

MEETING OF THE BOARD OF DIRECTORS OF THE  
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY  
Jointly with the  
**PLANNING & OPERATIONS COMMITTEE**  
January 4, 2021, 8:30 a.m.

**Due to the spread of COVID-19 and as authorized by the Governor's Executive Order, MWDOC will be holding all upcoming Board and Committee meetings by Zoom Webinar and will be available by either computer or telephone audio as follows:**

**Computer Audio:** You can join the Zoom meeting by clicking on the following link:  
<https://zoom.us/j/8828665300>

<b>Telephone Audio:</b>	<b>(669) 900 9128 fees may apply</b>
	<b>(877) 853 5247 Toll-free</b>
<b>Webinar ID:</b>	<b>882 866 5300#</b>

**P&O Committee:**

Director McVicker, Chair  
Director Dick  
Director Yoo Schneider

Staff: R. Hunter, J. Berg, V. Osborn,  
H. De La Torre, T. Dubuque

Ex Officio Member: Director Tamaribuchi

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MWDOC Committee meetings are noticed and held as joint meetings of the Committee and the entire Board of Directors and all members of the Board of Directors may attend and participate in the discussion. Each Committee has designated Committee members, and other members of the Board are designated alternate committee members. If less than a quorum of the full Board is in attendance, the Board meeting will be adjourned for lack of a quorum and the meeting will proceed as a meeting of the Committee with those Committee members and alternate members in attendance acting as the Committee.

**PUBLIC COMMENTS** - Public comments on agenda items and items under the jurisdiction of the Committee should be made at this time.

**ITEMS RECEIVED TOO LATE TO BE AGENDIZED** - Determine there is a need to take immediate action on item(s) and that the need for action came to the attention of the District subsequent to the posting of the Agenda. (Requires a unanimous vote of the Committee)

**ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING** -- Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection in the lobby of the District's business office located at 18700 Ward Street, Fountain Valley, California 92708, during regular business hours. When practical, these public records will also be made available on the District's Internet Web site, accessible at <http://www.mwdoc.com>.

**PRESENTATIONS**

1. FY 2020-21 REVIEW OF DEPARTMENT EXISTING AND FUTURE PRIORITIES AND GOALS
  - a. Water Use Efficiency Department
  - b. Metropolitan Issues and Water Policy

- c. Reliability Planning & Engineering
- d. WEROC

## **DISCUSSION ITEMS**

- 2. UPDATE ON COVID-19 (ORAL REPORT)
- 3. CONSIDERATION OF SANTA ANA RIVER CONJUNCTIVE USE AND CONSERVATION PROGRAM (SARCCUP) AGREEMENT (ORAL REPORT)

## **ACTION ITEM**

- 4. ISDOC 3<sup>RD</sup> VICE PRESIDENT CALL FOR NOMINATIONS

**INFORMATION ITEMS** (The following items are for informational purposes only – background information is included in the packet. Discussion is not necessary unless a Director requests.)

- 5. WEROC COORDINATOR POSITION
- 6. LOCAL LEGISLATIVE ACTIVITIES
  - a. County Legislative Report (Lewis)
  - b. Legal and Regulatory Report (Ackerman)
- 7. APPROVAL OF AMP CAPACITY FLOW EXCEEDANCE REQUEST – SOUTH COAST WD & THE CITY OF SAN CLEMENTE
- 8. APPROVAL OF AMP CAPACITY FLOW EXCEEDANCE REQUEST –CITY OF SAN JUAN CAPISTRANO
- 9. OC-70 STATUS UPDATE
- 10. UPDATE/STATUS OF MWDOC BUILDING CONSTRUCTION
- 11. SCHOOL PROGRAM UPDATE
- 12. STATUS REPORTS
  - a. Ongoing MWDOC Reliability and Engineering/Planning Projects
  - b. WEROC
  - c. Water Use Efficiency Projects
  - d. Public and Government Affairs
- 13. REVIEW OF ISSUES RELATED TO PLANNING OR ENGINEERING PROJECTS, WEROC, WATER USE EFFICIENCY, FACILITY AND EQUIPMENT MAINTENANCE, WATER STORAGE, WATER QUALITY, CONJUNCTIVE USE PROGRAMS, EDUCATION, PUBLIC AFFAIRS PROGRAMS AND EVENTS, PUBLIC INFORMATION PROJECTS, PUBLIC INFORMATION CONSULTANTS,

## DISTRICT FACILITIES, and MEMBER-AGENCY RELATIONS

**ADJOURNMENT**

**NOTE:** At the discretion of the Committee, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated, and may be subject to action by the Committee. On those items designated for Board action, the Committee reviews the items and makes a recommendation for final action to the full Board of Directors; final action will be taken by the Board of Directors. Agendas for Committee and Board meetings may be obtained from the District Secretary. Members of the public are advised that the Board consideration process includes consideration of each agenda item by one or more Committees indicated on the Board Action Sheet. Attendance at Committee meetings and the Board meeting considering an item consequently is advised.

Accommodations for the Disabled. Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning Maribeth Goldsby, District Secretary, at (714) 963-3058, or writing to Municipal Water District of Orange County at P.O. Box 20895, Fountain Valley, CA 92728. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.



**PRESENTATION**  
**January 4, 2021**

**TO:**           **Planning & Operations Committee**  
(Directors McVicker, Yoo Schneider, Dick)

**FROM:**       **Robert Hunter, General Manager**

**SUBJECT:**   FY 2020-21 REVIEW OF DEPARTMENT EXISTING AND FUTURE  
PRIORITIES AND GOALS

**STAFF RECOMMENDATION**

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Staff recommends the Planning & Operations Committee receive and file this report.

**COMMITTEE RECOMMENDATION**

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Committee recommends (To be determined at Committee Meeting)

**SUMMARY**

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Specific departmental priorities and goals were established as part of the FY2020-21 budget process. The purpose of these presentations is to summarize the progress made on those goals, discuss the schedule for completion and identify likely new goals for FY2021-22.

In the detailed department reports below, staff provides an update of the departments near-term and mid-term priorities.

**DETAILED REPORT**

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Presentations of the department priorities and goals will be made at two January 2021 committee meetings.

Planning & Operations Committee – January 4, 2021

- Reliability Planning & Engineering
- Metropolitan Issues & Water Policy
- Water Use Efficiency
- WEROC

<b>Budgeted (Y/N):</b> n/a	Budgeted amount: n/a	Core ✓	Choice ✓
<b>Action item amount:</b> n/a	Line item:		
<b>Fiscal Impact (explain if unbudgeted):</b>			

Administration & Finance Committee – January 13, 2021

- Public Affairs
- Government Affairs
- Finance & IT
- Human Resources & Administration

Input from these discussions will be incorporated into the FY2021-22 budget process.

## 2020 Department Priorities

**Department: Water Use Efficiency and Water Loss Control**

### Near-Term (1-2 years)

- 1. Water Use Efficiency Program** - Continue to implement a broad variety of WUE Programs, available to all consumers throughout Orange County, with funding support from state and federal grants and Metropolitan's Conservation Credits Program.

  - Assist Member Agencies in complying with new standards that have been adopted through legislation (SB 555, SB 606, & AB 1668).  
Status: MWDOC continues to implement a broad variety of incentive and educational programs to increase the efficient use of water throughout the county.
  - Work with Metropolitan to shape their program offerings to maximize benefits to Member Agencies.  
Status: Staff is actively participating in Metropolitan's ongoing Program Advisory Committee to evolve and fine tune the program offerings.
  - Secure grant funding for program implementation.  
Status: The Department was awarded \$3.6 million in Proposition 1 Integrated Regional Watershed Management grants. Staff is also waiting on a funding decision for an additional \$2 million from the Bureau of Reclamation Water Smart grant program.
  
- 2. Technology Transfer & Research** – Support Member Agency compliance with WUE regulations by researching new water saving opportunities and communicating those opportunities.

  - Conduct research to evaluate existing programs, develop new programs, and enhance our ability to meet new WUE standards and to shape those standards.  
Status: Ongoing.
  - Provide Landscape Area Measurements for dedicated irrigation meters to agencies to assist with compliance.  
Status: Staff is completing an RFP process to hire a consultant to assist Member Agencies with dedicated irrigation meter area measurements. Staff anticipates bringing this item to the Board for action in March 2021.
  - Assist all agencies in assigning Standard Industrial Codes (SIC) to businesses throughout OC.  
Status: Pending direction from DWR.
  - Assess Orange County's indoor residential water use through an end-use study to gauge compliance with the 55 gpcd indoor residential standard.  
Status: Board authorization for the End Use Study was granted in February 2020; however, implementation of the study is now on hold due to the Covid-19 public health emergency.
  - Assess Member Agency's capabilities to meet new landscape WUE standards.

	<u>Status:</u> Pending direction from DWR.
3.	<p><b>Water Loss Control Shared Services</b> – Increase subscription rate and performance to assist Member Agencies with compliance of emerging water loss regulations.</p> <ul style="list-style-type: none"> <li>Provide services to respond to evolving water loss standards being developed by the State Water Board including Water Balance Validation, Leak Detection, Pressure Surveys, and Meter Accuracy Testing. <u>Status:</u> Staff has completed 286 of 610 miles of leak detection, 26 water balance validations, meter accuracy testing for four of eight agencies, and is preparing to conduct 40 pressure surveys for two agencies.</li> <li>Secure grant funding to offset direct costs to member agencies for shared services and technical assistance. <u>Status:</u> Staff has been accessing Metropolitan Conservation Credits to offset the cost of leak detection to member agencies. Due to the success of MWDOC's leak detection services, Metropolitan is now in the process of formalizing a new program that will offer a fixed leak detection incentive accessible to all Metropolitan agencies.</li> </ul>
4.	<p><b>Water Loss Control Technical Services</b> - Support member agencies by facilitating water loss control technical assistance and compliance with emerging water loss regulations.</p> <ul style="list-style-type: none"> <li>Select a Technical Assistance consultant specializing in water loss to provide technical assistance to Member Agencies through a competitive selection process. <u>Status:</u> The Board authorized continuation of the Technical Assistance Program in December 2020.</li> <li>Maintain Water Loss Control Work Group to elevate member agency staff understanding and internal capabilities and to share their needs. <u>Status:</u> Ongoing.</li> </ul>
5.	<p><b>Legislation &amp; Regulatory Process Leadership</b> – Utilize MWDOC's research efforts and program implementation experience to guide and influence water use efficiency and water loss legislation, regulation, and the standards setting processes.</p> <ul style="list-style-type: none"> <li>Work with DWR and State Water Board to ensure new standards are properly interpreted and are workable. <u>Status:</u> Staff has been providing input to State Water Board staff to shape the water loss standard on an ongoing basis, and anticipates the rulemaking process will begin by March 2021 with formal adoption in July 2021. Once adopted, staff will then shift to assisting member agencies with the development of water loss model inputs customized to each retail agency.</li> <li>Maintain and expand MWDOC's role in Department of Water Resources and State Water Board working groups including Urban Water Management Plan (Harvey), Water Loss Control (Joe) and Water Use</li> </ul>

	<p>Studies (Rachel W.) and other technical work groups.</p> <p><u>Status</u>: Ongoing. Working groups began meeting in spring of 2020 and are anticipated to continue to meet into 2023. DWR is scheduled to deliver residential irrigated area measurements to OC agencies by spring of 2021. Staff will assist agencies to QC area measurement data provided by DWR.</p> <ul style="list-style-type: none"> <li>• Develop recommendations on potential WUE and WLC related legislation.</li> </ul> <p><u>Status</u>: Ongoing. Due to the Covid-19 public health emergency, legislation focusing on water use efficiency has not been a priority.</p>
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Department: Water Use Efficiency and Water Loss Control	
Mid-Term (3-5 years)	
1.	<p><b>Member Agency Compliance Assistance</b> - As enforcement of new conservation standards will begin in the next 3-5 years, MWDOC will provide retail agencies with needed programs, tools and research to ensure compliance.</p> <ul style="list-style-type: none"> <li>• Continue general program implementation.</li> <li>• Implement appropriate Commercial, Industrial and Institutional Performance Measures for standards compliance.</li> <li>• Develop dedicated irrigation meter landscape area measurements and irrigation budgets for standards compliance.</li> <li>• Assist member agencies with separately metering mixed-use CII Meters to measure indoor and outdoor water use independently.</li> <li>• Research and develop new programs.</li> </ul>
2.	<p><b>Water Loss Control Shared Services and Technical Assistance</b> – Evolve Program in response to Member Agency needs and potential for provision of cost-effective services, either directly or through umbrella contracts.</p> <ul style="list-style-type: none"> <li>• Mission Statement of the Water Loss Work Group: “Striving to Achieve an Economically Optimized Level of Water Loss.”</li> <li>• Continue to evolve these services to benefit Member Agencies and achieve compliance with standards.</li> <li>• Work with Metropolitan to develop a consistent funding framework for water loss recovery.</li> </ul>
3.	<p><b>Legislation &amp; Regulatory Process Leadership</b> – Continue efforts to guide and influence water use efficiency and water loss legislation, regulation, and the standards setting processes.</p> <ul style="list-style-type: none"> <li>• It is anticipated that efficiency standards will be revisited on a periodic basis for drought response or Conservation is a California Way of Life.</li> </ul>



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|  | <ul style="list-style-type: none"><li>• MWDOC can play a key role in conducting research and applying knowledge to shape future standards and legislative and regulatory processes.</li></ul> |
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## Department Priorities & Goals

Metropolitan (MET) Issues and Water Policy	
Near-Term (1-2 years)	
Area of Focus	Major Goals
MET Budget & Rates	<p>1. MET's FY 2020-21 &amp; 2021-22 biennial budget and rate structure review.</p> <p>Evaluated &amp; supported MET's revised budget with reduced rate increases as the result of COVID-19 impacts and lower water sales projections. This was supported under the notion that it maintained MET's long term financial health</p> <p>Analyzed &amp; supported MET's staff cost containment actions in response to COVID-19, including the development of a member agency payment deferment program.</p> <p>Advocated for the establishment of a new revenue collection mechanism to recover MET's Demand Management costs.</p>
	<p>2. Develop MWDOC recommendations in association with the current MET rate refinement process.</p> <p>Ensure a fair and equitable alternative Demand Management Funding mechanism is developed and can be adopted by the close of CY 2021 for inclusion in the next Biennial Budget.</p> <p>Provide recommendations on the list of rate refinement issues such as rate re-bundling, refinements to the Readiness to serve and Capacity Charge, surplus year storage and incentives, Purchase Order commitments, and availability of service charge.</p> <p>Identify key budget and rate structure issues for the next Biennial Budget</p>
MET Integrated Resource Plan Update	<p>3. Develop MWDOC recommendations on MET's 2020 Integrated Water Resources Plan (IRP).</p> <p>Actively participate in MET's 2020 Integrated Water Resources Plan (IRP) Update including IRP gap analysis, demand projections, and assessment of uncertainties.</p> <p>Participate in all MET staff technical and review workgroups.</p> <p>Provide feedback and direction to MET via letters and surveys on the technical analysis, approach, methodology, drivers, assumptions, proposed scenarios, and initial gap analysis.</p>

	<p>Provide oral and written feedback to ensure the 2020 IRP included robust outcomes that will be useful in determining an IRP Adaptive Management Strategy.</p> <p>Provide monthly updates on the IRP process and activities at our Joint Board Workshops, with our MET Directors, and to our Member Agencies to receive further direction and feedback</p>
Urban Water Management Plan	4. Complete and submit the 2020 Urban Water Management Plan (UWMP)
	<p><u>Completed</u></p> <p>As a member of State's advisory workgroup, staff provided feedback and proposed language for DWR's 2020 UWMP Guidebook.</p> <p>Established a cost share agreement with 21 MWDOC Member Agencies including the Cities of Fullerton and Santa Ana to hire a single consultant to update our 2020 UWMPs</p> <p>Currently managing the consultant team to ensure all participating agencies' UWMPs are properly coordinated and completed on time.</p> <p>Worked closely with MET staff on developing a member agency template for the "Reduced Reliance on the Delta" section of the 2020 UWMP</p> <p>Established a member agency workgroup to develop a Model Drought Ordinance to for the UWMP's Water Shortage Contingency section.</p> <p><u>Pending</u></p> <p>Review and provide feedback on MET's 2020 UWMPs</p> <p>Manage the consultant team on updating the Member Agencies' UWMPs.</p> <p>Ensure timely completion and submittal of MWDOC's and member agency's UWMPs to DWR by July 1, 2021.</p> <p>Develop a Model Drought Ordinance for the member agencies use in the Water Shortage Contingency section of their UWMPs.</p>
Regional Resource Project Assessment	Assess development and cost benefits of new local and regional resource projects.
	<p>Evaluate and advocate for extraordinary supply credits when applicable</p> <p><u>Regional Recycled Water Program</u></p>

	<p>Evaluated the operational and financial configuration for the Regional Recycled Water Program at Carson.</p> <p>Advocated &amp; supported the preparation of environmental documentation and technical studies for the program.</p> <p>Provided oral and written support of the partnership between MET and the Southern Nevada Water Authority in the program, including SNWA's financial contribution in the program's environmental planning efforts.</p> <p><u>Santa Ana River Conservation and Conjunctive Use Program</u></p> <p>Participated in the development of the MET-SARCCUP Agreement.</p> <p>Currently in discussion with MET and the other SARCCUP agencies on the opportunity for MWDOC to directly participate in the program.</p> <p><u>Strand Ranch Water Banking Program</u></p> <p>Held discussions with IRWD in the evaluation of the cost-benefits of a district-wide Stand Ranch Water Banking Program for MWDOC member agencies.</p> <p>Considered the benefits to the MWDOC service area with respect to both Drought and Emergency allocation needs.</p>
Imported Supply Activities	<p>5. Monitor activities relating to imported supplies, including California Water Resilience Portfolio; Delta Conveyance next steps and analysis of cost estimates; and startup of Colorado River Lower Basin's new interim guidelines.</p>
	<p><u>Delta Conveyance Project</u></p> <p>Monitor and report on Delta Conveyance Project planning activities, current operations and restrictions, and project related litigations.</p> <p>Analyze Delta Conveyance cost estimates, projected operations and yield.</p> <p>Monitor the monthly Delta Conveyance Design and Construction and Finance Joint Powers Association meetings.</p> <p>Submitted both oral and written comments on the Delta Conveyance Notice of Preparation for the development of the Environmental Impact Report.</p> <p>Provided information and support to our Member Agencies on key activities of the upcoming Delta Conveyance environmental planning funding action and the progression the Delta Conveyance Project at MET.</p>

	<p>Organized and provided both oral and written comments in support of the Delta Conveyance Environmental Planning Funding action taken by MET.</p> <p><u>Colorado River Issues</u></p> <p>Monitor startup of Colorado River Lower Basin's new interim guideline discussions for 2026 including modifications to Intentionally Created Surplus (ICS).</p> <p>Monitor and report on monthly Colorado River Board meetings including the Drought Contingency Plan implementation and ICS storage activities.</p> <p>Monitor and report on salinity control issues in the lower Colorado River.</p> <p>Submitted a comment letter on the Paradox Valley Unit salinity control program draft environmental impact statement.</p> <p><u>Completed - California Water Resilience Portfolio</u></p> <p>Reviewed the California Water Resilience Portfolio and engaged in discussions with the State Water Resources on the portfolio actions.</p> <p>Submitted written comments on the draft document and its key action recommendations within MWDOK's purview.</p>
<b>Area of Focus</b>	<b>Additional Goals</b>
Local Resources Program	6. Support Local Resource Development within Orange County
	<p>Held discussions with MWDOK Member Agencies on potential new local resource projects that may be eligible for LRP funding.</p> <p>Helped to secure incentive funding for nearly 23 TAF of water produced by Member Agency's Local Resource projects through Metropolitan's LRP program.</p>
MET GM Recruitment	7. Monitored the MET General Manager recruitment process
	<p>Participated in stakeholder public workshops as well as MET Member Agency discussions so they may provide input to MET (via surveys and letters) on the attributes and criteria of selecting the next General Manager at MET.</p>
Member Agency Activities	8. Strengthen coordination amongst agencies.

	<p>Advocate and facilitate cooperation between member agencies to reach shared goals</p> <p>Recommend measures and actions to strengthen working relationships at staff and Board level.</p> <p>Collaborate with other fellow MET member agencies on MET water policy issues.</p>
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**Department: Metropolitan Issues and Water Policy**

**Mid-Term (3-5 years)**

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| 1. | <b>Regional Supply Reliability</b> - Advocate for upcoming regional projects and programs that enhance the water reliability for Orange County and Southern California while seeking to ensure MWDOC's investments are cost effective and meet Orange County's objectives.   |
| 2. | <b>Policy Advocacy</b> - Evaluate efficacy of implementation strategies to achieve MET's 2020 IRP reliability goals (for example: monitor indicators of what/when policy modifications are needed, or such as what level of program activity is needed or if Local Resources Program evaluation criteria is needed). |
| 3. | <b>Drought Resiliency</b> - Seek areas of improvements in MET's Water Supply Allocation Plan that will properly reflect the credits/actions a drought resiliency project or program provides for in Orange County.   |
| 4. | <b>System Resiliency</b> - Following the completion of the 2020 IRP, Metropolitan will embark on a system evaluation study. MWDOC will engage in this process to ensure Orange County interests and concerns are properly incorporated in the study.   |

## FY 2021-22 Department Priorities

Department: Reliability Planning & Engineering	
Near-Term (1-2 years)	
1.	<b>Complete the Admin Building Seismic Retrofit &amp; Remodel</b>
	<ul style="list-style-type: none"> <li>Bring the retrofit &amp; remodel to completion – current completion date is anticipated by November 2021.</li> </ul>
2.	<b>Coordinate a final agreement/determination of MET's ownership and maintenance responsibilities in the South County Pipeline</b>
	<ul style="list-style-type: none"> <li>Work with SMWD and MET to come to a final agreement/determination of MET's ownership and maintenance responsibilities in the SCP.</li> <li>This is a multi-year effort.</li> </ul>
3.	<b>Complete a Pilot Project for Emergency Use of East Orange County Feeder #2 (EOCF#2)</b>
	<ul style="list-style-type: none"> <li>Develop the necessary protocols with MET and others to enable use of EOCF#2 to convey local water supplies to SOC during emergencies and to return the pipeline back to MET upon recovery from an emergency               <ul style="list-style-type: none"> <li>Requires coordination and agreement with EOCF#2 JPA members on member rights.</li> </ul> </li> <li>Secure workable MET requirements for emergency use of EOCF#2. This is likely a two-year effort to complete protocols with MET.</li> <li>Complete a pilot emergency use test and return of the EOCF#2 to MET.</li> </ul>
4.	<b>Complete the next OC Reliability Study Update</b>
	<ul style="list-style-type: none"> <li>Periodic updates of the OC Water Reliability Study are anticipated as new information becomes available on changing conditions and projects. An update may be triggered as MET completes the update of its IRP.</li> <li>Currently an update is anticipated in FY 2022-23.</li> </ul>

Department: Reliability Planning & Engineering	
Mid-Term (3-5 years)	
1.	<b>Coordinate and complete a regional planning review of future regional pipeline system operations in SOC</b>
	<ul style="list-style-type: none"> <li>There are number of pending changes in SOC which will impact regional pipeline operations. Member agencies have expressed interest in looking at the regional system as a whole and scoping out various modeling scenarios to determine future operational impacts to the system from:</li> </ul>



	<ul style="list-style-type: none"> <li>○ Changes in retail agency operations (SJC Annexation, new Service Connection for El Toro WD, increased use of recycled water)</li> <li>○ Augmentation of the Emergency Services Program (installation of Variable Frequency Drives in IRWD system and/or use of EOCF#2)</li> <li>○ AMP near term and future AMP flow capacity vs existing AMP flow capacity rights</li> <li>○ New project impacts</li> <li>● Initial focus will be on use of the new OC Hydraulic Model for determination of the current and future capacity in the AMP, and identification of water aging issues as operations change. Potential for use of the OC Hydraulic model to monitor water aging on a regular basis. The value is in improved reliability and assistance to our member agencies in the prevention of unintended consequences.</li> </ul>
<b>2.</b>	<b>Coordinate and Facilitate Extended Shutdowns of the Allen McColloch Pipeline (AMP) Prestressed Concrete Cylinder Pipe (PCCP) Rehabilitation Project</b>
	<ul style="list-style-type: none"> <li>● The AMP has approximately 9 miles of PCCP that will be relined as part of a MET-wide PCCP rehabilitation program. This will require several long duration shutdowns (up to 6 months for each event). <ul style="list-style-type: none"> <li>○ MWDOC will work with member agencies and MET to determine how best to operate the import system without the AMP, to meet the needs of the agencies during the multiple shutdowns.</li> <li>○ The hydraulic model will prove useful in this effort. MWDOC will also assist with identification and negotiation of specific project modifications (i.e., pump stations, interconnections, short segments of pipeline additions) that may reduce program costs for MET and reduce the impacts of these shutdowns to MWDOC member agencies.</li> </ul> </li> </ul>
<b>5.</b>	<b>Enhance the Bureau of Reclamation's Salinity Economic Impact Model (SEIM)</b>
	<ul style="list-style-type: none"> <li>● Collaborate with MET, OCWD, SDCWA, and other MET member agencies to implement enhancements to the SEIM so it can become a valuable tool for MWDOC member agencies. <ul style="list-style-type: none"> <li>○ Phase 1 improvements will provide retail agency level of detail into the model as well as the ability to analyze individual project impacts to salinity levels at the retail level. Anticipate Phase 1 completion and MWDOC staff training in FY 2021-22.</li> <li>○ Phase 2 - Work with the Southern California Salinity Coalition (through MET, OCWD, and SDCWA) to have SCSC complete additional research studies to improve SEIM's existing formulas to provide a more comprehensive inclusion of salinity economic impacts in Orange County. Anticipate completion of Phase 2 in FY 2023-24.</li> </ul> </li> </ul>

## 2020/2021 Department Priorities

Department: WEROC	
Near-Term (1-2 years)	
1.	<p><b>Enhance Response Readiness</b> - Maintain WEROC and OC water and wastewater agencies in a state of readiness to respond to emergency situations. Key aspects include staffing, training, exercises, a complete update of the</p> <ul style="list-style-type: none"> <li>• This priority is the foundation to build upon agency resiliency and is on-going.</li> </ul>
2.	<p><b>Operating &amp; Strategic Plan Review</b> – Assess the current operations and future direction &amp; goals of WEROC and implement appropriate actions.</p> <ul style="list-style-type: none"> <li>• Written Project – completed</li> <li>• Presentation to the MWDOC Board of Directors – completed</li> <li>• Presentations and discussions with Funding Agencies and Member Agencies - Ongoing</li> <li>• Implementation process identified as a 2021 Department Priority.</li> </ul>
3.	<p><b>Cyber Security Communication</b> – Complete Cyber Security emergency notification secondary and tertiary communication paths for IT personal among the WEROC member agencies using AlertOC and Social Media platforms.</p> <ul style="list-style-type: none"> <li>• Communications Group created - completed</li> <li>• Partnership with the OCIAC – completed</li> <li>• AlertOC notification group – completed</li> <li>• Social Media Account concept will not be moving forward.</li> </ul>
4.	<p><b>Public Safety Power Shutoff (PSPS) Coordination</b> – Complete the coordination work with SDG&amp;E as well as SCE for PSPS notification and mapping including providing water/wastewater infrastructure sites to utilities to aid in priority restoration.</p> <ul style="list-style-type: none"> <li>• Work closely with MWDOC Government Affairs because of the overlap – on going.</li> <li>• Establish relationships with SCE and SDGE since the legal change identifying water and wastewater as part of the notification – completed.</li> <li>• WEROC GIS capability to acquire SCE and SDGE maps and layers to track impact areas. SDGE – Completed SCE- 60% - carryover to 2021</li> <li>• Development and implementation of a WEROC PSPS Standard Operating Procedure – completed and used five times in 2020.</li> <li>• Collaboration with outside organizations such as the OC Operational Area, CPUC, COAST and CalOES to advocate for water agencies and their needs, including involvement in wildland fire interface and mitigation campaigns with outside agencies – on-going.</li> </ul>

5.	<p><b>Emergency Fuel &amp; Generators</b> - Develop emergency fuel delivery strategies for implementation by WEROC and its member agencies that utilize multiple sources of fuel, including refueling efforts for the generator at the MWDOC Administration building and the South EOC and contracts for local fuel stations to provide priority service in exchange for water agency support for emergency generators at the fuel stations. Assist our agencies in examining the need for additional emergency generators.</p> <ul style="list-style-type: none"> <li>• Project has been deferred to long term planning timeline based on the WEROC Assessment Report.</li> </ul>
6.	<p><b>Points of Distribution (PODS)</b> – Work with the County, water and wastewater agencies by region to establish the responsibilities, process and procedures for Points of Distribution (PODS) for water, medicine and other supplies to residents and businesses.</p> <ul style="list-style-type: none"> <li>• Commodities POD Project has been deferred due to COVID and other priorities.</li> <li>• WEROC Medical Dispensing (COVID19) POD planning - 75% completed.</li> </ul>
	<p><b>American Water Infrastructure Act Regional Project</b> – Complete final two tiers of the AWIA compliance project. Conduct a closeout audit and meeting with participating agencies.</p> <ul style="list-style-type: none"> <li>• Tier 1 - 100% completed</li> <li>• Tier 2 - 50% completed (100% Completion Due Date 6/2021)</li> <li>• Tier 3 – 0% completed (Set to begin 1/2021)</li> </ul>
	<p><b>Training &amp; Test Exercises</b> – Expand training and test exercise programs to improve the state of readiness and enhance seeking reimbursements following an emergency event.</p> <ul style="list-style-type: none"> <li>• Development of a 5-year training and exercise plan – completed</li> <li>• ICS Training Series (on-going - 5 classes conducted end of 2020. 14 classes scheduled in 2021)</li> <li>• Implementation of the new 5-year training and exercise program by incorporating new requirements including AWIA, on-going ICS trainings offerings (in house), water specific trainings, and development of a long term repeating exercise program incorporating water specific areas- 2021 priority – Not Started</li> </ul>
	<p><b>Emergency Communications Resilience</b> - Improve the resilience of communications tools such as radios, satellites, etc. to risks such as loss of power through natural or man-made events such as cyber security issues.</p>

	<ul style="list-style-type: none"> <li>• Training on new 800Mhz equipment installed in FY 2019-20 (completed 4 classes conducted)</li> </ul>
	<p><b>WEROC South Emergency Operation Center</b> – Finalize decision with ETWD regarding South EOC facility by working with funding agencies.</p> <ul style="list-style-type: none"> <li>• 2021 Priority - Not Started</li> </ul>
	<p><b>Planning</b> - Full implementation of the plan revision schedule.</p> <ul style="list-style-type: none"> <li>• 2021 Priority - Not Started</li> </ul>
	<p><b>Information Sharing Platform</b> - Develop, obtain, and implement a new WEROC platform to meet specific needs of the member agencies to securely store, maintain, and disseminate files and information.</p> <ul style="list-style-type: none"> <li>• 2021 Priority- Not Started</li> </ul>
	<p><b>GIS Platform</b> - Creation of a GIS dashboard allowing for visibility of information in a none-linear platform using open source information and current in house mapping information.</p> <ul style="list-style-type: none"> <li>• 2021 Priority - Not Started</li> </ul>
	<p><b>Logistics Plan</b> - Develop a Logistics Plan incorporating how personnel, supplies, and equipment are requested, procured, tracked, and supported within the WEROC Organization.</p> <ul style="list-style-type: none"> <li>• 2021 Priority - Not Started</li> </ul>
	<p><b>Cyber Security</b> - Develop and implement a Regional Cyber Security Coordination Annex as part the WEROC EOP.</p> <ul style="list-style-type: none"> <li>• 2021 Priority - Not Started</li> </ul>
	<p><b>Business Continuity Plan</b> - Revision of the Business Continuity Plan to ensure commonality with the WEROC Emergency Operations/Response Plan.</p> <ul style="list-style-type: none"> <li>• 2021 Priority - Not Started</li> </ul>

Department: WEROC

**Mid-Term (3-5 years)**

- |    |   |
|----|---|
| 1. | <b>Grants &amp; Funding Opportunities</b> - Look for funding opportunities from the Urban Area Working Group (UAWG) and other sources to fund/fulfill WEROC needs including additional generators, emergency water distribution water bags, supplies, mapping, training and technical expertise for setting up transfer switches at key facilities and to examine how WEROC operating efficiency can be improved. |
| 2. | <b>South Emergency Operations Center Infrastructure</b> – Implement the South EOC decision.   |
| 3. | <b>Non-Public Communication Channels</b> - Create templates for a Non-public (dark) webpage for use during post-disaster response and recovery.   |
| 4. | VEPO/WEROC Agreement Revision   |
| 5. | Hazard Mitigation Revision Project - 2023   |
| 6. | AWIA Revision Project - 2023  |
| 7. | Regional Fuel Project   |
| 8. | Creation of a Recovery Plan   |



**ACTION ITEM**  
January 20, 2021

**TO: Planning and Operations Committee**  
(Directors McVicker, Dick, and Yoo Schneider)

**FROM: Robert Hunter, General Manager**

Staff Contact: Heather Baez

**SUBJECT: ISDOC 3<sup>rd</sup> VICE PRESIDENT CALL FOR NOMINATIONS**

**STAFF RECOMMENDATION**

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Staff recommends the Board of Directors discuss and determine if a member of the MWDOC Board would like to be nominated as a candidate for the ISDOC Executive Committee 3<sup>rd</sup> Vice President and direct staff as appropriate.

**COMMITTEE RECOMMENDATION**

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Committee recommends (To be determined at Committee Meeting)

**REPORT**

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The Independent Special Districts of Orange County (ISDOC) has issued a Call for Candidates to fill the vacancy of the 3<sup>rd</sup> Vice President position. A formal announcement was recently distributed to all member districts via email and mail. The notice is attached for your reference.

Per the ISDOC Bylaws, officials who wish to seek election/appointment as an officer of ISDOC must first secure from their district an official endorsement in the form of a board resolution. In accordance with these Bylaws, the MWDOC Board must endorse a Director's candidacy through Resolution of the Board.

<b>Budgeted (Y/N):</b> n/a	<b>Budgeted amount:</b> n/a	<b>Core</b> X	<b>Choice</b> __
<b>Action item amount:</b> None	<b>Line item:</b>		
<b>Fiscal Impact (explain if unbudgeted):</b>			

Nominations for the ISDOC Executive Committee close on January 22, 2021 and all Board resolutions must be received at that time. The position will be filled via appointment by the ISDOC Executive Committee at their February 2, 2021 meeting.

## BOARD OPTIONS

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### Option #1

- Discuss if a member of the MWDOC Board of Directors would like to be considered for the 3<sup>rd</sup> Vice President position on the ISDOC Board.

**Fiscal Impact:** None

**Business Analysis:** MWDOC would have two members of their Board of Directors serving in a leadership position for ISDOC.

### Option #2

- Take no action

**Fiscal Impact:** None

**Business Analysis:** The ISDOC Executive Committee would continue to be served by MWDOC Board Member, Director Larry Dick.

## ATTACHED

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- ISDOC Call for Nominations, 3<sup>rd</sup> Vice President



December 11, 2020

## PLEASE DISSEMINATE TO ALL BOARD MEMBERS

### Mailing Address

P.O. Box 20895  
Fountain Valley, CA 92728

### Meeting Location

MWDOC/OCWD  
18700 Ward Street  
Fountain Valley, CA 92708

(714) 963-3058  
(714) 964-5930 fax

[www.mwdoc.com/isdoc](http://www.mwdoc.com/isdoc)

### Executive Committee

President  
Hon. Mark Monin  
*El Toro Water District*

1<sup>st</sup> Vice President  
Hon. Arlene Schafer  
*Costa Mesa Sanitary District*

2<sup>nd</sup> Vice President  
Hon. Larry Dick  
*Municipal Water District Orange County*

3<sup>rd</sup> Vice President

Secretary  
Hon. Greg Mills  
*Serrano Water District*

Treasurer  
Hon. Bill Green  
*South Coast Water District*

Immediate Past President  
Hon. Sandra Jacobs  
*Santa Margarita Water District*

### Staff Administration

Heather Baez  
*Municipal Water District of Orange County*

Christina Hernandez  
*Municipal Water District of Orange County*

Re: ISDOC Executive Committee 3rd Vice President Vacancy

This email shall serve as official notice and call for candidates to fill the vacancy for the 3rd Vice President position on of the Independent Special Districts of Orange County (ISDOC). The ISDOC Executive Committee will fill the vacancy by appointment.

Per the ISDOC bylaws, Article III Section II Point E: "With the exception of the immediate past president, if a vacancy occurs on the Executive Committee, the Committee shall, within 60 days from the commencement of the vacancy, either fill the vacancy by appointment or call a special election to fill the vacancy. A person appointed or elected to fill a vacancy shall hold office for the unexpired term of the former incumbent."

Nominations will close on **Friday, January 22, 2021 at 5:00 p.m.** Any Board Member/Trustee of a regular ISDOC member agency is eligible for nomination for this open position. Individuals who wish to be considered should submit a letter of interest, together with a resolution from their Board authorizing their candidacy. The appointment will be made by the ISDOC Executive Committee **on Tuesday, February 2, 2021.**

Responsibilities of the positions are as follows:

**THIRD VICE PRESIDENT:** The Third Vice President chairs the Legislative Committee. Duties include providing a legislative update, making legislative position recommendations to the Executive Committee, and in the absence of the President, First Vice President, and Second Vice President, shall perform all duties of the President.

Meetings of the Executive Committee typically occur on the first Tuesday of each month at 7:30 a.m. in the offices of the Municipal Water District of Orange County (MWDOC) in Fountain Valley. Due to COVID-19 restrictions, meetings are currently being held via teleconference until further notice.

If you are seeking nomination to the 3<sup>rd</sup> Vice President position on the Executive Committee, please send your letter/email of interest and a copy of your Board's authorizing resolution to Heather Baez at [Hbaez@mwdoc.com](mailto:Hbaez@mwdoc.com). All nomination requests must be received by **January 22, 2021.**

If you have any questions about the any of the positions or the election process, please contact either Heather Baez at [Hbaez@mwdoc.com](mailto:Hbaez@mwdoc.com) or Christina Hernandez at [Chernandez@mwdoc.com](mailto:Chernandez@mwdoc.com)

Sincerely,

*Sandra F. Jacobs*

Sandra F. Jacobs, President  
Independent Special Districts of Orange County





**COMMITTEE DISCUSSION ITEM**  
**January 4, 2021**

**TO:**           **Planning & Operations Committee**  
(Directors McVicker, Yoo Schneider, Dick)

**FROM:**       **Robert Hunter, General Manager**

Staff Contact: Vicki Osborn

**SUBJECT:   WEROC COORDINATOR POSITION**

**STAFF RECOMMENDATION**

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Staff recommends the Planning & Operations Committee review and discuss and provide direction to staff.

**COMMITTEE RECOMMENDATION**

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Committee recommends (To be determined at Committee Meeting)

**DETAILED REPORT**

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Over the last several months, the WEROC Assessment Report has been presented to the Committee for review and discussion. One of the issues raised was the need for additional staffing. One of the proposed recommendations for consideration was to make some organizational changes by promoting the current Sr. Administrative Assistant to the WEROC Coordinator position. The current Sr. Administrative Assistant has been providing assistance to the department for the last four years and has been performing more emergency management related responsibilities over the last 18 months due to staffing vacancies and changes in the department. During its December meeting, the Executive Committee recommended this item be presented to the January P&O Committee for review and discussion.

Generally, this item would not be presented for Board consideration since promotions are within the General Manager's authority however, with the WEROC programs being funded by other agencies, it was recommended the Committee review this item. The proposed

<b>Budgeted (Y/N): N</b>	Budgeted amount: n/a	Core ✓	
<b>Action item amount: n/a</b>		Line item:	
<b>Fiscal Impact (explain if unbudgeted):</b> Approximately a \$7,500 increase for salary and benefits for remainder of FY20/21.			

promotion does not impact the total number of budgeted positions however, it does impact the funding mix between MWDOC and WEROC. The cost associated with this item will be absorbed by MWDOC for the 20/21 fiscal year budget.

Current and Proposed Salary Range:									
Pay Grade	Dept	Exempt / Non-Exempt	Job Classification		Range Min	25th %	Range Mid	75th %	Range Max
R6	ADM	NE	Sr. Admin Assistant	annually	58,951	64,120	69,264	74,433	79,578
	PA	NE	Public Affairs Assist	monthly	4,913	5,343	5,772	6,203	6,631
	WUE	NE	Water Loss Control Programs Tech	hourly	28.34	30.83	33.30	35.79	38.26
R9	WUE	NE	WUE Analyst I	annually	73,227	79,652	86,051	92,476	98,875
	ADM	NE	Executive Assistant	monthly	6,102	6,638	7,171	7,706	8,240
	ENG	NE	Assoc. Water Resources Analyst	hourly	35.20	38.30	41.37	44.46	47.54
	FIN	NE	Accountant						
	WEROC	NE	WEROC Emergency Coordinator						

# The County of Orange Report

Prepared for the MWD OC P&O Committee

December 28, 2020  
by Lewis Consulting Group



## UPDATE

LAFCO and the Board of Supervisors will not meet again before the print deadline and meeting date for this committee. The February 2021 report will include what has happened with these two entities during the month of January.



## MORE POLLING

### **Californians and Their Economic Well Being - Part 2**

On December 5, 2020, the PPIC released its first post election survey, this one dealing with Californians' attitude about the state of the economy and how it affects them. We've decided to share more of the survey with this committee.

The survey of 1,700 Californians occurred between November 4-23. It has a margin of error +/- 3.3% with a 95% confidence level.

Do you think that during the next 12 months we will have good times financially or bad times?

- 31% good times
- 68% bad times
- 1% don't know

How would you describe your household's financial situation? Would you say you live comfortably, meet your basic needs with a little left for extras, just meet your basic expenses, or don't even have enough to meet basic expenses?

- 31% live comfortably
- 41% meet your basic needs with a little left for extras
- 24% just meet your basic expenses
- 4% don't even have enough to meet basic expenses

Do you think the gap between the rich and the poor in your part of California is getting larger, getting smaller, or has it stayed the same?

- 69% getting larger
- 6% getting smaller
- 25% stayed the same

Been laid off or lost their job?

- 12% yes, happened to me
- 12% yes, happened to someone in my household
- 3% yes, happened to me and someone in my household
- 72% did not happen to anyone in my household

Was not able to pay a monthly bill?

- 9% yes, happened to me
- 5% yes, happened to someone in my household
- 6% yes, happened to me and someone in my household
- 81% did not happen to anyone in my household

Had difficulty paying rent or mortgage?

- 8% yes, happened to me
- 5% yes, happened to someone in my household
- 6% yes, happened to me and someone in my household
- 80% did not happen to anyone in my household

Would you favor or oppose a government policy to eliminate college debt?

- 65% favor
- 35% oppose

How much, if at all, has your life been disrupted by the coronavirus outbreak?

- 39% a lot
- 39% some
- 17% just a little
- 5% not at all

Do you feel that worry or stress related to coronavirus has had a negative impact on your mental health, or not?

- 19% yes, major impact
- 32% yes, minor impact
- 49% no

How big of a problem is racism in the US today? Is it a big problem, somewhat of a problem, a small problem, or not a problem at all?

- 53% big problem
- 30% somewhat of a problem
- 11% small problem
- 7% not a problem at all

How much of a problem is the threat of wildfires in your part of California? Is it a big problem, somewhat of a problem, or not much of a problem?

- 53% big problem
- 34% somewhat of a problem
- 12% not much of a problem

Would you consider yourself to be politically:

- 11% very liberal
- 21% somewhat liberal
- 41% middle-of-the-road
- 18% somewhat conservative
- 8% very conservative



## Orange County COVID-19 Stats

ORANGE COUNTY COVID-19 STATS	AS OF 12/28/2020	AS OF 12/15/2020
CUMULATIVE CASES TO DATE	149,607	107,937
CUMULATIVE DEATHS TO DATE	1,846 <i>+ 151 in 13 days</i>	1,695
DEATHS REPORTED TODAY	0	1
CUMULATIVE TESTS TO DATE	1,996,251	1,754,327
TESTS REPORTED TODAY	20,307	34,205
CASES CURRENTLY HOSPITALIZED	2,031*	1,371 *
CASES CURRENTLY IN ICU	453 <i>+ 157 in 13 days</i>	296
CUMULATIVE RECOVERED TO DATE	82,710*	67,699 *

\* = INCLUDES *ICU* CASES

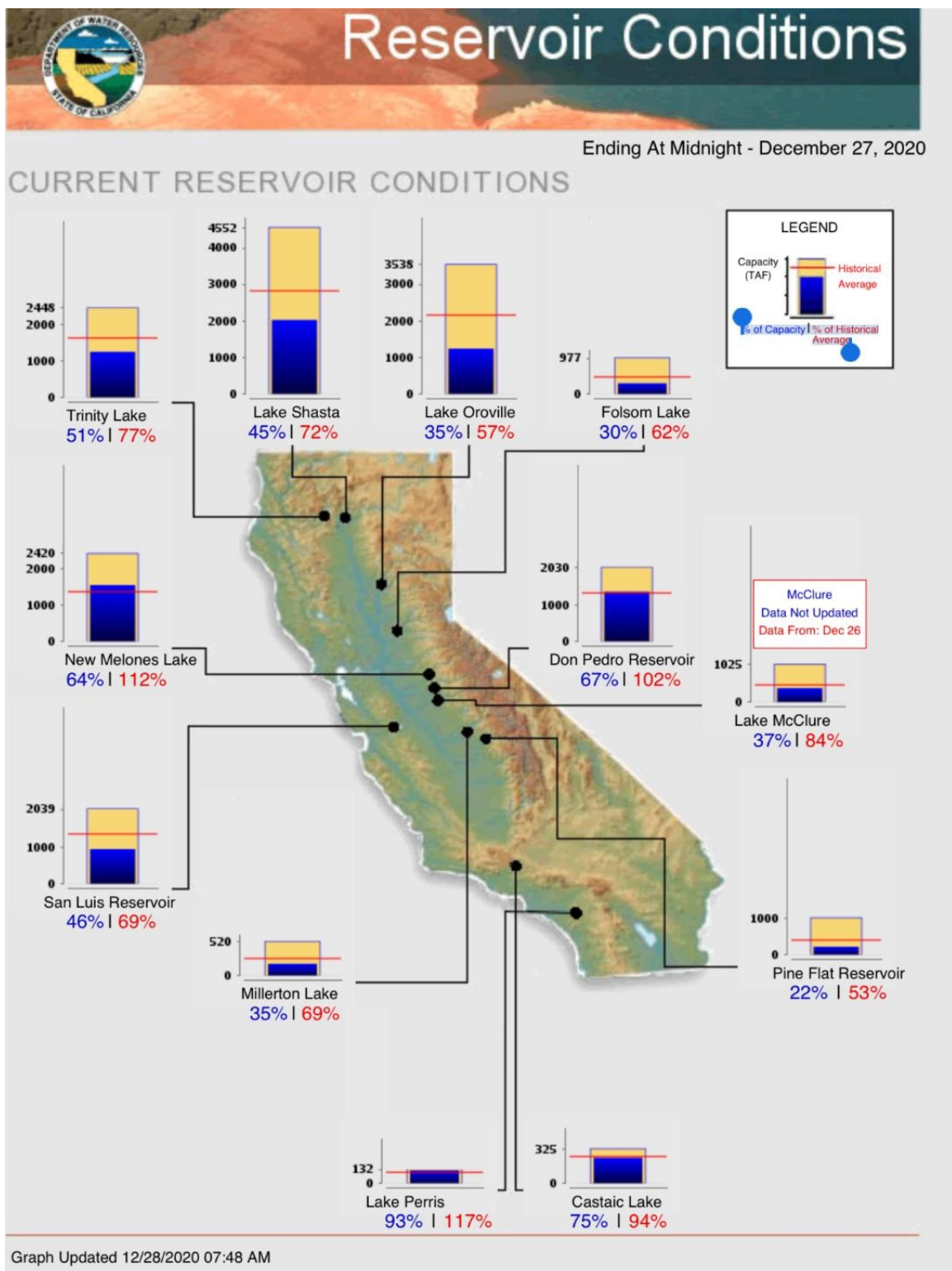


## Where Orange County Ranks

[as of 12/28/2020]

LOCATION	POPULATION	CONFIRMED CASES	DEATHS
CALIFORNIA	40,129,160	2,155,976	24,284
LOS ANGELES COUNTY	10,247,557	707,260	9,482
<b>ORANGE COUNTY</b>	<b>3,228,519</b>	<b>149,607</b>	<b>1,846</b>
RIVERSIDE COUNTY	2,468,145	171,995	1,829
SAN BERNARDINO COUNTY	2,217,398	186,776	1,437
SAN DIEGO COUNTY	3,370,418	145,777	1,402

# Northern Reservoirs Bears Brunt of Drought





# ACKERMAN CONSULTING

## Legal and Regulatory

January 4, 2021

1. **Ancient Water Systems:** Historians are showing every day that ancient water systems employed hundreds and even thousands of years ago, used much of the engineering and concepts that we think as modern. Gravity fed systems for irrigation started in the Tigris Euphrates area in Mesopotamia. Early Egyptians put a premium on safe drinking water they could use for beer. Folks along the Nile used alum in gravity filters for purify muddy water. This was the first know chemical treatment of water. Ancient Hindus used heat, sunlight and copper to make water safer. Cloth filtration and charcoal were very common. The use of earthen vessels to store water also aided in purification. Old Turkey had the Cisterna Basilica, a large cistern for storage. Inverted siphons, terracing is traced back 3000 years. They also concentrated on resilience and sought ways to avoid unplanned disruptions. While we apply much of our modern technology to water infrastructure today, many of the original ideas began many years ago.
2. **More Extreme Rainfall:** A recent UCLA study of scientists has predicted that what we used to call “hundred year storms” could become 33 year storms. The rate of greenhouse gas emissions could impact a high warming scenario. The warmer climates are predicted to produce more frequent and extreme rain events over time. It would particularly impact the western and southeastern parts of the US. This would put an additional 12 million Americans at risk of damage caused by the more frequent flooding. Additional infrastructure would be needed to avert these conditions. Much of the predicted damage also assumes population growth in impacted areas. Again, much of this study is based on modeling.
3. **Water Election Rights:** Many states and areas around the US have recently passed laws protecting rivers and water. Orange County, Florida just passed a measure to protect rivers and waterways from pollution. It gives citizens the right to file suit on behalf of the waterways to enforce these rights. Utah and Wyoming passed constitutional amendments relating to water supply and infrastructure. Colorado passed a property tax increase for water conservation and eco protection. Santa Clara County, California also passed a property tax to fund watershed projects. When it comes to giving specific rights to the water, at least one judge in Ohio has ruled it was “unconstitutionally vague”. Governor DeSantis in Florida just signed a law prohibiting giving legal rights and standing to the water. This new area of law seems to be heating up. Stay tuned.
4. **Biofilms Growth:** The University of Sheffield (England) has released a study on chorine and biofilms. They have suggested that a reduction in the amount of disinfectants, such as chlorine, that is added to the water may actually improve water quality and make systems more sustainable. Reducing the quantity of chlorine increases the formation of biofilms which is a good thing. Biofilms are microbes that form together on the walls of water transmission pipes. These biofilms, which can be controlled, produce very positive outcomes for the water



system. Biofilms are present in every water system throughout the world which is why this study can prove to be very important especially in more remote areas.

5. **More Water Wars:** Indian Wells Valley in the Ridgecrest, China Lake area is in the middle of the state's groundwater management wars. What used to be a remote, barren area has become the pistachio center of California and beyond. This \$1.6 billion industry uses groundwater to survive. The local plan is attempting to charge large fees to continue this practice. It is being challenged by the local agricultural communities and residents. A new player has sided with the environmental groups to support the restrictions. The Naval Air Weapons Station, China Lake, has weighed in to protect its water rights and need to have adequate supplies. Litigation is in full force and the Board of Supervisors is trying to forge a deal. The battle will continue.
6. **Biosolids Market:** The Orange County Sanitation District is building a \$300 million temperature phased anaerobic digestion facility. This will be a class A biosolid facility which means there will be a market for land usage for this product. While I am not a scientist, this sounds like a large commercial version of what Hawaii is doing on a smaller scale (See last month's report on Hawaii). This construction will also bring much of their plant into seismic safety compliance.



**INFORMATION ITEM**

January 4, 2021

**TO: Planning & Operations Committee**  
(Directors McVicker, Yoo Schneider, Dick)

**FROM: Robert Hunter, General Manager**

Staff Contact: Charles Busslinger

**SUBJECT: Approval of AMP Capacity flow exceedance request – South Coast WD & the City of San Clemente**

**STAFF RECOMMENDATION**

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Staff recommends the Planning & Operations Committee receive and file this report.

**COMMITTEE RECOMMENDATION**

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Committee recommends (To be determined at Committee Meeting)

**SUMMARY**

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MWD OC has the obligation to enforce both the Allen McColloch Pipeline (AMP) Sales Agreement and the AMP Proceeds Agreement; these two separate agreements designated the terms and conditions for the transfer/sale of the AMP from the local agencies to MET in 1995.

One of the provisions of the Proceeds Agreement is for MWD OC and the AMP Participants to limit the capacity usage on the AMP by each participant to the capacity they held in the AMP at the time of transfer of the facility to MET.

On Dec 16, 2020, the Board delegated authority to the General Manager to make determinations concerning certain AMP capacity flow exceedance requests ('waivers') that meet the criteria indicated in the AMP Proceeds Agreement. Those conditions are for MWD OC to not consider peak flows resulting from:

- emergency situations,

<b>Budgeted (Y/N): N/A</b>	Budgeted amount:	Core __	Choice __
<b>Action item amount:</b>		Line item:	
<b>Fiscal Impact (explain if unbudgeted):</b>			

- inadvertent flow changes, or
- operational adjustments required by Metropolitan or other agencies

Requests which the General Manager determines do not meet this criteria will continue to be brought to the Board for consideration, but the agency will be notified that the request requires additional consideration, so the requesting agency can prepare accordingly.

MWDOC received a request from South Coast Water District and San Clemente on Dec 14, 2020 for a capacity flow exceedance request ('waiver') from January 5, 2021 - January 26, 2021 to coincide with the pending shutdown of the Joint Transmission Main (JTM) which is necessitated by the CM-10 Vault Rehabilitation Project.

## DETAILED REPORT

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MWDOC has the obligation to enforce both the Allen McColloch Pipeline (AMP) Sales Agreement and the AMP Proceeds Agreement; these two separate agreements designated the terms and conditions for the transfer/sale of the AMP from the local agencies to MET in 1995.

One of the provisions of the Proceeds Agreement (excerpt below) was for MWDOC and the AMP Participants to limit the capacity usage on the AMP by each participant to the capacity they held in the AMP at the time of transfer of the facility to MET.

One of the provisions of the Proceeds Agreement (excerpt below) was for MWDOC and the AMP Participants to limit the capacity usage on the AMP by each participant to the capacity they held in the AMP at the time of transfer of the facility to MET. Below are the capacities from Exhibit B of the AMP Proceeds Agreement, reorganized for agency consolidations that have occurred since that time.

<b>AMP Participant Agency</b>	<b>Reach D1</b>
YLWD	30.04
Anaheim	28.72
Orange	22.74
EOCWD	9.57
IRWD	70.67
MNWD	83.77
ETWD	26.33
SMWD	124.46
TCWD	4.01
San Juan Capistrano	4.91
San Clemente	6.87
SCWD	3.90
	<b>415.99</b>

Section 3.06 (starting on page 20 of the AMP Proceeds Agreement) explains the financial implications for exceeding peak day usage on the AMP, and includes a provision allowing MWDOC to **“not consider peak flows resulting from emergency situations.”**

**inadvertent flow changes or operational adjustments required by Metropolitan or other agencies” (see below).**

Since 1995, MWDOC has provided approximately 16 “waivers” for agencies who exceeded their peak AMP capacity or who might exceed their AMP capacity if a situation was known in advance. This has primarily occurred when local facilities were; out of operation due to an emergency, construction work impacting facilities, or due to planned shutdowns. Some waivers have been requested in advance and then were subsequently not needed.

MWDOC received a request from South Coast Water District and San Clemente on Dec 14, 2020 for a capacity flow exceedance request (‘waiver’) from January 5, 2021 - January 26, 2021 to coincide with the pending shutdown of the Joint Transmission Main (JTM) which is necessitated by the CM-10 Vault Rehabilitation Project.

The General Manager has determined this request meets the conditions specified in the AMP Proceeds Agreement to not consider peak flows from:

- operational adjustments required by Metropolitan or other agencies

and the waiver has been granted.

From the AMP Proceeds Agreement:

**section 3.06. Readjustment of Capacities.**

During the term of this Agreement and until such time as Metropolitan augments the capacity of the AMP in any manner, including, but not limited to, construction of the Diemer Pump Station or other capital facility, MWDOC shall monitor each

20

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Participant's and Leasing Agency's usage. At any time prior to augmentation of capacity in the AMP by Metropolitan, any Participant or Leasing Agency whose peak day flow exceeds its Adjusted Capacity, shall be required to pay for an additional full cubic foot per second (cfs) of capacity for the amount by which it exceeded its Adjusted Capacity rounded to the nearest cfs.

For purposes of determining whether a Participant or Leasing Agency has exceeded its capacity, MWDOC shall not consider peak flows resulting from emergency situations, inadvertent flow changes or operational adjustments required by Metropolitan or other agencies. The Peak Flow shall be defined as the most recent three-year moving average peak day flow in each reach of the AMP.

<b>Budgeted (Y/N):</b> N/A	<b>Budgeted amount:</b>	<b>Core</b> __	<b>Choice</b> __
<b>Action item amount:</b>		<b>Line item:</b>	
<b>Fiscal Impact (explain if unbudgeted):</b>			



## AMP FLOW WAIVER REQUEST DETERMINATION

December 21, 2020

**REQUESTING AGENCY:** South Coast WD & City of San Clemente

**AGENCY AMP CAPACITY OWNERSHIP** 10.77 cfs

**REQUESTED FLOW:** TBD cfs

**REQUESTED DATES OF WAIVER:** January 5, 2021 TO January 26, 2021

### WAIVER JUSTIFICATION:

☐ EMERGENCY SITUATION

☐ INADVERTENT FLOW CHANGE

☒ OPERATIONAL ADJUSTMENT REQUIRED BY METROPOLITAN OR OTHER AGENCY


☐ OTHER (TO BE REFERRED TO MWDOC BOARD FOR CONSIDERATION)

### EXPLANATION:

MWDOC received a request from South Coast Water District and San Clemente on Dec 14, 2020 for a capacity flow exceedance request ('waiver') from January 5, 2021 - January 26, 2021 to coincide with the pending shutdown of the Joint Transmission Main (JTM) which is necessitated by the CM-10 Vault Rehabilitation Project.

Prepared by: Chris Lingad

☒ Approved

General Manager Signature  Date: December 23, 2020

Date of MWDOC Board notification: \_\_\_\_\_

P&O Committee information item date: \_\_\_\_\_

Date AMP Participants notified: \_\_\_\_\_



**INFORMATION ITEM**

January 4, 2021

**TO: Planning & Operations Committee**  
(Directors McVicker, Yoo Schneider, Dick)

**FROM: Robert Hunter, General Manager**

Staff Contact: Charles Busslinger

**SUBJECT: Approval of AMP Capacity flow exceedance request – City of San Juan Capistrano**

**STAFF RECOMMENDATION**

---

Staff recommends the Planning & Operations Committee receive and file this report.

**COMMITTEE RECOMMENDATION**

---

Committee recommends (To be determined at Committee Meeting)

**SUMMARY**

---

MWD OC has the obligation to enforce both the Allen McColloch Pipeline (AMP) Sales Agreement and the AMP Proceeds Agreement; these two separate agreements designated the terms and conditions for the transfer/sale of the AMP from the local agencies to MET in 1995.

One of the provisions of the Proceeds Agreement is for MWD OC and the AMP Participants to limit the capacity usage on the AMP by each participant to the capacity they held in the AMP at the time of transfer of the facility to MET.

On Dec 16, 2020, the Board delegated authority to the General Manager to make determinations concerning certain AMP capacity flow exceedance requests ('waivers') that meet the criteria indicated in the AMP Proceeds Agreement. Those conditions are for MWD OC to not consider peak flows resulting from:

- emergency situations,

<b>Budgeted (Y/N): N/A</b>	Budgeted amount:	Core __	Choice __
<b>Action item amount:</b>		Line item:	
<b>Fiscal Impact (explain if unbudgeted):</b>			

- inadvertent flow changes, or
- operational adjustments required by Metropolitan or other agencies

Requests which the General Manager determines do not meet this criteria will continue to be brought to the Board for consideration, but the agency will be notified that the request requires additional consideration, so the requesting agency can prepare accordingly.

MWDOC received a request from the City of San Juan Capistrano on Dec 14, 2020 for a capacity flow exceedance request ('waiver') from January 5, 2021 - January 26, 2021 to coincide with the pending shutdown of the Joint Transmission Main (JTM) which is necessitated by the CM-10 Vault Rehabilitation Project being completed by the JTM operator, South Coast Water District.

## DETAILED REPORT

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MWDOC has the obligation to enforce both the Allen McCulloch Pipeline (AMP) Sales Agreement and the AMP Proceeds Agreement; these two separate agreements designated the terms and conditions for the transfer/sale of the AMP from the local agencies to MET in 1995.

One of the provisions of the Proceeds Agreement (excerpt below) was for MWDOC and the AMP Participants to limit the capacity usage on the AMP by each participant to the capacity they held in the AMP at the time of transfer of the facility to MET.

One of the provisions of the Proceeds Agreement (excerpt below) was for MWDOC and the AMP Participants to limit the capacity usage on the AMP by each participant to the capacity they held in the AMP at the time of transfer of the facility to MET. Below are the capacities from Exhibit B of the AMP Proceeds Agreement, reorganized for agency consolidations that have occurred since that time.

<b>AMP Participant Agency</b>	<b>Reach D1</b>
YLWD	30.04
Anaheim	28.72
Orange	22.74
EOCWD	9.57
IRWD	70.67
MNWD	83.77
ETWD	26.33
SMWD	124.46
TCWD	4.01
San Juan Capistrano	4.91
San Clemente	6.87
SCWD	3.90
	<b>415.99</b>

Section 3.06 (starting on page 20 of the AMP Proceeds Agreement) explains the financial implications for exceeding peak day usage on the AMP, and includes a provision allowing



MWDOC to **“not consider peak flows resulting from emergency situations, inadvertent flow changes or operational adjustments required by Metropolitan or other agencies” (see below).**

Since 1995, MWDOC has provided approximately 16 “waivers” for agencies who exceeded their peak AMP capacity or who might exceed their AMP capacity if a situation was known in advance. This has primarily occurred when local facilities were; out of operation due to an emergency, construction work impacting facilities, or due to planned shutdowns. Some waivers have been requested in advance and then were subsequently not needed.

MWDOC received a request from the City of San Juan Capistrano on Dec 14, 2020 for a capacity flow exceedance request (‘waiver’) due to the pending shutdown of the Joint Transmission Main (JTM) necessitated by the CM-10 Rehabilitation Project being completed by the JTM operator, South Coast Water District.

The General Manager has determined this request meets the conditions specified in the AMP Proceeds Agreement to not consider peak flows from:

- operational adjustments required by Metropolitan or other agencies

and the waiver has been granted.

From the AMP Proceeds Agreement:

**section 3.06. Readjustment of Capacities.**

During the term of this Agreement and until such time as Metropolitan augments the capacity of the AMP in any manner, including, but not limited to, construction of the Diemer Pump Station or other capital facility, MWDOC shall monitor each

20

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Participant's and Leasing Agency's usage. At any time prior to augmentation of capacity in the AMP by Metropolitan, any Participant or Leasing Agency whose peak day flow exceeds its Adjusted Capacity, shall be required to pay for an additional full cubic foot per second (cfs) of capacity for the amount by which it exceeded its Adjusted Capacity rounded to the nearest cfs.

For purposes of determining whether a Participant or Leasing Agency has exceeded its capacity, MWDOC shall not consider peak flows resulting from emergency situations, inadvertent flow changes or operational adjustments required by Metropolitan or other agencies. The Peak Flow shall be defined as the most recent three-year moving average peak day flow in each reach of the AMP.

<b>Budgeted (Y/N): N/A</b>	<b>Budgeted amount:</b>	<b>Core __</b>	<b>Choice __</b>
<b>Action item amount:</b>	<b>Line item:</b>		
<b>Fiscal Impact (explain if unbudgeted):</b>			



## AMP FLOW WAIVER REQUEST DETERMINATION

December 21, 2020

**REQUESTING AGENCY:** City of San Juan Capistrano

**AGENCY AMP CAPACITY OWNERSHIP** 4.91 cfs

**REQUESTED FLOW:** 8.0 cfs

**REQUESTED DATES OF WAIVER:** January 5, 2021 TO January 26, 2021

### WAIVER JUSTIFICATION:

☐ EMERGENCY SITUATION

☐ INADVERTENT FLOW CHANGE

☒ OPERATIONAL ADJUSTMENT REQUIRED BY METROPOLITAN OR OTHER AGENCY

☐ OTHER (TO BE REFERRED TO MWDOC BOARD FOR CONSIDERATION)

### EXPLANATION:

MWDOC received a request from the City of San Juan Capistrano on Dec 14, 2020 for a capacity flow exceedance request ('waiver') due to the pending shutdown of the Joint Transmission Main (JTM) necessitated by the CM-10 Rehabilitation Project being completed by the JTM operator, South Coast Water District.

Prepared by: Chris Lingad

☒ Approved

General Manager Signature  Date: December 23, 2020

Date of MWDOC Board notification: \_\_\_\_\_

P&O Committee information item date: \_\_\_\_\_

Date AMP Participants notified: \_\_\_\_\_



**INFORMATION ITEM**

January 4, 2021

**TO: Planning & Operations Committee**  
(Directors McVicker, Yoo Schneider, Dick)

**FROM: Robert Hunter, General Manager**

Staff Contact: Charles Busslinger

**SUBJECT: OC-70 Status Update**

**STAFF RECOMMENDATION**

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Staff recommends the Planning & Operations Committee receive and file this report.

**COMMITTEE RECOMMENDATION**

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Committee recommends (To be determined at Committee Meeting)

**SUMMARY**

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MWDOC staff continue to work with staff from Metropolitan Water District (MET) and East Orange County Water District (EOCWD) on an investigation of the accuracy of the billing meter at Service Connection OC-70 under MET Administrative Code Section 4506 - Metering of Water.

A meeting was held on December 15, 2020 to discuss the inability to bring the meter testing to a successful conclusion. The meeting reviewed the previous test results and explored additional testing methodologies. All three agencies agreed upon abandoning the previous methodology and use of ultrasonic flow meters as a reference standard. The alternative methodology agreed to will use a calibrated electromagnetic flow meter (mag meter) as a reference standard to be installed both upstream and then downstream of the OC-70 facility to measure against the existing OC-70 billing meter (venturi meter). The venturi meter, and existing piping immediately upstream of the venturi meter will remain in place. The mag meter will be sent to Utah Water Research Lab (UWRL) for calibration and then installation outside of the OC-70 facility; first upstream and then downstream of the building to capture any flow changes caused by either the piping or the pumps which will then be compared to the readings from the venturi meter inside the building.

<b>Budgeted (Y/N):</b>	Budgeted amount:	Core __	Choice __
<b>Action item amount:</b>		Line item:	
<b>Fiscal Impact (explain if unbudgeted):</b>			

Additional work at OC-70 is progressing on the following items:

- Portable Pump Test at the facility – EOCWD is currently reviewing MET’s comments on EOCWD’s draft portable pump test plan.
- Maintenance - MET is looking to complete rehabilitation work on the existing pumps and motors in early 2021 and is currently coordinating this work with the meter accuracy testing and EOCWD’s water demands.
- Portable Back-Up Generator Operations – MET completed the electrical modifications necessary to hook up a portable generator to the OC-70 facility. An Operating Bulletin is needed to govern the operations of the portable back-up generator and the protocol to change from grid power to generator power and back again. MET is reviewing comments made by EOCWD on a Draft Operating Bulletin for the portable back-up generator operations. The portable generator has been hooked up at OC-70 already on three occasions (during the most recent fire event and during two prior Public Safety Power Shutoff events) and was also successfully operated for a period of several hours during one of these hook up events. The Draft Operating Bulletin is currently being used as guidance until the final bulletin is executed.
- Purchase of a 3<sup>rd</sup> Pump - MWDOC staff have notified MET of a request by EOCWD to move forward with the purchase of a 3<sup>rd</sup> pump for OC-70. The 3<sup>rd</sup> pump will serve as a back-up in the event one of the two pumps fail. EOCWD has previously indicated that they will pay for the 3<sup>rd</sup> pump. MET is currently working on the purchase request.

## DETAILED REPORT

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### Background

#### MET Administrative Code Section 4506 - Metering of Water

Section 4506 states:

“Any member public agency may have any meter through which water is served from the District's facilities to any area within such member public agency tested by the District at any time. Any member public agency affected shall have the right to be represented by a qualified observer at and during any such tests. In the event that any such test shall disclose an error exceeding 2 percent, an adjustment shall be made in charges made to the affected member public agency, covering the known or estimated period of duration of such error, but in no event exceeding six months, and the expenses of such test shall be borne by the District; otherwise, such expense shall be borne by the member public agency requesting such test.”

MWDOC staff believe a metering discrepancy may exist at OC-70 because of the original design of the facility. There is a tee one pipe diameter downstream of the existing venturi that connects to the pumps. When in a pumping condition, we believe turbulence is created at that juncture which may disrupt the accuracy of the venturi meter. Venturi meters without flow interferences are very accurate as long as they have sufficient upstream and downstream straight pipe runs. Newer MET design guidelines incorporate standards for

straight runs of pipe of 10-pipe diameters upstream and 5-pipe diameters downstream of a flow meter to help eliminate flow interferences. The OC-70 installation does not meet MET's 5-pipe diameter downstream design guidelines and therefore does not comply as a MET standard meter installation.

The meter accuracy test was based upon taking an ultrasonic flow meter to Utah Water Research Lab (UWRL) and having it calibrated against a National Institute of Standards and Technology (NIST) certified weight tank which can measure flow meter accuracy to a very high degree of precision. A deviation curve was then developed for both straight pipe flow conditions and for the flow conditions matching the existing piping at OC-70. A replica of the OC-70 piping was created at UWRL to do this. This allowed the ultrasonic meter to serve as a reference standard (i.e., to serve as a stand in) to compare to the billing meter out in the field at OC-70, as the NIST certified weight tank could not reasonably be moved on-site. The ultrasonic meter was calibrated at UWRL using the weight tank for both straight pipe flow and for flows through a replica of the OC-70 pipe configuration shown below.



*Hydraulic Replica Test of OC-70 at UWRL August 5, 2020  
(Note: pipe configuration is flipped 180 degrees due to space limitations.)*





*NIST Certified Weight Tank at UWRL August 5, 2020*

## Status Update

MWDOC and EOCWD anticipated receipt of a report from MET in late November 2020 on the findings of the meter accuracy test conducted at OC-70 on October 6, 2020.



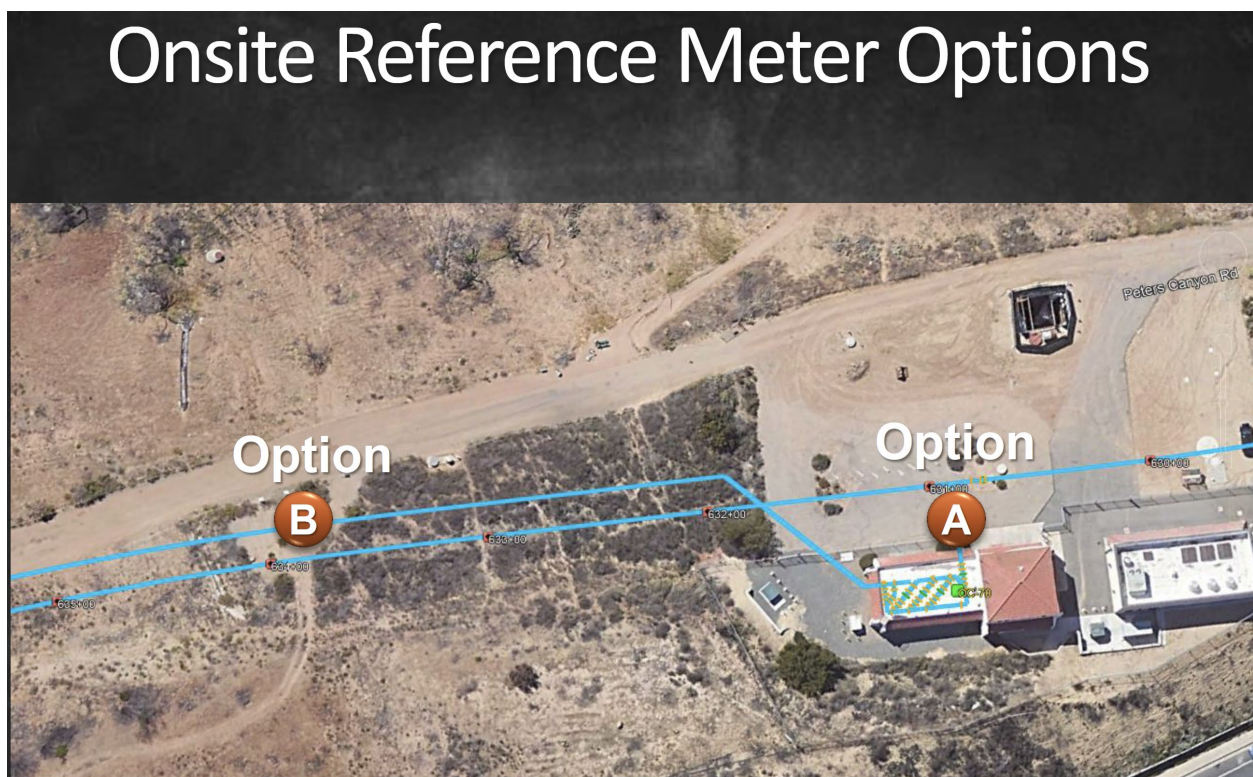
*Meter Accuracy Testing at OC-70 Oct 6, 2020*

MET informed staff on November 24, 2020 that although the field test at OC-70 was completed successfully, when the reference meter (the calibrated portable ultrasonic meter) used during testing was sent back to UWRL to verify that it had maintained its calibration throughout the field-testing process, the ultrasonic meter failed to provide repeatable

results. The failure of the reference meter to demonstrate that it maintained calibration invalidates the field testing at OC-70.

A meeting was then held on December 15, 2020 to discuss the inability to bring the meter testing to a successful conclusion. The meeting reviewed the previous test results and explored additional testing methodologies. All three agencies agreed upon abandoning the previous methodology and use of ultrasonic flow meters as a reference standard.

All three agencies also agreed to an alternative method which will use a calibrated electromagnetic flow meter (mag meter) installed both upstream and then downstream of the OC-70 facility to measure against the existing OC-70 billing meter (venturi meter). The venturi meter, and existing piping immediately upstream of the venturi meter, will remain in place and a calibrated mag meter will be installed outside of the facility (at locations A & B in the picture below). The facility will once again be tested in three operating modes: gravity flow, one-pump flow, and two-pump flow.



The test will compare the flow readings of the new reference meter (mag meter) to those of the OC-70 venturi meter. The tests will be conducted over a span of 3 days to capture any flow changes caused by either the piping or the pumps.

This item has been elevated to the MET executive level for several months. MET has indicated that the costs for all of the meter testing at OC-70 will be picked up by MET regardless of the final outcome of the accuracy of the billing meter.

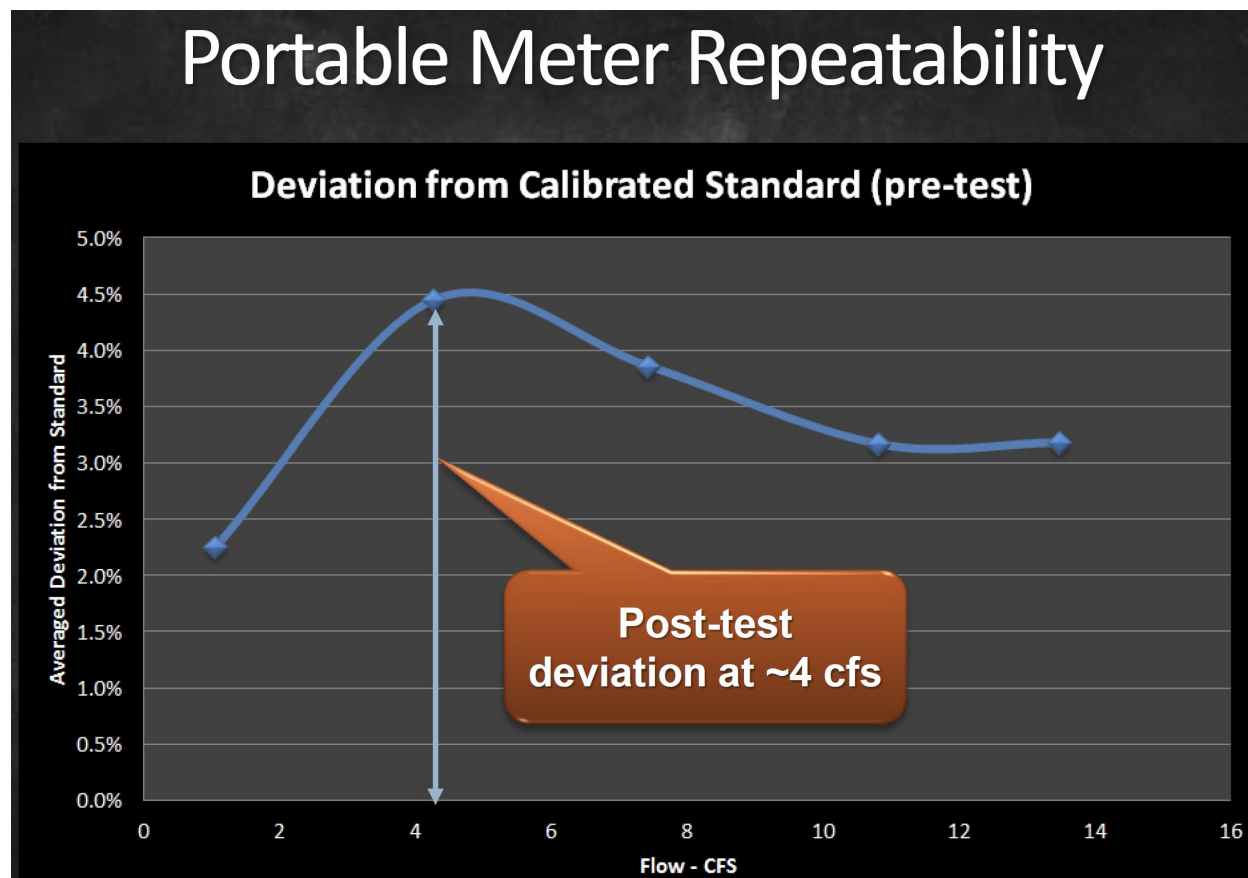
### **Ultrasonic Flow Meter Failure to Maintain Calibration**

Verification testing results from UWRL for the ultrasonic flow meter is best shown by the blue line in the graph below. The blue line indicates the percentage deviation between the flow testing at UWRL after completion of the field test versus the flow testing at UWRL



conducted prior to the field test (the blue line should be near 0% across the entire flow range [along the x-axis]).

This surprising result of a before and after test of a new meter in the same lab is analogous to having a new car speedometer calibrated at a repair shop, then driving it around for an hour and when tested again at the same shop, the speedometer no longer reads the same.



### Next Steps

The following schedule to resolve the metering issue is anticipated:

- EOCWD has offered to MET the use of a new mag meter for testing purposes. MET is currently reviewing the specifications to see if the meter is acceptable for testing. Additionally, MET is working to secure a mag meter separately in case the EOCWD mag meter does not meet requirements. Should the EOCWD mag meter suffice, the testing will be completed more quickly. Should a new mag meter be needed, MET anticipates a few weeks of lead time to obtain the meter.
- Once the mag meter is identified the MET fabrication shop will need to make pipe spools to fit the mag meter into the existing piping. This should only take a few days.
- The mag meter will also need to be calibrated at UWRL following procedures similar to those for calibrating the ultrasonic meter.
- The calibrated mag meter will then be installed into the pipeline and compared to the readings of the OC-70 venturi meter. Completion of testing at OC-70 is anticipated by the end of February 2021.

- The billing metering error can then be quantified in March 2021 and a final report written.
- An item will need to be taken to the MET Board for action. If this item is combined with the transfer of the OC-70 facility to MWDOC/EOCWD, it may not be ready for action until mid-2021.
- Staff is continuing to work with MET and EOCWD on additional issues at OC-70 and will keep the Board informed with periodic updates:
  - Portable Pump Test at the facility – EOCWD is currently reviewing MET's comments on EOCWD's draft portable pump test plan.
  - Maintenance - MET is looking to complete rehabilitation work on the existing pumps and motors in early 2021 and is currently trying to coordinate this work with the meter testing and EOCWD's water demands.
  - Portable Back-Up Generator Operations – MET completed the electrical modifications necessary to hook up a portable generator to the OC-70 facility. An Operating Bulletin is needed to govern the operations of the portable back-up generator and the protocol to change from grid power to generator power and back again. MET is reviewing comments made by EOCWD on a Draft Operating Bulletin for the portable back-up generator operations. The portable generator has been hooked up at OC-70 already on three occasions (during the most recent fire event and during two prior Public Safety Power Shutoff events). The draft operating bulletin is currently being used as guidance until the final bulletin is executed.
  - Purchase of a 3<sup>rd</sup> Pump - MWDOC staff have notified MET of a request by EOCWD to move forward with the purchase of a 3<sup>rd</sup> pump for OC-70 that will serve as a back-up in the event one of the two pumps fail. EOCWD has previously indicated that they will pay for the 3<sup>rd</sup> pump. MET is currently working on the purchase request.



**INFORMATION ITEM**

January 4, 2021

**TO: Planning & Operations Committee**  
(Directors McVicker, Yoo Schneider, Dick)

**FROM: Robert Hunter, General Manager**

Staff Contact: Charles Busslinger, Chris Lingad

**SUBJECT: Update /Status of MWDOC Building Construction**

**STAFF RECOMMENDATION**

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Staff recommends the Planning & Operations Committee receive and file this report.

**COMMITTEE RECOMMENDATION**

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Committee recommends (To be determined at Committee Meeting)

**SUMMARY**

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On October 28, 2020, the Board of Directors authorized the award of the construction contract with Optima RPM, Inc. for the MWDOC administration building seismic retrofit and remodel project, with the exclusion of a storage room for Conference Room 101.

The project involves seismic improvements and a remodel of the administration building along with changes to Conference Room 101 to serve as a backup WEROC emergency operations center. The remodel will also address current space inefficiencies with the existing floor plan that will provide additional workspaces within the building. The project is phased to allow for continued use of portions of the building during the construction project. Project completion is anticipated in November 2021.

<b>Budgeted (Y/N):</b>	Budgeted amount:	Core __	Choice __
<b>Action item amount:</b>		Line item:	
<b>Fiscal Impact (explain if unbudgeted):</b>			

## DETAILED REPORT

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### Project Status

The project phasing plan was reduced from four phases to three in an effort to increase efficiency. Phase 1, which consists of the west side of the building and majority of the northern offices, began in November 2020. A phase 1 move management plan was implemented to relocate affected employees and their work computers to allow for continued remote access to the MWDOC computer server. The following work has been completed for phase 1 as of mid-December 2020:

- Asbestos abatement and drywall demolition
- Demolition of the vault, drop ceiling T-bar framing, partition walls, carpeting, and portions of the restrooms
- Modifications to electrical system



*Vault Removal - Concrete Walls Demolished December 2, 2020*



*Asbestos Abatement for Drywall Removal - December 2, 2020*



*After Drywall Removal showing Exposed Partition Wall Framing - December 4, 2020*





*Partition Wall Framing and T-bar Removed - December 7, 2020*



*Southwest Corner Offices with Framing, T-bar and Drywall Removed December 17, 2020*



*West Side Mens Restroom, Floor Tile and Sinks Removed December 17, 2020*

Ongoing work includes seismic reinforcement of the roof framing and strengthen ties between the roof and exterior walls. Additionally, electrical work will continue into early 2021.

### **Schedule Summary**

A summary of key tasks and dates from the construction schedule is provided below. Note the new schedule includes some change orders necessitated by discoveries during demolition for which the contractor has been granted additional working days (termite damage, non-code compliant electrical conduits abandoned when the phone system was changed out, missing structural support elements, extraneous structural support elements, interferences requiring relocations, etc.). As work progresses, staff will continue to work with the contractor to determine where efficiencies can be made in order to save time and compress the schedule.

<b>Task</b>	<b>Start</b>	<b>Finish</b>
<b>Phase 1</b>	<b>Nov-20</b>	<b>Jun-21</b>
Demolition Work	Nov-20	Dec-20
Roof Framing/Seismic Work	Dec-20	Feb-21
Parking Lot Work	Mar-21	Mar-21

Electrical Work	Nov-20	Apr-21
Floor Plan Work	Mar-21	May-21
Walkthrough	May-21	Jun-21

<b>Phase 2</b>	<b>Jun-21</b>	<b>Sep-21</b>
Demolition Work	Jun-21	Jun-21
Roof Framing/Seismic Work	Jul-21	Jul-21
Electrical Work	Jul-21	Aug-21
Floor Plan Work	Jun-21	Sep-21
Walkthrough	Sep-21	Sep-21

<b>Phase 3</b>	<b>Sep-21</b>	<b>Nov-21</b>
Demolition Work	Sep-21	Sep-21
Roof Framing/Seismic Work	Oct-21	Oct-21
Electrical Work	Oct-21	Oct-21
Floor Plan Work	Oct-21	Oct-21
Walkthrough	Oct-21	Nov-21





**INFORMATION ITEM**

January 4, 2021

**TO: Planning & Operations Committee**  
(Directors McVicker, Yoo Schneider, Dick)

**FROM: Robert Hunter, General Manager**

Staff Contact: Sarah Wilson

**SUBJECT: School Programs Update**

**STAFF RECOMMENDATION**

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Staff recommends the Planning & Operations Committee receive and file this report.

**COMMITTEE RECOMMENDATION**

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Committee recommends (To be determined at Committee Meeting)

**SUMMARY**

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The following information was reported at the December 2020 Public Affairs & Legislation (PAL) Committee Meeting. As schools are currently out of session for winter break, there are no changes to this report. For convenience, the calendar of scheduled bookings has been updated to include any additions made between the December 2020 PAL Committee Meeting and the January 2021 Planning & Operations Committee Meeting.

**DETAILED REPORT**

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During this extremely difficult and challenging time, students, teachers, and parents are doing their very best to keep up with the ever-changing education landscape. While some have learned to adapt, many still feel disconnected, discouraged, and overwhelmed. Despite the limitations created by the COVID-19 pandemic, Municipal Water District of Orange County (MWD OC) Public Affairs staff worked closely with K-12 Choice School Program contractors—Shows That Teach, Discovery Cube Orange County, and Bolsa Chica Conservancy—to provide Orange County students with safe, valuable water education that connects them with their local environment, their surrounding communities, and with each other.

<b>Budgeted (Y/N): Y</b>	Budgeted amount: \$401,729	Core <u>  </u>	Choice <u>X</u>
<b>Action item amount:</b>		Line item: 63-7040	
<b>Fiscal Impact (explain if unbudgeted):</b>			

MWDOC Choice School Program contractors continue their efforts to book live, interactive virtual water lessons that can be accessed at home or in the classroom by Orange County K-12 teachers and students for the 2020/21 school year. These virtual sessions include pre- and post-program activities that provide students with hands-on learning experiences that get them outside, away from their computer screens, and enrich their understanding of how water is connected to every part of life. As the virtual sessions are confirmed with Orange County schools, MWDOC Choice School Program contractors update the shared Google Calendar so that participating member agencies are able to view the booking schedule for their service area.

Included in this report is a preview of scheduled virtual sessions for the months of January and February 2021. Please note that the shared Google Calendar is updated frequently and will always have the most accurate information. Visits are subject to change due to school and teacher availability. Login information for the shared Google Calendar is available upon request.

The current MWDOC Choice School Program goals can be accessed [here](#).

### **SHOWS THAT TEACH – ELEMENTARY SCHOOL (K-2)**

Through the MWDOC Choice Elementary School Program (grades K-2), Shows That Teach hosted 10 virtual assemblies reaching more than 1,400 elementary school students across the county in November 2020. More than 3,500 students have participated in the MWDOC Choice Elementary School Program (grades K-2) as of November 2020, and as of December 2020, just over 1,550 students have been booked to receive the program through the remainder of the 2020/21 school year so far.

*"I love these presenters! The kids love them too...Thank you so much for giving us this experience! We needed a change in routine!" – Second Grade Teacher, Murdy Elementary School*

*"Professionally presented, colorful, engaging, informative. [Shows That Teach staff] were amazingly helpful getting us over tech hurdles. They are extremely accommodating and patient. Our students were over the moon with the presentation and videos. We are using the information learned for a writing assignment." – Second Grade Teacher, Excelsior Elementary School*

### **DISCOVERY CUBE OC – ELEMENTARY (3-6) AND MIDDLE SCHOOL (7-8)**

Through the MWDOC Choice Elementary School Program (grades 3-6), Discovery Cube Orange County (DCOC) hosted three (3) virtual assemblies reaching more than 280 elementary school students in November 2020. As of December 2020, just over 1,400 students have been booked to receive the new suite of online live sessions for the 2020/21 school year so far.

DCOC is continuing weekly outreach to Orange County middle schools, and is pursuing leads to book schools for the MWDOC Choice Middle School Program (grades 7-8).

### **BOLSA CHICA CONSERVANCY – HIGH SCHOOL (9-12)**

The Bolsa Chica Conservancy (BCC) is working closely with teachers at El Toro High School, Westminster High School, and Edison High School to schedule dates for participation in the MWDOC Choice High School Program (grades 9-12). Brea Olinda High School has also expressed interest in participating. BCC staff is continuing weekly outreach to additional high schools across the county to schedule the live sessions.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4 3-6 MESA WATER	5 3-6 SANTA ANA K-2 GARDEN GROVE	6 3-6 TUSTIN Red Hill	7 3-6 BREA Christ	8 3-6 WESTMINSTER	9
10 3-6 HUNTINGTON 3-6 HUNTINGTON	11	12 3-6 HUNTINGTON	13 K-2 TUSTIN Red Hill	14 3-6 SANTA ANA	15	16
17	18	19	20	21 3-6 SANTA ANA	22 3-6 SANTA ANA	23
24 3-6 HUNTINGTON 3-6 HUNTINGTON	25	26	27	28	29 3-6 TUSTIN Loma K-2 SANTA ANA	30
31	1	2	3	4 3-6 WESTMINSTER	5 3-6 FULLERTON 3-6 WESTMINSTER	6

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4 3-6 WESTMINSTER	5 3-6 FULLERTON 3-6 WESTMINSTER	6
7	8	9 3-6 SANTA ANA	10	11 3-6 FULLERTON	12 3-6 FULLERTON	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	1	2	3	4	5 3-6 ETWD Del Cerro	6

<b>ENGINEERING &amp; PLANNING</b>	
<b>Economic Benefit Studies and Modeling Work to Quantify the Benefits of Local Projects in the Context of MET's 2020 Integrated Resources Plan (IRP)</b>	<p>MWDOC staff is working with the Brattle Group and CDM Smith on the Economic Benefits Studies and modeling work. In this process, the consulting team will be working with MWDOC and the member agencies regarding the survey issues with businesses in Orange County.</p> <p>CDM Smith has begun the modeling work for a water demand analysis and is anticipating having preliminary results in late January 2021. This analysis will serve to support the Urban Water Management Plans and will provide information necessary for the Economic Benefits study.</p>
<b>OC-70 Meter Testing Update</b>	A full report is included in the P&O packet this month.
<b>OC Hydraulic Model</b>	Black & Veatch has completed the first two project tasks and constructed the hydraulic model using Innovyze's InfoWater modeling platform. B&V is currently calibrating the model in preparation for use of the model in early 2021. Staff and B&V are currently working with member agencies to define potential project scopes of work. More information will be presented as they develop.
<b>Doheny Ocean Desalination Project</b>	<p>South Coast Water District (SCWD) continues working on the project:</p> <ul style="list-style-type: none"> <li>• SCWD submitted their NPDES permit application on March 13, 2020. SCWD anticipates approval of the NPDES permit in Mid-2021. The next step would be the Coastal Commission with a permit also anticipated in 2021.</li> <li>• Work is progressing on the Financial Analysis for a 2 mgd and 5 mgd scenario through Clean Energy Capital. SCWD is coordinating the financial analysis with the Alternative Energy Study.</li> <li>• Work is also progressing on an Alternative Energy Study for the project. A draft report is under review by SCWD.</li> <li>• Also making progress is a third-party hydrogeologic review of San Juan Creek to determine if and to what extent near shore pumping may have on inland groundwater wells. Additional geophysical field work has been completed and a technical working group meeting was held on December 7, 2020 to review the results. The geology in the vicinity of Stonehill Drive is extremely complex, but testing shows that there is a subsurface barrier which impedes groundwater flows between the upper and lower portions of the creek in the vicinity of Stonehill Drive. The hydrogeologists are now modeling the test findings to determine the extent of hydrogeologic flows between the upper and lower portions of the creek and should have 3D modeling results in February/March 2021.</li> <li>• In 2019, SCWD was awarded an \$8.3 million award from the Water Infrastructure Improvements for the Nation Act of 2016 (WIIN). In December 2020, the Interior Department is recommending that</li> </ul>

	<p>Congressional Appropriators list an additional \$11.7 million for the project for FY 21 for a cumulative total of \$20 million which is the existing maximum WIIN Act Desalination Program funding.</p> <p>On June 25, 2020 the SCWD Board approved an amendment to the Clean Energy Capital Financial Analysis to evaluate alternative project options that meet reliability benefits for SCWD similar to the Doheny Desalination Project, along with reducing overall life-cycle costs in light of the uncertain economic situation moving forward due to the COVID-19 pandemic.</p> <p>The Doheny Desalination Project is currently sized at a capacity of up to 5 MGD, which exceeds SCWD's average potable water demand expected during emergency situations. SCWD has only received interest from SMWD for about 1 mgd of supply from Doheny. This leaves South Coast with potential capacity for others in a 5 MGD facility. Based on this, along with regional financial hardships caused by the COVID-19 pandemic and potential economic recession, SCWD believes that it is necessary to consider alternative, and potentially lower cost project options, to utilize and potentially expand existing assets as a means to meet their reliability needs.</p> <p>This amended study is reviewing design parameters and existing conditions at SCWD's existing Groundwater Recovery Facility (GRF), to obtain a comprehensive understanding of actual production capacity of the GRF and current limitations and reliability concerns. A range of additional water production volumes needed to maintain emergency reliability for SCWD will be developed. Current estimates are that 1.2 to 2.2 mgd of additional reliability will be needed for SCWD based on a GRF production volume of 0.8 mgd.</p>
<b>SMWD San Juan Watershed Project</b>	<p>Santa Margarita WD continues to focus on diversifying its water supply portfolio toward obtaining a goal of 30% local supplies. The San Juan Watershed Project is one project SMWD is working on toward that goal.</p> <p>The original project was envisioned to have three Phases; Phase 1 included three rubber dams along San Juan Creek to recover about 700 Acre-Feet-per Year (AFY); Phase 2 added up to 8 additional rubber dams and the introduction of recycled water into the creek to improve replenishment of the basin to recover up to 6,120 AFY, and Phase 3 added more recycled water topping out at approximately 9,480 AFY. Under this arrangement, most or all of the production and treatment involved the existing San Juan Groundwater Desalter with expansions scheduled along the way to increase production beyond 5 mgd. Fish passage and regulatory hurdles to satisfy subsurface travel time requirements continue to be addressed.</p> <p>SMWD has since modified the project. Currently SMWD is working with the Ranch on the next phase of development within SMWD's service area and also working on access to riparian groundwater from the Ranch in the upper portions of the San Juan Creek watershed. SMWD plans to construct a water filtration plant to treat this additional water, which currently has the working title of 'The Ranch Water Filtration Plant' (WFP). CEQA documentation for the Ranch WFP</p>

	<p>is going to the SMWD Board for consideration of adoption in late January 2021. SMWD anticipates that the WFP plant will begin operation in the 1<sup>st</sup> quarter of 2022. This new first phase will treat approximately 1,000 AFY of non-potable water to produce 800 – 900 AFY of potable water, which will then be put directly into the SMWD water system. The WFP treatment system will consist of Microfiltration or Ultrafiltration, Reverse Osmosis and Chloramines.</p> <p>SMWD also continues to work with the California Department of Fish and Wildlife (CDFW) and National Marine Fisheries Service (NMFS) on steelhead trout regulations for any work occurring within San Juan Creek stream. This new 1<sup>st</sup> phase is ‘off-stream’ which is allowing the project to move forward.</p> <p>A new 2<sup>nd</sup> phase of the project will look to use infiltration basins (stormwater/flood) that will be constructed as part of the Ranch’s next phase of development. SMWD is looking to fill these new basins with recycled water in the summer when the basins are empty and then take it back out. By doing this SMWD anticipates being able to increase the source water supplies for the WFP to approximately 5,000 AFY. Both State and US Bureau of Reclamation grants are being pursued for this project.</p> <p>SMWD has discovered that the local geology has high vertical percolation rates and sufficient groundwater basin travel time (lower horizontal conductivity) to potentially allow percolation of treated recycled water with an ability to meet the required travel time regulations. SMWD is of the opinion that permitting for percolation augmentation using recycled water from the nearby Trampas reservoir can be added as permitting allows. SMWD believes the new project may be able to ultimately produce 4,000 to 5,000 AFY; they believe the original project will continue to be developed for production out of the wells and treatment provided by San Juan Capistrano as the two agencies merge. Ultimate production out of the basin could exceed 10,000 AFY if all goes well.</p>
<b>South Orange County Emergency Service Program</b>	<p>MWDOC, IRWD, and Dudek have completed the study to determine if the existing IRWD South Orange County Interconnection capacity for providing emergency water to South Orange County can be expanded and/or extended beyond its current time horizon of 2030.</p> <p>Dudek participated in the November 6, 2019 SOC workshop to re-engage with the SOC agencies on this project. Support from the agencies was expressed to take a small next step to install Variable Frequency Drives at a pump station within IRWD which would be paid for by SOC to help move water from the IRWD system to SOC in an emergency. The Variable Frequency Drives will provide more flexibility to the IRWD operations staff to allow additional water to be sent to SOC while meeting all of the IRWD needs.</p>
<b>Strand Ranch Project</b>	<p>MWDOC and IRWD are continuing to exchange ideas on how to implement the program to capture the benefits that can be provided by the development of “extraordinary supplies” from the Strand Ranch Project. Staff from MWDOC</p>

	and IRWD met in August 2020 and have been reaching out to other agencies to determine the level of interest in the project.
<b>Poseidon Resources Huntington Beach Ocean Desalination Project</b>	<p>The Santa Ana Regional Water Quality Control Board (SARWQCB) continues to work with Poseidon on renewal of the National Pollutant Discharge Elimination System (NPDES) Permit for the proposed HB Desalination Project.</p> <p>The renewal of the NPDES permit for the proposed desalination facility requires a California Water Code section 13142.5(b) determination in accordance with the State's Ocean Plan (a.k.a. the Desalination Amendment). To make a consistency determination with the Desalination Amendment, the Regional Board is required to analyze the project using a two-step process:</p> <ol style="list-style-type: none"> <li>1. Analyze separately as independent considerations, a range of feasible alternatives for the best available alternative to minimize intake and mortality of all forms of marine life: <ol style="list-style-type: none"> <li>a. Site</li> <li>b. Design</li> <li>c. Technology</li> <li>d. Mitigation Measures</li> </ol> </li> <li>2. Then consider all four factors collectively and determine the best combination of feasible alternatives.</li> </ol> <p>Regional Board staff reviewed hundreds of documents and input from both an independent reviewer and a neutral 3rd party reviewer to develop Tentative Order R8-2020-0005.</p> <p>The key areas required by the Ocean Plan on which the Santa Ana Water Board is required to make a determination, includes:</p> <ul style="list-style-type: none"> <li>• Facility onshore location;</li> <li>• Intake considerations including subsurface and surface intake systems;</li> <li>• <b>Identified need for the desalinated water;</b></li> <li>• Concentrated brine discharge considerations;</li> <li>• Calculation of the marine life impacts; and</li> <li>• Determination of the best feasible mitigation project available.</li> </ul>



	<p>In evaluating the proposed project, Santa Ana Regional Board staff interpreted “the identified need for the desalinated water” as whether or not the project is included in local area water planning documents, rather than a reliability need as analyzed in the OC Water Reliability Study. The Regional Board staff referenced several water planning documents; Municipal Water District of Orange County’s (MWDOC) 2015 Urban Water Management Plan (UWMP), the OC Water Reliability Study, OCWD’s Long Term Facilities Plan, and other OCWD planning documents in their evaluation of Identified Need.</p> <p>On December 6, 2019, SARWQCB, Regional Board staff conducted a workshop in Huntington Beach that was heavily attended with a considerable range of views expressed at the meeting.</p> <p>On May 15, 2020, SARWQB held a second workshop, which focused on the identified need for the desalinated water and marine life mitigation requirements. Karl Seckel presented to the Regional Board on a number of topics including: MWDOC’s role in Orange County, alternative definitions of “need” for a water supply project and the role of water agencies, Urban Water Management Plans, non-mandated planning documents, and what was and was NOT in the 2018 OC Water Reliability Study.</p> <p>On September 15, 2020, the Regional Board postponed action on the waste discharge permit renewal at the request of Poseidon. Poseidon requested additional time to address concerns raised in three days of public hearings, among them: the need and cost of desalinated water; OCWD’s commitment to purchase the supply; the harm to marine life caused by the facility’s intake process; and whether the Bolsa Chica wetlands Marine Life Mitigation Plan satisfies the state’s Ocean Plan requirements for seawater desalination plants. Poseidon informed the Regional Board that it plans to evaluate the mitigation recommendations, work with resource agency and board staffs, and expects to complete the process within 45-60 days. Poseidon is currently working with the Regional Board on the next meeting date which appears that it may occur in February/March 2021.</p> <p>Assuming success at the Regional Board, Poseidon would then seek its final permits from the California Coastal Commission (CCC). The CCC has committed to reviewing the permit within 90 days of the SARWQCB NPDES permit issuance.</p>
<b>Trampas Canyon Dam and Reservoir</b>	<p>Trampas Canyon Reservoir and Dam (Trampas Reservoir) is a seasonal recycled water storage reservoir, with a total capacity of 5,000 AF, of which 2,500 AF is available to meet Santa Margarita Water District’s projected base recycled water demands, and 2,500 AF to meet future water supply needs. When completed, the Trampas Reservoir will allow SMWD to store recycled water in the winter and draw on that water during the peak summer months.</p> <p>The construction of the Trampas Canyon Recycled Water Seasonal Storage Reservoir consists of three main components:</p>

	<ol style="list-style-type: none"> <li>1. Trampas Canyon Dam (Dam)</li> <li>2. Conveyance facilities to transport recycled water into and out of the Reservoir (Pipelines)</li> <li>3. Trampas Canyon Pump Station (Pump Station)</li> </ol> <p>The construction of the facilities is being completed in three phases:</p> <ol style="list-style-type: none"> <li>1. Preconstruction/Site Preparation for the Dam and Pump Station Construction <p>Project Status - Complete</p> </li> <li>2. Dam and Pipelines <p>Project Status – A Dedication Ceremony was held on October 9, 2020.</p> <p>SMWD and the Contractor are still working through a few issues that require resolution before the Division of Safety of Dams (DSOD) permit to fill the Reservoir can be obtained:</p> <ul style="list-style-type: none"> <li>• Potential for the need to replace structural slurry in the cut off wall of the West Dam.</li> </ul> </li> <li>3. Pump Station <p>Project Status – The construction period for the Pump Station began in January and is likely to be substantially complete by late-December. This date has been delayed by 12 weeks due to late projected deliveries of the special pump control valves. The Pump Station is not needed to operate the Dam &amp; Reservoir for filling purposes, so the control valve delay is considered inconsequential.</p> </li> </ol> <p>AECOM and SMWD will be submitting the Emergency Action Plan (EAP) for Trampas Dam in mid-December to CalOES for review and approval. The approval of this Plan is prerequisite to DSOD issuing a permit to operate Trampas Dam.</p>
<b>AMP Shutdown in 2021 to Replace PCCP Sections</b>	<p>In 2016, MET initiated a Prestressed Concrete Cylinder Pipe (PCCP) rehabilitation program to install 100 miles of steel liner throughout the MET system to address structural issues associated with prestressed steel wire failures in PCCP. As part of the program, MET monitors PCCP for wire breaks on a regular basis.</p> <p>MWDOC staff was notified that an internal inspection of the AMP revealed two pipe segments with increased wire breaks within the PCCP portion south of OC-70. Metropolitan Engineering considers this section of the pipeline to be at high-risk due to pipe segments that have 20 or more wire breaks. The minimum relining length needed is approximately 1,000 feet and requires a minimum 37-day shutdown for the portion of the AMP south of OC-70. MET had originally scheduled the AMP PCCP relining to begin in about 5 years, but based on the</p>

	<p>survey, MET does not recommend that repairs to these segments wait until Fall 2021.</p> <p>Two MWDOC member agency projects are also scheduled around the same time as the pending AMP shutdown; a South Coast Water District vault rehabilitation on the JTM that was previously postponed due to the previous Diemer shutdown, and Santa Margarita Water District relocation of a portion of the Aufdenkamp Connection Transmission Main (ACTM) to accommodate the I-5 widening project. The South Coast project is scheduled for completion by the beginning of February 2021.</p> <p>MWDOC staff coordinated meetings with all affected AMP participants to discuss expediting the ACTM work. The agencies agreed to share \$35,000 in additional costs to accelerate the return of the ACTM to service. SMWD staff report that the ACTM project is moving forward on schedule and anticipate being back in service prior to the AMP shutdown.</p> <p>The AMP shutdown is planned for April 3, 2021 through May 9, 2021.</p> <p>Staff is continuing to work with affected agencies and will keep both the Board and the AMP Participants informed as more information becomes available.</p>
<b>Other Shutdowns</b>	<p><b>Orange County Feeder</b></p> <p>MET is planning to reline and replace valves in a section of the Orange County Feeder from Bristol Ave to Corona Del Mar – this is the last section of this 80-year old pipeline to be lined. A meeting was held on August 27, 2020 between staff from MET, MWDOC, and Mesa WD and a plan was developed to allow the shutdown to move forward, while addressing MWDOC member agency concerns. Staff will continue to work with our member agencies and MET through this shutdown.</p> <p>Due to CIP budgeting changes, MET has proposed new shutdown dates of September 15, 2021 through June 15, 2021. MET will be re-evaluating this Orange County Feeder relining project in the June 2021 budget review.</p> <p><b>Joint Transmission Main</b></p> <p>SCWD is planning a rehabilitation project of their CM-10 vault in early 2021 on the Joint Transmission Main (JTM) which will include replacement of existing valves. MWDOC is coordinating this work with MET and SCWD, so the above referenced AMP shutdown and this project do not overlap.</p> <p><b>Aufdenkamp Connection Transmission Main</b></p> <p>SMWD is currently working on a relocation of the ACTM pipeline for the I-5 widening project. We are also coordinating with MET and SMWD, so the above referenced AMP shutdown and this project do not overlap.</p>

	<p><b>OC Feeder extension</b></p> <p>MET is planning to reline 300-linear feet of the OC Feeder extension affecting the City of Newport Beach. Due to CIP budgeting changes, MET has proposed revised shutdown dates of June 16, 2022 through July 10, 2022. MET will be re-evaluating this Orange County Feeder relining project in the June 2021 budget review.</p> <p><b>Lake Mathews Forebay</b></p> <p>MET is also planning a shutdown of the Lake Mathews Forebay for maintenance and repair work which will affect the Santiago Lateral from March 1-14, 2021. Staff is currently coordinating with MET and IRWD &amp; Trabuco Canyon WD on this shutdown.</p>
<b>Meetings</b>	
	MWDOC staff along with ABS Consulting, IDS Group and Optima RPM participated in several construction progress meetings in the month of December regarding the admin building seismic retrofit and remodel. Weekly progress meetings will continue through the completion of the project.
	Charles Busslinger and Chris Lingad attended the December 1, 2020 AMP Participants meeting.
	Charles Busslinger participated in the December 7, 2020 Geotechnical workshop for San Juan Creek regarding investigation work on the subsurface barrier near Stonehill Drive.
	Charles Busslinger attended the CDR Management Oversight Committee meeting on December 8, 2020. Due to COVID-19, 2020 demographic data is likely delayed by a few months.
	Charles Busslinger participated in the December 15, 2020 discussions with MET and EOCWD concerning OC-70 issues.
	Charles Busslinger attended a coordination meeting on December 16, 2020 with MWDOC staff, OCWD staff and CDM Smith concerning water demand forecast modeling for the Economic Benefits Study and the UWMPs. Results are anticipated in mid-January 2021.
	Charles Busslinger attended the Santiago Aqueduct Commission Quarterly meeting on December 17, 2020.
	Charles Busslinger attended the December 16, 2020 CalDesal Regulatory meeting. CalDesal will be hosting a Virtual Annual Conference on February 10 <sup>th</sup> & 11 <sup>th</sup> , 2021.
	Charles Busslinger conducted a coordination meeting on December 17, 2020 with CDM Smith and The Brattle Group to coordinate work on the Economic Benefits Study.

	Charles Busslinger participated in a meeting on LRP funding on December 22, 2020 with Melissa Baum-Haley and SMWD.
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# Planning and Operations Committee

## WEROC Status Report

Item No. 12b

### December 2020

#### COVID-19 (CORONA VIRUS) COORDINATION

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- WEROC continues to monitor the State and County for changing information and is sharing information with agencies as it becomes available.
- WEROC is participating in the weekly Operational Area Conference calls.
- WEROC continues to hold bi-weekly conference calls on Tuesdays with member agencies to report on Federal, State, and County changes. Calls continue to support the sharing of information between agencies.
- Vicki continues to support agencies daily with COVID-19 related questions and guidance needs.
- On 12/22/20, WEROC conducted a meeting with the water and wastewater general and utility managers in regards to vaccine and point of dispensing Planning.
- On 12/30/20, WEROC participated on the Orange County Health Care Agency POD webinar.

#### DECEMBER INCIDENTS/EVENTS:

##### (PUBLIC SAFETY POWER SHUTOFFS, BOND FIRE, SMOKE ADVISORY)

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- There were three – Public Safety Power Shut off events in December. WEROC PSPS Standard Operating Procedure was implemented. WEROC sent information out to agencies on the weather and Southern California Edison and San Diego Gas and Electric potential circuits identified for shut off based on the Red Flag Warning and predicted weather events.
- WEROC coordinated with the following agencies during the Bond Fire: Irvine Ranch Water District, Trabuco Canyon Water District, El Toro Water District, Santa Margarita Water District, Serrano Water District, East Orange County Water District, city of Orange, city of Tustin and Golden State Water District were affected either directly or indirectly impacted by the fire and PSPS during this event.
  - WEROC coordinated with impacted agencies throughout the events and provided updates to all member agencies.

- WEROC did logistical coordination between agencies for potential mutual aid needs for generators.
  - WEROC maintained coordination as a liaison with the OA EOC and the Incident Command Posts.
  - WEROC attended the Cooperator Briefings and operational meetings on behalf of water agencies.
  - WEROC held coordination calls with the affected agencies in order to share information and preplan.
  - WEROC monitored community meeting and relayed any important information to member agencies.
- WEROC implemented the Smoke Advisory Procedure provided updates for advisories to the member agencies.

### **AMERICA'S WATER INFRASTRUCTURE ACT (AWIA)**

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- WEROC and its consultant, Herndon Solutions Group (HSG) continues to work with WEROC agencies to achieve compliance with America's Water Infrastructure Act (AWIA).
  - Tier II agencies successfully completed their RRA submittals by the December 31, 2020 deadline. The Emergency Response Plan phase will be due in June, 2021.
  - Tier III agencies shall begin their RRA portion in January. The Tier III agencies RRA is due June 30, 2021.
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### **COMMUNICATION AND COORDINATION WITH MEMBER AGENCIES AND OUTSIDE AGENCIES**

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- On December 1<sup>st</sup>, Vicki attended the ISDOC Executive Meeting and provided an Operational Area update.
- On December 1<sup>st</sup>, WEROC participated in the Public Safety Power Shutoff phone call with SDGE on the PSPS Event the beginning of December.
- On December 1<sup>st</sup>, WEROC participated in the County Silverado and Blue Ridge After Action Report meeting hosted by the Operational Area.

- On December 7<sup>th</sup>, WEROC participated in a follow up meeting with OCSD on the WEROC Assessment Report.
- On December 9<sup>th</sup>, Vicki participated in the review meeting for the Unified County of Orange and Orange County Operational Area Emergency Operational Plan. Vicki provided feedback to the county regarding some water related information.
- On December 10<sup>th</sup>, WEROC attended the monthly OCEDO meeting. The main focus was end of the year information including awards, election result and general business report outs by the different sub groups.
- On December 10<sup>th</sup>, WEROC attended the SCAQMD PSPS and Generator discussion regarding the procedural and process guidelines in relationship to generator use during emergencies or Public Safety Power Shut Off events. SCAQMD did a presentation on historical and current regulatory guidance. The next meeting should occur in February where they will present recommended guidelines to address this issue. WEROC will continue to advocate on behalf of the water and wastewater agencies.
- Vicki has been invited by the US EPA to speak about the WEROC program, the partnership between water utilities in OC and how that helps individual member utilities during a PSPS event and with the collaboration with the Orange County Emergency Management Division.
- WEROC is participating with the OC Post Fire Debris Flow Taskforce Meeting for the Silverado, Blue Ridge, and Bond Fire conducted by the Operational Area. There has been two meeting conducted in December.
- Daniel is providing important cyber security information to the member agencies. The Cyber Communications group is being used for this information.

## **EMERGENCY OPERATIONS CENTER READINESS AND SYSTEMS**

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- Daniel is working on maintaining the operational function for the South EOC. He is focused on the projects areas with the generator and IT systems.

There is no update on the status of the WebEOC Resource Management and Resource Request board issues.

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## TRAINING AND EXERCISES

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- Vicki attended the Management 343 Water Disaster Management class via webinar on December 15-18<sup>th</sup>. Information from this course will be incorporated in the trainings being offered by WEROC.
- ICS 300 – Intermediate Incident Command is being conducted by WEROC for the member agencies on January 18-22<sup>nd</sup>.

**Status of Water Use Efficiency Projects  
December 2020**

<b>Description</b>	<b>Lead Agency</b>	<b>Status % Complete</b>	<b>Scheduled Completion or Renewal Date</b>	<b>Comments</b>
<b>Smart Timer Rebate Program</b>	MWDSC	Ongoing	Ongoing	In November 2020, 311 smart timers were installed in Orange County.  To date, 28,759 smart timers have been installed through this program.
<b>Rotating Nozzles Rebate Program</b>	MWDSC	Ongoing	Ongoing	In November 2020, 116 rotating nozzles were installed in Orange County.  To date, 571,507 rotating nozzles have been installed through this program.
<b>SoCal Water\$mart Residential Indoor Rebate Program</b>	MWDSC	Ongoing	Ongoing	In November 2020, 264 high efficiency clothes washers and 15 premium high efficiency toilets were installed in Orange County.  To date, 122,580 high efficiency clothes washers and 60,636 high efficiency toilets have been installed through this program.
<b>SoCal Water\$mart Commercial Rebate Program</b>	MWDSC	Ongoing	Ongoing	In November 2020, no commercial devices were installed in Orange County.  To date, 110,508 commercial devices have been installed through this program.
<b>Industrial Process/ Water Savings Incentive Program (WSIP)</b>	MWDSC	Ongoing	Ongoing	This program is designed to improve water efficiency for commercial customers through upgraded equipment or services that do not qualify for standard rebates. Incentives are based on the amount of water customers save and allow for customers to implement custom water-saving projects.  Total water savings to date for the entire program is 1,284 AFY and 5,577 AF cumulatively.

Description	Lead Agency	Status % Complete	Scheduled Completion or Renewal Date	Comments
<b>Turf Removal Program</b>	MWDOC	Ongoing	Ongoing	<p>In November 2020, 19 rebates were paid, representing \$118,041 in rebates paid this month in Orange County.</p> <p>To date, the Turf Removal Program has removed approximately 23 million square feet of turf.</p>
<b>Spray to Drip Rebate Program</b>	MWDOC	Ongoing	Ongoing	<p>This is a rebate program designed to encourage residential and commercial property owners to convert their existing conventional spray heads to low-volume, low-precipitation drip technology.</p> <p>To date, the Spray to Drip Rebate Program has converted approximately 1,025,764 square feet of area irrigated by conventional spray heads to drip irrigation.</p>
<b>Recycled Water Retrofit Program</b>	MWDSC	Ongoing	Ongoing	<p>This program provides incentives to commercial sites for converting dedicated irrigation meters to recycled water.</p> <p>To date, 166 sites, irrigating a total of 1,598 acres of landscape, have been converted. The total potable water savings achieved by these projects is 3,489 AFY and 14,626 AF cumulatively.</p>

**Public & Governmental Affairs Activities Report**  
**December 10, 2020 – December 28, 2020**

**Item No. 12d**

<b>Member Agency Relations</b>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"><li>• Participated in Metropolitan Water District of Southern California's virtual Water Awareness Poster Contest awards ceremony and provided a Ricky Raindrop appearance</li><li>• Distributed workshop survey to member agency Public Information Officers</li><li>• Produced a gift celebrating the retirement of Lisa Ohlund</li></ul> <p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"><li>• Circulated the ACWA Federal Affairs Committee federal priorities to member agencies for feedback and input</li><li>• Hosted the Grants Bi-Monthly information call for MWDOC and member agency staff</li></ul>
<b>Community Relations</b>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"><li>• Began discussions with Girl Scouts of Orange County regarding a virtual MWDOC Water Resources and Conservation Patch Program</li></ul> <p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"><li>• Attended the Women in Water meeting with guest speaker, MWD Chairwoman Gloria Gray</li></ul>
<b>Education</b>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"><li>• Participated in the California Association of Public Information Officials' Southern California Regional Meeting</li><li>• Met with Strategic Energy Innovations regarding MWDOC Water Energy Education Alliance partnership</li><li>• Met with California Environmental Education Foundation, Los Angeles Department of Water and Power, and Metropolitan Water District of Southern California regarding the upcoming Water Energy Education Alliance Leadership Roundtable meeting</li><li>• Met with Ten Strands to discuss the incorporation of environmental literacy into Career Technical Education programs</li><li>• Provided information to the City of Fullerton regarding MWDOC Choice Middle School Program</li></ul>

<b>Special Projects</b>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> <li>• Produced resolutions celebrating the retirements of Larry McKenney Karl Seckel</li> <li>• Assisted Spirit Squad in coordinating MWDOC staff Holiday Party</li> <li>• Published several website updates</li> <li>• Met with Critical Mention and obtained subscription agreement for 2021-2022</li> <li>• Updated letterhead to reflect new Board of Directors and executives</li> <li>• Began budget preparations and evaluations for upcoming FY</li> </ul> <p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"> <li>• Staffed the WACO Planning Meeting</li> <li>• Coordinated with Serrano Water District and ISDOC incoming President, Mark Monin, on the ISDOC Executive Committee Agenda</li> <li>• Made updates and edits to the ISDOC membership renewal form</li> <li>• Sent out the ISDOC Quarterly Luncheon invite</li> </ul>
<b>Legislative Affairs</b>	<p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"> <li>• Met with new federal affairs consults, Natural Resource Results (NRR), and discussed water issues in Orange County</li> <li>• Attended a federal priorities meeting with NRR, Directors Tamaribuchi, Dick, and Yoo Schneider</li> <li>• Attended the San Diego County Water Authority Special Board Meeting with a legislative update with Senator Brian Jones</li> <li>• Participated in the ACWA Federal Affairs Committee Meeting</li> <li>• Attended the Colorado River Water Users Federal Friday event</li> </ul>