting its goal of conserving an additional 400,000 acre-feet annually through 2026. Reclamation is reviewing the proposals, and if accepted, they would be implemented in early 2023.

Diversity, Equity & Inclusion

Diversity, Equity & Inclusion continues to drive impact and engagement across all our stakeholder groups. In November, members of the Business Outreach Team met with over 400 veteran-owned businesses and participated in one-on-one vendor meetings. In addition, we hosted our quarterly Networks virtual networking and contracting opportunities workshop in which over 600 firms participated. In our tribal outreach and engagement efforts, we engaged with the Colorado River Indian Tribes (CRIT) Museum and invited the director of the museum, Valerie Welsh-Tahbo, to engage with Metropolitan employees in a virtual event in honor of Native American Heritage Month. Last but certainly not least, we partnered with other LA-based public agencies to host students from Historically Black Colleges and Universities (HBCUs), exposing them to careers in engineering at Metropolitan. This was a great partnership among DE&I, Engineering Services Group, and External Affairs and was a first-of-its-kind initiative for Metropolitan.

Engineering Services

In preparation for planned December board actions, Engineering and Water System Operations staff has developed plans to effectively use \$80 million dollars in grant funding to advance Pure Water Southern California, \$50 million for drought-resilient infrastructure improvements, and \$150,000 for preparation of a hazard mitigation plan. Metropolitan has received proposals for program management support for Pure Water Southern California. The first drought project has been advertised for construction bids. The Sepulveda Feeder project team is fully assembled and developing procurement documents for Metropolitan's first progressive design build project.

Equal Employment Opportunity Office

On November 9, the Chief EEO Officer represented Metropolitan by attending the Los Angeles County Economic Development Corporation (LAEDC) 27th Annual Eddy Awards. The Eddy Awards is an awards gala to support LAEDC's mission of reinventing the economy to collaboratively advance growth and prosperity for all.

External Affairs

Commemorated the 100th Anniversary of the Colorado River Compact and its significance to Southern California and Metropolitan with messages to the board, member agencies and employees, and on social media.

Human Resources

Human Resources finalized the Department Head evaluation process by collecting feedback and ratings from 83 percent of the Board of Directors for three of the department heads: General Manager, General Counsel, and Ethics Officer. Results were shared with the Board of Directors and individual employees.

Information Technology

The Information Technology Group completed the Implementation of PeopleSoft Single Sign-On for MyHR. This function provides better security for the platform and allows employees more availability to use the application for their HR needs.

Real Property

The Diamond Valley Lake Marina hosted the 17th Annual NamiWalks Inland Empire Mental Health Walk. The National Alliance on Mental Health (NAMI) organizes yearly walks that are dedicated to raising mental health awareness. This year's event drew over four hundred people to take part in the festivities that included food, music, speakers, informational booths, and a walk along the Lakeview Trail. Funds raised from this event will go to support free mental health programs and services in the local community.

Security Management

Metropolitan hosted the Cybersecurity & Infrastructure Security Agency's (CISA) first-ever ChemLock Tabletop Exercise (TTX) in CISA Region 9 (California, Arizona, Nevada, Hawaii, Guam, American Samoa, and the Marianas). CISA's ChemLock program is a voluntary program that provides no-cost services and tools to help facilities better understand the risks they face and improve their chemical security posture in a way that meets their operational needs.

Sustainability, Resiliency and Innovation

The CSRIO participated in a cohort of sustainability leaders from across the U.S. water utility sector in U.S. Water Alliance trip to Denmark. The cohort, which is focused on sharing strategies to reduce greenhouse gas emissions in the water sector, visited several Danish utilities that prioritize energy efficiency, energy production, and climate action in their operations and projects. The CSRIO also helped facilitate the participation of our member agencies in the Colorado River Urban Water Users MOU. We announced the addition of over two dozen signatories throughout the Colorado Basin this month. SRI also facilitated an EV tour for our ZEV Task Force at LADWP facilities.

Water Resource Management

As the first phase of the EWCP ends in December, staff worked with the SWP-dependent agencies to review and modify the program as needed for the next period of January through June 2023.

Water System Operations

Staff conducted a full-scale emergency response exercise on November 17 at the Diemer plant. This exercise was a collaboration between Metropolitan and local first responders, including the Orange County Fire Authority, Orange County Sheriff's Department, Water Emergency Response Organization of Orange County, and the city of Yorba Linda. After months of planning, over 100 participants successfully collaborated to simulate a real-world emergency response at the Diemer plant supporting Metropolitan's overall emergency preparedness.

Upcoming Board Items

ANTICIPATED KEY ITEMS OF FOCUS – NOT AN EXHAUSTIVE LIST
SCHEDULE SUBJECT TO CHANGE

January	<ul style="list-style-type: none">• Pure Water Program Management Agreement• Nomination and Election of nonofficer members of the Executive Committee for two-year term effective January 10, 2023
February	<ul style="list-style-type: none">• Board Report on Portfolio of Recommended Actions for State Water Project Dependent Areas• Authorize Colorado River Protection Volume Agreements• Board Retreat (Metropolitan Priorities Visioning)
March	<ul style="list-style-type: none">• Report on Alternatives being Considered by Reclamation in Supplemental EIS for Colorado River Basin Operations
April	<ul style="list-style-type: none">• Delta Conveyance Project Follow-up Workshop

(Efforts underway to have a 12-month look-ahead)

The schedule of the following upcoming board items has not yet been determined:

May - December	<ul style="list-style-type: none">• Metropolitan Storage Portfolio Workshop• Sustainability, Resiliency, and Innovation Strategic Plan Workshop• Board Consideration Related to VA Package - (draft agreements and appendices, coupled with potentially required federal legislation)• Federal Grants for Large Recycled Water Projects
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“An innovative and successful project takes place where art, science and craft meet.”

Cathy Chau, Project Manager

PROGRAM DESCRIPTION

The Metropolitan Water District is replacing a nearly century-old Colorado River Aqueduct siphon that crosses a Southern California earthquake fault line to make it more resilient to seismic risks and leaks. This \$37.2 million project will replace about 1,200 feet of the 148-diameter pipe with two parallel barrels of earthquake-resistant pipeline.

IMPORTANCE TO METROPOLITAN

Originally constructed in 1935, the five-mile-long Casa Loma Siphon is a critical component of the Colorado River Aqueduct. It is important because the siphon is one of the main lines that delivers Colorado River water to Southern California. The siphon, which is built with 148-inch concrete and steel pipe, has deformed over time due to local ground subsidence, leading to recurring leaks and repairs since the 1960s. An evaluation conducted by Metropolitan found that a future seismic event along a fault which crosses the siphon could potentially displace the ground up to 13 feet, likely rupturing the siphon and placing Metropolitan’s water reliability at risk. This project installs flexible sections of pipe in within the fault zone to enable the siphon to move without breaking in the event of a significant earthquake, thereby enhancing the overall reliability of the region’s water supply.

MEMORABLE MOMENT

The contractor, pipe manufacturer, consultants, and Metropolitan staff worked together as a team to implement this innovative and challenging design, which included the use of the largest Earthquake-Resistant Ductile Iron Pipe (ERDIP) installation outside of Japan. The most memorable moment for Resident Engineer Jeremy Mercer was the successful installation of the final segment of 104-inch ERDIP, which will enhance the reliability of Metropolitan’s Colorado River Aqueduct for years to come.



Water Resources and Engineering

Water Resource Management

Ensure Reliable State Water Project (SWP)

The U.S. Bureau of Reclamation (Reclamation) continues the first phase of the Sisk Dam Safety of Dams Modification Project. This project will strengthen the foundation and raise Sisk Dam by 10 feet to increase freeboard and prevent water from flowing over the dam in case the reservoir is full and an earthquake rocks the area. Crews have already moved more than 400,000 cubic yards of slope wash from three sites, with work scheduled to be completed by mid-2024. Reclamation is committed to working with the California Department of Water Resources to minimize any operational impacts to State Water Project and Central Valley Project operations during the construction period.



Heavy machinery excavates slope wash material from the base of B. F. Sisk Dam (Photo credit: Reclamation).

Ensure Access to Sufficient Water Supplies to Operate a Full Colorado River Aqueduct In Times of Drought.

Water Resource Management (WRM) staff remotely attended the Colorado River Climate and Hydrology Workgroup meeting in Salt Lake City, Utah, the first meeting of the workgroup in over a year. The meeting consisted of two full days of presentations on the latest climate and hydrology research aimed at improving short-, medium-, and long-term runoff forecasts in the Colorado River Basin.

Water Resources and Engineering

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Manage Existing and Develop New Regional Water Management Programs to Maintain Water Supply Reliability in the Face of Increasing Water Supply Volatility.

In November, staff conducted three site inspections for a total of 15 On-Site Retrofit Program (OSRP) projects that were completed in FY20–21 as part of the audit requirements. The first site inspection was with El Toro Water District at a senior living community. El Toro Water District received four OSRP incentives for converting potable water meters at the Home Owners Association to recycled water irrigation to serve residential landscaping. The second site inspection was with Fontana Public Works, which received three OSRP incentives for converting potable water irrigation to recycled water to irrigate their publicly owned properties (i.e. medians and parkways). The final site inspection was with Rowland Water District, which received 16 OSRP incentives for converting potable water irrigation to recycled water on commercial landscaping areas. Only eight sites were inspected, but they were in the same location and representative of the other sites.



Support Development of Pure Water Southern California

As a follow-up of the Los Angeles Civil Grand Jury's investigation into stormwater and local resources, staff provided committee members with an information tour of the Pure Water Southern California's Advanced Purification Center on November 14. Staff provided a presentation and Q&A followed by a tour of the demonstration plant. Throughout the tour staff engaged in a productive conversation about Pure Water Southern California's role in local resources development

Implement Regional Conservation Program

Continuing the effort to implement regional conservation, the outreach activities this month included presenting to the Three Valleys Board of Directors on the turf replacement program, Metropolitan's efforts in removing non-functional turf, and information on new grant funding. Staff also participated in a drought panel at the Landscape Exposition to discuss Metropolitan's rebates and incentives for turf replacement, as well as Metropolitan's efforts on non-functional turf. Finally, staff taught a Water Efficient Landscape Dual Certification Program class at Long Beach Water Department for landscape professionals, with a goal to increase efforts in landscaping water efficiency.

Collaborate with Member Agencies, Water Agencies and Associations, and Provide Leadership for Policy Development, Advocacy, Outreach and Education

Water Resource Management staff organized, with assistance from the California Department of Water Resources (DWR), and the State Water Contractors (SWC), a two-day workshop on State Water Project (SWP) Water Operations. Staff from Metropolitan's WRM, Water System Operations (WSO), and Bay Delta Initiatives (BDI) Groups attended the workshop. The first day was a hybrid meeting based in Sacramento with over 100 attendees (in-person and online) from DWR and SWP contractors. At this meeting, DWR staff presented a range of topics of interest to the SWP contractors such as improvements to runoff forecasting, how DWR models water availability and sets the SWP Table A allocation, and water rights issues affecting the SWP. The second day brought much-needed rain, and DWR and SWP contractors staff together for a field visit to the Oroville-Thermalito complex. The Department of Water Resources staff guided the group and provided invaluable insights. Some highlights were visiting the reconstructed Oroville spillways as well as observing salmon migrating up the fish ladder towards the Feather River Fish Hatchery where they would spawn. For a virtual tour of the hatchery visit: <https://www.youtube.com/watch?v=kU5pW9xT74U>

Water Resources and Engineering

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Observing the technicians at work at the Feather River Hatchery incubator room where the fertilized eggs are placed in trays and constantly bathed with Feather River water (November 8, 2022)



DWR and SWP contractors staff enjoying the much-needed rain at Lake Oroville (November 8, 2022).

California Department of Water Resources continues to lead efforts in developing the California Water Plan (CWP) Update 2023. On October 27, DWR hosted a virtual public webinar to present and release the Preview of Content for the CWP Update 2023. The goals of this workshop were to introduce the content of the draft CWP Update 2023 and to receive input on how to maximize the utility of Update 2023 among local agencies, non-governmental organizations, and other interested participants. Metropolitan staff provided input at the workshop and submitted comments to DWR emphasizing the need for significant focus on SWP supply reliability and incorporating it as a key message of CWP Update 2023.

Water Resources and Engineering

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The Department of Water Resources also recently released the Draft Assumption and Estimates Report (Draft A&E Report) for CWP Update 2023. The draft A&E report describes key assumptions and estimates, data and data sources; improvements to analytical tools, methods, and approaches; and the supporting documents and companion State plans being used to prepare the CWP Update 2023. The Association of California Water Agencies (ACWA) solicited volunteers to participate in a working group to review and develop comments on the draft A&E report and future CWP publications. Metropolitan participated and used this working group process as an avenue to provide helpful comments and suggestions to DWR. The ACWA submitted the workgroup comment letter to DWR on November 18, 2022.

The Water Utility Climate Alliance (WUCA) held its annual General Manager (GM) meeting in Savannah, Georgia, on November 2. WUCA comprises 12 of the biggest water utilities across the United States that work to provide leadership and collaborate on climate change issues affecting the nation's water agencies. The GMs of the WUCA water utilities discussed and approved the 2023 workplan and budget and received presentations on work products over the last year, including a sea level rise field guide, greenhouse gas mitigation case studies, and the climate equity project and partnership with the U.S. Water Alliance. The GMs also met with Radhika Fox, Assistant Administrator for the Office of Water at the U.S. Environmental Protection Agency, on WUCA's work and a roundtable discussion on emerging climate issues and extreme climatic events.

Staff continued implementing the Emergency Water Conservation Program (EWCP) to address severely limited SWP system water supplies. Since the June 1 start date, there has been a positive demand response across the SWP-Dependent Area. The affected member agencies continued to show reductions in purchases from Metropolitan compared with historical and projected levels, indicating consumer responsiveness with demand-cutting measures. Path One watering day limit compliance requirements remained at one day-per-week watering restrictions during November. Staff is continuously monitoring and reporting water use performance to the affected member agencies to ensure that SWP water usage stays on track to remain within the available supplies.

Staff participated in CalDesal's fall board meeting, and Metropolitan also sponsored CalDesal's evening mixer in Indian Wells. Both events were held on November 30 in conjunction with ACWA's fall meeting. The board reelected GHD's Mark Donovan as the Chair of the organization for a second two-year term. The board also covered a series of informational meetings CalDesal held with key regulatory agencies including the State Water Regional Control Board and the Department of Water resources. Future meetings will include the Coastal Commission and State Lands Commission. WRM represents Metropolitan on CalDesal's Executive Committee and staff throughout the district participate in CalDesal's other committees and processes.

Implement Future Supply Actions Funding Program.

Staff met with Anaheim on their forthcoming State College Boulevard Stormwater Capture Project on November 8. This innovative project uses an abandoned wastewater pipe and dry well field to divert and infiltrate stormwater and was selected for matching funds through the stormwater recharge pilot program. The meeting included a presentation, status update, and revised timeline for construction and monitoring.

Promote Metropolitan's Technical Capabilities and Innovation Efforts to Advance the Understanding of Water Resources Management

Staff organized a full-day innovation workshop with representatives from Singapore PUB at the Weymouth Water Quality Lab on November 10. The information exchange included presentations and discussions on challenges common to both agencies:

- Large-diameter pipeline rehabilitation practices
- Maintenance and repair of large meters
- Industrial water use efficiency
- Opportunities to collaborate on research priorities

The workshop included a tour of Metropolitan's unique labs and fabrication facilities. Staff from Water System Operations, Engineering, Water Quality, and Water Resource Management participated in the meeting, which was implemented through WRM's Peer-2-Peer innovation agreements.



Water Resources and Engineering

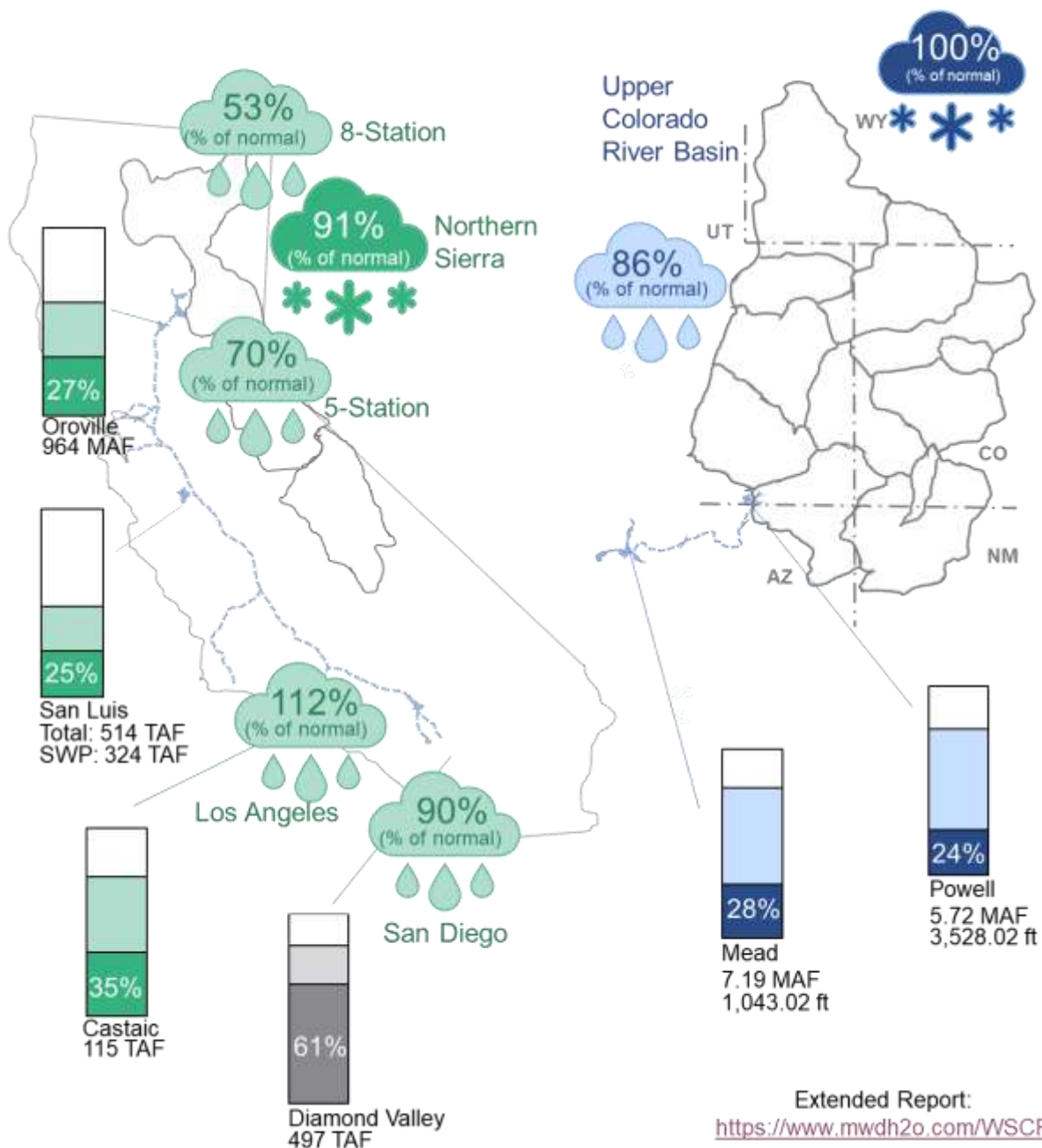
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State Water Project Resources

SWP Table A – 5% - 95,575 AF

Colorado River Resources

Projected CRA Diversions – 1,136,000 AF



As of November 30, 2022

Bay-Delta Initiatives

Project Highlights

Delta Conveyance

The California Department of Water Resources (DWR) released the public Draft Environmental Impact Report (EIR) under the California Environmental Quality Act for the Delta Conveyance Project on July 27, 2022. The Draft EIR describes project alternatives and potential environmental impacts and identifies mitigation measures to help avoid or minimize potentially significant impacts. The public review and comment period for the Draft EIR was extended from October 27 to December 16, 2022.

The U.S. Army Corps of Engineers, as part of its permitting review under the Clean Water Act and Rivers and Harbors Act, is preparing an Environmental Impact Statement (EIS) to comply with the National Environmental Policy Act and is planning to release draft EIS for public review later this year.

Joint Powers Authorities

During a Special Board of Directors meeting on November 17, the Delta Conveyance Design and Construction Authority Board of Directors approved to extend a resolution authorizing virtual Board and Committee meetings pursuant to AB 361.

At the regularly scheduled meeting of the Delta Conveyance Finance Authority (DCFA) on November 17, the DCFA approved a resolution to continue remote teleconference meetings and approved contracting with Brian G. Thomas Consulting, LLC for Executive Director services effective January 1, 2023, through December 31, 2023.

Sites Reservoir

At their November meetings, the Sites Project Authority Board and the Sites Reservoir Committee adopted the Final Guiding Principles and Preliminary Terms as supporting materials for the Water Infrastructure Finance Innovation Act (WIFIA) loan application. This document will serve as the foundation and guiding document for drafting the contract between the Sites Authority and participants, which needs to get underway in January 2023 to establish the contract by fall 2023, before initiation of Sites Reservoir Project financing. This guiding document is being used to inform the development of similar contracts for state and federal participation, although these contracts will be slightly different because of the unique nature of the enabling legislation associated with the state and federal funding. The document will also guide the basic mechanics for allocating benefits and costs, collecting payments, and remedying defaults through the contract, which needs to be established before getting further into the WIFIA loan application process. The adoption of this document is not a commitment of any or all participants to any requirement in the final contract. Metropolitan will continue to have further opportunity to address concerns, including the translation of this final document into contract language.

Science Activities

Staff worked with researchers from UC Davis to initiate the Delta Smelt Pilot Propagation study. The study uses the impoundments on Metropolitan's Delta Island properties to evaluate their use to aid the state and federal agencies efforts to propagate hatchery Delta smelt in the wild. This initial study is one of several planned that is being conducted with the support of DWR, California Department of Fish and Wildlife, USFWS and local stakeholders.

Staff continued participating in the Collaborative Science and Adaptive Management Program, including participation on the Collaborative Adaptive Management Team (CAMT). In November, staff participated in the review of the recently published Delta smelt Fall Occupancy Study written by Dr. Noble Hendrix and co-authors. The manuscript is a product of CAMT's efforts to evaluate one of the priority areas of uncertainty regarding the effect of flow in the fall on the distribution of Delta smelt. The results of the study suggest that salinity at a regional level is a better predictor of the distribution than the historic use of Fall X2. In addition, the results found that water clarity may be affecting the survey data because Delta smelt are able to detect and avoid the survey gear under clearer conditions. The study results suggest that further scrutiny needs to be given to the use of Fall X2 and turbidity to determine and manage the distribution of Delta smelt.

Staff gave a presentation on the Reorienting to Salmonid Recovery project to the Imported Water Committee in November that included a review of the project goals and progress to date. Staff is working with the Project Planning team to plan a series of workshops in December 2022 to discuss how to translate social, economic, and cultural values related to salmonids into metrics that can be quantified to help identify recovery scenarios that best meet all values.

Delta Island Activities

On November 15, the second public workshop for the Delta Island Adaptations Project was held in Walnut Grove. The purpose of this workshop was to receive public input on proposed land use changes for Bouldin Island. Public comments were received from about 60-65 participants that included various stakeholders, public agencies, non-governmental organizations, tribal community representatives, and other interested parties. This phase of the project is looking at landscape opportunities with the objectives to stop land subsidence, reduce greenhouse gas emissions, provide for sustainable agriculture, promote habitat restoration, and build collaboration for community science, agriculture, and ecoculture education through land use opportunities. The Project Team will assess the responses from the public over the next several weeks, including the preferences provided through exit surveys and documented input from the breakout exercise. Future reports will inform the Board on input received and progress of the effort.

Regulatory Activities

On October 7, 2022, the US Fish and Wildlife Service (USFWS) issued a proposed rule to list the San Francisco Bay-Delta distinct population segment of longfin smelt as an endangered species under the federal Endangered Species Act. Staff is reviewing the proposed rule and developing comments. Comments on the proposed rule are due on December 6, 2022. Staff is working with the State Water Contractors to prepare and provide comments.

Colorado River

Metropolitan Partners with PVID and Bard to Submit Conservation Proposals

On November 21, Metropolitan, Palo Verde Irrigation District (PVID), and Bard Water District submitted joint proposals for funding under the Inflation Reduction Act. Under the proposals, the additional capacity available under the Metropolitan-PVID fallowing program and the capacity in the Bard seasonal fallowing program would be available for conserving additional water in Lake Mead. That additional fallowing would be funded by the Bureau of Reclamation under the Inflation Reduction Act. Metropolitan, as a landowner in PVID, would also fallow a portion of its land for the additional system conservation. These actions are part of California's efforts to conserve 400,000 acre-feet of water through 2026. Reclamation is evaluating all the proposals it receives, and if accepted, the proposals would be refined into agreements that would be taken to Metropolitan's Board for consideration, likely in early 2023. Metropolitan staff is also working on developing scoping comments for the Supplemental Environmental Impact Report, which is looking at new shortage criteria for the Colorado River Basin. Scoping comments are due December 21, 2022.

Engineering

Core Business Function – Execute Capital Investment Plan Projects

Engineering Services manages and executes projects within the Capital Investment Plan (CIP) to maintain infrastructure resiliency, ensure regulatory compliance, enhance sustainability, and provide flexibility in system operations to address uncertain water supply conditions.

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:

- **Casa Loma Siphon Seismic Upgrades**—This project mitigates leaks associated with long-term ground subsidence and will improve seismic resilience of the siphon as it crosses the Casa Loma Fault. This project replaces approximately 1,200 feet of the Casa Loma Siphon Barrel No. 1 at a fault crossing utilizing earthquake resistant ductile iron pipe (ERDIP) and welded steel pipe. The contractor has installed both ERDIP barrels and completed ERDIP hydrostatic joint testing. Construction is approximately 67 percent complete and is scheduled to be complete by May 2023.
- **Etiwanda Pipeline Relining**—This project will remove damaged mortar lining in 5.5 miles of pipeline and replace it with polyurethane lining. Stages 1 and 2, which relined 3 miles of the pipeline, have already been completed. Stage 3 will reline the remaining 2.5 miles of pipeline and is currently under construction. The contractor is currently removing mortar lining and installing noise control panels at pipe entry portals. Stage 3 construction is approximately 6 percent complete and is scheduled to be complete by October 2023.
- **La Verne Shops Improvements**—This project includes building and utility upgrades, shop equipment refurbishments, and installation of Metropolitan-furnished shop equipment. The contractor recently mobilized and erected a temporary containment wall to protect existing machine shop equipment during construction. In the upcoming quarter, the contractor will begin refurbishing machine shop exterior wall damage. The construction is 6 percent complete and is scheduled to be complete by June 2024.
- **Sepulveda Feeder Electrical Improvements**—This project replaces deteriorated electrical components and includes other upgrades at three Sepulveda Feeder underground structures. The contractor began potholing for existing utilities and excavation for electrical duct banks. Construction is six percent complete and is scheduled to be complete by July 2023.

Water Resources and Engineering

(continued)



Casa Loma Siphon Seismic Upgrades—Backfill near 148 x 104-inch welded steel pipe wye



La Verne Shops Improvements—Installing new conduits in breezeway



Etiwanda Pipeline Relining, Stage 3—Corrosion on interior of pipeline, before rehabilitation

Prestressed Concrete Cylinder Pipe (PCCP) Reliability Program

This program was established to enhance the reliability of Metropolitan’s water distribution system and to reduce the risk of costly emergency repairs of PCCP. The priority pipelines included in the program are the Second Lower Feeder, Sepulveda Feeder, Calabasas Feeder, Rialto Pipeline, and the Allen-McColloch Pipeline. A total of 100 miles of PCCP pipelines will eventually be relined with new steel pipe liners under this 20-year program. Recent activities include the following:

- **Second Lower Feeder PCCP Rehabilitation Reach 3A**—This project enhances distribution system reliability by rehabilitating PCCP segments of the Second Lower Feeder. Reach 3A is the southernmost portion of the feeder, spanning 1.1 miles through the City of Rolling Hills Estates. Reach 3A is under construction, and the contractor is currently fabricating coiled steel liners and preparing to mobilize. Fabrication and construction are approximately 30 percent complete and are scheduled to be complete by August 2023.
- **Second Lower Feeder PCCP Rehabilitation Reach 3B**—This project also enhances distribution system reliability by rehabilitating PCCP segments of the Second Lower Feeder. Final design of the 3.7-mile-long portion of Second Lower Feeder that traverses the cities of Lomita, Los Angeles, and Torrance is complete, as advertised in September of 2022, and is scheduled for board award in January 2023.
- **Second Lower Feeder Isolation Valve Procurement**—This fabrication contract provides 13 conical plug valves for the Second Lower Feeder PCCP rehabilitation. Three 48-inch and ten 54-inch diameter valves provide primary isolation for maintenance activities, inspections, and repairs required to maintain reliable water deliveries. Fabrication of these valves is approximately 77 percent complete. All three 48-inch conical plug valves have been delivered. Delivery of the first two 54-inch valves left the Yokohama, Japan, port in October 2022, and arrived at the Lake Matthews Facility in November 2022. Three additional 54-inch valves are complete and undergoing hydrostatic testing and are scheduled to be delivered in early 2023. The next two 54-inch valves will be delivered in the summer of 2023. Fabrication of three remaining 54-inch valves started in June 2022 and will be completed in early 2024.
- **Sepulveda Feeder PCCP Rehabilitation**—This project rehabilitates 35 miles of PCCP segments within the Sepulveda Feeder and will enhance delivery reliability to member agencies. Long-term rehabilitation of the

Sepulveda Feeder will be staged over multiple years with multiple construction and procurement contracts. Final design of Reach 1 and Reach 2 are occurring simultaneously. Final design of Reach 1 is 72 percent complete and Reach 2 is 96 percent complete. Both are scheduled to be complete by February 2023. The Board authorized preliminary design for the northern 20-mile reach of Sepulveda Feeder in the August 2022 meeting. The North Reach project was re-prioritized to support the West Area Water Supply Reliability Improvements. The North Reach project, in conjunction with the Sepulveda Feeder Pump Stations, will allow the reversal of normal flow in the Sepulveda Feeder to augment treated water deliveries to the west service area.

- **PCCP Rehabilitation Valve Storage Building**—This project constructs a 18,160 square-foot pre-engineered metal building on a reinforced concrete slab at Lake Mathews for valve and equipment storage. The contractor has completed shop-fabrication of the metal building components and the pre-engineered metal building has been sent off to coating. The contractor continues construction of the concrete pad for the building and has begun the installation of the underground electrical duct bank for the storage building power. Construction is 51 percent complete and is scheduled to be completed in September 2023.
- **Pipeline Inspections**—This project performs inspections of Metropolitan’s PCCP pipelines on five-year cycles. Metropolitan’s Board authorized an agreement with Pure Technologies in August 2022 to perform the next cycle of inspections, covering approximately 146 miles of PCCP pipelines, operational needs allowing. The first in a series of inspections started in November 2022 when 4.4 miles of the Sepulveda Feeder was inspected. The next inspection involves 10.3 miles of the Sepulveda Feeder in February 2023. The current five-year cycle of inspections will be completed in late 2027. The results of these inspections are used to prioritize rehabilitation of PCCP pipelines and guide the sequencing and implementation of the PCCP Reliability Program.

Colorado River Aqueduct (CRA) Reliability Program

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

- **CRA Overhead Cranes**—This project consists of replacing five overhead bridge cranes and retrofitting the support structures within the pump bays located at all five of Metropolitan’s Colorado River Aqueduct pumping plants. The contractor has completed the installation at the Gene Pumping Plant and is performing pre-construction work at the other four pumping facilities. Construction is 20 percent complete and scheduled to be complete by July 2023.
- **Transformer Replacement**—This project replaces the 35 230 kV and 69 kV step-down transformers that are used to run the main pumps at the five Colorado River Aqueduct pumping plants. Preliminary Design is 80 percent complete and is scheduled to be completed by January 2023. The new transformers will be purchased by Metropolitan, and the procurement contract is scheduled to be awarded in June 2023.
- **Mile 12 Flow Monitoring Station**—This project replaces the CRA Mile 12 flow meter and upgrades the appurtenant facilities at the monitoring station. Construction is 80 percent complete and is scheduled to be complete by January 2023. The contractor is completing the installation of the sampling equipment, electrical appurtenances, and standby generator.
- **Eagle Mountain Village Paving**—This project replaces the pavement at the Eagle Mountain village. Final design is complete. The contract is anticipated to be awarded under the General Manager’s authority to award bids under \$250,000. Construction is estimated to begin in early 2023.
- **Hinds Village Paving**—This project replaces the pavement at the Julian Hinds village. Final design is complete. The contract is anticipated to be awarded under the General Manager’s authority to award bids under \$250,000. Construction is estimated to begin in early 2023.

System Flexibility/Supply Reliability

Projects under this program will enhance the flexibility and/or increase the capacity of Metropolitan's water supply and delivery infrastructure to meet current and projected service demands. Projects under this program address climate change affecting water supply, regional drought, and alternative water sources for areas dependent on State Project Water.

- **Wadsworth Pumping Plant Bypass Pipeline**—This project will construct a pipeline connecting the Wadsworth Pumphouse Conduit to the Inland Feeder at the Wadsworth Pumping Plant to allow continuous pumping of water from DVL's forebay while simultaneously filling the forebay from the lake. Final design is complete, and board award of a construction contract is scheduled for January 2023.
- **Foothill Pump Station Intertie**—This project will connect San Bernardino Valley Municipal Water District's (SBVMWD) existing Foothill Pump Station with Metropolitan's Inland Feeder to provide the needed hydraulic lift to deliver water from DVL to the Rialto Pipeline. Final design is 90 percent complete and is scheduled to complete by April 2023.
- **Perris Valley Pipeline Interstate 215 Crossing**—This project will complete unfinished portions of the Perris Valley Pipeline by tunneling underneath the I-215 Freeway. The Perris Valley pipeline project allows Metropolitan to deliver treated water from the Mills plant to meet projected treated water demands in Riverside County and increase operational flexibility in this portion of Metropolitan's service area. Final design is complete and board award of a construction contract is scheduled for January 2023.

Treatment Plant Reliability Program

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

Weymouth Basins 5–8 and Filter Building No. 2 Rehabilitation—This project rehabilitates major mechanical and structural components including the flocculation/sedimentation equipment, sludge pumps, baffle boards and walls, launders, inlet gates, and outlet drop gates. Other improvements included in this contract are seismic upgrades of basin walls and inlet channel, abatement of hazardous materials in the basins, and replacement of filter valves and actuators in Filter Building No. 2. The contractor is currently procuring critical equipment and materials required for the upcoming half-plant shutdown in December 2022/January 2023. Metropolitan is procuring remote terminal units and coordinating efforts to support the half-plant shutdown. Construction is 13 percent complete and is scheduled to be complete by May 2025.

Mills Electrical Upgrades, Stage 2—This project upgrades the electrical system with dual-power feeds to key process equipment to comply with current codes and industry practices; improves plant reliability; and enhances worker safety. Stage 1 construction is complete. Stage 2 improvements will add a second incoming 12 kV service from Riverside Public Utilities (RPU), reconfigure the existing 4160-volt switchgear, and replace the standby generator switchgear and the emergency generator programmable logic controller. The contractor has started installation of duct banks and electrical vaults and is preparing to expand the ORP switchgear building. Construction is 20 percent complete and is scheduled to be complete by December 2024.

System Reliability Program

The System Reliability Program consists of projects to improve or modify facilities located throughout Metropolitan's service area in order to use new processes and/or technologies and improve facility safety and overall reliability. Recent activities include the following:

- **Headquarters Physical Security Upgrades**—This project implements comprehensive security upgrades for the Metropolitan Headquarters Building. These upgrades are consistent with federally recommended best practices for government buildings. This work has been prioritized and staged to minimize rework and impacts on day-to-day operations within the building. Stage 1 work is complete and provides enhanced security related to perimeter windows and doors. Stage 2 improvements provide security system upgrades inside the building with a focus on the main entry rotunda area, boardroom, executive dining lounge, and security control room. The contractor completed commissioning of security equipment on Floors 2 through 12 and equipment installation in the rotunda. Construction of Stage 2 improvements is complete except for the additional exterior door latch-bolt monitoring on the first floor. Stage 3 improvements will provide security system upgrades around the perimeter of the building. Design for Stage 3 improvements is complete and board award of a construction contract is scheduled for December 2022.
- **Headquarters Building Fire Alarm and Smoke Control System Upgrades**—This project upgrades the Metropolitan Headquarters Building fire life safety systems, which includes replacement of the fire detection and alarm system and HVAC system improvements for smoke control. The fire alarm and smoke control systems in the Metropolitan Headquarters Building provide detection, notification, and control of building functions so that occupants and visitors can safely exit in the event of a fire. The contractor completed the fire alarm system upgrades and is currently working on the smoke control upgrades, including installation of smoke fire dampers and control panels on Floors 1 through 4. Construction is 65 percent complete and is scheduled to be complete by September 2023.
- **SCADA System Upgrades**—This project will upgrade Metropolitan's entire control system in incremental stages, spanning the Colorado River Aqueduct, the five water treatment plants, and the conveyance and distribution system. The first stage of this project is to replace the control system at the Mills plant, starting with a pilot effort on one of the plant's remote terminal units. The pilot effort will demonstrate the proposed technology and the consultant's approach for the plant and the overall project. Staff has executed the consultant agreement for the project's pilot phase, which is anticipated to be complete by June 2023, and has held a partnering session for the system-wide control system upgrades. The full system upgrade at the Mills plant is anticipated to be complete by January 2026.

Strategic Initiative—Partnering with Interested Parties and the Communities we Serve

In November, Metropolitan staff was actively engaged in partnering with other leading water agencies, engineering students, and potential business partners.

Clean-17 is a coalition of leading water agencies in the Western United States. Engineering staff led a meeting of the Clean 17 Water Agencies, which was hosted by Southern Nevada Water Agencies and focused on engineering issues of common interest such as fabrication of large valves and collaborative project delivery. Metropolitan staff also participated in a meeting with Singapore Public Utilities Board; provided a tour of the concrete, soils, corrosion, and coatings lab; and presented on Metropolitan's pipeline rehabilitation practices, and novel approaches to improve distribution system reliability and reduce life-cycle costs. In addition, Engineering staff participated in a video conference with Great Lakes Water Authority to exchange technical information regarding condition assessment and rehabilitation of prestressed concrete cylinder pipe.

Water Resources and Engineering

(continued)



Clean-17 members at Hoover Dam

Along with DE&I and External Affairs, Engineering participated in an LA city-wide consortium effort entitled HBCU Innovation and Tech Day. Engineering managers developed a research project, coached a student through its completion, and then hosted several engineering students from historically black colleges and universities (HBCUs) and shared their enthusiasm for the work done by Engineering Services at Metropolitan, especially design and construction management of generational infrastructure projects. Metropolitan is also collaborating with faculty and students at UCLA, who are exploring the viability of solar installations along the conveyance system's open canals. Additionally, the team is evaluating the possibility of using the harvested solar power to generate green hydrogen that can power a fleet of vehicles.



HBCU students and Metropolitan staff

Water Resources and Engineering

(continued)



Singapore PUB and Metropolitan staff at the La Verne Water Quality Lab

Over 380 contractors, consultants, small-business firms, and other interested parties attended the virtual MetWorks meeting. Engineering staff provided updates on the project labor agreements, alternative delivery, Pure Water Southern California Program, and upcoming construction and consulting opportunities.



Water System Operations

Core Business Objectives

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, the Apprenticeship Program welcomed Eastern Municipal Water District's (EMWD) electrical apprentices. Metropolitan contracts with EMWD to provide supplemental instruction for their in-house apprenticeship program. Before starting formal instruction, the Program partners with Human Resources to provide study skills training. This course is designed to prepare apprentices for academic success including modules for identifying learning styles, understanding the mechanics of learning, establishing strategies for effective study, and identifying methods to manage testing anxiety and stress. The session was held at the new Apprentice Training Center on the eastern side of Diamond Valley Lake. EMWD apprentices will attend supplemental instruction with the new class of Metropolitan apprentices in 2023.

Manage Vacancies

WSO filled 13 vacant positions in October 2022.

Provide Reliable Water Deliveries

Metropolitan member agency water deliveries were 107,900 acre-feet (AF) for November with an average of 3,600 AF per day, which was 1,0460 AF per day lower than October. Treated water deliveries decreased by 18,290 AF from October for a total of 47,200 AF, or 44 percent of total deliveries for the month. The Colorado River Aqueduct (CRA) continued operating at an eight-pump flow with a total of about 103,000 AF pumped for the month. State Water Project (SWP) imports averaged 1,020 AF per day, totaling about 30,600 AF for the month, which accounted for approximately 28 percent of Metropolitan's deliveries. The target SWP blend remained at zero percent for the Weymouth, Diemer, and Skinner plants.

Manage Water Reserves

Water reserves continued to be managed according to Water Surplus and Drought Management (WSDM) principles, operational objectives, and the current 5 percent SWP allocation. Deliveries of SWP supplies were minimized to preserve SWP Carryover and Flexible Storage. Releases from DVL through PC-1 to connections on the Lakeview Pipeline, as well as the DVL to Mills plant operation, continued in November to conserve SWP supply use in that area. Returns from the Semitropic and Kern Delta SWP Banking Programs also continued in November. Staff continued Greg Avenue pump operations to minimize SWP usage. In addition, staff continued coordination with member agencies, shifting their deliveries from SWP connections to Colorado River water connections, when possible. Staff continue to develop additional drought mitigation actions to help with the low SWP allocation in 2022 and to prepare for 2023.

Support the Pure Water Southern California Program

During November, staff continued baseline testing for secondary membrane bioreactor (MBR) operations at the Pure Water Southern California (PWSC) demonstration plant in Carson. Initial microbial samples and weekly monitoring samples were collected for baseline testing. The Los Angeles County Sanitation Districts' sampling of the RO system and residual streams also began in November.

Staff and consultants responded to a failure of the influent drum screen at the demonstration plant, performed biological system support and equipment repairs, and restored plant operations after one week without any negative impact on the biological treatment system. Staff also continued to support routine operations, monitoring, maintenance, and system improvements to ensure safe operations and testing at the demonstration plant.



Reconfigured MBR filtrate turbidimeter to allow direct sampling of the process water at the PWSC demonstration plant

Manage Power Resources and Energy Use in a Sustainable Manner

The CRA requires a significant amount of electrical power to function. This energy comes from a variety of sources, including Hoover and Parker Dams, which produce clean hydroelectric power. Metropolitan works collaboratively with the California Independent System Operator (CAISO) to maintain its electrical systems as part of a large, integrated electrical grid.



Desert staff working with CAISO technicians at Gene pumping plant

Ensure Water Quality Compliance, Worker Safety, and Environmental Protection

Metropolitan complied with all water quality regulations and primary drinking water standards during October 2022.

In the first week of November, the five satellite laboratories at the water treatment plants were audited by a state-approved assessor under the newly adopted state laboratory accreditation regulations. This followed an audit of the main Water Quality Laboratory the previous week. The assessor reviewed technical competence, documentation and procedures, quality assurance and control, and the laboratory management system.

Staff submitted the 2023 permit renewal application and all related documentation to the Nevada Highway Patrol for approval and permitting of Metropolitan's chlorine cargo trailers to travel on Nevada roads.

Staff posted an updated COVID-19 protection sign on Metropolitan's COVID-19 webpage to meet revised Cal/OSHA requirements.



Updated COVID-19 protection signage for employees and visitors

Staff installed fire brick and caulking materials to properly seal a firewall where electrical conduit had penetrated. Information tags were also installed as required by the National Fire Protection Association safety codes. These improvements ensure that the plant is protected from the potential spread of fire.



Staff placing labels in the electrical room as part of a firewall repair at the Diemer plant

Optimize Maintenance

CRA facilities continue to operate reliably at maximum capacity because of the efforts of staff to monitor and maintain equipment. Pump motors originally constructed in the 1930s require regular inspections and maintenance to operate. As part of this continuous process, components are replaced, oil and temperature systems are monitored, and support infrastructure is maintained to keep the aqueduct full during this record drought.



Staff replacing pump brushes at Eagle Mountain pumping plant

The CRA flows 24 hours each day. Maintaining a well-lit work environment is an important safety component of any maintenance program. Desert staff regularly assess work areas and make improvements where possible. This month, staff installed new LED lighting at Eagle Mountain pumping plant. This allows for greater light levels at reduced power requirements and increased equipment lifespan.



New lighting installed on the canal reservoir inlet at Eagle Mountain pumping plant

The harsh desert climate, which can include heavy winds and rain, can dramatically affect accessibility to maintenance areas along the CRA. Trained operators using heavy equipment ensure access to facilities and that equipment is maintained. Surge chambers are located at high points along the aqueduct and can be particularly difficult to reach even under ideal conditions. Staff uses heavy machines to perform maintenance high on top of hills at desert facilities.



Heavy equipment operators maintain access to the head gate structure at Iron Mountain pumping plant

Staff began routine patrol road maintenance along the 22-mile stretch of DVL's high-water line road. Routine maintenance includes grading and repairing minor erosion along the road to ensure safe access for security, maintenance, and public activities such as hiking and biking.



Motor grader and water truck along DVL's high-water line road

Staff conducted high-voltage maintenance on circuit breakers and protection relays on switchgear at the Weymouth plant. The circuit breakers and protection relays are fast-acting devices that interrupt and contain any potential electrical faults, thereby minimizing potential damage.



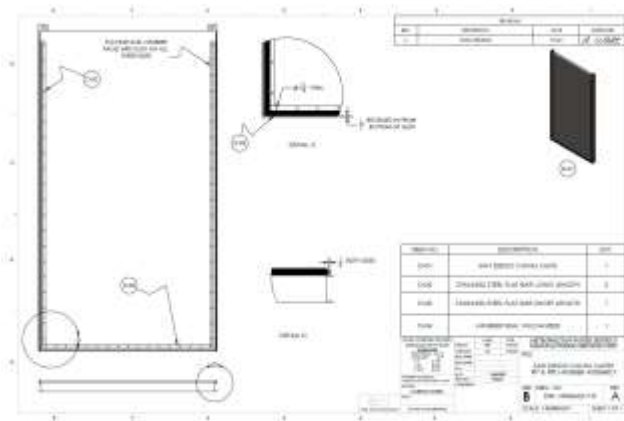
Staff testing electrical circuit breakers (left) and protection relays (right) at the Weymouth plant

Staff removed sleeve valves at the Red Mountain Pressure Control Structure (PCS) on San Diego Pipeline No. 5 in the city of Fallbrook. These valves have been in service for over 40 years and required refurbishment and repair for continuous operation.



Removal of sleeve valve (left) and valve body (right) at Red Mountain PCS

La Verne Shops staff received a request to refurbish the remaining two of fourteen large drop gates for the San Diego Canal. The gates were refurbished to as-built conditions and equipped with new seals to provide leak-tight clearance points during a major shutdown of the San Diego Pipeline.



Assembly drawing of drop gates for the San Diego Canal (left) and staff loading drop gates into the blast booth (right) at La Verne



Staff installing new stainless-steel angle (left) and testing finished coating (right) for San Diego Canal drop gates



Completed finish coating of a drop gate for the San Diego Canal

During a scheduled shutdown of the Sepulveda Feeder, staff isolated and dewatered a 7-mile section of the pipeline from the Peach Street sectionalizing valve in Van Nuys to the Venice Pressure Control Structure (PCS) in Culver City. Staff performed a visual and electromagnetic inspection of the prestressed concrete cylindrical pipe to assess its condition and support future capital project upgrades. Staff also sandblasted and coated the spherical valves at Sepulveda PCS to address minor corrosion issues.



Staff coordinating dewatering procedures for the Sepulveda Feeder shutdown



Staff conducting a toolbox safety meeting during the Sepulveda Feeder shutdown



Staff inspecting pipeline near Sepulveda PCS during the shutdown



Staff installing a new 16-inch lubricated plug valve at Venice PCS during the Sepulveda Feeder shutdown

Staff installed a 16-inch motor operated globe valve at the Carbon Creek PCS along the Second Lower Feeder in Anaheim. The valve was refurbished at the La Verne Shops. This type of valve controls flow and is operated remotely by system operators at the Operations Control Center in Eagle Rock. Refurbishing aging valves ensures reliable water delivery for the future.



Refurbished motor-operated globe valve for Carbon Creek PCS



Staff installing refurbished valve at Carbon Creek PCS

Optimize Water Treatment and Distribution

The State Water Project target blend entering the Weymouth and Diemer plants and Lake Skinner was zero percent in November 2022.

Flow-weighted running annual averages for total dissolved solids from September 2021 through August 2022 for Metropolitan's treatment plants capable of receiving a blend of supplies from the State Water Project and the Colorado River Aqueduct were 599, 596, and 593 mg/L for the Weymouth, Diemer, and Skinner plants, respectively.

Staff performed maintenance and cleaning of a basin at the Diemer plant. This work included cleaning of the flocculator and clarifier equipment, annual lubrication of the equipment, repairs of the clarifier rake arm extensions, and adjustments of the flocculator chain and sprockets. In addition, routine basin cleaning helps control algae growth within the basin that can potentially cause adverse taste and odors in the treated water.



Staff cleaning the basin flocculators (left) and the basin clarifiers (right) at the Diemer plant

The Chemical Unloading Facility (CUF) located in Riverside is a critical facility used to help distribute chemicals to Metropolitan's water treatment plants. The primary function of CUF is to receive bulk shipments of treatment chemicals by 90-ton railcars and transfer chemicals to 17-ton semi-truck trailers. The trailers are then transported to the treatment plants. Because of a potential impending national railroad strike as a result of labor disputes, staff has been working diligently to maintain extra quantities of chemicals to ensure the reliability of Metropolitan's treatment plants.



Staff moving railcars as part of chemical unloading operations

Because of a shutdown of raw water pipelines south of Lake Skinner, the flow into Lake Skinner from the San Diego Canal was reduced to a very low level. The sample pump typically submerged into water was above the current low level. Staff extended the pump cord length, which allows water samples to be pumped to online water quality instruments that provide real-time monitoring in the San Diego Canal.



Staff modifying a submersible pump for the San Diego Canal online water quality analyzers

Improve Emergency Preparedness and Response

On November 17, staff assessed Metropolitan's Emergency Response Plan by conducting a full-scale emergency response exercise at the Diemer plant in Yorba Linda. The exercise was a collaboration between Metropolitan staff and local first responders including the Orange County Fire Authority, Orange County Sheriff's Department, city of Yorba Linda, and Water Emergency Response Organization of Orange County (WEROC)/Orange County Operational Area Emergency Operations Center. Over 100 first responders and Metropolitan staff practiced how to respond collaboratively during a real-world emergency at the Diemer plant. Diemer's Incident Command Post (ICP) was activated and coordinated directly with on-site first responders. The city of Yorba Linda also participated by activating its Emergency Operations Center (EOC). Diemer's ICP coordinated with Metropolitan's EOC to keep other Orange County water agencies updated via communications with WEROC. Months of planning helped make this exercise a reality, and staff greatly appreciates the numerous agencies that participated to help make this a successful exercise.



Diemer plant manager briefing emergency exercise participants



Diemer plant ICP during the emergency exercise



First responder vehicles staged before the emergency exercise at the Diemer plant



Diemer plant manager coordinating with first responders during the emergency exercise



OC Sheriff's Department personnel rescuing simulated patient during the emergency exercise at the Diemer plant



A canine unit participating in the emergency exercise at the Diemer plant



OC Fire Authority commanders during the emergency exercise at the Diemer plant

Actively Engage in Capital Project Planning and Execution

On November 1, Metropolitan staff and members of the design consulting team visited Santa Monica's new City Hall and the Burbank Water and Power EcoCampus to gain insight and design concepts for incorporating sustainability into the Water Quality Laboratory seismic retrofit and building improvement project.



Staff and consultants during the tour of the water recycling facility at Santa Monica's City Hall

Protect Source Water Quality

On November 2, staff participated in the quarterly stakeholder meeting on perchlorate cleanup at the former Tronox site in Henderson, Nevada. The Nevada Environmental Response Trust reviewed the remedial program status, which includes completion of remedial investigation and risk assessment reports for the Operable Units that represent the most significant source of perchlorate contamination at the site. Staff continues to monitor overall development of the long-term remedial plan and distribution of the Trust's funds for site cleanup to ensure continued protection of Colorado River water quality.

On November 9, staff participated in a two-day stakeholder meeting for the Topock Chromium-6 Groundwater Remediation Project in Lake Havasu City, Arizona. Pacific Gas & Electric provided updates on project activities including a soil removal action expected to be completed in May 2023 and the groundwater remedy construction. Construction of the groundwater remediation facility has experienced delays due to storm and supply chain impacts and is expected to be completed in 2026, followed by long-term operation and maintenance of the system.

Prepare for Future Legislation and Regulation

On November 7, staff submitted comments on the Environmental Protection Agency's (EPA) proposed listing of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS) as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Staff's comments centered around the fact that the ruling would greatly increase the potential liability under CERCLA for water utilities for PFOA and PFOS in treatment residuals—and that EPA must take specific actions to alleviate this potential liability. Staff also worked with ACWA, AMWA, AWWA, and WUWC on their comment letters. If this rule is promulgated,

EPA anticipates proposing rulemaking designating other PFAS chemicals as CERCLA hazardous substances. Staff will continue to engage on this issue to protect Metropolitan's interests.

On November 3, staff attended a State Water Resources Control Board (SWRCB) workshop on the development of revisions to the Detection Limits for Purposes of Reporting (DLRs) for metals in drinking water (antimony, arsenic, beryllium, cadmium, lead, mercury, nickel, and thallium) and new DLRs for iron, manganese, and zinc. DLRs are the minimum levels at which the detection of regulated contaminants must be reported to the Division of Drinking Water. The formal rulemaking process for the metal DLRs regulation is anticipated to begin later this year.

On November 3, staff attended the fourth National Drinking Water Advisory Committee Microbial and Disinfection Byproducts (MDBP) Rules Revision Working Group on potential revisions to the MDBP regulations. The meeting addressed interdependencies across the Surface Water Treatment Rules and Disinfectants and Disinfection Byproduct Rules related to drinking water. Staff will continue to track all activities related to these regulations and engage with regulatory agencies and industry advocacy groups as the revision process progresses.

Ensure Accurate Billing Infrastructure

Staff installed a new metered bypass at the LA-30 service connection in Culver City during the Sepulveda Feeder shutdown. The new smaller bypass, LA-30A, will be used to deliver smaller amounts of water to meet changing demands.



Staff cutting the pipe to length (left) and executing fit-up for welding (right) on the LA-30 service connection bypass line along the Sepulveda Feeder

Advance Education and Outreach Initiatives

On November 9, staff provided a tour of the Pure Water Southern California demonstration plant to graduate students from the University of Southern California.



USC graduate students during a tour of the PWSC demonstration plant

Diemer plant staff provided tours for Metropolitan's Diversity, Equity, and Inclusion (DEI) team and for the city of Yorba Linda staff. These tours provide education and outreach on the drinking water treatment process and allow for networking and exchange of ideas.



Metropolitan DEI staff during a tour of the Diemer plant

Monthly Update as of:

11/30/2022

<u>Reservoir</u>	<u>Current Storage</u>	<u>Percent of Capacity</u>
<i>Colorado River Basin</i>		
Lake Powell	5,727,000	24%
Lake Mead	7,187,000	28%
<i>DWR</i>		
Lake Oroville	964,418	27%
Shasta Lake	1,398,818	31%
San Luis Total	514,265	25%
San Luis CDWR	325,788	31%
Castaic Lake	115,356	36%
Silverwood Lake	65,255	87%
Lake Perris	92,450	70%
<i>MWD</i>		
DVL	497,071	61%
Lake Mathews	126,548	70%
Lake Skinner	37,384	85%



Hoover Dam

Information Technology

Project Highlights

Metropolitan's Shut Down Area

In support of the successful and highly public Upper Feeder shutdown, IT GIS staff created an application that allowed staff to search for a specific address and quickly determine whether it was in the affected area. In addition, the Enterprise GIS/CAD team performed spatial analysis on the population and cities affected by the shutdown in support of the planning efforts.

External Affairs and IT GIS have been frequent partners to provide story maps for use on our public facing websites and apps. The latest is a dam safety story map that provides pictures and information about Metropolitan's lakes and dams and is published on mwdh2o.com. You can check it out [here](#).

GovTech Innovation Award

IT was recently acknowledged by Government Technology magazine as one of their Top 10 Winners for "Ideas Worth Sharing" for 2022! The award combines three of IT's distinct efforts under the Operations Category and includes enhancing Solar Power efficiency with the help of Machine Learning, Agile Project Management Techniques, and Strategic Priorities Tracking.



Real Property

Project Highlights

Objective #2 Foster staff training and development.

International Right of Way Association-sponsored courses:

- *Principles of Real Estate Engineering*—This course provides the basic principles of engineering drawings, the practical applications of engineering tools, and the ability to recognize the effects of a project on a property to be better equipped at analyzing Metropolitan design plans and real estate acquisition projects.
- *SR/WA Comprehensive Review Study Session & Exam*—This course provides an opportunity to review subject matter from all disciplines within the right of way profession. Upon passing the comprehensive exam, which includes engineering, law, negotiation, valuation, environment, relocation, and asset management, staff with the SR/WA designation have extensive Right of Way experience and will add value to Metropolitan's skillset and knowledge retention.

Staff attended the Appraisal Institute's 55th Annual Litigation Seminar, which included topics on environmental contamination issues, real estate damages from stormwater discharge, rent reset provisions in a long-term ground lease, and valuation concepts on public projects, and a discussion on complex property conditions when valuing Eminent Domain appraisals.

Provide right-of-way planning, valuation, and real property acquisition support services for the sustainability and reliability of both imported and regional water supplies, and protection of water rights.

Metropolitan acquired a permanent access easement from a private owner to construct, operate, maintain, repair, replace, and modify Metropolitan's drainage pipe near the Garvey Reservoir in the city of Monterey Park.

Real Property Acquisition, Management, and Revenue Enhancement

Objective #2 Provide valuation, land management, and real property disposition support services for the maximum return or use of Metropolitan-owned land and facilities.

An independent third-party appraisal report for a new property lease in Santa Clarita was completed by consultants. The report was reviewed by staff to with the goal of maximizing revenue generation for Metropolitan.

An entry permit was issued to AECOM for the installation and operation of a groundwater monitoring well within a portion of fee-owned, Inland Feeder right-of-way in Highland, CA. The monitoring well will be operated for a three-year period, on behalf of the San Bernardino Valley Municipal Water District to complete subsurface investigations for the proposed relocation of their pipeline.

An entry permit was issued to San Jacinto Master Developer, LLC for biological survey and CEQA purposes, comprising a portion of fee-owned, Colorado River Aqueduct right-of-way in San Jacinto, CA. The developer needs to complete its CEQA requirements and City entitlement conditions as they relate to potential drainage and road improvements abutting Metropolitan property.

Objective #3 Efficiently maintain and operate assets not related to the treatment and distribution of water.

The Diamond Valley Lake Marina hosted the 17th Annual NamiWalks Inland Empire Mental Health Walk. The National Alliance on Mental Health (NAMI) organizes yearly walks that are dedicated to raising mental health awareness. This year's event drew over 400 people to take part in the festivities that included food, music, speakers, informational booths, and a walk along the Lakeview Trail. Funds raised from this event will go to support free mental health programs and services in the local community.



Objective #4 District Housing Maintenance and Management.

Thirty maintenance work orders were completed for this past reporting period. Ten of the work orders were for Tenant Requested Work Orders via Tenant Web Access that included appliance installation and plumbing, irrigation lines, and fence repairs.

One house was prepared for occupancy. Occupancy preparation included new exterior stucco and paint, new interior paint, new flooring, new windows and blinds, and a complete kitchen and bathroom remodel with new appliances and fixtures.

In collaboration with Water System Operations' Construction Services Team, 42 residential carports are being installed at the desert villages. Sitework and the concrete anchoring footings at eight residential locations have been completed; however, the completion of the entire project is expected by April 2023.



Typical Before and After Bathroom Renovation



Typical Before and After Kitchen Renovation



Carport Footing installation—Ready for carport to be assembled on footings

Security

Project Highlights

Security and Emergency Response

The Cybersecurity and Infrastructure Security Agency's (CISA) ChemLock program is a voluntary program that provides no-cost services and tools to help facilities better understand the risks they face and improve their chemical security posture in a way that meets their operational needs.

In November, Metropolitan hosted the first-ever CISA Region 9 (California, Arizona, Nevada, Hawaii, Guam, America Samoa, and the Marianas) ChemLock Tabletop Exercise (TTX). The in-person exercise took place at Metropolitan's headquarters with over 60 participants from:

- Department of Homeland Security's Cybersecurity and Infrastructure Security Agency
- Federal Bureau of Investigation
- California Governor's Office of Emergency Services
- LA Joint Regional Intelligence Center
- LA County Fire
- LA City Fire
- American Red Cross
- Metropolitan management and staff from Water Treatment, the Jensen facility, Health & Safety, Security, External Affairs, Emergency Management, Business Continuity, and Securitas contract security

Attendees successfully planned the master exercise scenario list and objectives over a series of virtual meetings held over the preceding months. CISA provided scenario development questions to focus the exercise in improving pre-incident information and intelligence sharing, incident response, and post-incident recovery. CISA also created customized invitations, a scenario playbook, documentation, slide deck presentations, evaluation forms, and an After-Action Report.

Participants appreciated Metropolitan's warm hospitality in hosting this significant event.



Metropolitan hosted the first-ever ChemLock Tabletop Exercise in CISA Region 9

Employee Readiness for All Hazards and Emergencies

Metropolitan's Security Management virtually attended the three-day 2022 H2OSecCon hosted by Water Information Sharing and Analysis Center (WaterISAC). Authorized by Congress in the 2002 BioTerrorism Act, WaterISAC is the designated information sharing and operations arm of the Water Sector Coordinating Council in close synchronization with the Environmental Protection Agency.

Conference sessions and panel discussion topics focused on:

- Physical security threats to water and wastewater systems
- Reducing physical security risks
- Cybersecurity basics
- Cybersecurity financial risks and insurance
- Secure remote access for ICS/OT/SCADA

Lessons learned from this year's conference are being integrated into ongoing Metropolitan security plans, policies, protocols, construction projects, and resources.



H2OSecCon was attended by Security Management

Employee Readiness for All Hazards and Emergencies

Metropolitan's Security Management has joined the Joint Management Council for the Safety, Security, and Emergency Management Committee at the Los Angeles Union Station campus. The committee comprises all stakeholders for Union Station including Los Angeles Police Department, Los Angeles Sheriff Department, Amtrak Police Department, LA Viper Team (Federal Law Enforcement, under the Department of Homeland Security), Metro, Metrolink, and Morlin Management.

The committee will meet monthly to establish ongoing initiatives, such as joint emergency exercises, interagency communication, strategies to engage resources, and jurisdictional security issues.

Finance and Administration



Finance

Maintain Strong Financial Position

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

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

The Risk Management Unit completed 37 incident reports communicating instances of Metropolitan property damage, liability, workplace injuries, regulatory visits, and spills.

Risk Management completed 58 risk assessments on contracts, including professional service agreements, construction contracts, entry permits, special events, and film permits.

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 and resiliency in the event of a disaster.

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

- Participated in planning meetings to develop a Local Hazard Mitigation Plan in accordance with FEMA requirements that would allow Metropolitan to seek grant funding for projects.
- Participated in the design and execution of response and recovery exercises for the Jensen and Diemer water treatment plants.

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 that 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.

- Water Transactions for October 2022 totaled 161.6 thousand acre-feet (TAF), which was 7.9 TAF higher than the budget of 153.7 TAF and translate to \$150.0 million in revenues for October 2022, which were \$2.5 million higher than budget of \$147.5 million.
- Year-to-date water transactions through October 2022 were 601.6 TAF, which was 29.6 TAF higher than the budget of 572.0 TAF. Year-to-date water revenues through October 2022 were \$561.7 million, which were \$2.9 million higher than the budget of \$558.8 million.
- In October 2022, Accounts Payable processed approximately 3,200 vendor invoices for payment and took advantage of about \$4,300 in discounts.

Finance and Administration

(continued)

Finance's Treasury team worked with our external Investment Advisor to develop a reallocation strategy of Liquidity and Core Portfolio balances to meet district cashflow needs as well as enhance our investment returns given changing market conditions. Implementation of this strategy is anticipated to begin in December 2022.

Manage investor relations to ensure clear communications, accuracy of information, and integrity.

Promptly updated available district financial reports on our new Investor Relations portal (BondLink) for investor accessibility and capital markets transparency.

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

Met with representatives of Fitch Ratings as part of a comprehensive review of its ratings methodology and opportunities for ratings upgrades for Metropolitan's bond program.

Prudently manage the investment of Metropolitan's funds in accordance with policy guidelines and liquidity considerations.

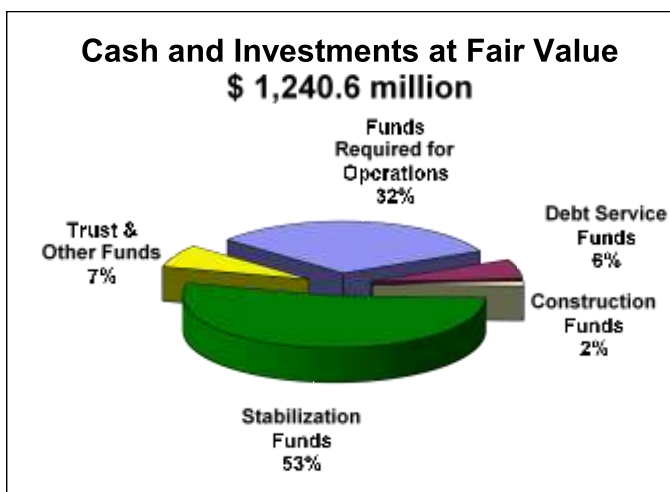
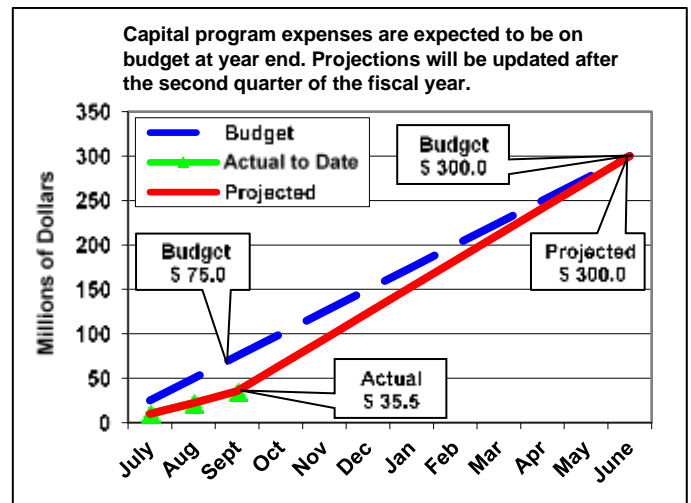
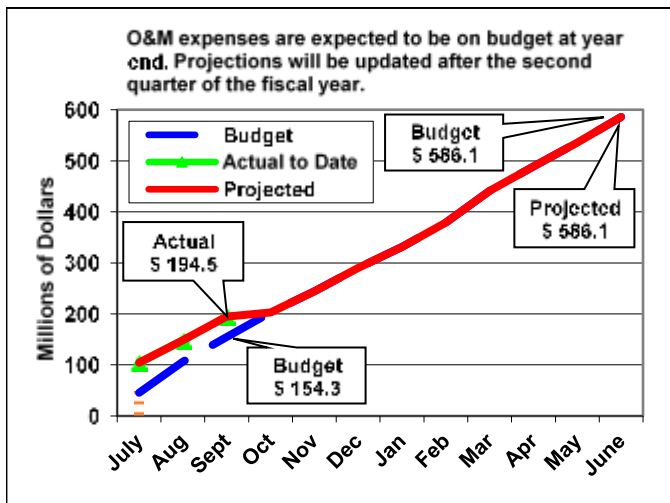
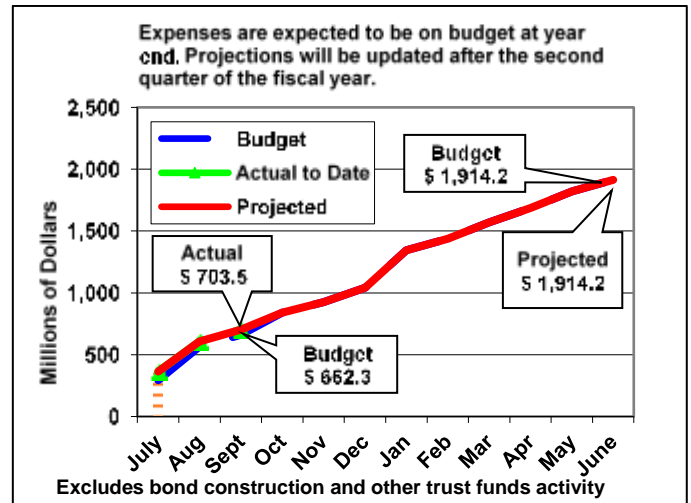
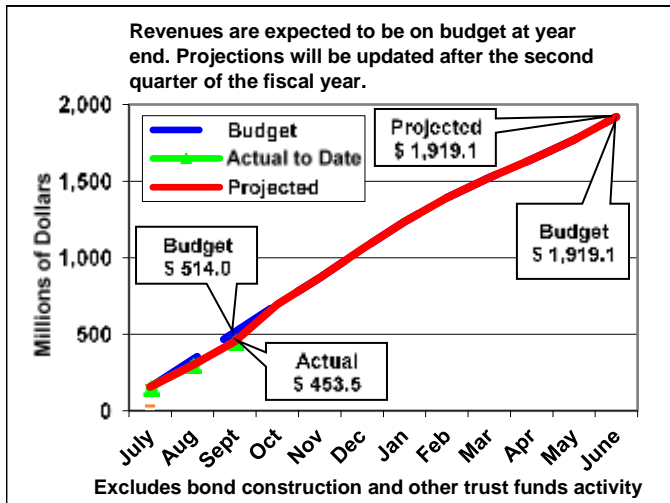
As of October 31, 2022, Metropolitan's investment portfolio balance was \$1.2 billion; in October 2022, Metropolitan's portfolio managers executed 17 trades.

In October 2022, Treasury staff processed 1,010 disbursements by check, 21 disbursements by Automated Clearing House (ACH), and 126 disbursements by wire transfer. Treasury staff also processed 80 receipts by check, 17 receipts by ACH, and 47 receipts by incoming wires and bank transfers.

In addition, 8,148 P-Card transactions were reconciled in October 2022, totaling \$1.2M.

Finance and Administration

(continued)



Summary Financial Statistics			
		Target	Year-End Projected
Fixed Charge Coverage	≥	1.20 x	1.53
Revenue Bond Coverage	>	2.00 x	1.53
Revenue Bond Debt / Equity Ratio	<	100.0%	51.6%

Senior Lien Revenue Bond Credit Ratings		
	Target	Current
- Moody's Investors Service	Aa2	Aa1
- Fitch Ratings	AA	AA+
- Standard & Poor's	AA	AAA

Administrative Services

Accomplishments

Investment Recovery (IR) within the Inventory Control Team is Metropolitan Water District's central receiving department for excess equipment, surplus material, and scrap. Throughout the year IR receives surplus material, scrap, vehicles, tools, and surplus equipment from HQ and 12 field facilities. Our mission is to recover the highest value for any asset that is no longer needed by Metropolitan. We do so by assessing whether equipment can be redeployed within the organization, resold to the public, or recycled (Scrap or E-Waste). During Q1 FY22/23, Investment Recovery generated \$177,594.45 in revenue.

	Q1 (7/1-9/30/22)
SCRAP METAL	2,750.75
E-WASTE COLLECTION	177.70
VEHICLES AND TRAILERS	155,917.00
RECYCLED TONER CARTRIDGES	-
MISC EQUIPMENT AUCTIONS	18,749.00
Total	\$ 177,594.45

Records Management Imaging Services Team continues to work diligently in providing great customer service, quality work products, and timely completion of print jobs for employees. Totals for the first quarter of the 22–23 fiscal year are as follows:

Month	Total Jobs	On-Time Completion	Total Xerox Impressions
July	53	98%	158,026
August	81	100%	84,802
September	37	100%	75,999
Q1_FY 22-23	171	99%	318,827

Human Resources

HR Priorities

Partner with Metropolitan leadership to support learning, development, and adaptive workforce planning initiatives.

In November, 404 Metropolitan employees attended virtually facilitated classes including One Note, Microsoft Word Tips & Tricks, Excel Tables Workshop, Personal Security Awareness, and Increasing Productivity in Outlook.

LinkedIn Learning, Metropolitan's online e-learning content platform, was accessed for such topics as Being an Effective Team Member, Business Writing Principles, Communicating Nonverbally, Making Decisions, and Developing your Emotional Intelligence.

The Organizational Development & Training Unit facilitated training for the Apprenticeship Program at Diamond Valley Lake on Communication Skills, Learning Styles, Study Tips, and Managing Test Anxiety.

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

Recruitment successfully filled 26 positions for November. Recruitment received 41 new staffing requisitions resulting in 210 positions currently in recruitment.

The HR Group Manager continued to work with the board search committee in the recruitment process for the General Auditor position. Interviews were completed and final interviews are scheduled in December.

HR Core Business: Provide Excellent Human Resources Services

Objective #1: Administer all HR services with efficiency and a focus on customer service excellence, consistency, and flexibility.

Constructive negotiations continue with the Supervisors' Association on a successor MOU. Staff will continue to brief the Organization, Personnel, and Technology (OP&T) Committee on the status of those talks.

The Benefits Unit closed out the National Retirement Security Month (NRSM) campaign on October 31, 2022, providing financial and retirement education and fraud prevention techniques to all active employees and retirees enrolled in our 401(k) and 457(b) deferred compensation plans. A total of 155 participants attended the nine webinars hosted by Financial Finesse and Empower Retirement.

The Benefits Unit closed out its annual Benefits Open Enrollment period on October 17, 2022, providing 108 employee consultations and two webinars with over 100 participants, both designed to educate and assist employees with making their preferred elections. The Benefits Unit issued 2023 Benefit Confirmation Statements to all employees.

Benefits completed the Medical Vesting Election campaign on November 17, 2022, providing 32 employee consultations to help ensure that employees hired before January 1, 2012, understand the rules regarding the 10/20 medical vesting governed by GC 22893.

Benefits staff communicated and implemented the changes for 2023 calendar year limits for the 401(k) and 457(b) plans.

The Business Support Team planned, organized, and coordinated a “Preventing Diabetes” wellness webinar. The live webcast, held on November 16, 2022, was hosted by Kaiser Permanente. The webinar introduced employees to the five keys to preventing diabetes: eating healthy, getting active, quitting tobacco, managing stress, and sleeping well. Employees were invited to create a realistic action plan to help them take positive steps towards taking control of their health.

Human Resources finalized the Department Head evaluation process by collecting feedback and ratings from 83 percent of the Board of Directors for three of the Department Heads: General Manager, General Counsel, and Ethics Officer. Results were shared with the Board of Directors and with individual employees.

HR Core Business: Comply with Employment Laws and Regulations

Objective #1: Effectively administer all Human Resources policies, programs, and practices in compliance with applicable federal and state laws and Metropolitan’s Administrative Code, Operating Policies, and Memorandum of Understanding.

The Benefits Unit is currently administering 2022 COVID-19 Leaves through December 31, 2022. As of mid-November, 478 leaves of absence have been approved for COVID-related reasons.

Benefits staff coordinated with Legal to update, using revision tracking, seven Administrative Codes for various leave policies to ensure that updates on CFRA, FMLA, Disability Leave, Kincaid, California Paid Sick Leave, Military Leave, and Bereavement leave have been incorporated to request Board Approval on December 13, 2022.

Staff attended the in-person CalPERS Forum from October 31 to November 2 to obtain additional training on CalPERS membership rules and compensation reporting requirements, updates on medical plan options and designs for calendar year 2024, and proposed changes for the administration of medical for active employees and retirees. Staff also attended the virtual special stakeholders and board meetings on 11/10 and 11/15 on proposed regulations for revising the rules for employers employing Annuitants and employees on Temporary Upgrade Pay.

In November, 17 new workers’ compensation claims were received and 20 were resolved. Ten employees remain off work because of an industrial injury or illness. This reflects Metropolitan’s effort to accommodate injured workers, while enabling them to be productive and on the job.

In addition, staff is collaborating with other Metropolitan stakeholders to implement a new Incident Reporting and Case Management System designed by Ventiv Technology. Staff continues to work closely with our Workers’ Compensation Third Party Administrator, TRISTAR Risk Management.

Activities of the Workers’ Compensation/Medical Screening Unit are summarized as follows for November:

- Arranged seven medical evaluations (Pre-employment, DMV, medical surveillance, vanpool program restarted)
- Coordinated three random drug tests at Gene Camp, Iron Mountain, and Jensen
- Addressed 30 accommodation issues, referrals, and follow ups with Shaw Consulting Group.

Finance and Administration

(continued)

HR Metrics	June 2022	November 2022	Prior Month October 2022
Headcount			
Regular Employees	1,762	1,786	1,775
Temporary Employees	37	22	34
Interns	2	1	2
Recurrents	18	18	18
Annuitants	19	19	19

	November 2022	October 2022
Number of Recruitments in Progress (Includes Temps and Intern positions)	215	210
Number of New Staffing Requisitions	30	41
	November 2022	October 2022
Number of Job Audit Requests in Progress	7	6
Number of Completed/Closed Job Audits	0	0
Number of New Job Audit Requests	1	0

Transactions Current Month and Fiscal YTD (includes current month)			
External Hires	FY 21/22 Totals	November 2022	FISCAL YTD
Regular Employees	82	18	50
Temporary Employees	36	2	5
Interns	4	0	0
Internal Promotions	70	4	23
Management-Requested Promotions	152	12	47
Retirements/Separations (regular employees)	127	12	26
Employee-Requested Transfers	15	1	7

Departures

Last	First Name	Classification	Eff Date	Reason	Group
Garabetian	Aida	Team Mgr – Program Management	9/6/2022	Retirement	ENGINEERING SERVICES GROUP
Litchfield	Douglas	Engineer	9/6/2022	Retirement	WATER SYSTEM OPERATIONS GROUP
Tesso	Lupe	Admin Analyst	9/7/2022	Retirement	INFORMATION TECHNOLOGY GROUP
Coseboom	Deborah	Chief Cook	10/1/2022	Retirement	WATER SYSTEM OPERATIONS GROUP
Wallace	Suzanne	Admin Assistant I	9/22/2022	Retirement	WATER SYSTEM OPERATIONS GROUP
Hacker	Patrick	Sr Microbiologist	10/4/2022	Retirement	WATER SYSTEM OPERATIONS GROUP

Finance and Administration

(continued)

Last	First Name	Classification	Eff Date	Reason	Group
Partin	Margarita	Admin Assistant III	10/14/2022	Retirement	WATER SYSTEM OPERATIONS GROUP
Renteria	Ricardo	O&M Tech IV	10/14/2022	Retirement	WATER SYSTEM OPERATIONS GROUP
Sclimenti	Michael	Sr Chemist	10/4/2022	Retirement	WATER SYSTEM OPERATIONS GROUP
Nulod	Velma	Sr Accounting Tech	9/10/2022	Separated	FINANCE GROUP
Ochoa	Pamela Rosette	Laboratory Assistant I	9/9/2022	Separated	WATER SYSTEM OPERATIONS GROUP
Duncan Jr.	Morris	O&M Tech IV	8/16/2022	Deceased	WATER SYSTEM OPERATIONS GROUP

Diversity, Equity and Inclusion

Business Outreach & Community Engagement

Business Outreach staff attended the sixth annual Veterans in Business procurement conference in San Diego. The event drew 400 veteran-owned businesses. Staff participated in one-on-one vendor meetings and staffed an exhibit table.

Business Outreach also hosted our quarterly Networks virtual networking and contracting opportunities workshop. More than 600 firms participated. Topics included implementation of Project Labor Agreement, new alternative delivery projects, and an overview of the Pure Water program.

Tribal Outreach & Engagement

DEI Tribal Relations and Workforce Development staff attended the Colorado River Indian Tribes (CRIT) Veteran's Day parade. The annual parade showcased all CRIT military veterans of all US wars. The parade was also an opportunity for CRIT citizens who are running for tribal council offices. Elections for the tribal council vacancies will be held on December 3. The CRIT Veteran's Day parade is an opportunity for DEI to continue its goal of engaging tribes to enhance relationships. Attending Indian reservation activities provides for Metropolitan's presence, which was never done previously. DEI staff also met with the Chemehuevi Tribe's Vice Chairman and Cultural Resources Officer. The tribal officers provided a tour of the Chemehuevi Reservation as well as its local offices. During the meeting, discussions occurred regarding the possible powerline interconnection with Metropolitan. The Cultural Resource Office is responsible for coordinating with agencies whose projects may affect the Chemehuevi tribal territories. It also offers cultural sensitivity training for agencies like Metropolitan to help ensure an appreciation of each other's goals when it comes to agency projects and understanding the culture in general

HBCU Outreach and Engagement

DE&I drove a partnership with various other public agencies such as LADWP and the Bureau of Sanitation to host several engineering students from historically black colleges and universities (HBCUs) to expose these students to what a career in engineering in the water industry might look like. This was a collaboration among DE&I, Engineering Services Group, and External Affairs, resulting in new connections among these students, the HBCUs, and Metropolitan employees with the expectation that this investment may result in building a more diverse talent pipeline for engineering opportunities at Metropolitan.





External Affairs

Highlights

Chairwoman Gray and WRM Group Manager Coffey were members of a delegation which traveled to Israel for the US-Israel Collaboration on Water Reuse program to develop collaboration strategies and share best practices on water resources. (November 1–4)

Chief Engineer Bednarski and Special Projects Manager Westford were featured speakers, and Metropolitan sponsored the National Water Resources Association annual conference. (November 3–4)

Metropolitan sponsored and External Affairs staff participated as judges in the San Joaquin County Office of Education Drought Hackathon at which hundreds of middle school, high school, and college students from Delta communities were challenged to increase water conservation and drought awareness by creating apps and original video content. (November 4)

Metropolitan sponsored and Director Luna and AGM/CFO Kasaine attended the Los Angeles County Economic Development Corporation's Annual Eddy Awards. The event recognized individuals, businesses, and organizations who have been a champion for equitable economic development. (November 9)

Metropolitan sponsored and co-hosted Western Urban Water Coalition's fall meeting and 30th anniversary event with Los Angeles Department of Water and Power. (November 9–10)



US-Israel Collaboration on Water Reuse

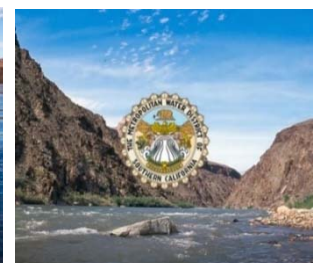
GM Hagekhalil and Bay-Delta Policy Manager Hawk spoke to the Long Beach Water Commission, sharing information about a One Water vision, Delta issues, equity, and efforts to respond to climate change and drought. (November 10)

Colorado River Resources Manager Hasencamp was a featured panelist and AGM/CEAO Zinke and staff attended the Public Policy Institute of California conference, "California's Balancing Act." (November 18)



Colorado River Resources Manager Hasencamp spoke at the PPIC Conference

Metropolitan commemorated the 100th Anniversary of the Colorado River Compact and its significance to Southern California and Metropolitan with messages to the Board, member agencies and employees, and on social media. (November 24)



Chairwoman Gray, many directors, GM Hagekhalil, and Metropolitan staff attended the Association of California Water Agencies fall conference in Indian Wells and participated in meetings on a wide range of water policy issues including state and federal legislation, drought, climate change, water supply reliability, water quality, communications, diversity, and outreach. (November 29–December 1)

Legislative Services

The continuing resolution funding government at fiscal year 2022 levels runs out on December 16. Negotiations are underway for fiscal year 2023 funding. Metropolitan staff is closely tracking the FY 23 appropriations process and funding for programs that are important to Metropolitan, including funding to help with the drought.

WRM Section Manager Goshi participated in the Western Riverside County Member Agency Roundtable Event and spoke on the imported water supply outlook and forward-looking initiatives. (November 17)

Metropolitan staff presented, monitored, and/or participated in 67 webinars, virtual meetings, and events with community organizations, trade associations, and local officials on water-specific topics.

Media and Communications

The following media interviews were arranged:

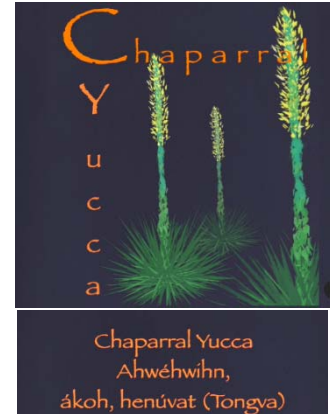
- Coordinated interview between Associated Press reporter Kathleen Ronayne and GM Hagekhalil regarding federal drought mitigation funding.
- Arranged interview with KCBS-TV/KCAL-TV and WRM's Polyzos on the water supply outlook and possible need for additional restrictions next year, given the 90-day weather outlook.
- Set up and participated in a tour of Pure Water Southern California and an interview between Spectrum 1 News reporter Sarah Pilla and EA's Team Manager Soni regarding program and scoping process.
- Coordinated interviews with Colorado River Resources Manager Hasencamp and AP's Kathleen Ronayne, LA Times reporter Ian James, and E&E News reporter Jennifer Yachnin on the Department of the Interior's announcement about the interim guidelines for operation of Glen Canyon and Hoover dams.
- Arranged an interview with Heather Sackett of Aspen Journalism and EA's Team Manager Soni on Pure Water Southern California.
- Coordinated an interview with LA Times reporter James and Sustainability, Resiliency, and Innovations Chief Officer Crosson regarding the Colorado River agreement among urban water agencies across the Southwest, highlighting commitment to conservation to reduce demands on the Colorado River.

Press Releases

Issued joint statement on the Colorado River MOU by urban water agencies to reduce demands on Colorado River through additional conservation actions.

Creative Design

- Collaborated with leadership of the Native American/Alaska Native Employees' Association to create a native plant series that includes Indigenous uses or common native plants that are waterwise.
- Updated creative content for water conservation advertising campaign and coordinated with Save Our Water on co-branding opportunities.
- Supported work by Real Property to update and market surplus property listings around Diamond Valley Lake.



Website

- Added new website sections highlighting the Project Labor Agreement and the Board's action to ban non-functional turf
- New content on bewaterwise.com included landscape professionals/designers' section, district's turf replacement studies, and Chinese and Spanish language flyers about the new Water Use Survey Program.
- Registered more than 90,000 views on mwdh2o.com with careers, job listings, and Pure Water Southern California among the most visited. Generated nearly 187,000 views on bewaterwise.com, with the "This is How We Save Water" campaign page and turf replacement pages receiving the most traffic.

Social Media



Three of the featured Metropolitan employees in social media posts to commemorate Veterans Day

- The conservation advertising campaign produced more than 18 million impressions on social media. Top performing posts were from social media influencers The Linda Lindas and Atiba Jefferson, which have reached a significantly broader and younger demographic.
- Featured district employees in separate campaigns for Dia de los Muertos, Veteran's Day, and Thanksgiving.
- Promoted free water efficiency surveys for residential and commercial customers and featured a video showing Ventura County Fire Department's use of water-saving pump pods, which were purchased with help from the Water Savings Incentive Program. The video organically outperformed other posts on Instagram, receiving the most engagement and views for the month.



Public Outreach and Member Services

Convened community meetings for Pure Water Southern California with Mamas Unidas in Wilmington (November 7), East Yard Communities for Environmental Justice (November 9), and city of Duarte. (November 30)

Pure Water Southern California Plant Tours—Colorado River Water Conservation District (November 4), Whittier College (November 9), USC Civil Engineering Students (November 9), Western Urban Water Coalition (November 9–10), LA County Civil Grand Jury (November 14), LADWP Employees' Club (November 16), Virtual Public Tour (November 16), Central Basin Purveyors (November 16), Metropolitan Real Property Group staff (November 17), and Hancock Park Garden Club. (November 29)

Met with officials from the Singapore Public Utilities Board to discuss water system networks, conservation, and opportunities for collaboration. (November 10)

Notified residents and businesses in Fontana about the Etiwanda Pipeline North Relining project and Rolling Hills Estates residents about the upcoming Second Lower Feeder Relining project.

Conducted three director inspection trips for the State Water Project/Delta and Hoover Dam/Colorado River Aqueduct.

Hosted the Colorado River Water Conservation District at Gene Camp as part of their Colorado River tour. (November 2–3)



Inspection trip with Director De Jesus from Three Valleys Municipal Water District and Director Fellow from Upper San Gabriel Valley Municipal Water District (Upper District)

Education and Community Relations

Metropolitan sponsored and staffed exhibit booths at the Boys and Girls Club of Wilmington Dia de los Muertos event (November 2), Uptown Long Beach Farmers Market (November 3), and Claremont Botanical Garden's Waterwise Festival (November 13).

An overview of Metropolitan's 2022 water conservation advertising and outreach campaign was presented to the US Bureau of Reclamation for the CY 2023 Part 417 Consultation Meeting. (November 2)

Metropolitan staff virtually interacted with more than 140 teachers, students, and parents through community festivals and online virtual tours, scouting programs, and customized ZOOM class presentations.

Metropolitan partnered with the Municipal Water District of Orange County for a presentation to an Environmental Science class at Chapman University.

Metropolitan sponsored events through the Community Partnering Program for Olivenhain Municipal Water District Open House and Drought Outreach, Generation STEAM, San Diego Festival of Science and Engineering, The Wyland Foundation, and Waterwise Pocket Park Protection project.



Promoting Metropolitan's community events

Sustainability, Resiliency and Innovation



Sustainability, Resiliency, Innovation, and Environmental Planning

SRI Core Activities

The CSRIO participated in a cohort of sustainability leaders from across the U.S. water utility sector in U.S. Water Alliance trip to Denmark. The cohort is focused on sharing strategies to reduce greenhouse gas emissions in the water sector and visited several Danish utilities that prioritize energy efficiency, energy production and climate action in their operations and projects. The CSRIO also helped facilitate the participation of our Member Agencies in the Colorado River Urban Water Users MOU. We announced the addition of over two dozen signatories throughout the Colorado Basin this month. SRI also facilitated an EV tour for our ZEV Task Force at LADWP facilities.



Executive Zero Emission Vehicle (ZEV) Task Force

The SRI Office coordinated with the Los Angeles City Mayor's Office and LADWP for a tour of LADWP's John Ferraro Headquarters fleet charging facilities on November 3. Metropolitan staff viewed LADWP's charging facilities, fleet vehicles, and battery storage and obtained information on procurement practices and building of their charging infrastructure. Metropolitan was able to gain valuable knowledge from LADWP on their journey toward converting to zero emission vehicles. Additionally, the Mayor's Office and LADWP offered to provide future facility tours for staff as Metropolitan begins the transition of its own fleet to zero emission vehicles.



Sustainable Procurement Policy

The SRI Office, Administrative Services, and Engineering Services Groups and Risk Management continue discussions on the development of a district-wide sustainable procurement policy. Metropolitan is working with Empower Procurement, a consultant that is fully funded by the California Energy Commission until December 2022.

LADWP and Metropolitan staff in an electric Ford Lightning pickup truck

Innovation

TEDx Manhattan Beach

On November 4, SRI staff members participated in TEDx Manhattan Beach. SRI's Innovation team has sponsored, exhibited, and partnered with TEDx Manhattan Beach for over five years. Rob DeCou, Lux Virtual, and H2O TECH CONNECT Community Member, was a featured speaker at TEDx. Lux Virtual created Metropolitan's Aqueduct VR and State Water Project VR. Featured at the event was Hands on Engineering: NO Fear in Not Knowing with students from the UCLA Samueli School of Engineering teaching hands-on electrical engineering skills including their Open

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Project Space curriculum that teaches electrical engineering fundamentals; Micromouse, an autonomous maze-solving robot; and DAV, a computer design, architecture, and verification project.



TEDx Manhattan Beach

Achievement Rewards for College Scientists (ARCS) Foundation's Scholar Recognition Program

SRI's Innovation Team, Engineering, Water Quality, Operations, IT and HR Teams continued support for Innovation by participating in the Achievement Rewards for College Scientists (ARCS) Foundation's Scholar Recognition Program on November 11 in Pasadena. The ARCS Founding Chapter presented awards to 49 scholars. Metropolitan's team saw scholar presentations explaining new technologies in engineering, science, and medicine. SRI staff are on the board of the ARCS Foundation, which is a national nonprofit volunteer women's organization that promotes US competitiveness by providing financial awards to academically outstanding scholars studying to complete degrees in science, technology, engineering, mathematics (STEM), and health disciplines at 49 of the nation's leading research universities. The organization has awarded more than \$120 million to more than 10,500 scholars since 1958. ARCS Foundation Scholars have produced thousands of research publications and patents, secured billions in grant funding, started science-related companies, and played a significant role in teaching and mentoring young people in the STEM pipeline. Southern California Chapter Universities include California Institute of Technology; Harvey Mudd College; University of California, Los Angeles; Pomona College; University of Southern California Viterbi School of Engineering; Keck School of Medicine of the University of Southern California; University of California, Irvine; Scripps Institution of Oceanography; University of California, San Diego, and other top research universities in the region.



ARCS Scholars Recognition

University of California Irvine 2022 Water Works Career Expo

On November 14 SRI staff gave a presentation and exhibited at UCI's 2022 Water Works Career Expo in Irvine. The event provided an opportunity to engage talented students interested in water careers. Many of the students were interested in Metropolitan's opportunities in Environmental Policy, Engineering, Climate Change, and Innovation. Metropolitan also supported our Member and Regional Agencies that participated in the event. Joone Lopez, GM Moulton Niguel Water Moderated the event. Water UCI mobilizes seamless collaboration across the university to

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conduct research, provide educational and outreach programs, foster workforce development, and advance policy solutions to critical water problems facing the state, nation, and world.



UCI's 2022 Water Works Career Expo

Environmental Planning Section

Core Business: Environmental Planning and Regulatory Compliance Support

Bay Delta Initiatives

Participated in coordination meetings with the Department of Water Resources and regulatory agencies for the Delta Conveyance Project.

Engineering Services Group

Etiwanda Pipeline Relining Project

- Performed environmental monitoring during construction activities.

Pure Water Southern California

- Completed the California Environmental Quality Act (CEQA) scoping and public review period for the Notice of Preparation of a Draft Program Environmental Impact Report (PEIR), including participating in the scoping presentations at several public meetings to obtain input on the scope of the Draft PEIR.

Weymouth Water Treatment Plant and La Verne Site Improvements Program EIR

- Finalized biological resources and hazardous materials technical reports in support of the CEQA Initial Study and Notice of Preparation of a Draft PEIR.
- Participated in a site visit to Santa Monica City Hall and the Burbank Water and Power EcoCampus to gather potential ideas to incorporate into the Water Quality Laboratory project to achieve LEED certification.

Construction Monitoring

- Continued construction monitoring efforts for Orange County Feeder Relining Reach 3, Weymouth Plant Basins 5–8 Rehabilitation, La Verne Shops Upgrades, Weymouth Plant Battery Energy Storage Systems (BESS), and Live Oak Reservoir Cathodic System Replacement.

Sustainability, Resiliency, and Innovation Office

Climate Action Plan (CAP) Monitoring and Reporting

- Developed and led internal training sessions to train Metropolitan staff on how to complete the natural gas inventory spreadsheet in support of CAP measures to inventory, survey, and replace natural gas-consuming equipment throughout Metropolitan.

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- Continued coordination efforts with Metropolitan’s consultant and web designers to develop the CAPDash emissions monitoring and tracking tool and make it available on the CAP landing page on Metropolitan’s public website.
- Continued preparation of document templates and guidelines for subsequent CEQA review for projects covered under the CAP and for CEQA greenhouse gas analysis for future projects.
- Continued to research and gather updated Scope 3 emissions data.

Water System Operations Group

- Completed the draft Initial Study-Mitigated Negative Declaration for the Colorado River Aqueduct Master Reclamation Plan for San Bernardino and Riverside Counties and initiated the public review period in compliance with the Surface Mining and Reclamation Act.

Reserve Management

Lake Mathews Multiple Species Reserve

- Repaired portions of Reserve fencing along the eastern Reserve boundary and Cajalco Road.
- Coordinated with the California Department of Fish and Wildlife and Western Riverside County Regional Conservation Authority researchers regarding long-term surveys for reptiles and birds.

Southwestern Riverside County Multi-Species Reserve

- Coordinated with the Western Riverside County Regional Conservation Authority on Stephens’ kangaroo rat surveys in the Reserve (see photo).
- Continued tamarisk removal in Tualota Creek and conducted roadside weed abatement.
- Installed new Reserve signs and repaired boundary fencing.
- Held a “Birding at the Schoolhouse” event on Saturdays and Sundays; fifty-nine people visited the Alamos Schoolhouse interpretive center.



Stephens’ kangaroo rat identified during survey at the Southwestern Riverside County Multi-Species Reserve

Equal Employment Opportunity



Equal Employment Opportunity

EEO Administrative Code Updates

At the November 8 Audit & Ethics (A & E) Committee, the Chief EEO Officer presented for action updates to Administrative Code sections 2131 and 2416 and proposed new EEO Complaint & Investigative Procedures for complaints filed against the Board and its direct reports. The A & E Committee unanimously approved the board item and the newly established procedures will take effect starting January 2023.

EEO Office Engagement

On November 9, the Chief EEO Officer represented Metropolitan by attending the Los Angeles County Economic Development Corporation (LAEDC) 27th Annual Eddy Awards. The Eddy Awards is an awards gala to support LAEDC's mission of reinventing the economy to collaboratively advance growth and prosperity for all.



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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