

#### The Metropolitan Water District of Southern California

## GENERAL MANAGER'S MONTHLY ACTIVITY REPORT APRIL 2014

April 30, 2014

#### **Content by Group:**

**BAY-DELTA INITIATIVES** WATER **RESOURCE MANAGEMENT** WATER SUPPLY **CONDITIONS ENGINEERING** 5-7 **SERVICES BUSINESS** 8-9 **TECHNOLOGY** WATER SYSTEM 10-14 **OPERATIONS** HUMAN 15 **RESOURCES** REAL PROPERTY 16 **DEVELOPMENT & MANAGEMENT EXTERNAL** 17-19 **AFFAIRS** 20-21 **FINANCE** 

THIS REPORT IDENTIFIES THE ACTIONS AND ACTIVITIES TAKING PLACE DURING THE MONTH THAT SUPPORT THE OBJECTIVES OF THE GENERAL MANAGER'S FISCAL YEAR 2013/14 BUSINESS PLAN.

#### **Workforce Development**

The Water System Operations Apprentice and Technical Training Program helps develop and train personnel to become qualified electricians and mechanics to maintain Metropolitan's water treatment and distribution systems. As part of the upcoming Pre-Apprentice recruitment, a total of 521 candidates participated in written examinations at the Pasadena Convention Center, while 52 candidates participated at the Lake Havasu Convention Center. The top ranked 40 desert and 140 in-town candidates participated in Physical Ability Testing at Gene and La Verne, respectively. (see photos below)



Above: Recruitment candidates in preparation for written examination at Pasadena Convention Center.

Right: Physical Agility Testing



#### **BAY-DELTA INITIATIVES**

## Complete the final Bay Delta Conservation Plan and the associated Environmental Impact Report/Environmental Impact Statement

Bay Delta Conservation Plan—The state developed a series of short videos to address common questions and topics on the Bay Delta Conservation Plan and associated Draft Environmental Impact Report/Environmental Impact Statement (EIR/EIS). The Informational Episodes are designed to help the public navigate the Draft BDCP and environmental review documents, find information, and learn more about the proposed project and its alternatives. There are 17 episodes total—8 focused on the proposed Bay Delta Conservation Plan, and 9 focused on the Draft EIR/EIS. The videos can be viewed on the BDCP website at www.BayDeltaConservationPlan.com. The website also provides a Program Guide with a synopsis of each episode along with viewing times.

#### Develop near-term measures, compatible with a long-term Delta solution, to improve water supply reliability and water quality, and facilitate protection and enhancement of Delta ecosystems and associated species

Operating Criteria and Plan Biological Opinions—As part of the process to develop a robust science and adaptive management program to inform the development and implementation of the Operating Criteria and Plan biological opinions, Metropolitan has been collaborating with scientists and experts from the state and federal agencies, the public water agencies, and the non-governmental organization community in a process called the Collaborative Science and Adaptive Management Process (CSAMP). The CSAMP and its work team, the Collaborative Adaptive Management Team, worked the first year to develop workplans to address what updated science and analysis should move forward first. Now entering its second year, the CAMT has brought together technical experts, practitioners, and managers to form scoping teams for both Delta smelt and salmonid issues. These scoping teams were occupied in April with deciding how the agreed-to workplans will be executed.



Strategic Priority: Complete Bay Delta Conservation Plan—Continue to provide leadership in this process to restore the reliability of the State Water Project with the goal of completing the Environmental Impact Report / Environmental Impact Statement within the upcoming fiscal year reaching decisions on the project.

**Bay-Delta Solutions**—Develop near— and long-term solutions that enhance the Delta ecosystem, improve water supply reliability, and protect water quality.

#### Develop long-term Delta improvements through the Bay Delta Conservation Plan, including measures that implement conveyance and species conservation improvements

Delta Stewardship Council—The Delta Stewardship Council met on April 24. This one-day meeting focused on efforts to increase water storage capacity in California. The discussion included panels representing federal, state, and local agencies as well as other stakeholders. The panels briefed the Council on various water storage topics, including planned and potential new projects and the public benefits of such projects.

Randy Fiorini chaired the first meeting of the Delta Stewardship Council Delta Plan Interagency Implementation Committee on April 9. This committee, which is mandated by the 2009 Delta Reform Act, includes state and federal agency heads or their designees. The committee discussed the California Water Action Plan, the Council's Delta Plan, federal investments in the Bay-Delta region, and various challenges they face working in the Delta. The Council's Executive Officer Chris Knopp resigned with an effective date of end of April.

The Council discussed a search for a new executive officer in closed session at the April meeting.

#### WATER RESOURCE MANAGEMENT

Implement the Local Resources Program and Conservation Program effectively

<u>CFLT Program</u>—Staff is coordinating with member agencies to launch the FY2014/15 California Landscape Training Program. Member agencies are submitting requests for classes commencing in July, which will ensure a smooth program transition. Classes provide residential property owners instruction on water efficient landscape practices in landscape design and construction, plant selection, runoff minimization, and an emphasis on proper irrigation control.

<u>Landscape Irrigation Efficiency Pilot Program</u>—Metropolitan has been awarded \$300,000 in funding from the U.S. Bureau of Reclamation for the Landscape Irrigation Efficiency Pilot Program, which requires a Metropolitan match of \$700,000. The pilot program will offer enhanced incentives for irrigation devices, landscape training, and irrigation system surveys over two years. The program will conserve approximately 2,435 acre-feet of water. Reclamation is expected to sign an agreement by July.



Water Supply—Develop and execute water resource strategies that achieve the long-term reliability envisioned in the Integrated Resources Plan.

On-Site Retrofit Pilot Program—Staff announced on Metropolitan's website the July 2014 launch of the new On-site Retrofit Pilot Program. The Program provides incentives to property owners to convert their potable water systems to recycled water, and is open to commercial, industrial and irrigation users. Staff hosted a meeting/webinar to present the Pilot Program to the member agencies and solicit their feedback. Staff also presented the program to four chapters of the WateReuse Association and interested member agencies.

#### Ensure cost-effective and reliable imported water supplies

Yuba Dry Year Water Purchase—Based on preliminary allocation by the California Department of Water Resources, Metropolitan has scheduled the purchase of up to 7,355 acrefeet of Component 2 and 2,452 acre-feet of Component 3 Water at \$93.75 and \$125 per acre-foot respectively. Scheduling the purchase of these SWP water supplies bolsters the supplies available to Metropolitan's exclusive areas during the unprecedented SWP allocation of five percent in a cost-effective manner.

Weather Modification—March 31, 2014 concluded the 2014 winter season weather modification operations in Colorado and Utah. Weather modification experiments in the Wyoming's Medicine Bow and Sierra Madre Ranges were suspended on April 2 due to high snowpack conditions. Weather modification experiments in Wyoming's Wind River Range will continue until the suspension criteria are met or until the end of the season, which is slated for April 30. Staff attended the annual meeting held on April 22 in Reno, Nevada.

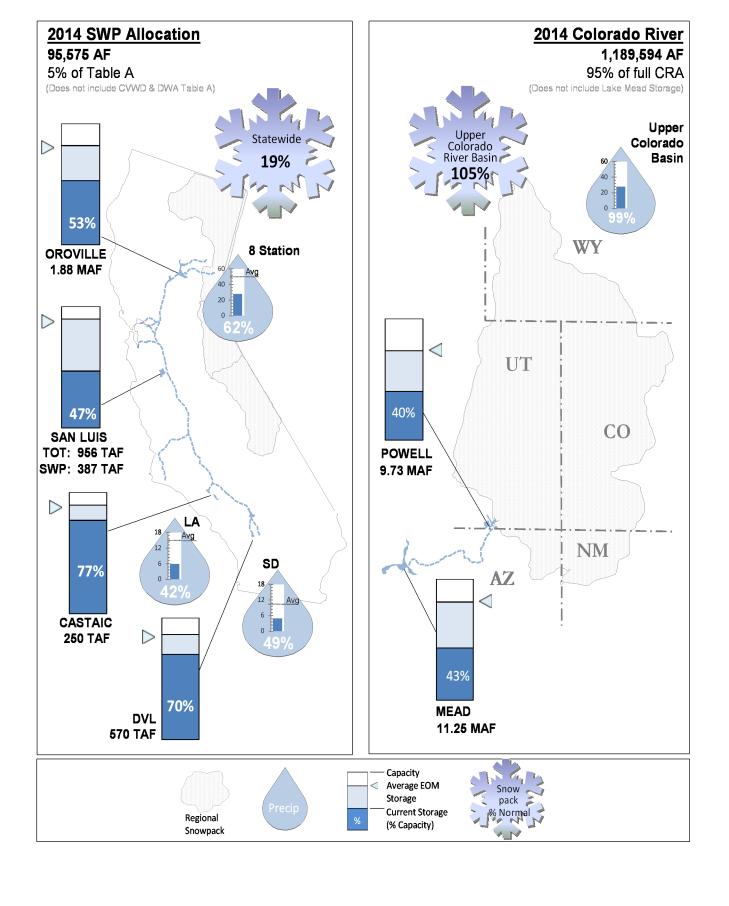
State Water Project—Rain and snow from February and March storms have allowed the Department of Water Resources to increase water contract allocations for State Water Project deliveries from 0% to 5%. While the allocation has been increased, it is still the lowest allocation that non-agricultural entities have ever received. Staff is continuing to look for opportunities for exchanges and other ways to increase supplies.

Groundwater—Metropolitan is evaluating the various proposals to pump in up to 30,000+ acre-feet of groundwater into the California Aqueduct, in conjunction with DWR's Pump-in Facilitation Group and the State Water Contractors. DWR is expected to impose the same fair conditions for program operations and monitoring that minimize impacts to water quality and compensate downstream users, including Metropolitan.

State Water Contract Extension—An Agreement in Principle (AIP) for the State Water Contract Extension was reached on March 6, 2014. During that final session, technical teams were created to work on the finalization of the AIP language and to review the AIP language for any fatal flaws. Meetings are ongoing for these two teams. DWR's target is to have formal AIP's in place by July 1, 2014.

<u>Lake Perris</u>—Staff coordinated with DWR to exercise Metropolitan's right to utilize all of its flexible storage in Lake Perris (65,000 acre-feet) this year due to the drought. Effects of the drought will result in impacts to recreational opportunities at the reservoir. Activities that might be impacted include boating, fishing, and swimming. Metropolitan is coordinating outreach efforts with DWR to make sure the public is kept informed of drought impacts on Lake Perris recreation.

### WATER SUPPLY CONDITIONS AS OF APRIL 30, 2014



#### **ENGINEERING**

**Strategic Priority**: **Infrastructure Reliability**—Manage board-authorized projects in the Capital Investment Plan to ensure the reliability of the region's water supply and infrastructure to deliver high quality water. Continue overall focus on repair and replacement work while deferring most growth-related work. Manage capital budget to reduce costs and mitigate rate impacts while maintaining a high performance water system.

#### **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:

- Orange County Feeder Relining—This project replaces the coal-tar enamel internal lining along a nine-mile portion of the Orange County Feeder in the cities of Santa Ana, Costa Mesa, and Newport Beach. Preliminary design is 90 percent complete and is scheduled to be complete by August 2014.
- Palos Verdes Reservoir Repairs—This project replaces the floating cover, liner, and overflow spillway, and removes a portion of the Inlet/Outlet tower. The work is scheduled to be advertised for bids in May, and award of the construction contract is scheduled for August 2014.
- Lake Mathews Forebay Valve Replacement and Repairs—This project replaces the Howell-Bunger valves and repairs concrete on the forebay lining and outlet tower at the Lake Mathews forebay. Preliminary design has been initiated and is scheduled to be complete by December 2014.
- Lake Mathews Hydroelectric Plant Building Structural Repairs—This project repairs spalled concrete and corroded reinforcing steel at the hydroelectric plant at Lake Mathews. Final design has been initiated and is scheduled to be complete by June 2015.
- Etiwanda Pipeline Lining Repair—This project repairs portions of damaged mortar lining that have fallen off or become delaminated from the pipeline's interior surface. The work will be completed in three phases. Phase 1 construction is ten percent complete and is scheduled to be complete by October 2014.

- Lakeview Pipeline Relining—This project relines the Lakeview Pipeline with a steel liner to strengthen the pipe and prevent water leakage. The work will be completed in two phases. Phase 1 includes lining a one-mile-long portion of the pipeline known as the Bernasconi Tunnel. Phase 1 is being accelerated as part of the Lakeview Intertie drought-response project. The Phase 1 final design is 90 percent complete and is scheduled to be complete by June 2014. Phase 2 includes the remaining 10.5 miles of pipeline. Preliminary design is 45 percent complete and is scheduled to be complete by November 2014.
- Cathodic Protection—Installation of cathodic protection systems is a proactive and cost-effective measure to inhibit corrosion of buried metallic pipes, while reducing the risk of costly emergency repairs.
  - \* Second Lower Feeder Cathodic Protection—This project installs 30 stray current drain stations along a 14-mile portion of the Second Lower Feeder. Construction is 15 percent complete and is scheduled to be complete by November 2014.
  - \* Sepulveda Feeder North Cathodic Protection—This project installs 23 stray current drain stations along a 15-mile portion of the Sepulveda Feeder. Construction is 80 percent complete and is scheduled to be complete by June 2014.
  - \* Sepulveda Feeder South Cathodic Protection—This project installs 22 stray current drain stations along an 8-mile portion of the Sepulveda Feeder. Construction is five percent complete and is scheduled to be complete by August 2014.

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

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

#### Weymouth ORP

- Weymouth ORP—Construction of the Stage 1 ORP facilities is 49 percent complete and is scheduled to be complete by late 2016. In December 2013, Metropolitan's Board authorized a construction contract change order for Stage 2 of the Weymouth ORP. With this addition, the ozone treatment capacity of the Weymouth plant will increase from 260 million gallons per day to the full plant capacity of 520 mgd. Design of the Stage 2 facilities is 92 percent complete and construction is scheduled to be complete by late 2016. (see photo on page 7)
- Weymouth ORP Chemical Facilities—These chemical systems are needed for integration of the upcoming ozonation system into the Weymouth plant's treatment process. Final design of the sulfuric acid system is complete.

#### **ENGINEERING**

#### **Water Treatment Plant Reliability Programs**

These programs maintain reliability and improve operating efficiency of Metropolitan's five water treatment plants through specific improvement projects. Recent activities include the following:

#### Mills Plant

• Electrical Upgrades, Stage 1—This project replaces electrical equipment, providing backup in the event of component failures, and upgrades the electrical system to be consistent with current codes and industry practices. Final design is 24 percent complete and is scheduled to be complete by December 2014.

#### Jensen Plant

- Electrical Upgrades, Stage 1—This project replaces electrical equipment, providing backup in the event of component failures, and upgrades the electrical system to be consistent with current codes and industry practices. Final design is 48 percent complete and is scheduled to be complete by January 2015.
- Jensen Module No. 1 Filter Surface Wash Upgrades—This project replaces the existing surface wash system with a new fixed nozzle system. During filter backwashing, the top surface of a filter bed is sprayed with water to break up solids that build up during the filtration process. Construction is 55 percent complete and is scheduled to be complete by December 2014.
- Jensen Washwater Tanks Seismic Upgrades—This project upgrades two washwater tanks to increase their capability to withstand a major earthquake. Construction is seven percent complete and is scheduled to be complete by December 2014.

#### Weymouth Plant

- Filter Building Seismic Upgrades—This project structurally upgrades Filter Buildings No. 1 and 2. Construction is 55 percent complete and is scheduled to be complete in December 2014. A partial shutdown to install new concrete piers commenced in January 2014 and is scheduled to be complete in March 2014.
- Filter Rehabilitation—This project replaces the internal components of the Weymouth plant's 48 filters, including the underdrains, media, launder troughs, and surface wash systems. Preliminary design has been completed. Final design is 50 percent complete and is scheduled to be complete by September 2014.

#### Diemer Plant

- Electrical Upgrades, Stage 2—This project replaces electrical equipment, improving backup capability, and upgrades the electrical system to be consistent with current codes and industry practices. Construction is 11 percent complete and is scheduled to be complete by March 2016.
- Basin Rehabilitation—This project rehabilitates or replaces deteriorated equipment in the Diemer plant's eight flocculation and sedimentation basins, including the basin inlet gates, flocculator systems, launders and weirs, and the sludge pumping system. Final design is 95 percent complete and is scheduled to be complete by June 2014.
- Yorba Linda Power Plant Turbine Replacement—This project at the Diemer plant replaces the existing Pelton hydraulic turbine with a Francis turbine capable of operating under post-ORP hydraulic conditions, and modifies the electrical configuration to use the power on-site to meet energy demands of the Diemer plant. The new turbine is scheduled to be delivered by May 2014. Construction is 10 percent complete and is scheduled to be complete by August 2015.

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

This program enhances the reliability of Metropolitan's water distribution system and reduces the risk of costly emergency repairs of PCCP lines. Recent activities include the following:

- Second Lower Feeder Near-Term Repairs at Sites 1 and 2—This project lines 1,400 feet of distressed PCCP segments with a steel liner. The Site 1 construction was complete in February 2014. The Site 2 construction will commence in May and is scheduled to be complete by July 2014.
- Second Lower Feeder Repairs at Site 3—This project lines 4,900 feet of distressed PCCP segments with a steel liner. The Notice to Proceed was issued to the contractor in April 2014 and construction is scheduled to start in November 2014. (see photo on next page)

#### **ENGINEERING**

#### **CRA Reliability Programs**

These programs maintain reliability of the Colorado River Aqueduct. Recent activities include the following:

- CRA Sand Trap Rehabilitation—This project replaces deteriorated sand trap equipment located upstream of the Iron Mountain, Eagle Mountain, and Hinds pumping plants. Final design is scheduled to be complete by May 2014.
- 6.9kV Switch House Building Seismic Upgrades—This project provides seismic upgrades to the 6.9kV switch houses at all five CRA pumping plants. The switch houses contain electrical equipment that are used to stop and start the main pumping plant motors. Preliminary design is 90 percent complete and is scheduled to be complete by June 2014.
- CRA Radial Gates—This project replaces eight corroded radial gates located along the CRA. The gates are needed to dewater and isolate various reaches of the aqueduct. Preliminary design is complete and a request to the Board for authorization of final design is planned for May 2014.
- CRA Canal Improvements—This project improves curbs and lining along portions of the open canal. Preliminary design is complete and a request to the Board for authorization of final design is planned for May 2014.
- Whitewater Siphon Protection—This project improves control structures which protect the CRA's Whitewater Siphons from erosion by the Whitewater River. Final design is 60 percent complete and is scheduled to be complete by June 2014.

#### Right of Way and Infrastructure Protection Program

This program performs needed site improvements within the distribution system such as erosion protection and addresses right-of-way issues such as access easements and third-party encroachments. Programmatic environmental permits will be pursued throughout the entire conveyance and distribution system. The current status is as follows:

- Orange County Region—Preliminary design of improvements has been completed. Staff is preparing responses to comments received from the notice of preparation for the draft EIR. A request to the Board for authorization of final design is scheduled for July 2014.
- Western San Bernardino Region—Preliminary design of improvements is 70 percent complete and is scheduled to be complete by June 2014. A request to the Board for authorization of final design is planned for July 2014.
- Los Angeles County Region—Preliminary site investigations have been completed. A request to the Board for authorization of preliminary design is planned for July 2014.
- Riverside and San Diego County Region—Field investigations and preparation of an assessment report are 15 percent complete and are scheduled to complete by October 2014.



PCCP Repair—Trimming Seam of Collapsible Steel Liner Story on page 6.



Weymouth ORP—Installation of Cooling Water Pipe Story on page 5.

#### **BUSINESS TECHNOLOGY**

#### Deploy smart technologies and innovative business services to enhance efficiency

The UNIX Server Upgrade—Staff completed initial configuration and testing of the database environments on the new Itanium Unix servers. Once this phase is complete, the next key milestone is to plan the migration process for moving 80 application databases from the old system server to the new. Migration efforts are scheduled to begin in June. This upgrade will enhance reliability as the existing units are reaching end of their normal expected life.

## Business Processes and Information Technology

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

IT Network Reliability Upgrade—As part of requirements gathering, staff conducted a comprehensive assessment/inventory of key IT infrastructure components (e.g., network routers, switches and UPS) that are reaching end-of-life. This effort involved the Headquarters Building, field, desert and remote sites spanning over 70 locations. This information is needed to prepare the scope of work for the upcoming IT Network Reliability Upgrade Project to replace end-of-life equipment, which is critical to ensuring the reliability of the IT infrastructure.

Hydraulic Modeling Project—IT staff working with Engineering and Water System Operations staff conducted user acceptance testing of the first phase of the hydraulic model of the conveyance and distribution system. The new hydraulic modeling tool will support Metropolitan's Prestressed Concrete Pipe Replacement Program by allowing technical staff the capability to model a variety of conditions and construction options on the distribution system

Laboratory Information Management System (LIMS) Upgrade—Continue to support Water System Operations by enhancing and upgrading core water quality applications. An upgrade to Metropolitan's Laboratory Information Management System is needed to maintain priority vendor support and software currency. LIMS is used for tracking, and manages water quality samples and results for water quality compliance and operational monitoring. Software development and testing is proceeding according to plan, with deployment of upgrades beginning in June.

Supervisory Control and Data Acquisition Master Plan—As a part of enhancing system reliability, IT staff worked in close collaboration with Water System Operations and Engineering to complete the Water Systems Control Master Plan. This Plan will coordinate the operational and business needs of Metropolitan's SCADA System. This effort was a culmination of interviews, internal and external research, technical investigations, and workshops that resulted in a comprehensive capital and operations and maintenance program.

## Continue innovative sustainability efforts in business practices including Spring Green, Our Legacy Newsletter, the Rideshare Program, energy conservation and recycling efforts

Coordination of the 7th Annual Spring Green Expo and ECO Innovators Showcase (college competition) is nearing completion with the event scheduled for May 1. This event is open to Metropolitan staff, member agencies and the surrounding community. This year's expo will feature 35 vendor exhibits, 34 student exhibits from 19 universities/ colleges, and workshops on turf removal, California landscaping, and water efficient irrigation.

#### **BUSINESS TECHNOLOGY**

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

Support of Member Agencies, State of California, and the Southern California Business and Veteran Business Communities

- On April 25, Metropolitan, received the NAWBO Ventura County's BRAVO Award for Corporate Leader/Partner of the Year.
   The award recognizes Metropolitan as a leader in its industry who has a proven commitment to NAWBO Ventura County, has created opportunities for women employees as well as women business owners in the Ventura Business Community, and is an outstanding corporate role model.
- The Inland Empire Utilities Agency along with Business Outreach continued its partnership and support for the National Association of Women Business Owners at the NAWBO Inland Empire's Amazing Women of the Inland Empire Awards Ceremony.
- Metropolitan's Business Outreach was invited by the Los Angeles Department of Water and Power to present their programs on Innovation and Technology Program to 70 water managers at their monthly meeting. Staff demonstrated how the H2O TECHCONNECT Smart Matchmaking Tool Accelerating Connections in Technology, is used to support Metropolitan's Long-Term Conservation Plan and Innovative Conservation Program. Staff also discussed the benefits of the Technical Approval Group, the H2O TECHCONNECT Portal, and the H2O TECHTALK.
- Business Outreach partnered with the State of California Public Utilities Commission and supported the Los Angeles Business
  Community by representing Metropolitan at the 2014 CPUC Small Business Expo held in Los Angeles. Metropolitan
  participated in How to Do Business with the Government workshops, exhibited at the event and participated in one-on-one
  matchmaking.
- Business Outreach supported Metropolitan's Service Disabled Veteran-Owned Business Enterprise Program by speaking in Laguna Niguel to over 70 companies at the Elite Service Disabled Veterans Business Training and Networking Event.

Business Outreach continued to develop a uniform online Small Business Certification System with public agency partners. This month's activity:

• The Business Outreach program partnered with The Port of Long Beach, The City of Long Beach, MetroLink and Planet Bids and had two group meetings for users to accomplish the goals of adopting uniform Small Business Certification Procedures, streamline processes, solve SBE Certification issues, and apply best practices in SBE Certification.

Business Outreach staff conducted workshops, conferences and expos, on How to Do Business with Metropolitan. This month's event:

• San Diego Regional Minority Supplier Development Council - Navigating Government, Agency and Private Sector Contracting

Support for Water Industry, Member Agencies, and Innovation and Technology Community

- Metropolitan hosted the 5th meeting of the Technical Approval Group on April 16. The Group identifies emerging water technologies and accelerates their entry to the marketplace. Some of technologies being piloted are: biofouling zebra and quagga mussels; UV treatment technology; earthquake resistant pipes; and leak burst/detection and reduction.
- Business Outreach participated in the California Water Policy Conference by introducing Metropolitan's new H2O TECHCONNECT Smart Connection Community to conference attendees.
- As part of Business Outreach's continued effort with innovation and technology, staff had the opportunity to see demonstrations of Remotely Operated Vehicles. These vehicles offer a cost-effective approach to inspecting potable water areas and automated aerial crop surveys for efficient water usage. (see photo to the right)



#### Operate system reliably

System Operations delivered approximately 164,000 acre-feet of water to meet member agency demands in April, which averaged approximately 5,465 AF per day. This was an increase of about 1,000 AF a day from March. Warm temperatures in April led to a significant increase in demand. water deliveries for April totaled 67,000 AF or 40 percent of total deliveries for the month. In April, 105,000 AF of Colorado River water was pumped as the CRA remained on an eight-pump flow for the entire month. This was the highest amount of Colorado River water delivered in a single month in more than three years. State Water Project imports averaged 1,435 AF per day in April for 43,000 AF for the month. System Operations continued the strategy of minimizing the use of State Water Project water. The use of CRA water accounted for 71 percent of Metropolitan's deliveries.

SWP blends to the Weymouth, Diemer, and Skinner plants remained at zero percent for the month of April. The Greg Avenue pump station operated continuously in April delivering a total of 4,700 AF of CRA water since the unit was placed online. Perris pumpback operations also continued for the month of April. A total of 3,400 AF of water was pumped from Lake Perris to the Mills plant to meet demands in the Riverside area.

System Operations continued to maximize power generation throughout the month. In April, Metropolitan's hydroelectric plants generated an average of 18 megawatts per hour for 13,400 megawatt hours for the month. This was a decrease of 3,000 megawatt hours from March as a result of not operating HEPs that use State Project Water.



**System** Reliability—Operate and maintain the water and power systems in a cost-effective manner to ensure reliable delivery of water supplies.

#### Optimize maintenance

On April 11, staff responded to a leak alarm from the San Gabriel Pressure Control Structure located on the Lower Feeder in the city of Norwalk. The leak occurred within a week of the magnitude 5.1 La Habra earthquake. Staff arrived on site and discovered the flow from the leak, estimated at 1,500 gallons per minute, was flooding the structure. After isolating and dewatering the pipeline and structure, the source of the leak was found to be a ruptured 4-inch drain line in a sump. Crews repaired the leak by entering the larger 30-inch diameter pipe and welding a 12-inch diameter steel plate over the drain line outlet. The Feeder was returned to service within 3.5 days, minimizing the effects to member agencies. (see photos below)



Inundation of the San Gabriel PCS on the Lower Feeder



Welding the 12-inch diameter steel plate

#### Optimize maintenance continued...

The La Verne Shops manufactured a stainless steel, multi-nozzle gate for the finished water reservoir outlet gate at Jensen. The gate contains 41, six-inch diameter nozzles that will improve flow control for the Sepulveda Feeder when the Greg Avenue pump station is running. (see photos to right—flow control gate with tubes under construction at La Verne shops)

Staff performed grading work near the northeastern fence line at the Weymouth treatment plant. Five hundred feet of perimeter was compacted and graded to slope away from the neighboring property. These improvements minimize the amount of storm water that leaves the plant site and provides a planting strip for a new landscaping buffer.



Ensuring the reliability of the pumping plants includes protecting structures and equipment from storm damage. During last year's monsoonal events in the desert, over two inches of rain fell in less than two hours at the Eagle Mountain pumping plant. The rapid erosion of the slopes caused rock slides above the plant and the 2,300-volt switchyard. As a preventive measure, staff restored existing and added new drainage channels, and added hillside settling basins. Additionally, 400 tons of rock was placed above the buildings and switchyard to stabilize the slope and improve drainage during heavy rainfall events. (see photos below)



Re-grading of access roads and rock placement



Added drainage channels

Staff completed coating work on valves and piping at the Diemer plant and the WR-34 service connection on San Diego Pipeline No. 5. This work was completed as part of the system-wide coatings program aimed at preventing corrosion and extending the life of pipelines and infrastructure. Advanced coating methods were used to provide protection from open-air elements and moisture in the substructures. (see photos to the right)



#### **Optimize maintenance**

During regular patrols along the Colorado River Aqueduct, staff found seepage (wet soil) adjacent to one of the CRA siphons. The siphons are sections of concrete pipe that allow the aqueduct to dip down under natural drainage courses and roads in the desert. Crews assessed the site and amount of seepage and determined that the Aqueduct could remain in service while repairs were completed. The area around the transition structure was excavated, exposing a small leak from the concrete joint where the rectangular transition structure connects to the rounded siphon section. To complete the repairs, a water-curing sealant was injected into the joint. The sealant expands to provide a permanent repair. Small leaks of this nature occur occasionally along the CRA due to temperature changes and minor ground movement. (see photos below)



Excavation of the Siphon Transition Structure to expose the seepage point along the CRA



Repaired leak site after sealant injected into joint

#### Effectively manage power system and optimize generation

During March, Metropolitan made forward energy purchases to support Colorado River Aqueduct pumping requirements in April 2014. A total of 30,400 megawatt hours of energy were purchased for approximately \$980,000. The purchases were for off-peak energy. Payment for the energy is made after confirmation of delivery.

On April 4, Metropolitan submitted comments to the California Air Resources Board on modifications to proposed Cap and Trade regulation amendments. The modifications provided a slight increase in the number of free carbon allowances to be provided to Metropolitan as originally proposed by CARB on September 4, 2013. Metropolitan believes the modified number of allowances proposed by CARB is still not adequate and in the April 4 comments provided an alternative methodology to determine the appropriate number of allowances for Metropolitan.

#### Support water resource programs

The La Verne Shops refurbished the pump shaft and impeller assembly for the California Department of Water Resources Oso Pumping Plant Unit 4. The work included performing measurements on various surfaces of the shaft and impeller, polishing the bearing journal, installing and polishing the shaft sleeve, coating all water contact surfaces with a high solids epoxy, and balancing the complete shaft and impeller assembly. (see photo to the right of finished refurbished shaft and impeller assembly)



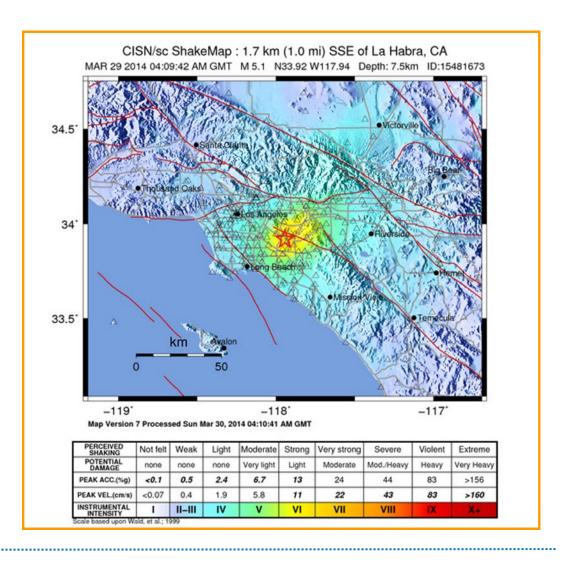
#### Improve security and emergency response

Staff responded to two moderate-sized earthquakes in late March; a magnitude 4.4 quake on March 17 in Encino at 6:25 a.m., and a larger magnitude 5.1 quake in the city of La Habra on March 28 at 9:09 p.m. Emergency Management staff quickly responded to each earthquake by dispatching patrollers to survey the distribution system and inspect critical facilities (i.e., water treatment plants) for any damage. Metropolitan facilities sustained no damage from either earthquake. (see photo below)

The hazardous materials teams from Riverside and Los Angeles County Fire Departments conducted emergency exercises at Metropolitan's water treatment plants in April. The Riverside County team performed various chemical incident drills at the Skinner plant on April 23 and April 24. The Los Angeles County team performed its emergency exercises at the Weymouth plant on April 24. These types of coordinated exercises allow outside emergency response agencies to become familiar with Metropolitan facilities and key members of staff to improve upon emergency response times.

Metropolitan emergency responders continued to train and conduct emergency exercises. The Western Region Incident Command Center held a functional exercise on April 21. The two-hour exercise focused on managing the initial response to a local earthquake. During the exercise, the Western ICC drafted its initial Incident Briefing and Incident Action Plan, and communicated with Metropolitan's Emergency Operations Center in Eagle Rock via radio. These type of exercises are conducted at all Incident Command Centers throughout the year.

Image of the "ShakeMap" produced by the U.S. Geological Survey for the magnitude 5.1 La Habra earthquake on March 28, 2014 at 9:09PM.



#### Provide technical support to member agencies

Metropolitan provided member agencies with the 2013 Annual Water Quality Report which provides water quality monitoring data for Metropolitan's source waters and treatment plant influents and effluents.

The State Administration has proposed a July 1, 2014 transfer of the Drinking Water Program from the California Department of Public Health to the State Water Resources Control Board to consolidate and align the state's water quality programs. Metropolitan staff will continue to track progress of the transition.

#### Fully comply with water quality, safety, and environmental regulations

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



Water Quality, Environmental and Safety—Develop and implement comprehensive programs to ensure Metropolitan delivers water that meets or exceeds all water quality regulations and objectives. Integrate effective safety and environmental practices to protect workers and the environment.

#### Protect source water quality

Remediation of the large perchlorate plume continues at the former Tronox site in Henderson, Nevada. On April 3, a \$5.15 billion settlement was reached in a lawsuit involving Tronox and site predecessors regarding legacy environmental liabilities. The settlement represents one of the largest environmental recoveries in history. Approximately \$1.1 billion will be directed to the Nevada Environmental Response Trust to clean up perchlorate and other contamination at the Henderson site. This settlement will ensure adequate funds are available for full remediation of the site and protection of the downstream Colorado River. Metropolitan continues to closely coordinate with the Trust and other Colorado River stakeholders on the site's clean-up efforts.

Production of earthy/musty taste-and-odors (geosmin) increased at the surface of Diamond Valley Lake. The geosmin levels below the surface were generally less than 10 ng/L and well within acceptable levels. The surface bloom is a mixture of cyanobacterial species that cannot be readily treated. Staff continues to monitor the bloom and recommends optimal tiers for releasing water when needed. A large cyanobacterial bloom developed in Lake Perris that required adjustments to treatment at the Mills plant. The California Department of Water Resources performed a copper sulfate treatment on April 17 to manage the algae bloom in Lake Perris.

#### Optimize water treatment and distribution

State Water Project target blends at the Weymouth, Diemer and Skinner water treatment plants remained at zero percent for April. Flow-weighted running annual averages for total dissolved solids for February 2013 through January 2014 were 530, 539, and 507 mg/L for Weymouth, Diemer and Skinner plants, respectively.

#### Prepare for future regulations

On April 16, 2014, the California Department of Public Health (CDPH) filed the final regulation for hexavalent chromium (also known as chromium-6) with the Office of Administrative Law. The maximum contaminant level of 10 parts per billion remains unchanged from CDPH's earlier proposal. Assuming the same schedule as with past regulations, the maximum contaminant level will become effective on July 1, 2014, and water utilities must comply by the end of 2015.

Metropolitan's source and treated water supplies remain below the maximum level and will require no additional treatment. However, member and retail agencies could be impacted by the new standard if they are using groundwater containing naturally occurring or industrial sources of chromium-6 above 10 ppb. This may slightly increase demand for Metropolitan's imported water until the local supplies can be blended or treated below the standard.

Strategic Priority: **Employee Development**—Provide management and employee development to meet the changes in the workplace resulting from increased retirements, changing skill requirements, and priorities. Ensure employees and managers are prepared to effectively carry out their roles and are provided opportunities to prepare for promotional opportunities and future positions. Foster learning and performance-oriented approach throughout the organization. Enhance efforts to find, develop and place internal talent to fill vacancies to provide needed skills.

#### **Human Resources Excellence**

Ensure Metropolitan is a high performance workplace with excellent leadership and management practices engage employees; foster alignment with Metropolitan's business goals; provide the right talent and skills for future business needs; and establish where workplace employees implement cost-effective processes and programs to deliver outstanding value and customer support.

#### **HUMAN RESOURCES**

#### Foster learning and organizational development

- Continued demonstrations of the SkillSoft online learning curriculum at various field sites.
- Delivered the following classes: Success Signals Understanding Personality Styles at Work, Performance Conversations, and 5Choices to Extraordinary Productivity.

#### Foster management excellence

- Facilitated a *Moving into Management* panel discussion at the Weymouth plant for new managers.
- Delivered the first day of a two-day pilot class on Leading Technical People for 20 Engineering Services and Information Technology managers.
- Began preparations for the July 10 Management Forum by discussing various management topics including Metropolitan business directions, and seeking outside experts for discussion on engaging employees and preparing for a multi-generational workforce.

#### Workers' Compensation costs

- Conducted initial investigations on 20 injury incidents.
- Submitted 5 new claims to Metropolitan's workers' compensation claim administrator.
- Settlements were negotiated in 1 claim, finalized in 3 claims, and 7 claim files were closed.
- Arranged 8 medical evaluations (DMV, medical surveillance, hearing conservation, etc.).
- Coordinated random drug/alcohol tests at two facilites.
- Addressed 3 accommodation issues.

.....

 Conducted MedVan evaluations at Headquarters, Hinds, Eagle Mountain, Iron Mountain, Gene and Weymouth facilities.

#### Manage compensation

- Reviewed bargaining unit proposal on compensation adjustments. Performed market analysis on benchmark jobs to determine salary competitiveness.
- Updated minimum qualifications of an entry level position to enhance candidate pool for recruitment process.

## Maintain compliance and effectiveness in benefits programs

Worked with management and CalPERS to ensure consultant contracts with retired employees are in compliance with new PEPRA/PERS rules.

#### Identify, assess and manage risk

The Risk Management Unit completed 75 incident reports communicating instances of Metropolitan property damage, liability, workplace injuries, regulatory visits and spills.

Risk Management completed 74 risk assessments on contracts, including professional service agreements,

construction contracts, entry permits, special events and film permits.

## Provide proactive, swift, and consistent employee relations and positive labor relations

- During April, Employee Relations staff worked with the Legal Department and outside counsel on two administrative hearings. The first was a Hearing Officer appeal, which challenged Metropolitan's creation of a Director of Information Technology classification, outside of the Management and Professionals Association bargaining unit. The second was an Unfair Labor Practice charge, filed with the Public Employment Relations Board, charging retaliation for engaging in union activities.
- In April, Employee Relations staff also took part in discussions with the bargaining units to address various questions and concerns regarding Metropolitan's Voices Employee Survey, which is currently underway.
- HR coordinated another successful Service Awards luncheon for 56 employees with 20 or more years of service.

#### REAL PROPERTY DEVELOPMENT & MANAGEMENT

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

- Staff obtained consent from California Department of Transportation and the Federal Aviation Administration for proposed encasement of a portion of the Upper Feeder. This work will accommodate a new proposed rail line for Union Pacific Railroad in the city of Fontana.
- Staff provided property research, valuation, and planning support to Bay Delta Initiatives related to potential near- and long-term projects in the Delta.
- Staff continues to work with Legal and Engineering Services to develop strategies for evaluation the adequacy of right of way for repair projects within the Distribution System Infrastructure Protection Program for Orange County.

Seek revenue-generating opportunities for real estate assets in several market segments—telecommunications, solar development, film production, and sustainable technology and research

- An existing lease for passive greenbelt purposes on a portion of the Foothill Feeder Rialto Pipeline Right of Way in the city of San Bernardino was assigned from Pine Trail Partners, LLC, to FH II, LLC.
- An entry permit previously issued to California Department of Transportation was amended to expand the area and adjust the rent for a construction staging area on a portion of Metropolitan's Sepulveda Feeder right of way near the Sepulveda Canyon Pressure Control Structure.
- A permission to enter was issued to Jarrett Edwards Outdoors, Inc., for filming of fishing activities at Diamond Valley Lake. Jarrett Edwards Outdoors, Inc. produces a fishing show dedicated to western waters locations and the two-day filming scenes at DVL will promote Diamond Valley Lake by raising public awareness of lake rules, regulations, quagga mussel inspections, weather, fishing activities and other water-related information.

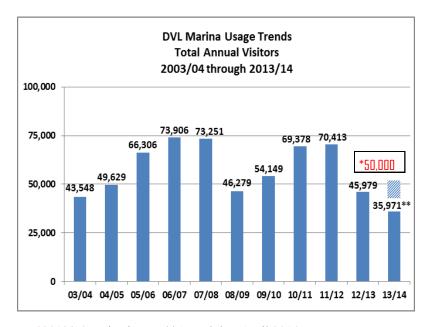


Real Property Acquisition,
Management and Revenue
Enhancement—Manage
Metropolitan's real property assets
with a focus on revenue
enhancement while ensuring that
Metropolitan's core operations are
protected. Acquire real property for
future operational business needs.

# Pursue development of the Diamond Valley Lake area, including the Visitor Center and marina, into the creation of an area that supports recreation, provides leasing and revenue opportunities, and provides benefits to Metropolitan and the surrounding community

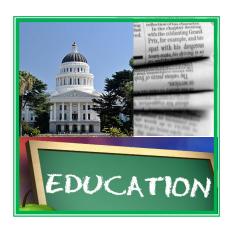
A meeting was held at Diamond Valley Lake with students from the California State Polytechnic University, Pomona's Regional and Urban Planning Program who presented a situational analysis for land use alternatives regarding the Visitors Center and surrounding properties at DVL, integrating watershed and usage elements designed to create long-term revenues and sustainability practices for Metropolitan's property interests.

In Fiscal Year 2013/14, Metropolitan has received \$34,009 through March on the percentage lease with Urban Park Concessionaires for the operation of the DVL Marina and the Lakeview Trail. The rent received represents seven percent of the gross receipts. Diamond Valley Lake has hosted approximately 629,000 visitors at its marina facilities and 149,000 private boats have launched since the 2003 public opening.



\*2013/14 Projection

\*\*Actual thru April 2014



## Legislative, Communications and Community Relations

Develop federal and state legislative strategies consistent with board-adopted policies and ensure clear, consistent communications (internally and externally) about Metropolitan's operations, policies and programs through multimedia communication efforts and effective educational and other outreach programs.

#### **EXTERNAL AFFAIRS**

Continue to develop and implement local, state, and federal water policy and legislative strategies consistent with board-adopted policies

#### **Federal**

- On April 1-3, Metropolitan staff joined Directors Ackerman and Griset in attending the 2014 Federal Affairs conference for the National Water Resources Association. The conference included meetings with key Members of Congress, House and Senate Committee staff and Administration officials to discuss Metropolitan's ongoing interest in promoting funding for Bay Delta Conservation Plan activities, in addition to salinity and watershed protection of the Colorado River system.
- On April 9-11, Chief Operating Officer Debra Man briefed Members of Congress and U.S. Environmental Protection Agency officials in Washington, D.C. in her capacity as a Director of the National Water Research Foundation.
- On April 10, management met with Representative Grace Napolitano to discuss potential drought response legislation concepts including expanding current federal recycled water and conservation programs.
- On April 14-15, management provided a congressional briefing on federal water policy objectives for Members of Congress in coordination with the Inland Empire Economic Partnership.

#### Local

- On April 10, Metropolitan staff briefed the Compton Chamber of Commerce Board of Directors on the Bay Delta Conservation Plan, providing an overview of water supply reliability and how to comment on the BDCP public Draft and EIR/EIS.
- On April 24, Metropolitan staff briefed the California Water Environment Association, LA Chapter, on the BDCP. CWEA is a non-profit organization dedicated to educating wastewater professionals about water policy.

#### State

- Metropolitan took the lead in organizing and coordinating the opposition of 43 business organizations and water agencies to defeat AB 1671 by Assembly Member Jim Frazier (D-Antioch). The bill sought to require legislative approval of the construction of any Delta facility to convey water from north Delta intakes by tunnel to pumping facilities in the South Delta. Mr. Frazier pulled his measure from being heard by the Assembly Water, Parks and Wildlife Committee on April 8.
- SB 1130 by Senator Richard Roth (D-Riverside) continues to move forward after endorsement by two policy committees in the Senate. If the bill becomes law, Eastern Municipal Water District and Elsinore Valley Municipal Water District, Western Municipal Water District and Metropolitan would be granted immunity from liabilities associated with the assumption of service from the County Water Company of Riverside.
- There are ten water bond measures pending in the Legislature, ranging from a total of \$5.8 billion to \$9.45 billion general obligation bonds. Staff is working to encourage the Legislature to craft a balanced bond package that meets the Board's bond priorities, can achieve two-thirds endorsement by the Legislature, the approval of the Brown Administration and ultimate approval by the electorate.

#### **EXTERNAL AFFAIRS**

Continue to develop and manage public information and education programs in coordination with member agencies to convey clear and consistent messages about Metropolitan's mission and other issues, including water supply/delivery, resource planning, water quality protection and conservation

#### Media and Communications

- Arranged interview with Director Record and the Jarrett Edwards Outdoors, Inc. cable program to discuss the importance of Metropolitan's Diamond Valley Lake as a key Southern California drinking water reservoir.
- Arranged interview with General Manager Kightlinger and San Jose Mercury News reporter for a story about proposed state water bonds.
- Set up interview with Water Resources Management Group Manager Upadhyay and Circle of Blue reporter for a story about the state's drought action plan and how it may affect Metropolitan.
- Arranged an interview with KABC-TV Channel 7 reporter and Metropolitan representatives at a home with many water-saving devices and California Friendly landscaping to promote water conservation.
- Set up interview with San Francisco Business Times reporter and a Metropolitan representative for a story about the growth and importance of water recycling in Southern California.
- Provided information and photos of the Robert B. Diemer Water Treatment Plant to American Infrastructure Magazine for a story about the facility for the magazine's spring issue.
- Set up interview with Metropolitan's Colorado River Resources Manager Hasencamp and KABC-TV Channel 7 reporter to discuss possibility of a pilot project to fund voluntary water use reductions in the Colorado River Basin.
- Complied with a number of public record act requests seeking information about Metropolitan expenses, salaries and other financial matters.
- Issued press releases about the death of John V. Foley, two-time chairman of the Metropolitan Board of Directors; the start of Metropolitan's water conservation advertising campaign on radio; the approval of a two-year budget by the Metropolitan Board of Directors; and the appointment of Richard Atwater, representing Foothill Municipal Water District, to the Metropolitan Board of Directors.
- Launched interim conservation advertising campaign on April 1 with 15-second and 10-second traffic radio spots on water conservation messaging for residents and will run through May 18 in English, Spanish, and Chinese. Radio station formats include: Top 40, Contemporary, Alternative, Rock, Country, News/Talk and Sports. Spots will run throughout the day and in peak drive-time periods in traffic reports, new, or weather.
- There were more than 60,000 visits to bewaterwise.com in March 2014. There were nearly 40,000 visits to bewaterwise.com from April 1-15, 2014.
- Online search on Google Search and the Google Content Network continues this month. Links to bewaterwise.com appear when keywords such as "water," "California weather," and "water rebates" are searched for by Southern California users.

#### **Education**

- There were approximately 3,300 unique visits to the Education website from March 16, 2014 April 15, 2014.
- Staff met with a representative from the Russian Regatta who plans to replicate Metropolitan's Solar Cup program in Russia. Staff continues to attend school visits and prepare for Solar Cup, May 16-18, 2014.
- Diamond Valley Lake Education Program—Staff conducted 4 workshops for about 140 elementary and middle school students; facilitated 2 school workshops for roughly 125 students and facilitated 9 tours for the Western Science Center, for nearly 500 students in grades K-12.
- Student Art Program—Staff is working on the 2015 Calendar Art Program. Member Agency submissions are due to Metropolitan by June 2014.
- Staff facilitated or assisted with water conservation information booths at County Water Festival, the Los Angeles County Sanitation Districts Earth Day event, the Topanga Elementary School Earth Day event, the Perris Community Water Conservation Festival and Career Day for Mountain View Elementary School.

#### **EXTERNAL AFFAIRS**

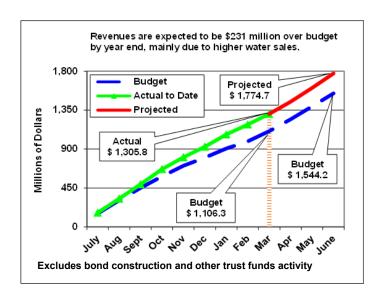
Support board member and executive management communications and working relationships with elected officials, other government leaders, business and community leaders and other stakeholders

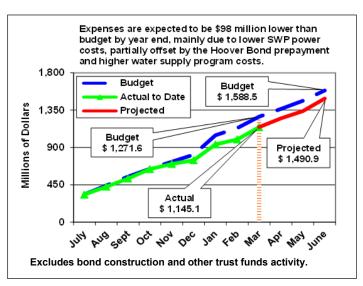
- On April 16, Directors De Jesus, Morris, Atwater and staff attended the San Gabriel Valley Economic Partnership 14th Annual Legislative Network Reception which featured Congressional and state legislative leaders, including Representatives Grace Napolitano, and Judy Chu, Senators Ed Hernandez and Norma Torres, and Assembly Member Freddie Rodriguez.
- On April 16, Director Touhey, staff, and 80 community leaders attended the El Monte/South El Monte Chamber of Commerce community workshop featuring Representative Grace F. Napolitano who spoke about water policy and related legislation moving through Congress.
- On April 23, Director Friedman and staff attended the Valley Industry and Commerce Association's Congressional Lunch at the Hilton Universal Hotel. The event was attended by five Congressional Representatives and 300 business leaders from the San Fernando Valley.
- On April 24, Chief Operating Officer Debra Man spoke at the Annual Water Summit hosted by the Building Industry Association of Southern California's Greater Los Angeles and Ventura Chapter discussing the California drought, water supply reliability and the need for the BDCP.
- On April 24, Directors Peterson and Blois attended the annual Water Symposium held by the Association of Water Agencies of Ventura County at the Courtyard Hotel in Oxnard. Metropolitan was a cosponsor of the event along with Calleguas Municipal Water District.
- On April 25, Director LeFevre and staff attended the Los Angeles Business Council's annual Sustainability Summit held at the Getty Museum. Bay Delta Initiatives Manager Arakawa served on a panel on regional water issues at the conference which also featured Governor Jerry Brown, Los Angeles Mayor Eric Garcetti, California State Senator Kevin DeLeon, and other leaders.

Coordinate communication and outreach to various stakeholders (including local government agencies and utilities) regarding water supply system operations and maintenance; water quality protection and water treatment; infrastructure replacement, refurbishment and development and emergency management

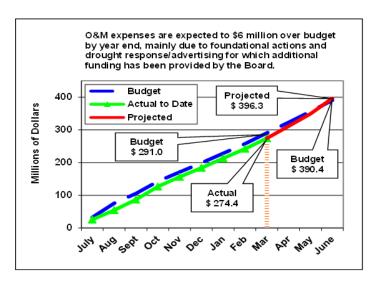
- Staff provided outreach to approximately 1,600 residents and businesses for the Etiwanda Pipeline North Liner Repair in Rancho Cucamonga.
- Staff provided outreach to approximately 650 residents in Long Beach for the Second Lower Feeder Site 2 Urgent Repair.
- Staff provided outreach to Norwalk residents and businesses regarding the leak at the San Gabriel Pressure Control Structure on the Lower Feeder.

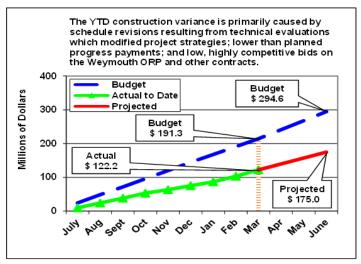
#### **FINANCIAL SUMMARY AS OF MARCH 31, 2014**





\*Expense budget includes Board-approved increases for Water Supply Programs and the R&R fund of \$25M each.







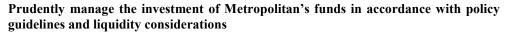
Summary Financial Statistics				
	Target	Year-End Projected		
Fixed Charge Coverage	≥ 1.20 x	2.20 x		
Revenue Debt Service Coverage	> 2.00 x	2.77 x		
Revenue Bond Debt / Equity Ratio	< 100.0%	63.5%		
Credit Ratings				
	Target	Actual		
- Moody's Investors Service	Aa2	Aa1		
- Fitch Ratings	AA	AA+		
- Standard & Poor's	AA	AAA		

#### **FINANCE**

**Financial Management**—Assure member agencies, rating agencies, the legislature, and the public that Metropolitan is effectively managing the public's finances through consistent, clear, and timely financial policies and reporting. Update Metropolitan's capital financing plans and work with rating agencies and investors to communicate Metropolitan's financial needs, strategies, and capabilities thus ensuring Metropolitan has cost-effective access to capital markets and the ability to finance ongoing future needs. In addition, actively manage Metropolitan's short-term investment portfolio to meet ongoing liquidity and investment challenges

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

Financial activities are recorded in a timely and transparent manner.



Staff continues to provide the necessary liquidity for Metropolitan's operational and capital expenditures with no loss of principal and no policy violations, while generating a portfolio return that exceeded the benchmark.



STRATEGIC PRIORITY— Improve Financial Position

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

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

Staff and consultant completed development of the survey for the Business Impact Analysis. The survey was distributed in an online format to about 300 employees on April 3. At least seven all-day help sessions were conducted for employees wanting assistance on a walk-in basis. Data collection was essentially completed on April 21. Analysis of the results commenced the week of April 21.

Storage		
	As of 4/30/14	Percent of
	Storage (AF)	Capacity
DVL	567,082	70%
Lake Mathews	103,716	57%
Lake Skinner	39,613	90%

#### **Useful information:**

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

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

**TAF**=thousand acre-feet

MAF=million acre-feet

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

General Manager: Jeffrey Kightlinger 700 No. Alameda Street, Los Angeles, CA 90012

Office of the GM No.: 213 217-6139 General No.: 213 217-6000

Email: OfficeoftheGeneralManager2@mwdh2o.com www.mwdh2o.com www.bewaterwise.com