

I hereby certify that the following agenda was posted at least 72 hours prior to the time of the meeting so noticed below at 24251 Los Alisos Boulevard, Lake Forest, California.

DENNIS P. CAFFERTY, Secretary of the
El Toro Water District and the Board of
Directors thereof

AGENDA

EL TORO WATER DISTRICT REGULAR MEETING OF THE BOARD OF DIRECTORS

**September 26, 2019
7:30 a.m.**

CALL MEETING TO ORDER – President Vergara

PLEDGE OF ALLEGIANCE – Vice President Monin

ORAL COMMUNICATIONS/PUBLIC COMMENTS

Members of the public may address the Board at this time or they may reserve this opportunity with regard to an item on the agenda, until said item is discussed by the Board. Comments on other items will be heard at the time set aside for “DIRECTORS COMMENTS/NON-AGENDA ITEMS.” The public will identify themselves when called on and limit their comments to three minutes.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Determine need and take action to agendize items which arose subsequent to the posting of the Agenda. (ROLL CALL VOTE: Adoption of this recommendation requires a two-thirds vote of the Board members present, or, if less than two-thirds of the Board members are present, a unanimous vote of those members present.)

PRESENTATION OF AWARDS, RECOGNITIONS AND INTRODUCTIONS

a. Service Awards

- 1. Mr. Cafferty will recognize and congratulate Robert Hazzard, Customer Service Field Representative III, for 30 years of service with the District.**

2. Mr. Cafferty will recognize and congratulate Roman Kociban, Crew Chief, for 5 years of service with the District.

- b. Continuing Education & Training, Degree and Certification Program acknowledgement

There are no acknowledgements.

- c. Special District/Employee Association/Community Award Acknowledgement and Employee Special Recognition

There are no acknowledgements.

CONSENT CALENDAR

(All matters under the Consent Calendar will be approved by one motion unless a Board member or a member of the public requests separate action or discussion on a specific item)

1. **Approval of Minutes/Conferences** (Minutes Included)

- a. Consider approving the minutes of the August 22, 2019 Board meeting

APPROVAL OF ITEMS REMOVED FROM TODAY'S CONSENT CALENDAR

The Board will discuss items removed from today's Consent Calendar requiring further discussion.

Recommended Action: The Board will be requested to approve the items removed from today's consent Calendar.

DIRECTOR/COMMITTEE REPORTING

2. **Director Reports for Meetings Attended** (Oral Report)

GENERAL MANAGER ACTION ITEMS

3. **Resolution No. 19-9-1 Amending Policy Statement 1985-5 (IV) Travel and Expense Reimbursement Policy** (Reference Material Included)

Staff and the Board will review the proposed amendment to the District's Travel and Expense Reimbursement Policy.

Recommended Action: Staff recommends that the Board adopt Resolution No. 19-9-1 which amends the Districts Policy Statement 1985-5 (IV) Travel and Expense Reimbursement Policy.

RESOLUTION NO. 19-9-1
OF THE BOARD OF DIRECTORS
OF THE EL TORO WATER DISTRICT
AMENDING THE DISTRICT'S POLICY STATEMENT 1985-5 (IV)
TRAVEL AND EXPENSE REIMBURSEMENT POLICY

GENERAL MANAGER INFORMATION ITEMS

4. General Manager's Monthly Report (Report Included)

Staff will review and comment on the General Manager's Monthly Report.

5. Legislative Reports (Reference Materials Included)

Staff and General Counsel will review and comment on the Legislative reports.

6. Public Education and Outreach & Water Conservation Reports
(Reference Material Included)

7. SOCWA Reports (Reference Material Included)

- a. SOCWA Managers Workshop – August 27, 2019
- b. SOCWA Finance Committee Meeting – September 3, 2019
- c. SOCWA Board Meeting – September 5, 2019
- d. SOCWA Engineering Committee Meeting – September 12, 2019
- e. SOCWA Managers Roundtable Workshop – September 19, 2019

8. Municipal Water District Of Orange County (MWDOC) Report
(Reference Material Included)

- a. MWDOC Planning/Operations Committee – September 3, 2019
- b. MWDOC/MET Directors Workshop – September 4, 2019
- c. MWDOC Water Policy Forum Dinner – September 5, 2019
- d. MWDOC Administration & Finance Committee – September 11, 2019
- e. MWDOC Public Affairs & Legislation Committee – September 16, 2019

- f. MWDOC Board Meeting – September 18, 2019
- g. MWDOC Managers Meeting – September 19, 2019

9. Local Agency Formation Commission (LAFCO) Report

- a. There was no meeting.

10. LAFCO Municipal Service Review (MSR) (Reference Material Included)

Staff will provide an update on the LAFCO Municipal Service Review Process

11. South Orange County Watershed Management Area (SOCWMA) Management and/or Executive Committee Report

- a. Report on the September 9, 2019 SOCWMA Management Committee meeting – conference call

12. ISDOC Meetings (Reference Material Included)

- a. Report on the September 3, 2019 ISDOC Executive Committee Meeting

13. WACO Meetings (Reference Material Included)

- a. Report on the September 6, 2019 WACO Meeting
- b. Report on the September 17, 2019 WACO Planning Committee meeting

14. City Coordination Efforts

- a. Report on the August 28, 2019 meeting

COMMITTEE AND GENERAL INFORMATION

15. Dates to Remember for September/October 2019(Reference Material Included)

16. Carry-Over Pending Matters

DIRECTOR COMMENTS/NON-AGENDA ITEMS

ATTORNEY REPORT

CLOSED SESSION

At this time the Board will go into Closed Session as follows:

1. At this time the Board will go into Closed Session pursuant to Government Code Section 54956.9 (d) (2) to consult with legal counsel and staff –Potential Litigation (two matters).
2. In accordance with Government Code Section 54956.96 in order to receive, discuss, and/or take action concerning information obtained by the District's representative pertaining to a closed session of the South Orange County Wastewater Authority "SOCWA", a joint powers agency.

REGULAR SESSION

REPORT ON CLOSED SESSION (Legal Counsel)

Mr. Granito will provide an oral report on the Closed Session.

ADJOURNMENT

Recommended Action: The Board will be requested to take action adjourning today's Board meeting to **Thursday, October 24, 2019 at 7:30 a.m.** at the El Toro Water District, 24251 Los Alisos Boulevard, Lake Forest, California.

The agenda material for this meeting is available to the public at the District's Administrative Office, which is located at 24251 Los Alisos Blvd., Lake Forest, Ca. 92630. If any additional material related to an open session agenda item is distributed to all or a majority of the board of directors after this agenda is posted, such material will be made available for immediate public inspection at the same location.

Request for Disability-Related Modifications or Accommodations

If you require any disability-related accommodation, including auxiliary aids or services, in order to participate in this public meeting, please telephone the District's Recording Secretary, Polly Welsch at (949) 837-7050, extension 225 at least forty-eight (48) hours prior to said meeting. If you prefer, your request may be submitted in writing to El Toro Water District, P.O. Box 4000, Laguna Hills, California 92654, Attention: Polly Welsch.

MINUTES OF THE REGULAR MEETING
OF THE
BOARD OF DIRECTORS
OF THE
EL TORO WATER DISTRICT
August 22, 2019

President Vergara called the meeting of the Board of Directors of the ELTORO WATER DISTRICT to order at 7:30 o'clock a.m. on August 22, 2019 at the El Toro Water District Administrative Offices, 24251 Los Alisos Boulevard, Lake Forest, California.

Director Gaskins led in the Pledge of Allegiance to the flag.

Present at today's meeting were Committee Members JOSE F. VERGARA, MARK MONIN (via teleconference), KATHRYN FRESHLEY, MIKE GASKINS, and KAY HAVENS.

Also present were DENNIS P. CAFFERTY, General Manager, JUDY CIMORELL, Human Resources Manager, NEELY SHAHBAKHTI, Finance Manager/Controller, GILBERT J. GRANITO, General Counsel, ROBERT MCKERN, Employee, KEITH STRIBLING, HIGHMARK Representative, and POLLY WELSCH, Recording Secretary.

President Vergara asked the Recording Secretary to provide a Roll Call to ensure that we have a quorum at today's Board meeting.

Roll Call:

Director Freshley	present
Director Havens	present
President Vergara	present
Vice President Monin	present (via teleconference)
Director Gaskins	present

The Roll Call was successful in ensuring that we have a quorum at today's Board meeting.

Oral Communications - Public Comments

President Vergara stated that at this time members of the public may address the Board or they may reserve this opportunity with regards to an item on the agenda, until the Board discusses said item later in today's meeting.

There were no comments.

Items Received Too Late To Be Agendized

President Vergara asked if there are any items received too late to be agendized. Mr. Cafferty replied no.

Presentation of Awards, Recognitions and Introductions

- a. Mr. Cafferty recognized and congratulated Robert McKern, Customer Service Representative I, for obtaining his Water Treatment Operator Grade T2 from the State of California Water Resources Control Board.

At approximately 7:41 o'clock a.m. Mr. McKern left the meeting.

Quarterly Review of the District's 401(k) Retirement Savings Plan

Mr. Stribling stated that the Investment Pool Asset Allocation is on page 6, and pages 7-13 cover the Investment Portfolio performance. He further stated that all of the portfolios were up approximately 3% for the quarter.

Mr. Stribling stated that they ranged from Capital Preservation up 2.8% to the Growth Portfolio up 3.3%, and it was a flat quarter relative to the benchmark, plus or minus 15 basis points across the portfolio relative to the benchmark, but year to date they remain at 30-60 basis points ahead of the benchmark. He further stated that the Conservative Portfolio is up approximately 8%, and the Growth Portfolio is up approximately 15%.

Mr. Stribling stated that it has been a good year for stocks and bonds. He further stated that Small Cap had a very strong performance, although the category was not as good as a whole, but the value, growth, and the Forward Small Cap fund vastly outperformed their benchmark.

Mr. Stribling stated that in general the foreign stocks did better than the relative performance in the benchmark. He further stated that the Large Cap Value segment underperformed the benchmark, and it has been a rough ride for the banking system.

Mr. Stribling stated that Fixed Income was in line with the benchmark, but on a year to date basis the alternative strategies have been a struggle of 150 basis points under, but they did better this quarter. He further stated that one alternative fund has been placed on the management research group watch list is the Market Neutral fund.

Mr. Stribling stated that looking at July, the performance was good across all of the portfolios and were up between 45 and 80 basis points for the month which was ahead of the benchmark. He further stated that Small Cap, Alternatives, and International performed well.

Mr. Stribling stated that for the month of July performance was 10-20 basis points ahead of the benchmark.

Mr. Stribling stated that the Fed lowered interest rates in July, and lower rates are expected again two or more times throughout the year. He further stated that European economies are struggling.

Mr. Stribling stated that the Yield Curve is inverted which could mean a moving recession, or a slowing economy.

Director Havens asked what is the total value of all the investments in the portfolio. Mr. Stribling replied approximately \$21 million. Director Havens asked what fees do they charge on this portfolio management. Mr. Cafferty replied that we negotiated the fees a few years ago, and it was set at 30.5 basis points. Director Havens asked over the past few years how would they rank their performance. Mr. Stribling replied that there was a 4-month period that was not good, but hoping we are past that now.

Vice President Monin stated that on page 17, the AQR Market Neutral should be on a watch list since it has been negative. Mr. Stribling stated that the AQR Style Premia is also negative.

At approximately 8:03 o'clock a.m. Mr. Stribling left the meeting.

Consent Calendar

All matters under the Consent Calendar will be approved by one motion unless a Board member or a member of the public requests separate action or discussion on a specific item.

2.a Consider approving the July 25, 2019 Board meeting minutes.

2.b Consider approving the Directors to attend the American Water Resource Association (AWRA) conference November 3-7, 2019 in Salt Lake City, UT

2.c Consider approving Director Gaskins to participate on the Association of California Water Agencies (ACWA) Water Quality Committee

2d. Consider approving Director Monin to participate on the Association of California Water Agencies (ACWA) Finance Committee

President Vergara stated that he wants to discuss item 2.b. The Board members discussed approving this conference.

President Vergara asked for a Motion.

Motion: Director Gaskins made a Motion, seconded by Director Havens, and unanimously carried across the Board to approve the Consent Calendar.

Roll Call Vote:

Director Gaskins	aye
Vice President Monin	aye
President Vergara	aye
Director Havens	aye
Director Freshley	aye

Director/Committee Reporting

Director Freshley stated that she attended the ACWA workshop, the SOCWA Board meeting, and she will be participating in a Special Workshop next week at SOCWA regarding Pension Liabilities. She further stated that she attended LAFCO, and our Plant Tour.

Director Havens stated that she attended WACO, CAG, Watershed Management, a Public Safety Power Shutdown meeting by ACWA, MWD OC Public Affairs, Plant Tour, OCWA, City of Laguna Woods City Council

meeting, and will be attending the WaterReuse meeting later this month, and the Aliso Creek Watershed Collaborative meeting.

Director Gaskins stated that he attended WACO, ISDOC, SOCWA, CAG, the Plant Tour, OCWA, the Urban Water Institute conference, and will be on TV-6 later this month.

Vice President Monin stated that he attended the ACWA Region 10 meeting, the MWDOC/MET Workshop, WACO, ISDOC, a meeting with the Orange County Sheriff, MWDOC Admin/Finance meeting, ACWA Education Committee, ACWA Budget Committee, ACWA Finance Committee, ACWA Energy Committee, CASA conference, and ACWA Business Development Committee.

President Vergara stated that he attended WACO, MWDOC Planning/Operations meeting, MWDOC/MET Workshop, CAG, Chair/GM meetings, OCWA, and will be attending the WaterReuse meeting next week, and the South Orange County Agencies meeting.

General Manager Action Items

ACWA Region 10 Board Election

Mr. Cafferty stated that the package includes the ACWA Board Ballot that must be cast by September 30th. He further stated that the recommended slate did not include Director Monin.

Mr. Cafferty stated that ACWA requires that the ballots be cast per their guidelines, including no more than 3 candidates in Orange County for Board Member positions.

President Vergara asked for a Motion.

Motion: Director Gaskins made a Motion, seconded by Director Freshley, and unanimously carried across the Board to authorize and direct the General Manager to cast the ballot that 1) does not concur with ACWA's recommended slate; 2) and instead, vote for DeAna Verbeke as the Chair, Cathy Green as the Vice Chair, and Betty Evans, Charles Gibson, Shauna Lorange, Mark Monin, and Peer Swan as the Board members, and 3) to email the ballot to ACWA by the September 30, 2019 deadline.

Roll Call Vote:

Director Freshley	aye
Director Havens	aye
President Vergara	aye
Vice President Monin	aye
Director Gaskins	aye

Consulting Agreement with Bob Hill

Mr. Cafferty stated that the agreement provides the opportunity if we need assistance from Bob Hill, on an as-needed basis. He further stated that the HR Committee has reviewed the agreement, along with Bob Hill.

President Vergara asked for a Motion.

Motion: Director Freshley made a Motion, seconded by Director Gaskins, and unanimously carried across the Board to authorize the District's General Manager to enter into a consulting contract with Bob Hill for periodic support services.

Roll Call Vote:

Director Freshley	aye
Director Havens	aye
President Vergara	aye
Vice President Monin	aye
Director Gaskins	aye

Resolution No. 19-8-3 Charley Wilson Resolution

Mr. Cafferty stated that Mr. Wilson is retiring from the SMWD Board, and several agencies will be recognizing him for his years of service at the SMWD next Board meeting.

Motion: Director Freshley made a Motion, seconded by Director Havens, and unanimously carried across the Board to approve Resolution No. 19-8-3 which commends Charley Wilson on his 19 years of service with the SMWD and his more than 17 years serving on the County of Orange Board of the OC LAFCO, and authorize the General Manager to present the Resolution to Charley Wilson.

Roll Call Vote:

Director Freshley	aye
Director Havens	aye
President Vergara	aye
Vice President Monin	aye
Director Gaskins	aye

Resolution No. 19-8-4 Modifying Standing Committee and External Organization Board and Staff Assignments

Mr. Cafferty stated that we are making one small change to the RRC Committee which reviews the SOCWA Board packages.

President Vergara asked for a Motion.

Motion: Director Freshley made a Motion, seconded by Director Havens and unanimously carried across the Board to adopt Resolution No. 19-8-4 which modifies the Standing Committee and External Organization Board and Staff Assignments for the balance of calendar year 2019, effective August 22, 2019.

Roll Call Vote:

Director Freshley	aye
Director Havens	aye
President Vergara	aye
Vice President Monin	aye
Director Gaskins	aye

General Manager Information Items

General Manager's Monthly Report

Mr. Cafferty stated that he included a summary of the battery system at the Plant, showing the first billing period that the savings associated is approximately \$2,700 and we pay AMS a portion of this, so our share is about \$800.

Director Havens asked on the nitrate monitoring, do we have a consistent problem at R-1. Mr. Cafferty replied that R-1 is a sample point with less potable water flowing through, so we are monitoring and flushing this area and the R-17 area.

Director Freshley asked why the meter box lid covers replaced was high. Mr. Cafferty replied that if a meter box lid is cracked or raised, staff will replace it for safety purposes.

Legislative Reports

There were no comments.

Public Education and Outreach/Water Conservation Reports

Ms. Seitz stated that staff is working with Calscape Nursery Pilot Committee and getting the program online in October.

Ms. Seitz stated that Mavens Notebook is a valuable online resource dedicated to California water topics, meetings, and informational items gathered from reliable sources on the web.

Ms. Seitz stated that staff hosted a booth and the drinking water trailer at the City of Laguna Woods Dog Park Grand Opening in July.

Ms. Seitz stated that the staff will host a booth and the drinking water trailer at the UC ANR Urban Living Education Expo in September in Irvine.

At approximately 8:59 o'clock a.m. Ms. Seitz left the meeting.

SOCWA Reports

Director Freshley stated that at the SOCWA Board meeting the discussion was on budgets and software.

MWDOC

President Vergara stated that at the MWDOC Planning/Operations meeting they discussed Amendment No. 8 to SAC JPA.

Vice President Monin stated that at the MWDOC/MET Directors Workshop they had a presentation on the Regional Recycling Water Program, and an update on the Delta Conveyance. He further stated that they also discussed raw water called the Carson project.

Vice President Monin stated that at the MWDOC Admin/Finance meeting they discussed the OPEB Pre-funding Trust Program and Pension Rate Stabilization Program Client Review, and internal policies.

LAFCO

Director Freshley stated that they are working on MSR/SOI's.

SOCWMA

Director Havens stated that there were 4 proposals evaluated and approved.

ISDOC Meetings

Vice President Monin stated that he was put on the Emergency Committee. He further stated that Supervisor Bartlett will be speaking at the October 24th quarterly meeting, Joan has returned to her Treasurer duties, and Kelly Hubbard gave an update on WEROC.

WACO Meetings

President Vergara stated that we were not able to attend the WACO Planning Committee meeting due to our Regular Engineering/Finance Committee meeting being at the same time.

City Coordination Efforts

There were no comments.

Committee and General Information

Director Gaskins stated that he attended the Urban Water Institute in San Diego, where they discussed getting water into Southern California.

Vice President Monin stated that he is interested in updates on the Salton Sea.

Director Havens commented on power shutdowns and PG&E high powerlines.

Dates to Remember

There were no comments.

Carry-Over Pending Matters

There were no pending matters.

Attorney Report

Mr. Granito reported that there is no need for a Closed Session today.

Mr. Granito reported that the California Law Commission is in the later stages of reorganizing California's Public Records Act. Mr. Granito stated that he will keep the Board apprised as the matter moves forward.

Adjournment

There being no further business to come before the Board, the following motion was duly made and passed.

Motion: Director Havens moved, seconded by Director Gaskins and unanimously carried that today's meeting be hereby adjourned at 9:30 o'clock a.m. to Thursday, September 26, 2019 at 7:30 o'clock a.m. at the District's Administrative Offices, 24251 Los Alisos Blvd., Lake Forest, California.

Roll Call Vote:

Director Gaskins	aye
Vice President Monin	aye (via teleconference)
Director Havens	aye
President Vergara	aye
Director Freshley	aye

Respectfully submitted,

POLLY WELSCH
Recording Secretary

APPROVED:

JOSE F. VERGARA, President of
the El Toro Water District and the
Board of Directors thereof

DENNIS P. CAFFERTY, Secretary
of the El Toro Water District and
the Board of Directors thereof

TRAVEL AND EXPENSE REIMBURSEMENT POLICY

A redline of the proposed revisions to the Travel and Expense Reimbursement Policy (Policy) is attached. The Policy consists of two components, one specific to District employees and one specific to Directors. A summary of the proposed changes to the Policy follows:

Travel and Expense Reimbursement Policy for Employees

Section IV-8-K Adds the following provision:

- vi. Paid, itemized receipts for meals, in addition to any credit card receipts, are required if meal expenses have been incurred.*

Director Travel and Expense Reimbursement

Section I Members of the Board of Directors are encouraged to attend, with prior approval by **the Board or** the Board President, educational conferences and professional meetings when the purposes of such activities are to benefit the El Toro Water District. In addition, subject to prior approval of **the Board or** the Board President, the District encourages Directors development and excellence of performance by reimbursing expenses incurred for tuition, travel, lodging and meals as a result of training, educational courses and participation with professional organizations, associated with the interests of the District.

Section VII-B Adds the following language:

Travel related expenses for each Director are limited to \$7,000 per fiscal year. Unused portions of the Director's annual budget for this purpose cannot be carried over to a subsequent budget period. **No further reimbursements will be made to any Director if their travel related expenses reach the \$7,000 limit in any fiscal year.**

Section VII-D Directors will submit their Travel Expense Claim Form for reimbursement to the District office within the first week, if possible of each month for the prior month's expenses. The Board President, **General Manager** or designated representative will approve and sign the Claim Form before request for payment can be processed. The Board President's Claim Form shall be approved by the General Manager or Assistant General Manager.

RECOMMENDATION

Recommended Action:

Staff recommends the Board adopt Resolution No. 19-9-1 which amends the District's Policy Statement 1985-5 (IV) Travel and Expense Reimbursement Policy.

By: Dennis Cafferty
Date: September 19, 2019

RESOLUTION NO. 19-9-1

RESOLUTION OF THE BOARD OF DIRECTORS
OF THE EL TORO WATER DISTRICT
AMENDING POLICY STATEMENT 1985-5 (IV)
“DIRECTOR TRAVEL AND EXPENSE REIMBURSEMENT”

WHEREAS, the Board of Directors of the El Toro Water District desires to amend its existing policy with regard to Director Travel and Reimbursements;

NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED as follows:

Policy Statement - Director Travel and Expense Reimbursement 1985-5(IV) is hereby amended, approved and adopted in the form and content attached to this Resolution marked Exhibit "A";

ADOPTED, SIGNED AND APPROVED this 26th day of September 2019.

(SEAL)

JOSE F. VERGARA, President
El Toro Water District and of the
Board of Directors thereof

ATTEST

DENNIS P. CAFFERTY, Secretary
El Toro Water District and of
the Board of Directors thereof

Prepared by: Staff	EL TORO WATER DISTRICT POLICY STATEMENT 1985-5 (IV) TRAVEL AND EXPENSE REIMBURSEMENT POLICY	Page 1 of 14 Item 4 Section IV
Approved by: Board of Directors		Date: 9/27/18 Revision: 14

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Prepared by: Board	EL TORO WATER DISTRICT	Page 2 of 14 Item 4 Section IV
Approved by: Board of Directors	POLICY STATEMENT 1985-5 (IV)	Date: 9/27/18 Revision: 14

TRAVEL AND EXPENSE REIMBURSEMENT POLICY
FOR EMPLOYEES

I. PURPOSE

To advance training and professionalism, the El Toro Water District (District) encourages and authorizes attendance at various schools, seminars and conferences by its employees. Employees may also be required to travel both in and outside the state to conduct official District business. The purpose of this travel and expense policy is to furnish rules, guidelines, and procedures for governing reimbursement for travel expenses, and to establish certain procedures concerning travel authorization, documentation, and accounting. The District's objectives are to allow travel arrangements, and activities for its employees that conserve District funds and that have a significant and meaningful link to the purposes, policies, and interests of the District.

"Travel" shall mean attendance at meetings, conferences, or other functions on District business at other than the employee's headquarters. Employees shall not be in travel status to the extent that they travel to perform job assignments related to District facilities within designated service or maintenance areas unless it is overnight.

II. AUTHORIZATION FOR TRAVEL

Employees, if authorized by their supervisors, may travel anywhere within Orange County to carry out their assignments.

Other travel on District business by employees shall be undertaken only with the prior approval of the General Manager, or the Assistant General Manager.

Prepared by: Board	EL TORO WATER DISTRICT	Page 3 of 14 Item 4 Section IV
Approved by: Board of Directors	POLICY STATEMENT 1985-5 (IV)	Date: 9/27/18 Revision: 14

TRAVEL AND EXPENSE REIMBURSEMENT POLICY
FOR EMPLOYEES
(Continued)

III TRAVEL ARRANGEMENTS

To ensure the accuracy of travel arrangements and compliance with District policy, all employees will be required to complete all the appropriate travel forms. The forms will then be submitted to the Board Secretary or designee for processing.

Employees traveling on District business may make all travel arrangements and registrations through the Board Secretary or designee. All such payment and registration requests must be submitted in a timely manner to allow sufficient time for normal processing.

IV. POLICY

1. Employees are expected to exercise good judgment and a proper regard for economy in incurring expenses.
2. When required, the District will prepay airfares, lodging costs and conference registration fees. All such payment requests must allow sufficient time for normal processing and approval prior to payment.
3. When traveling on official District business, employees are encouraged to utilize their personal credit cards and/or cash for all expenses, and then to request reimbursement for such expense. However, in circumstances where the use of such credit cards and/or cash is deemed impractical, and where the total expense is expected to exceed fifty (\$50.00), the District may provide an advance of funds. Such advance shall not exceed one hundred percent (100%) for the total estimated expense.
4. Within ten (10) working days after completion of a trip, a travel expense report should be submitted to the Board Secretary or designee.

Prepared by: Board	EL TORO WATER DISTRICT	Page 4 of 14 Item 4 Section IV
Approved by: Board of Directors	POLICY STATEMENT 1985-5 (IV)	Date: 9/27/18 Revision: 14

TRAVEL AND EXPENSE REIMBURSEMENT POLICY
FOR EMPLOYEES
(Continued)

5. Paid receipts for lodging, rail or airfares and conference registration fees are required if such expenses have been incurred. All other receipts received in the normal course of business shall also be attached.
6. There is no objection to an employee's spouse and/or other family member accompanying them on an official trip, provided that their presence does not detract from the employee's performance of duty. However, the District will not reimburse any expenses attributable to any companion.
7. In any situation where extraordinary travel expenses are expected to be incurred, or where this Policy does not adequately cover the situation or would result in an undue hardship, exceptions may be made with prior approval.
8. An employee may use any mode of transportation, designated or approved, including airline, railroad, bus or automobile. Reimbursement will be based on the following paragraphs.
 - A. Travel shall be by the most direct route. If an indirect route is used, the additional costs shall be at the employee's personal expense. Whenever air travel is used, an advance travel request shall be submitted to the Board Secretary or designee in order to obtain the lowest possible fare.
 - B. Air travel reimbursement shall be limited to economy fares including all applicable fee charges and taxes where such service is available. Travel to and from airports shall be by the most cost effective method.

Prepared by: Board	EL TORO WATER DISTRICT	Page 5 of 14 Item 4 Section IV
Approved by: Board of Directors	POLICY STATEMENT 1985-5 (IV)	Date: 9/27/18 Revision: 14

TRAVEL AND EXPENSE REIMBURSEMENT POLICY
FOR EMPLOYEES

- C. Reimbursement for the use of private cars, except those receiving a car allowance, shall be at the rate as established by the Internal Revenue Services (IRS). Mileage reimbursement shall be limited to the economy fare for air travel. Parking charges at the destination will be reimbursed in accordance with the provisions of this policy.
- D. Reimbursement for the use of rental cars will be allowed only when such use has been approved in advance. Maximum reimbursement for car rental will be for a full-size car.
- E. Travel in District vehicles may be approved when circumstances warrant it. When traveling in a District vehicle, receipts shall be secured for the purchase of gas, oil, and other supplies necessary en-route. These amounts shall be shown on the expense report with a notation that a District vehicle was used, indicating the District unit number, the license plate number and make of the vehicle. The amount of the charge shall be typed opposite the transportation category.

If emergency repairs are necessary, they shall be paid for by the person to whom the car is assigned. All receipts for such payments must be furnished in order to obtain reimbursement.
- F. It is expected that hotel and motel reservations will be made in advance whenever possible, and that lodging will be secured at rates considered reasonable for the particular destination. "Government rates" or "commercial rates" shall be requested at hotels and motels offering these discounts.

Prepared by: Board	EL TORO WATER DISTRICT	Page 6 of 14 Item 4 Section IV
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TRAVEL AND EXPENSE REIMBURSEMENT POLICY
FOR EMPLOYEES
(Continued)

- G. Reimbursement for lodging shall be limited to the minimum number of nights required to conduct the assigned District business. If an employee chooses to arrive earlier or stay later, the additional lodging and other expenses related to this decision will be the employee's personal expense.
- H. Generally, an employee shall not use lodging unless the destination is a 75-mile or more drive from the District's Administration Office or unless there is a very early or late official meeting that could justify the employee staying overnight at the destination.
- I. Any room service charges appearing on the hotel bill shall be deducted from the bill and reimbursed in accordance with the provisions of this policy.
- J. Local and long distance telephone and computer access charges will be reimbursed when such charges are incurred in conducting official District business or making essential personal calls such as a "safe arrival call." Charges will be shown on a separate line of the travel expense report and shall, therefore, be deducted from the hotel bill.
- K. When meals are associated with employee travel the following policies and procedures will apply:
 - i. Maximum allowance to cover meals, including meal tips, will be provided as follows:

Breakfast	\$15.00
Lunch	\$20.00
Dinner	\$30.00

Prepared by: Board	<p align="center">EL TORO WATER DISTRICT</p> <p align="center">POLICY STATEMENT</p> <p align="center">1985-5 (IV)</p>	Page 7 of 14 Item 4 Section IV
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TRAVEL AND EXPENSE REIMBURSEMENT POLICY
FOR EMPLOYEES
(Continued)

Under certain meeting or conference circumstances the maximum meal allowance may not be sufficient. In such cases, the General Manager has the authority to review and, if deemed appropriate, may approve the expenditure. Under similar instances involving the General Manager, the President of the Board of Directors shall review and, if deemed appropriate, may approve the expenditure.

- ii. No reimbursement shall be made for meals, other than during travel, without prior approval.
- iii. No reimbursement shall be made for alcohol at any time.
- iv. For travel that requires less than a full day, and for the day of departure and day of return on longer trips, the above amounts will be allowed for the meals actually required. All meal allowances shall be entered on the appropriate lines of the Travel Expense Report, with receipt(s) attached.
- v. When conference, seminar or school registration fees include one or more meals, or where individual meals are otherwise provided, no amount shall be entered for this meal on the travel expense form.

vi. Paid, itemized receipts for meals, in addition to any credit card receipts, are required if meal expenses have been incurred.

- L. At times when other expenses associated with travel are required, employees will be reimbursed for all business expenses necessary to conduct the assigned District business. Examples include, but are not limited to the following:

- i. Airport parking charges when air travel is used.

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<p style="text-align: center;">TRAVEL AND EXPENSE REIMBURSEMENT POLICY FOR EMPLOYEES (Continued)</p> <ul style="list-style-type: none"> ii. Parking charges at the destination hotel or garage when transportation is by private or rental car. iii. Airport bus/shuttle, or taxi fares where free airport bus/shuttle service is not available. iv. Conference, seminar or school registration fees. v. Local transportation (only as required for official District business). vi. A reasonable amount will be allowed for baggage handling, laundry and dry cleaning for employees attending a conference or school of more than one week in length. All receipts for such expense must be submitted with the travel expense report. vii. No reimbursement will be made for personal expenses such as newspapers, magazines, haircuts, shoeshines, excessive personal telephone calls, taxi fares to and from restaurants, and other personal expenses. 		

Prepared by: Staff/General Counsel	EL TORO WATER DISTRICT POLICY STATEMENT DIRECTOR TRAVEL AND EXPENSE REIMBURSEMENT 1985-5 (IV)	Page 9 of 14 Item 4 Section IV
Approved by: Board		Date: 9/27/18 Rev. 14
I. <u>PURPOSE</u> To advance training and professionalism, El Toro Water District (District) encourages and, with prior approval by the Board, authorizes attendance at conferences (i.e. ACWA, CSDA, WaterReuse, CASA) by its Board members (Directors). Directors may be required to travel both in and outside the state to conduct official District business. This policy is to furnish guidelines for reimbursement for travel expenses and to establish certain procedures concerning travel authorization and documentation. Members of the Board of Directors are encouraged to attend, with prior approval by <u>the Board or</u> the Board President, educational conferences and professional meetings when the purposes of such activities are to benefit the El Toro Water District. In addition, subject to prior approval of <u>the Board or</u> the Board President, the District encourages Directors development and excellence of performance by reimbursing expenses incurred for tuition, travel, lodging and meals as a result of training, educational courses and participation with professional organizations, associated with the interests of the District. This Policy will be reviewed annually by the entire Board of Directors at a regular monthly meeting of the Board.		
II. <u>GOVERNANCE</u> The District shall adhere to Government Code Sections 53232 through 53232.4 when dealing with issues of Director remuneration and reimbursement.		

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Approved by: Board of Directors	POLICY STATEMENT DIRECTOR TRAVEL AND EXPENSE REIMBURSEMENT 1985-5 (IV)	Date: 9/27/18 Rev. 14

III. AUTHORIZED EVENTS

Subject to the District's enabling statutes, attendance at the following qualifies a Director to be eligible to receive compensation.

- A. A conference or organized educational activity conducted in compliance with Government Code Section 54952.2(c), including but not limited to ethics training required by Government Code Section 53234.
- B. Official business representing the District.

IV AUTHORIZED EXPENSES

- A. Reimbursement rates shall coincide with rates set by Internal Revenue Service Publication 463 or its successor publication(s).
- B. If lodging is in connection with the above or other prior approved event, such lodging costs shall not exceed the maximum group rate published by the conference or activity sponsor. If the published group rate is unavailable, Directors shall be reimbursed for comparable lodging at government or IRS rates.
- C. Reimbursement for lodging shall be limited to the minimum number of nights required for the Director's attendance at the event. Charges for local and long distance telephone calls and computer access will be reimbursed when such calls are made in conducting official District business or essential personal calls such as a "safe arrival call". There will be no reimbursement for personal telephone calls or other hotel charges not related to District business needs.
- D. A Director's spouse or other family member(s) may accompany the Director on trips authorized under this policy provided that their presence does not detract from the Director's performance of duty. However, no expenses attributable to any companion will be reimbursed by the District.

Prepared by: Staff/General Counsel	EL TORO WATER DISTRICT POLICY STATEMENT DIRECTOR TRAVEL AND EXPENSE REIMBURSEMENT 1985-5 (IV)	Page11 of 14 Item 4 Section IV
Approved by: Board of Directors		Date: 9/27/18 Rev. 14
<p>E. If travel and lodging is in connection with the above or other prior approved event, Directors shall use government or group rates offered by the provider of transportation when available.</p> <p>F. If transportation is by commercial airline, reimbursement shall generally not exceed the standard round-trip airline economy airfare in effect at the time.</p> <p>G. Travel shall be by the most direct route. If an indirect route is used, the additional costs shall be at the Director's personal expense. Whenever air travel is used, an advance travel request shall be submitted to the Board Recording Secretary in order to obtain the lowest possible fare.</p> <p>H. If the use of the Director's personal automobile is required, the owner will be compensated for the mileage driven at the rate established by the Internal Revenue Service (IRS). Parking charges at the destination will be reimbursed with a receipt.</p> <p>I. Maximum reimbursement for car rental will be for a full-size car.</p> <p>J. Reimbursement for meals (including tips) during travel to, from and during the event, not included in the registration fee shall be limited to the minimum number of days required for attending the event.</p> <p>K. Any and all expenses that do not fall within the adopted travel reimbursement policy or the IRS reimbursable rates are required to be approved by the District's Board of Directors in a public meeting prior to the expenses being incurred.</p> <p>L. Expenses that do not adhere to the adopted travel reimbursement policy or the IRS reimbursable rates, and that do not receive prior approval from the District's Board of Directors in a public meeting prior to the expense being incurred, shall not be eligible for reimbursement.</p>		

Prepared by: Staff/General Counsel	EL TORO WATER DISTRICT	Page 12 of 14 Item 4 Section IV
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AUTHORIZED EXPENSES (Continued)

- M. *Expenses in General and Registration* - Authorized expenses may include registration, lodging, communication (telephone, computers, fax), business meals, common carrier fares, automobile rentals, parking fees, and use of personal automobiles at the standard mileage rate permitted at the time by the Internal Revenue Service.

V. **REIMBURSEMENT**

- A. The District shall provide expense reimbursement report forms to Directors who attend the above functions on behalf of the District, which shall document that expenses adhere to this policy.
- B. Except when customarily no receipts are provided or available (i.e. baggage handling), receipts are required to be submitted in conjunction with the expense report form. Failure to submit necessary receipts will result in denial of the reimbursement claim.
- C. Directors attending functions consistent with the above or other prior approved events shall submit written or oral reports to the District on the meeting(s) that were attended.
- D. It is against the law to falsify expense reports. Penalties for misuse of public resources or violating this policy may include, but are not limited to, the following:
- (A) The loss of reimbursement privileges;
 - (B) Restitution to the District;
 - (C) Civil penalties for misuse of public resources pursuant to Government Code Section 8314; and
 - (D) Prosecution for misuse of public resources, pursuant to Section 424 of the Penal Code, penalties for which include 2, 3 or 4 years in prison.

Prepared by: Staff/General Counsel	<p style="text-align: center;">EL TORO WATER DISTRICT</p> <p style="text-align: center;">POLICY STATEMENT</p> <p style="text-align: center;">DIRECTOR TRAVEL AND EXPENSE</p> <p style="text-align: center;">REIMBURSEMENT</p> <p style="text-align: center;">1985-5 (IV)</p>	Page 13 of 14 Item 4 Section IV
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VI. TRAVEL ARRANGEMENTS

- A. To ensure the accuracy of travel arrangements, Directors are to complete and sign the appropriate travel forms and submit them to the Board Recording Secretary or designee for processing per attachment ("A").
- B. Travel arrangements and registrations are to be made through the Board Recording Secretary. All payment and registration requests must be submitted in a timely manner to allow sufficient time for normal processing.
- C. Once the appropriate travel requests have been submitted and processed, a Travel Order (Attachment "B") authorizing the travel and attendance will be sent to the Director.

VII. GENERAL PROVISIONS

- A. All costs, including those pre-paid by the District prior to the Director's attendance at an approved meeting, will be listed on the Director's expense report at the end of the month in which the expenses were incurred, and wherever possible, must be substantiated with a receipt attached to the expense report.
- B. Travel related expenses for each Director are limited to \$7,000 per fiscal year. Unused portions of the Director's annual budget for this purpose cannot be carried over to a subsequent budget period. No further reimbursements will be made to any Director if their travel related expenses reach the \$7,000 limit in any fiscal year.
- C. In any situation where extraordinary travel expenses is expected to be incurred, or where this Policy does not adequately cover the situation, or would work an undue hardship, exceptions may be made with prior approval of the Board President and General Manager.

Prepared by: Staff/General Counsel	<p align="center">EL TORO WATER DISTRICT</p> <p align="center">POLICY STATEMENT</p> <p align="center">DIRECTOR TRAVEL AND EXPENSE</p> <p align="center">REIMBURSEMENT</p> <p align="center">1985-5 (IV)</p>	Page 14 of 14 Item 4 Section IV
Approved by: Board of Directors		Date: 9/27/18 Rev. 14

GENERAL PROVISIONS (Continued)

- D. Directors will submit their Travel Expense Claim Form for reimbursement to the District office within the first week, if possible of each month for the prior month's expenses. The Board President, General Manager or designated representative will approve and sign the Claim Form before request for payment can be processed. The Board President's Claim Form shall be approved by the General Manager or Assistant General Manager.

- E. When a Director is obtaining authorization for travel and is aware that the circumstances are such that the charges should not be made against their annual budget, they may request authorization from the Board of Directors or President of the Board that the charges for this activity not be charged against their annual budget.

GENERAL MANAGER'S REPORT

September 2019

I. OFFICE OF THE GENERAL MANAGER

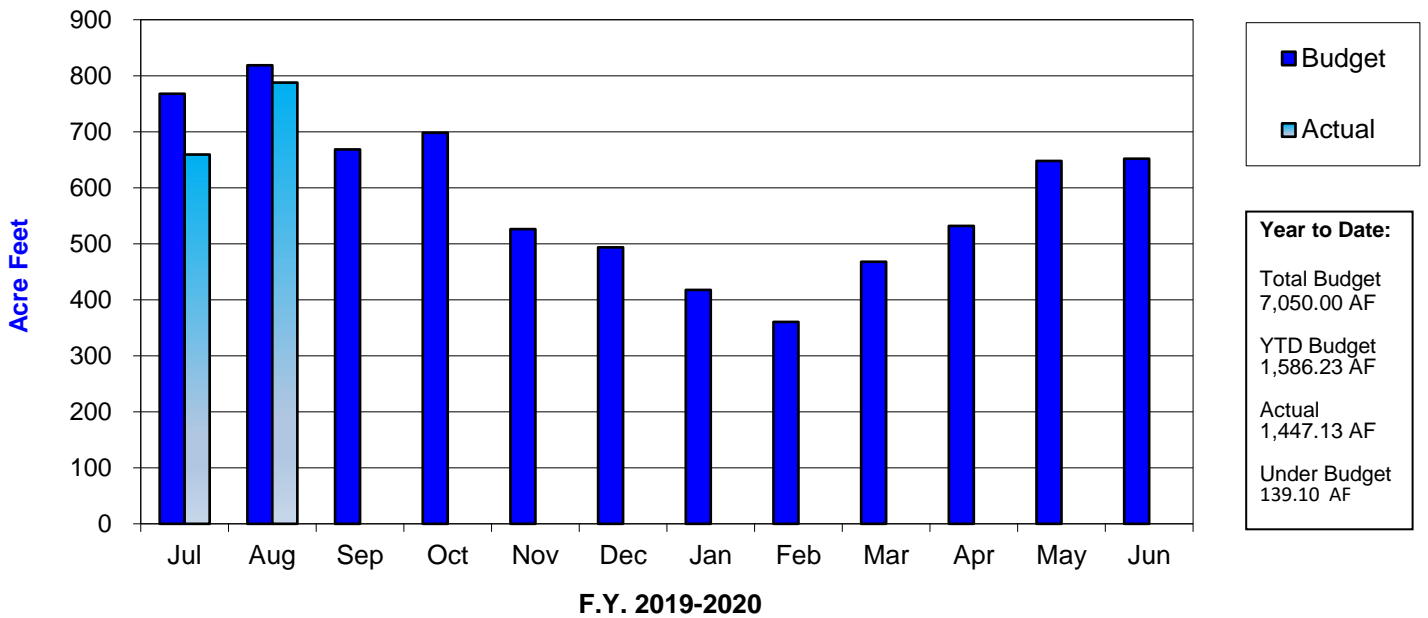
- Attended Directors WRP Tour
- Attended SOCWA Finance Committee Meetings
- Attended Proposed Irvine Lake Emergency Storage Meetings
- Attended OC Chapter WaterReuse 10th Anniversary Celebration
- Attended Two SOCWA General Managers Workshops
- Attended Aliso Creek Watershed Meeting
- Attended RRC Meeting
- Attended Meeting with Representatives of the Third Laguna Hills Mutual Board
- Attended SOCWA Board Meeting
- Attended MWDOC Policy Forum Dinner
- Attended Chair/GM Meetings
- Attended Agenda Review Meeting
- Attended OCWA Luncheon
- Participated in South Orange County Watershed Management Area Management Committee Conference Call
- Participated in Conference Call with LAFCO Staff

II. DOMESTIC AND RECYCLED WATER SALES

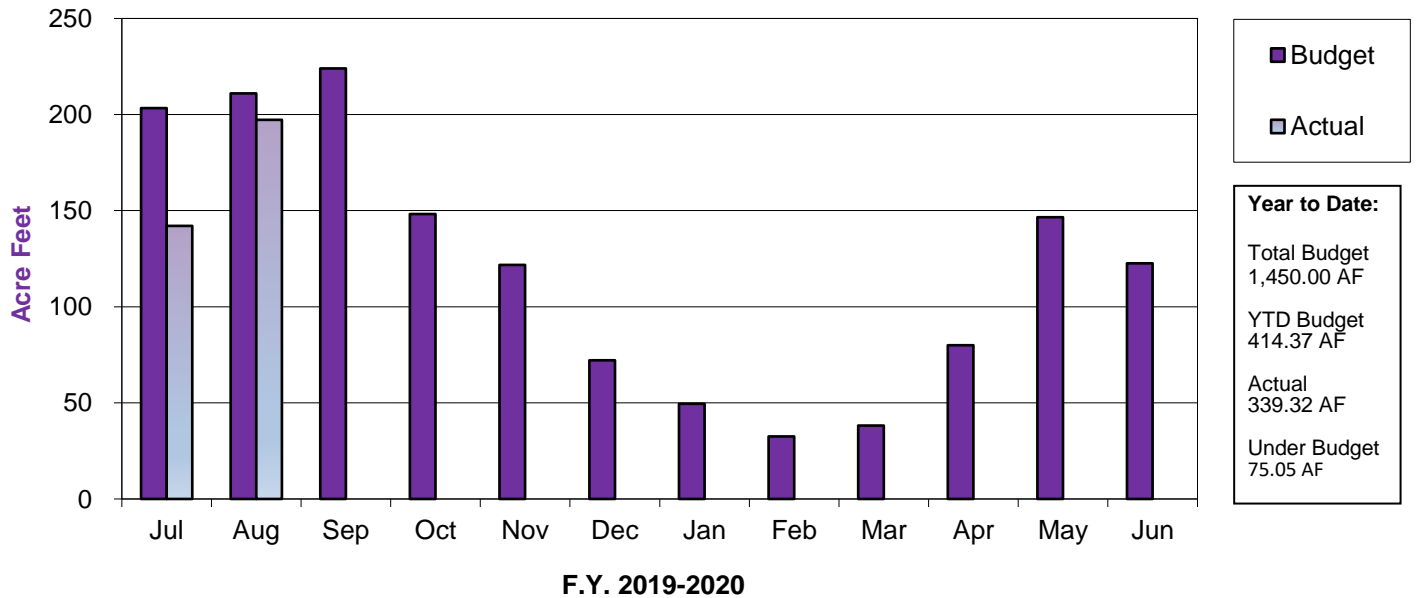
Actual domestic sales for the year-to-date as of August 31, 2019 are 1,447.13 acre-feet. This compares to year-to-date budgeted domestic sales of 1,586.23 acre-feet. The year-to-date variation in actual to budgeted sales reflects a decrease of 139.10 acre-feet. Actual sales are 97.68 acre-feet lower than last year-to-date actual sales for the same period.

Actual recycled sales for the year-to-date as of August 31, 2019 are 339.32 acre-feet. This compares to year-to-date budgeted recycled sales of 414.37 acre-feet. The year-to-date variation in actual to budgeted sales reflects a decrease of 75.05 acre-feet. Actual sales are 53.26 acre-feet lower than last year-to-date actual sales for the same period.

POTABLE WATER SALES



RECYCLED WATER SALES



Customer Service Activity Report

AUGUST 2019

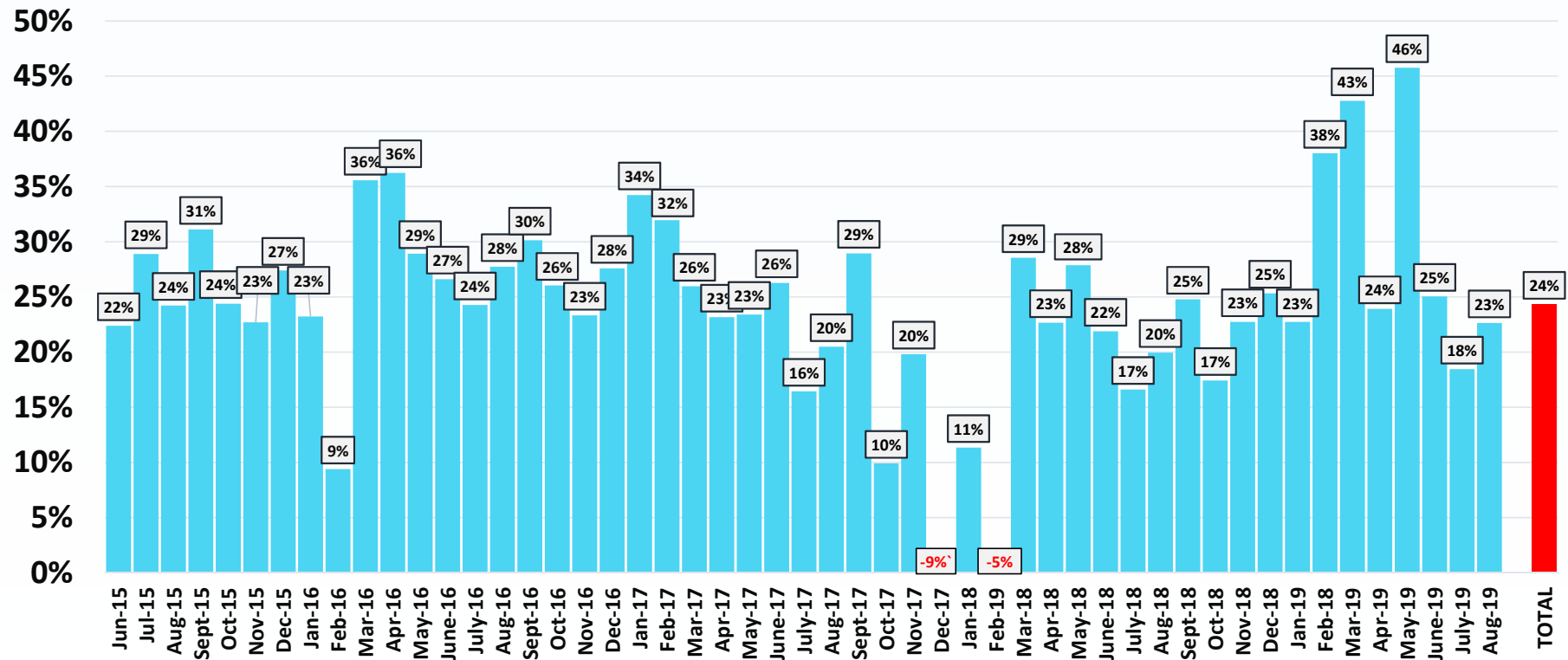
Regular Service Calls	AUGUST 2019	AUGUST 2018	Telephone Calls	AUGUST 2019	AUGUST 2018
Serviceman Dispatched to Read, Connect/Disconnect Service	101	86	Change of Service: Connections and Disconnections	124	82
Field Investigations:			Billing / Payments & Graph Inquires	253	304
Check for leaks - calls to CS Office:(irrigation,meter,street leaks)			Assistance with online payments and ETWD's portal (cc, e-checks, other.)	60	78
Customer Responsible	40	15			
District Responsible	1	11	Variance / Waiver Inquiries	40	46
None found/other	36	13	Variance / Waiver Requests Processed	19	18
High Reads Checked - High Consumption (Billing Dept.)			Ordinance Infraction / Water Waste Complaints	2	0
Cust Leaks: _15_ No Leaks: _26_	41	28			
Check Stopped Slowed Meters-Low Consumption (Billing)	11	9	Outside Utility Districts	68	77
Re-Check Read	5	8	Phone calls Transfer to other Departments within ETWD	113	130
Ordinance Infraction	2	2	Phone calls for the Board of Directors	0	3
Recycled Water	0	0	Recycled Water	2	0
Water Quality: Taste / Odor / Color	6	2	Water Quality Taste - Odor - Color	3	1
Phone response: __3__ Field response: _3__			Leaks / Breaks	25	13
Flooding (Hydrant) Meters issued	2	2	Flooding Meter calls (Hydrant)	7	1
Sewer - Odor/Stoppage/ Manhole Covers	4	8	Sewer Problems (odor / spills)	6	6
Meter Box: Lids / Covers Replaced	52	58			
Meter Box Clean, Digout	10	10	Backflow / Cross Connection (questions or yearly testing forms) ETWD facilities inquiries:	8	8
Raised Meter Box	3	6	Boxes/Covers/Lids/Hydrants/Pump Stations/Graffiti/ "Gen. Maint"	11	11
Trim Bushes / Meter Obstruction	46	13			
General Maintenance Response	3	9	Tyco (ADT) Calls (Alarms to ETWD facilities)	0	0
Fire Hydrants: Hit / Leaks / Caps	1	0	ATT Calls (access to tower sites)	0	0
Pressure(psi) Checks / Reads	11	6	SCE Calls (access to tower sites)	0	0
CSSOV (Angle Meter/Ball Valve/Gate Valve/Globe Valve) chk,repair,replaced	9	15	Pager Calls specifically for Pump Stations - SCADA	0	0
AMS angle-meter-stop replace/repair	0	0			
Bees Removed	1	3			
Backflow / Cross Connection	3	1	Payment Extensions	54	67
Fogged Registers	8	19	Delinquent Payment Calls to Customer 's prior to shut off per billing calendar (automatic courtesy dialer)	69	23
OMCOP: Old Meter Change - Out Program	0	4	Return Calls from customers left on our voice mail system. Ext 500	15	41
Other: (uncommon non-maintenance calls)	0	0	Email Correspondence:	57	82
On-Call After Hrs. CS Response	14	22	Maintenance Service Order Requests (bees, psi, fogged-dirty registers)	1	2
# 48/24 Hr. Door Hangers Hung	150	150	Misc. (other: employment, deliveries, sales calls)	32	62
# Locked Off For Non-Pay (Disconnect)	15	5			
Removed Meter	1	0			
New Meter	2	5			
Unread Meters	21	10			
Total Field Investigations	599	520	Total Telephone Calls	969	1055

Uncollectible Accounts:

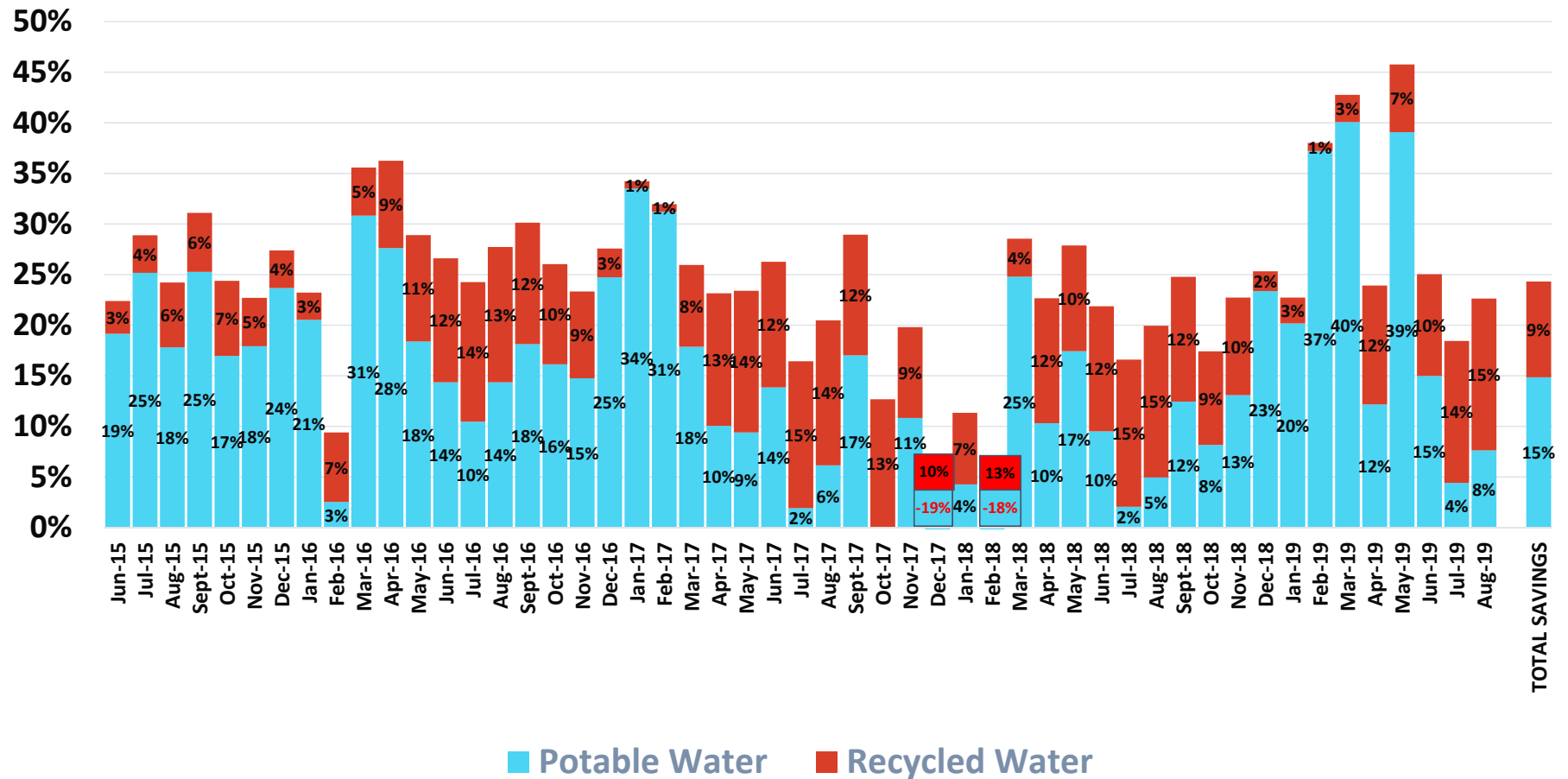
Credit Card Payments

Budget YTD		\$ 3,333.00	\$ 3,333.00	REGULAR	802	\$81,281.61	693	\$81,315.81
Actual YTD		\$ 1,694.00	\$ (114.00)	DISCONNECTS				

ETWD WATER SAVINGS COMPARED TO 2013



ETWD WATER SAVINGS COMPARED TO 2013



(WRP) Tertiary Treatment Plant

Aug-19

Total Recycled Water Production

Flow, Units	G.C. Irrigation	Main Distribution	WRP Irrigation/Utility	Total, Production
Avg. Daily Q MGD	0.506	1.646	0.136	2.288
Total Q MG	15.679	51.012	4.215	70.906
Total Acre Feet	48.117	156.550	12.935	217.602
*1,273,290 Gallons of Potable Water Was Used to Supplement the Recycled Water Total Production.				

MICROBIOLOGICAL MONITORING

AUGUST 2019

PRESSURE ZONE LEGEND

GRAVITY 570	LOW 1 484	SPARTAN 620-710	MID 630
SHENANDOAH 894	LOW 2 465	REDUCED HIGH 537	ULTRA HIGH 800-920
CHERRY 770-815	LOW 3 409	HIGH 645-720	R-6 620

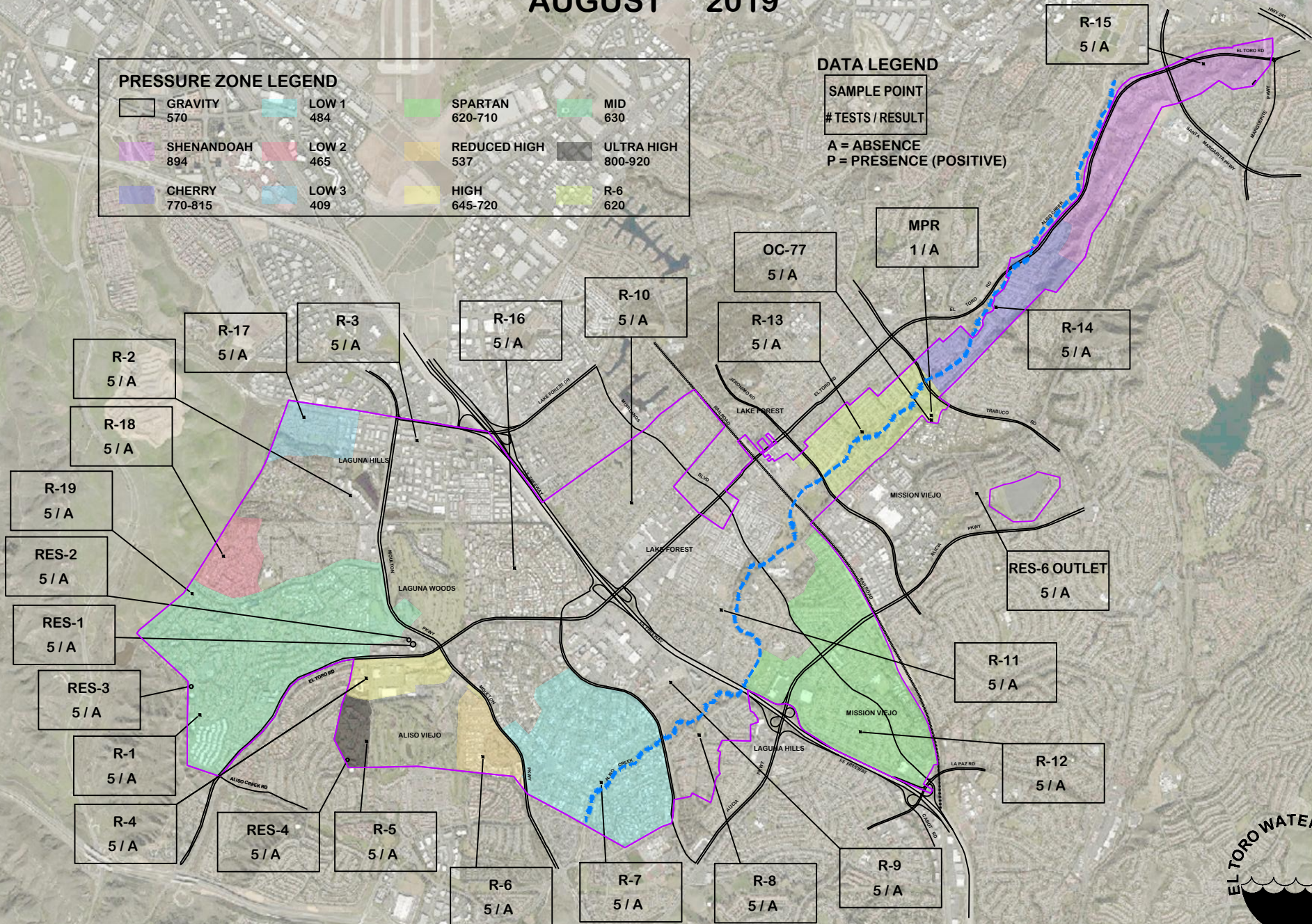
DATA LEGEND

SAMPLE POINT

TESTS / RESULT

A = ABSENCE

P = PRESENCE (POSITIVE)



CHLORINE RESIDUAL MONITORING

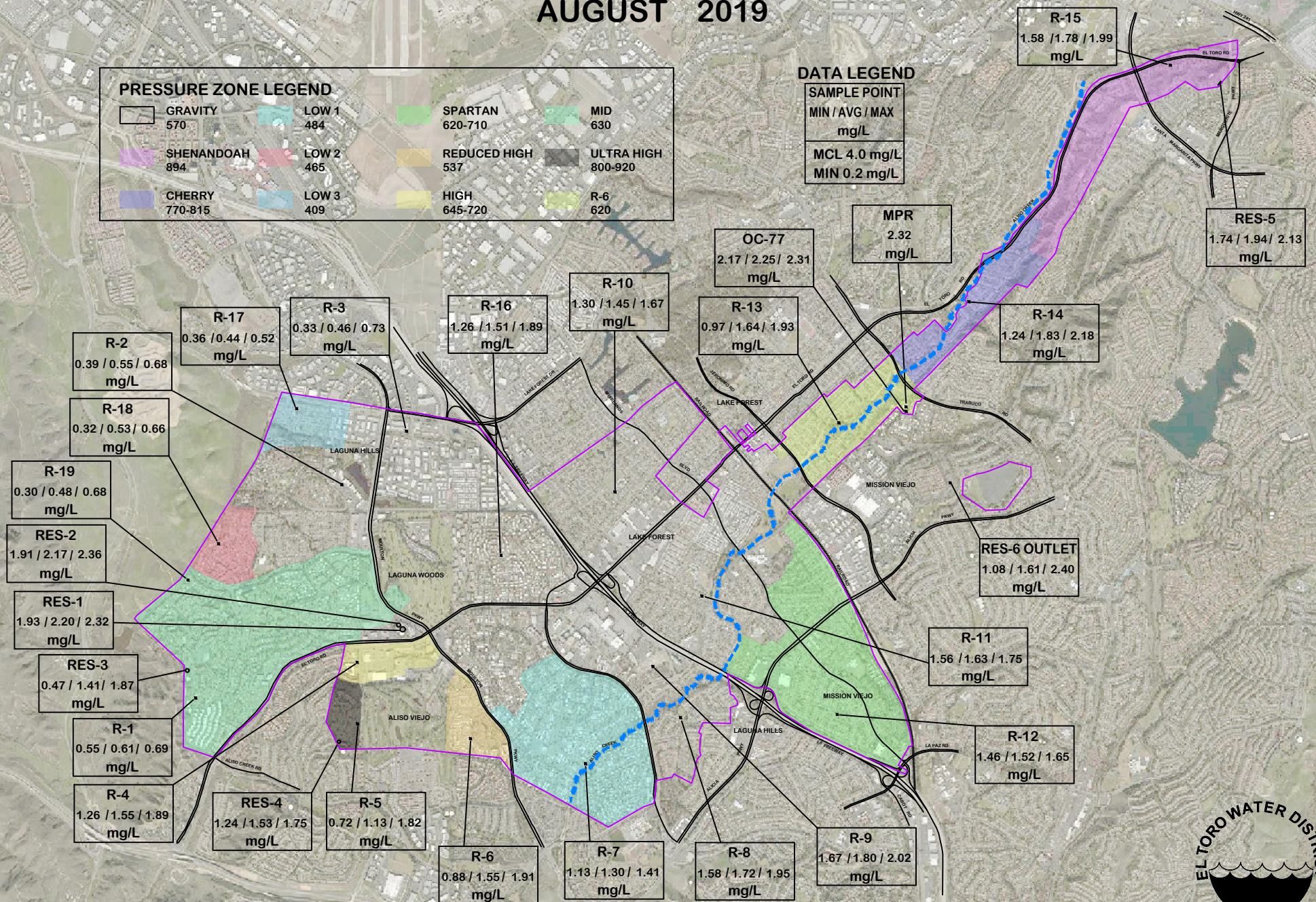
AUGUST 2019

PRESSURE ZONE LEGEND

GRAVITY 570	LOW 1 484	SPARTAN 620-710	MID 630
SHENANDOAH 894	LOW 2 465	REDUCED HIGH 537	ULTRA HIGH 800-920
CHERRY 770-815	LOW 3 409	HIGH 645-720	R-6 620

DATA LEGEND

SAMPLE POINT MIN / AVG / MAX mg/L
MCL 4.0 mg/L MIN 0.2 mg/L



NITRITE MONITORING

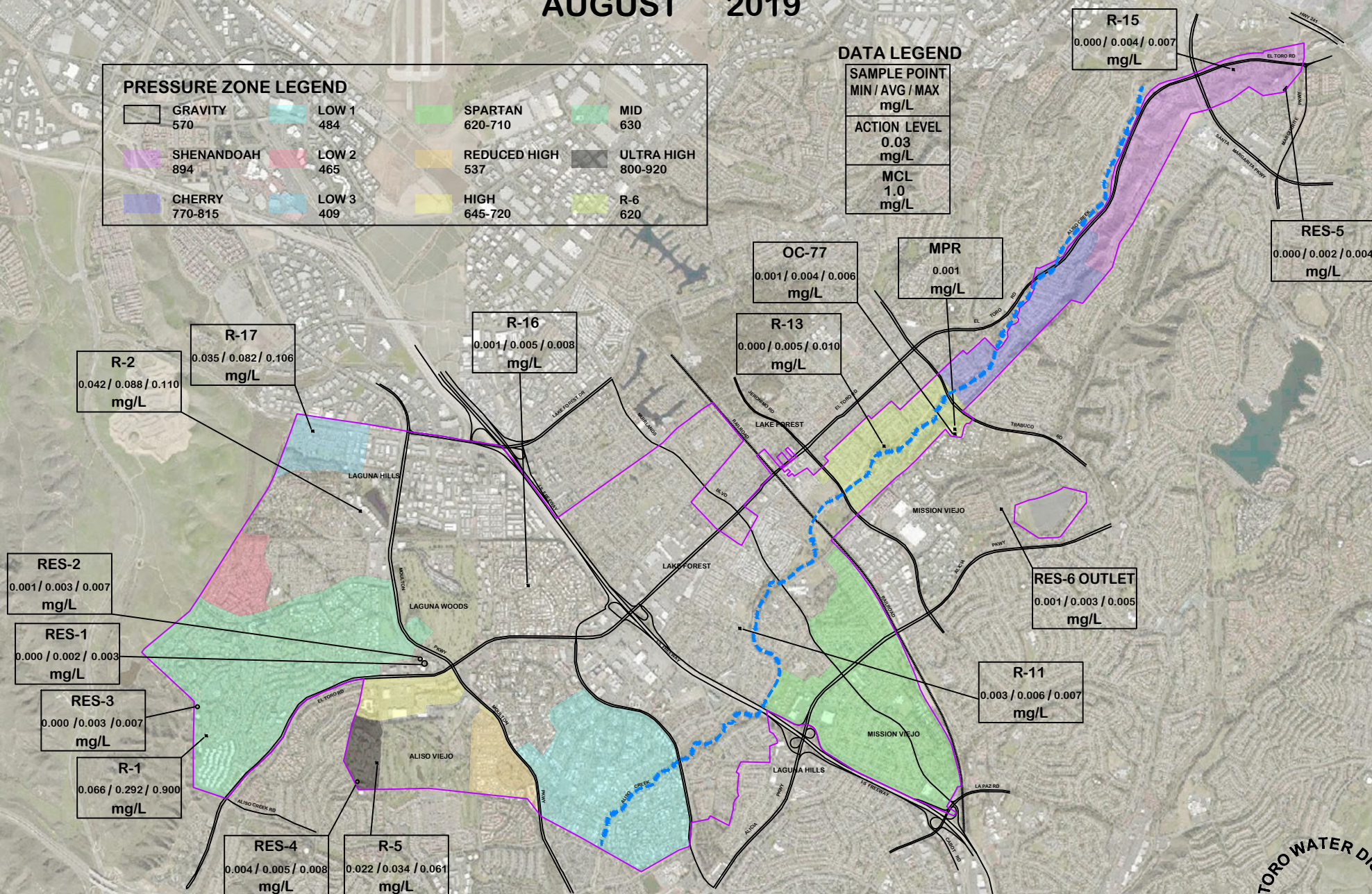
AUGUST 2019

PRESSURE ZONE LEGEND

GRAVITY 570	LOW 1 484	SPARTAN 620-710	MID 630
SHENANDOAH 894	LOW 2 465	REDUCED HIGH 537	ULTRA HIGH 800-920
CHERRY 770-815	LOW 3 409	HIGH 645-720	R-6 620

DATA LEGEND

SAMPLE POINT MIN / AVG / MAX mg/L
ACTION LEVEL 0.03 mg/L
MCL 1.0 mg/L



FLUORIDE MONITORING

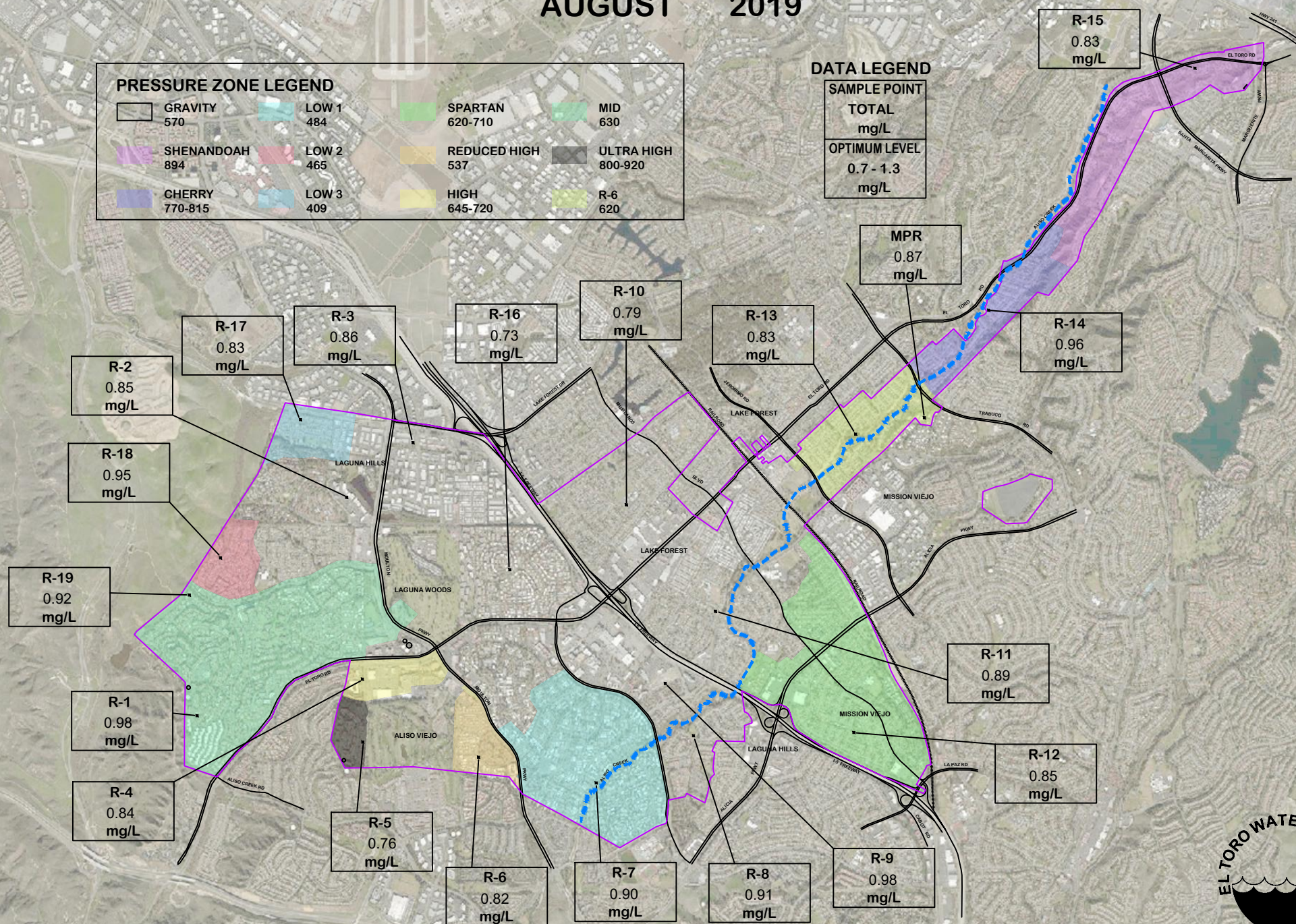
AUGUST 2019

PRESSURE ZONE LEGEND

GRAVITY 570	LOW 1 484	SPARTAN 620-710	MID 630
SHENANDOAH 894	LOW 2 465	REDUCED HIGH 537	ULTRA HIGH 800-920
CHERRY 770-815	LOW 3 409	HIGH 645-720	R-6 620

DATA LEGEND

SAMPLE POINT
TOTAL mg/L
OPTIMUM LEVEL 0.7 - 1.3 mg/L



**EL TORO WATER DISTRICT
MONTHLY POTABLE WATER QUALITY REPORT**

The quality and safety of drinking water in the U.S. is regulated by the federal government through the U.S. Environmental Protection agency (USEPA). In California, those standards are enforced by the California Department of Public Health (CDPH). Water Quality parameters must meet both primary and secondary water quality standards as established by the CDPH.

PRIMARY STANDARDS - are intended to protect public health against substances in the water that may be harmful to humans if consumed for long periods of time.

SECONDARY STANDARDS - are to ensure esthetic qualities of water such as taste, odor or clarity. Rather than its healthfulness, these standards govern substances that may influence consumer acceptance of water.

Given that 100% of ETWD's potable water resource is fully treated and delivered by Metropolitan Water District of southern California (MWDSC) through an enclosed and protected conveyance system, the majority of the State and federal primary and secondary source water quality monitoring requirements are performed by MWDSC. The District's physical responsibility for water quality monitoring is associated with the distribution system. To monitor the distribution system water quality the District utilizes both in house and outside lab services. Routine distribution analysis conforming to CDPH requirements is conducted for the following constituents:

- 1) **Microbiological** - The number of microbiological samples and the frequency of analysis during the month is based on the population and/or service connections served. Utilizing a population of 50,000, the CDPH requires that 20 "representative" samples be collected and analyzed for coliform bacteria. The objective is to maintain water quality that is absent of coliform bacteria which is a general indicator for the existence of fecal coliform.
- 2) **Chlorine Residual** - The chlorine residual monitoring is performed in conjunction with the microbiological monitoring. The CDPH requirement for treated surface water mandates that the distribution system maintain a "detectable" residual. The number of and frequency of sampling is determined utilizing the same formula applied to microbiological requirements. At a minimum, we are obligated to collect and analyze for chlorine residual each time we collect the representative microbiological samples. Per EPA Disinfectants & Disinfection Byproduct Rule (D/DBP), which was effective January 2002, requires quarterly reporting for all sampling.
- 3) **TTHM & HAA5 Stage 2 DBPR Compliance** The U.S. Environmental Protection Agency (EPA) published the Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR) on January 4, 2006. The Stage 2 DBPR builds on existing regulations by requiring water systems to meet disinfection byproduct (DBP)* maximum contaminant levels (MCLs) at each monitoring site in the distribution system to better protect public health. The Stage 2 DBP rule is intended to reduce potential cancer and reproductive and developmental health risks from disinfection byproducts (DBPs) in drinking water, which form when disinfectants are used to control microbial pathogens. This final rule strengthens public health protection for customers of systems that deliver disinfected water by requiring such systems to meet maximum contaminant levels as an average at each compliance monitoring location (instead of as a system-wide average as in previous rules) for two groups of DBPs, trihalomethanes (TTHM) and five haloacetic acids (HAA5). The rule targets systems with the greatest risk and builds incrementally on existing rules. This regulation will reduce DBP exposure and related potential health risks and provide more equitable public health protection. The Stage 2 DBPR is being released simultaneously with the Long Term 2 Enhanced Surface Water Treatment Rule to address concerns about risk tradeoffs between pathogens and DBPs.

The mandatory requirement under the Stage 2 DBP rule, known as an Initial Distribution System Evaluation (IDSE) was completed by ETWD in 2008 and a Stage 2 monitoring plan has been approved by CDPH. Full Stage 2 compliance begins in 2012. The IDSE identified the locations with high disinfection byproduct concentrations. These locations will then be used by the District as the 8 sampling sites for Stage 2 DBP rule compliance monitoring. Compliance with the maximum contaminant levels for two groups of disinfection byproducts (TTHM and HAA5) will be calculated for each monitoring location in the distribution system. This approach, referred to as the locational running annual average (LRAA), differs from current requirements, which determine compliance by calculating the running annual average of samples from all monitoring locations across the system. The Stage 2 DBP rule also requires each system to determine if they have exceeded an operational evaluation level, which is identified using their compliance monitoring results. The operational evaluation level provides an early warning of possible future MCL violations, which allows the system to take proactive steps to remain in compliance. A system that exceeds an operational evaluation level is required to review their operational practices and submit a report to the state that identifies actions that may be taken to mitigate future high DBP levels, particularly those that may jeopardize their compliance with the DBP MCLs.

- 4) **Physical Quality** - Physical Quality analysis is associated with the esthetic qualities of the finished water. Primarily, we are performing analysis for taste, odor and Turbidity (Clarity). In accordance with CDPH requirements, the District collects a minimum of 15 samples per month.
- 5) **Nitrites** - Although the chloramine disinfection process has been effective in controlling TTHM levels, it requires increased monitoring and adjustment as a result of its susceptibility to the Nitrification process. Nitrification is a biological process caused by naturally occurring ammonia oxidizing bacteria. Nitrification in chloraminated drinking water can have various adverse impacts on water quality, the most serious of which is the loss of total chlorine residual which is required by the CDPH and the subsequent potential to increase bacteria-logical activity within the finished or treated water system. MWD has developed an effective nitrification monitoring and prevention program which ETWD staff have adopted and incorporated into the District's daily water quality monitoring and action plan. The number and frequency of this type of monitoring is not currently regulated by CDPH. Staff monitor the level of nitrites in source water, reservoirs and the distribution system daily and weekly in conjunction with the microbiological and chlorine sampling program. A nitrite level of between 0.015 and 0.030 would signal an alert. > 0.030 would require action such as the addition of chlorine to produce a chloramine residual.

EL TORO WATER DISTRICT MONTHLY POTABLE WATER QUALITY ANALYSIS					
MONTH:		August		YEAR : 2019	
CONSTITUENT ANALYSIS		INSIDE LAB		OUTSIDE LAB	
	MCL	NO.	RESULTS	NO.	RESULTS
1 Microbiological	Pres/Absence	148(A)	Pres/Absence		Average
2 Chlorine (ppm)	Detectable Resid	213	Average = 1.23 ppm		
3 TTHM (ppb) (Stage 2)	0.080 ppb		N/A		ppb
3 HAA5 (ppb) (Stage 2)	0.060 ppb		N/A		ppb
4 Physical Quality:			RANGE		
Turbidity (ppm)	5 NTU	20	0.01 to 0.07		
Odor	3 Units	20	ND<1		
Color	15 Units	20	ND<5		
Temperature	No standard	20	70.3°F To 82.0°F		
5 Nitrite (Alert/Action level)ppm	0.015 to 0.030 ppm	99	0.000 to 0.008 Res.		

To ensure water quality compliance, the District annually performs approximately 8,750 water quality analytical evaluations of the samples collected from the distribution system.

Abbreviations:

RES	Indicates that the nitrification was isolated to a reservoir and treated
ND	None detected
Pres/Absence	Presence (P) or Absence (A) related to a positive or negative bacteriological result
MCL	Maximum Contaminant Level
NTU	Nephelometric Turbidity Units, a measure of the suspended material in the water
ppm	Parts per million
ppb	Parts per billion
Total Coliform	No more than 5% of the monthly samples may be total coliform-positive
N/A	Not available

**EL TORO WATER DISTRICT
COLLECTION SYSTEM ACTIVITY REPORT**

MONTH ENDING:

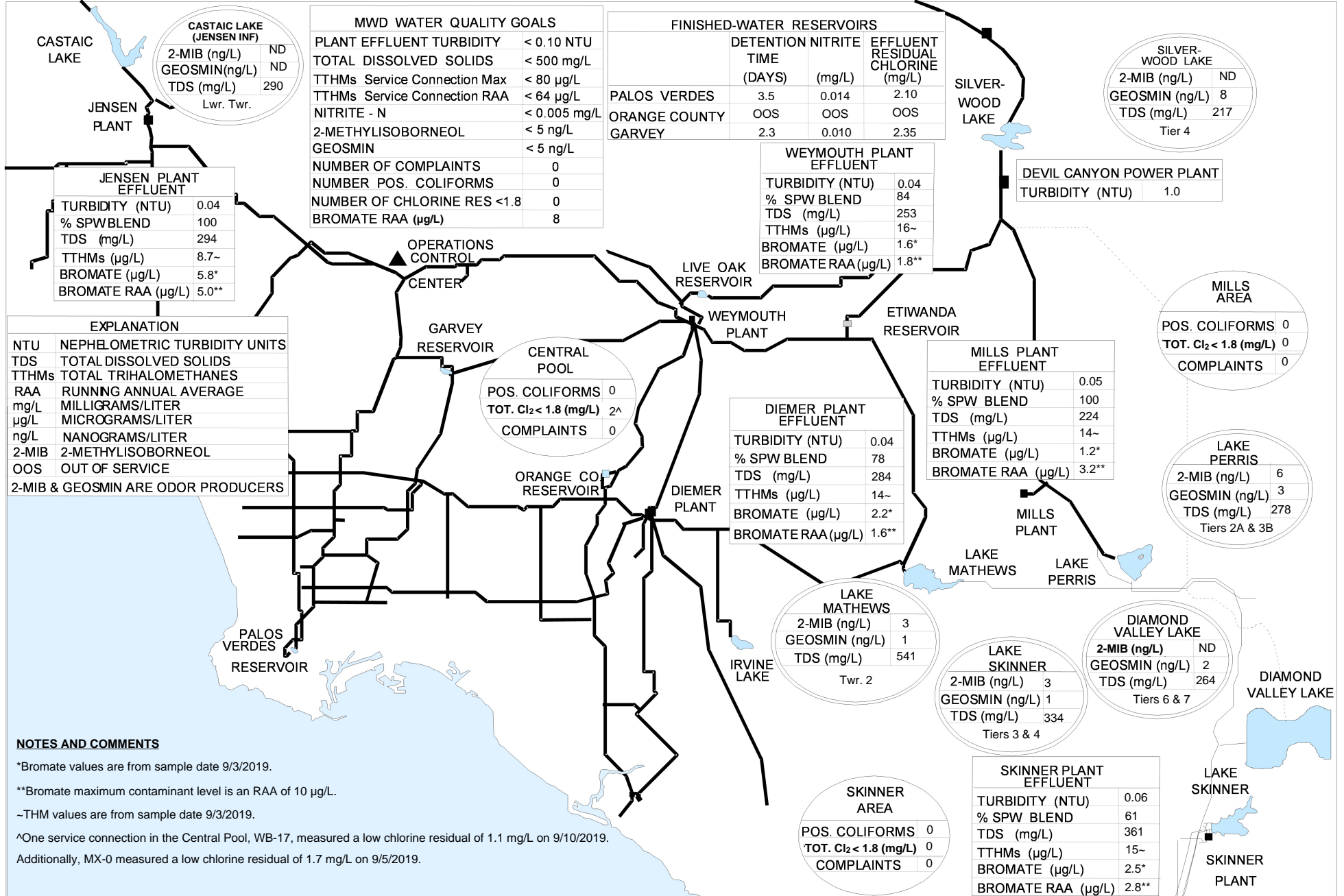
August

2019

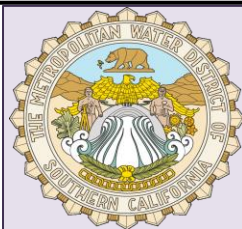
ODOR COMPLAINTS	NUMBER	LOCATION, ORIGIN, ACTION:		
Outside Laguna Woods Village	1	23645 El Toro Rd Private Sewer Spill. Plumber Broke Stopage.		
Outside Laguna Woods Village				
Laguna Woods Village				
New World				
Private System				
Other: WRP				
TOTAL	1			
ROOT FOAMING	FOOTAGE	CHEMICAL USED	CHEMICAL COST	COMMENTS:
Outside Laguna Woods Village				
Laguna Woods Village				
New World	10,102	39 Cases	\$7,956.00	
Other				
TOTAL	10,102			
ROOT CUTTING	FOOTAGE	COMMENTS:		
Outside Laguna Woods Village				
Laguna Woods Village				
New World				
TOTAL	0			
HYDRO-CLEANING	FOOTAGE	COMMENTS:		
Outside Laguna Woods Village	16,576			
Laguna Woods Village				
New World				
Private System				
Hot Spots	19,508			
ETWD TOTALS:	36,084			
SANTA MARGARITA TOTALS:				
COMBINED TOTALS:	36,084			
TV INSPECTIONS	FOOTAGE	COMMENTS:		
Outside Laguna Woods Village	5,688			
Laguna Woods Village	5,519			
New World	4,796	Push Camera		
Private System				
Other				
TOTAL	16,003			
Wet Wells	Number	3	Mathis-Lapaz-Delta	
Flow Meter/Sampling	Number			
WATER TANK FILLS	40	40,000		

Generated On:9/11/2019 11:42:53 AM

No violations of State or Federal regulations were recorded during the current period.



WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>



Water Supply Conditions Report

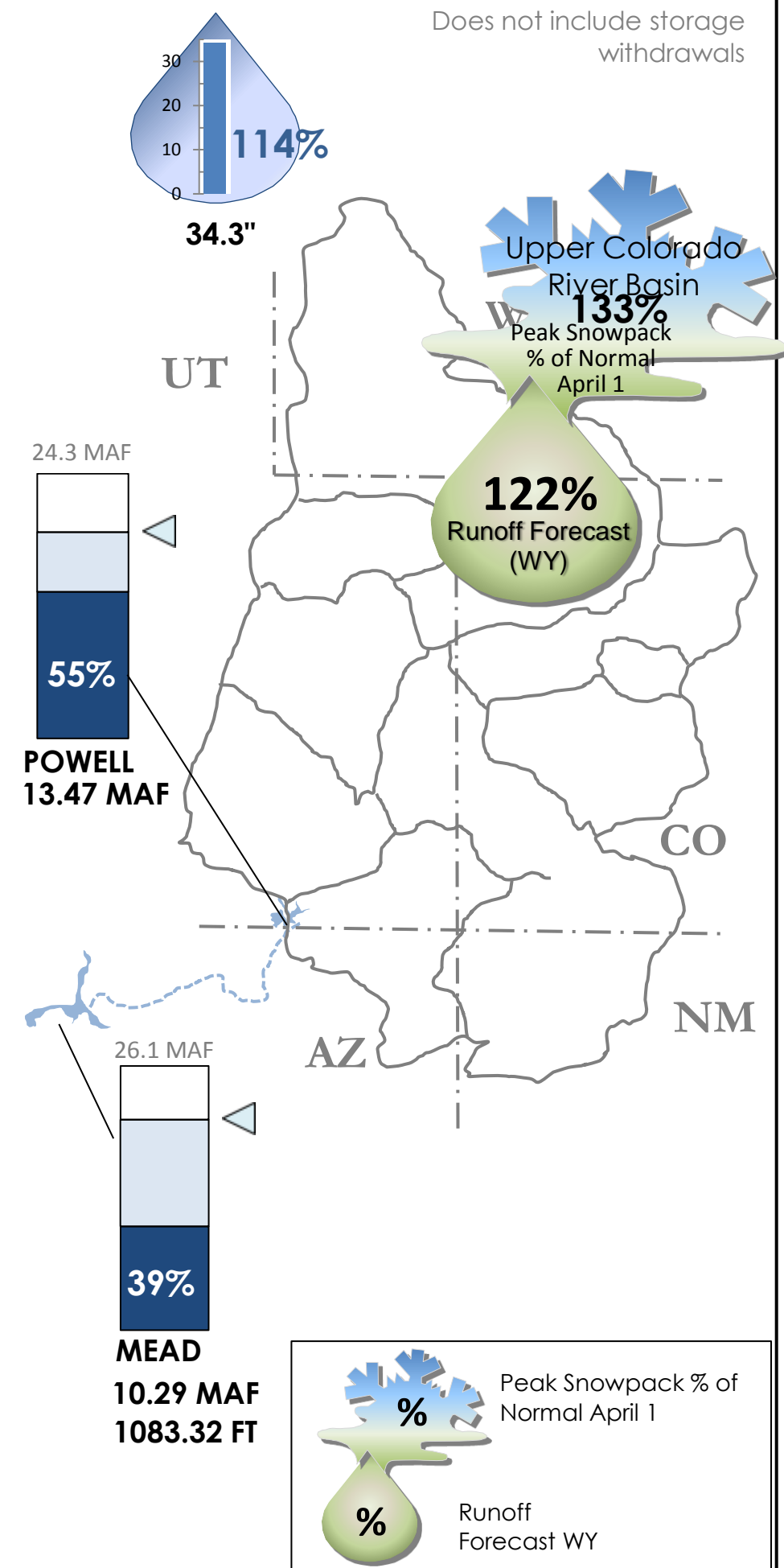
As of: 09/12/2019

2019 Colorado River

925,336 AF

74% of full CRA

Does not include storage withdrawals



Turn page for more CRA Data

Flip Over for SWP

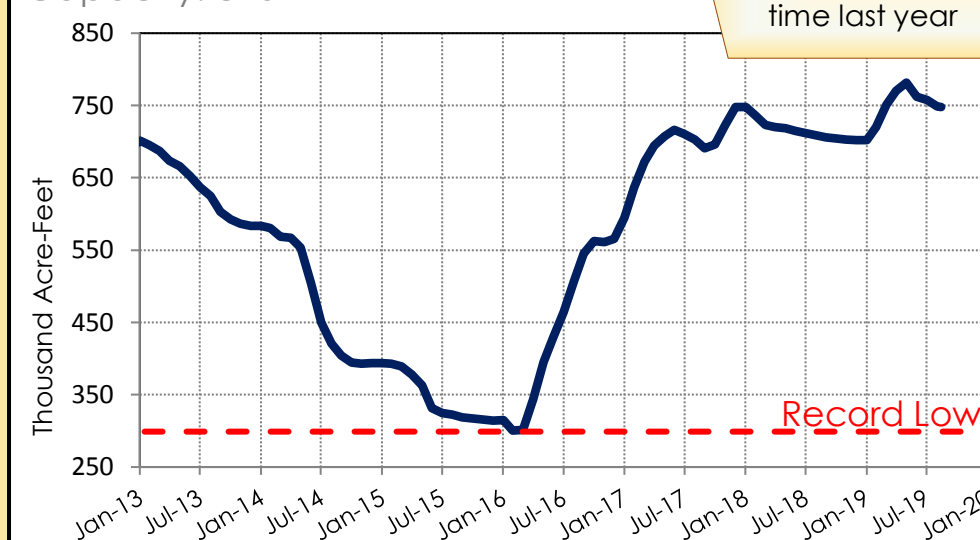
Highlights

- ◆ Northern Sierra snowpack peaked at 163% of April 1 normal
- ◆ Sacramento River Runoff forecast is 137% of normal
- ◆ Snowpack in the Upper Colorado River Basin peaked at 133% of April 1 normal
- ◆ Lake Powell inflow forecast is at 122% of normal

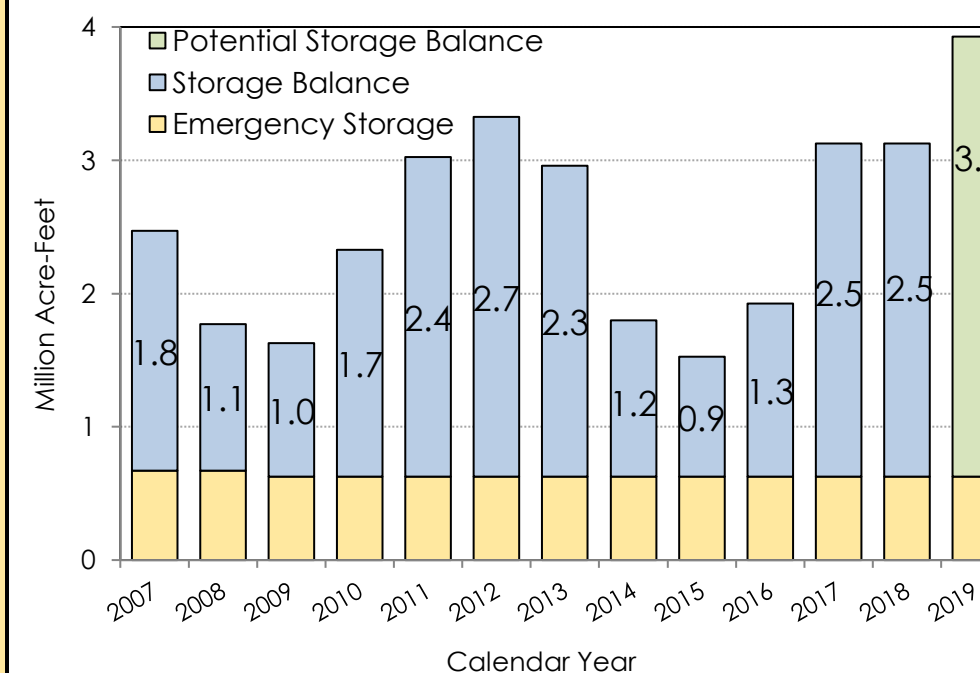
Diamond Valley Lake Storage

Capacity: 810 TAF

40 TAF more in storage than this time last year



MWD Storage Reserve Levels

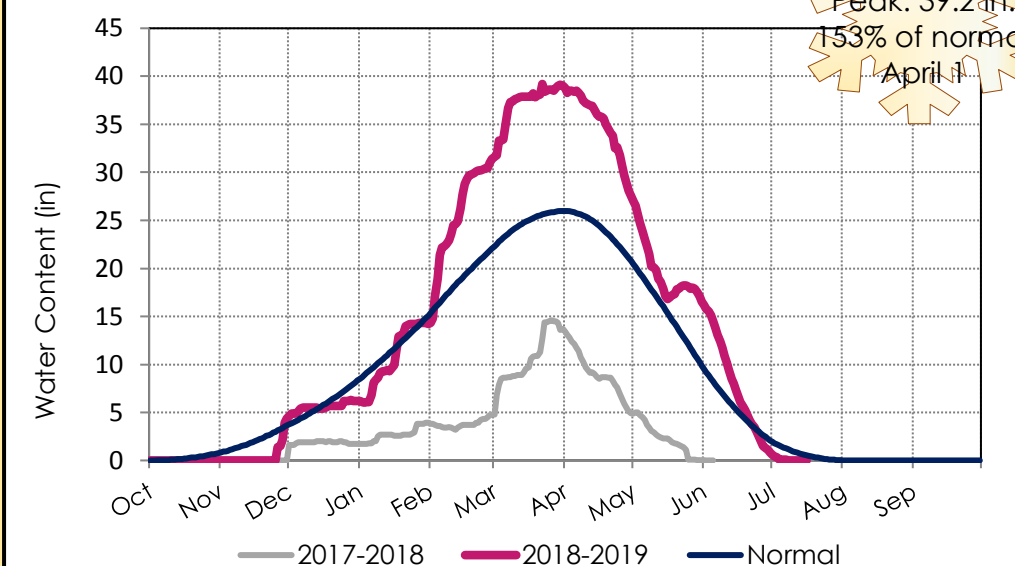


This report is produced by the Water Resource Management and contains information from various federal, state, and local agencies. The Metropolitan Water District of Southern California cannot guarantee the accuracy or completeness of this information. Readers should refer to the relevant state, federal, and local agencies for additional or for the most up to date water supply information. Reservoirs, lakes, aqueducts, maps, watersheds, and all other visual representations on this report are not drawn to scale.

<http://www.mwdh2o.com/WSCR>

This report is best printed double sided on legal size paper (8.5" x 14") and folded in quarters

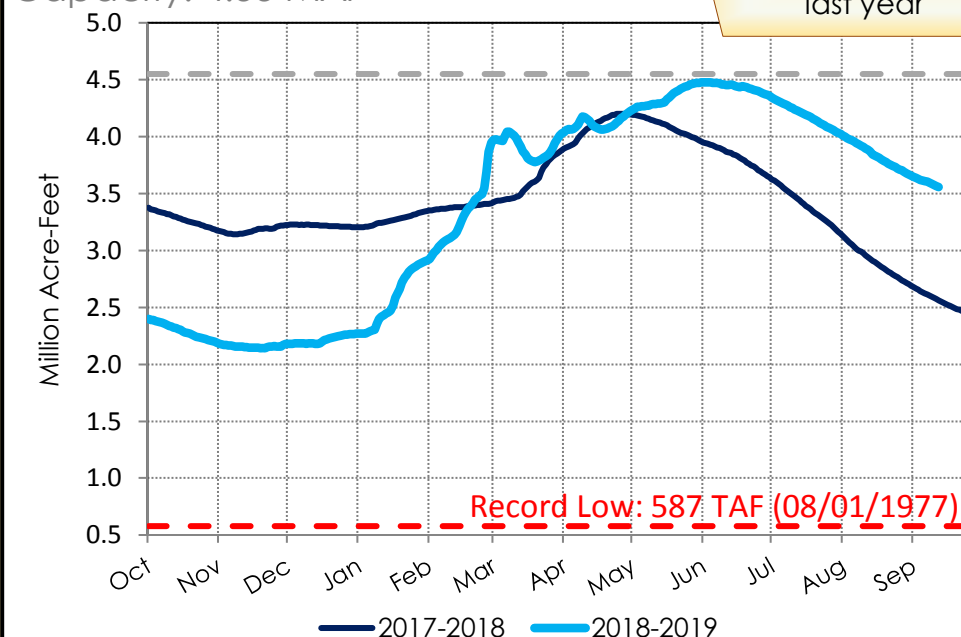
Southern Sierra Snowpack



Lake Shasta Reservoir Storage

Capacity: 4.55 MAF

993 TAF more in storage than this time last year



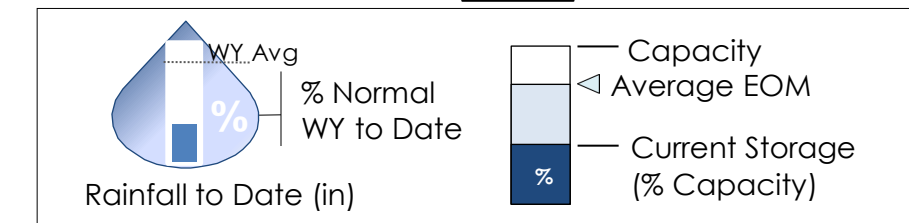
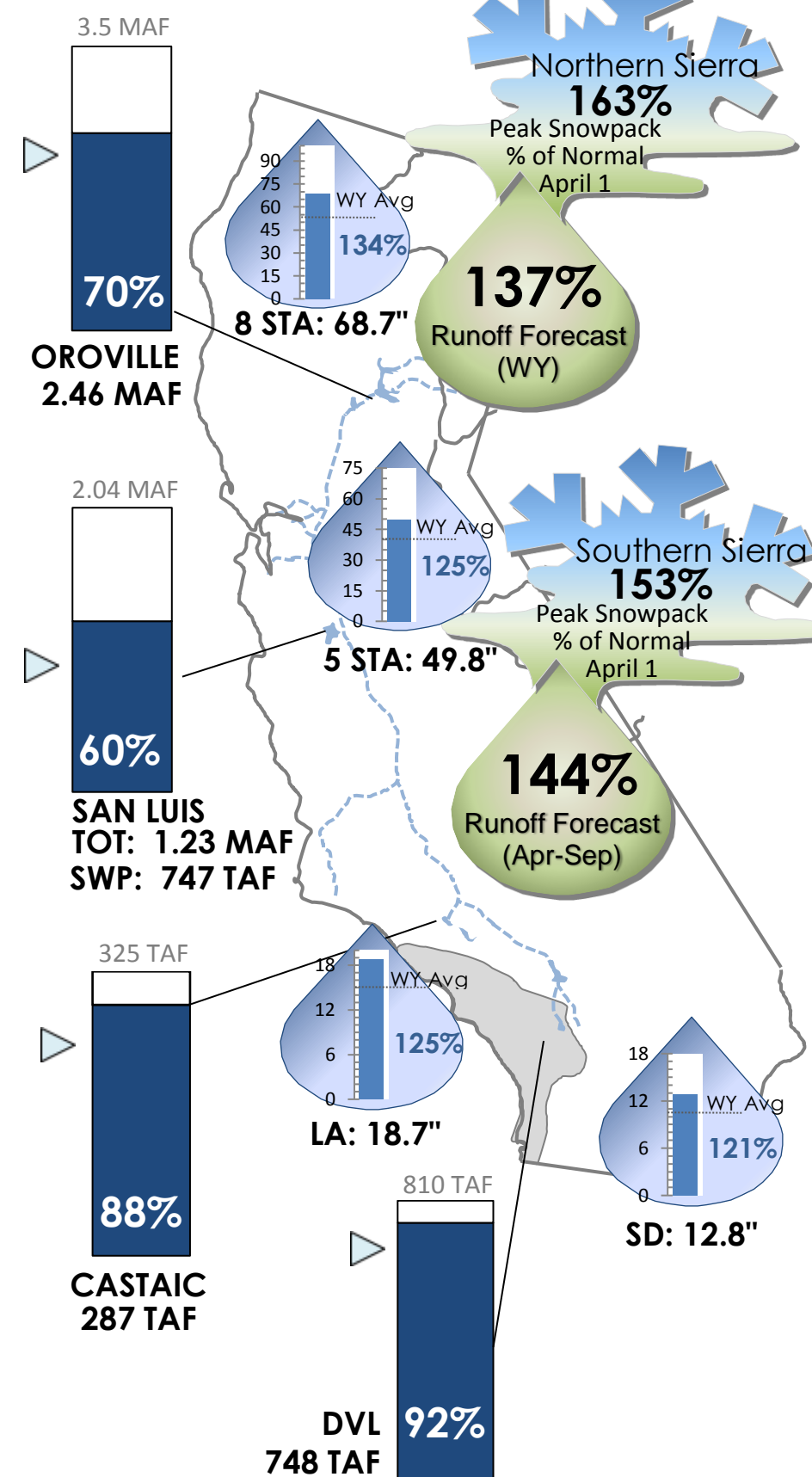
Water Supply Conditions Report

As of: 09/12/2019

2019 SWP Allocation

1,433,625 AF

75% of Table A



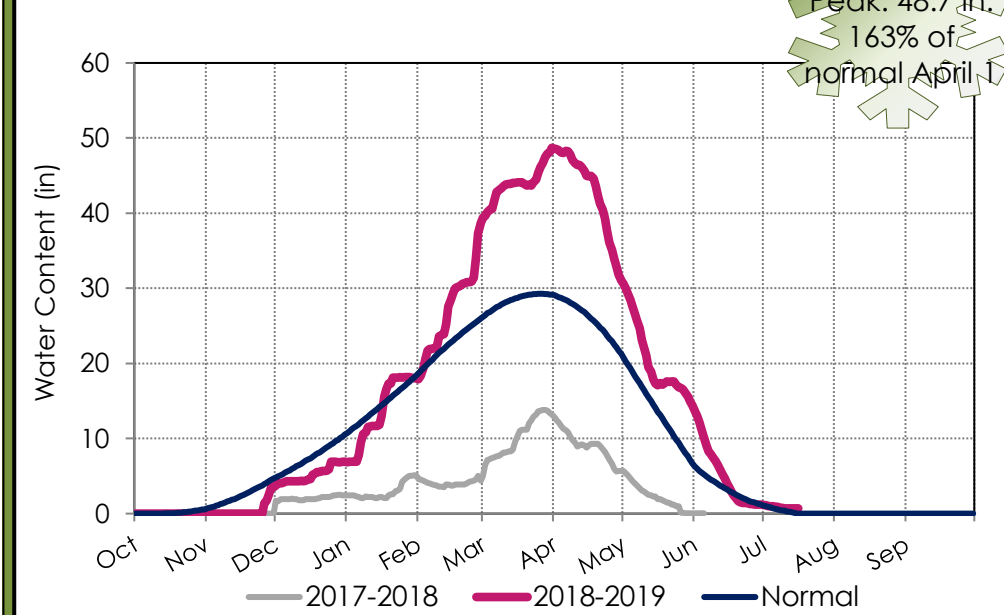
Flip Over for CRA Data

Turn page for more SWP Data

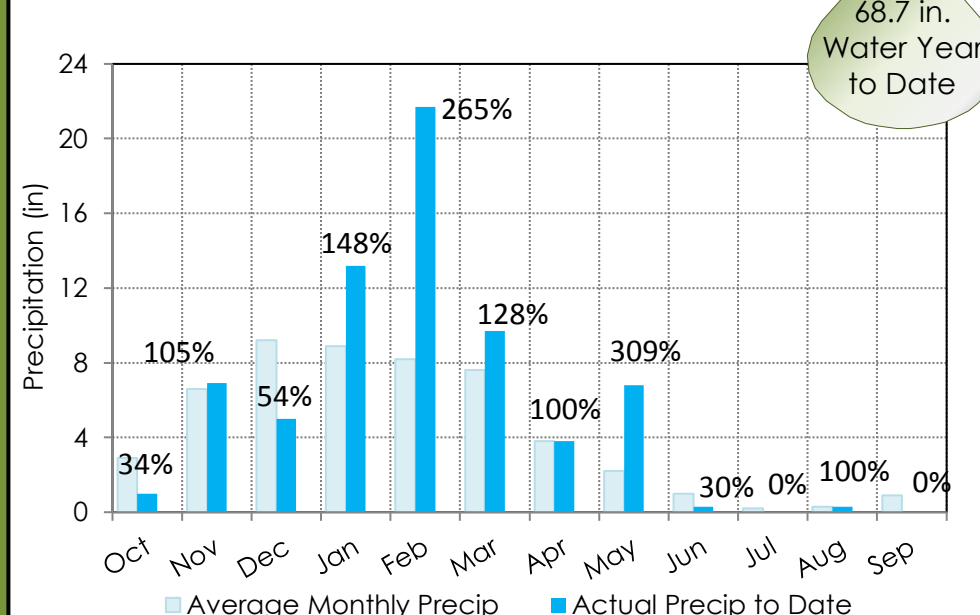
As of: 09/12/2019

State Water Project Resources

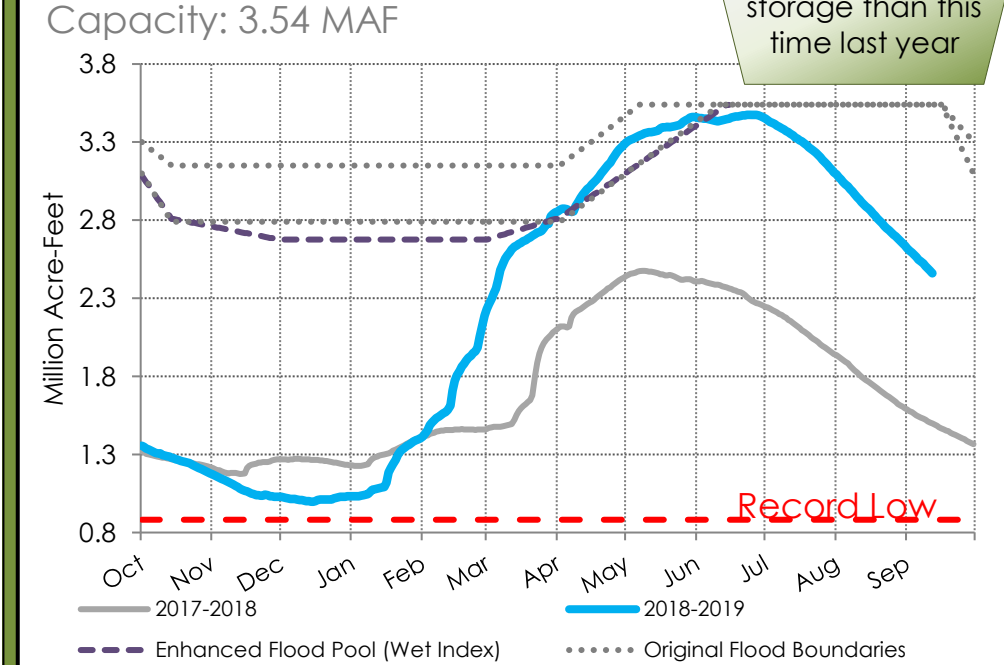
Northern Sierra Snowpack



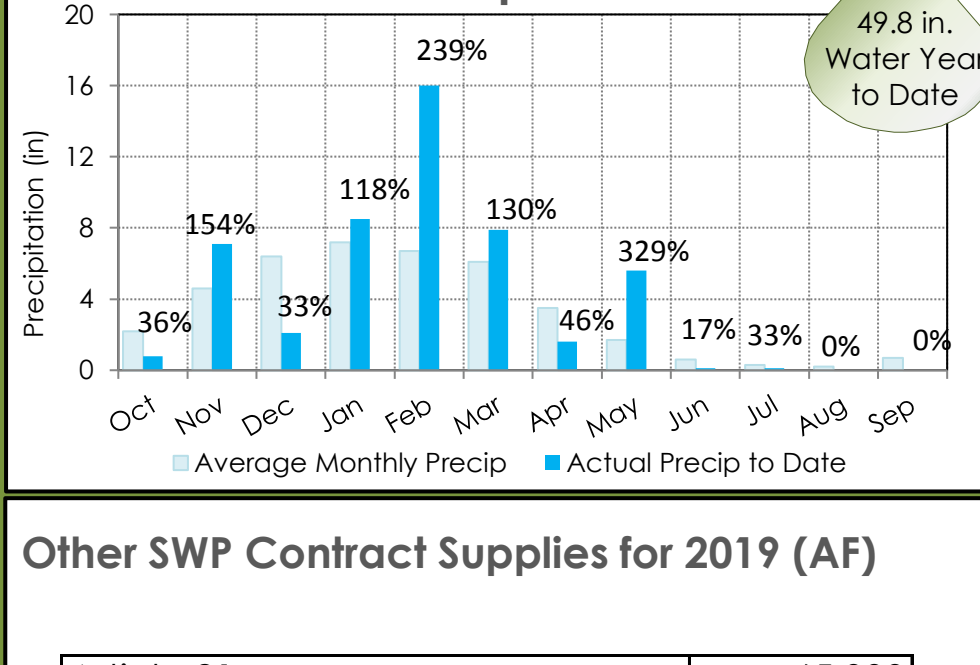
8 Station Index Precip



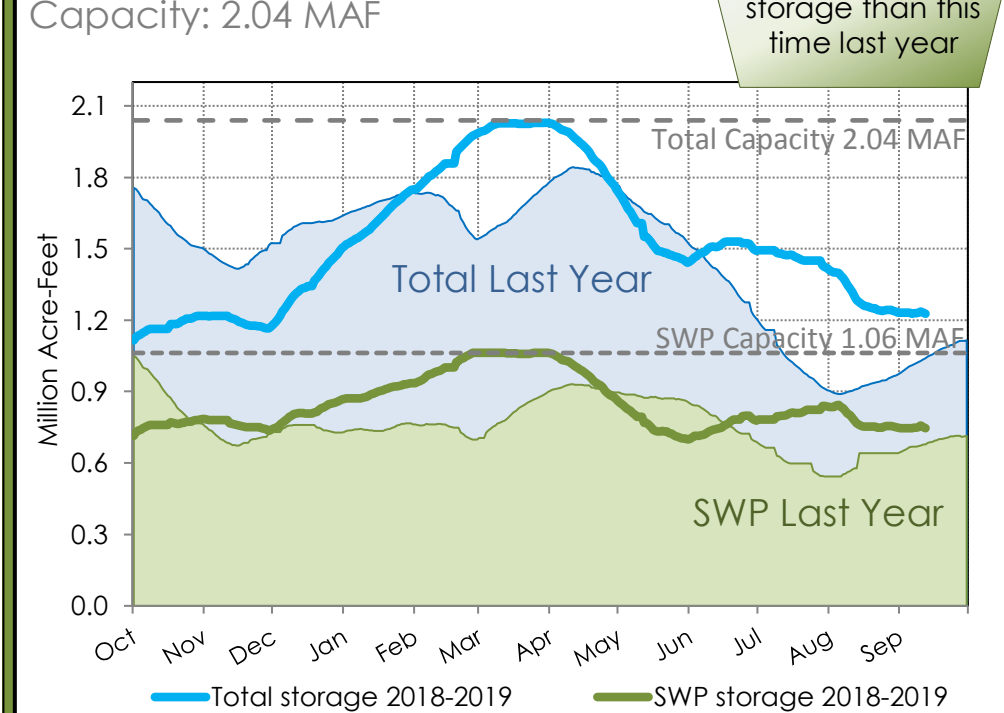
Oroville Reservoir Storage



5 Station Index Precip



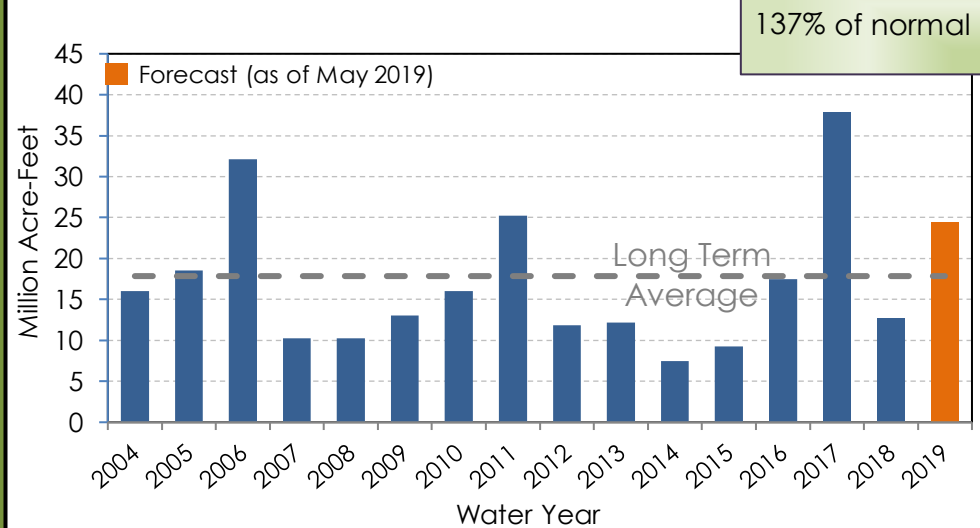
San Luis Reservoir Storage



Other SWP Contract Supplies for 2019 (AF)

Article 21	65,000
Carryover	93,000

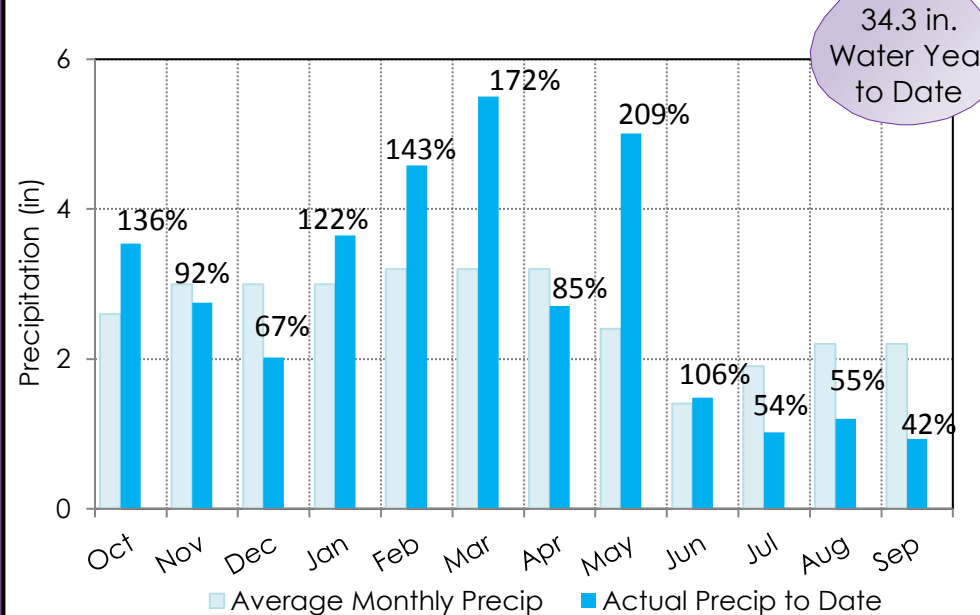
Sacramento River Runoff



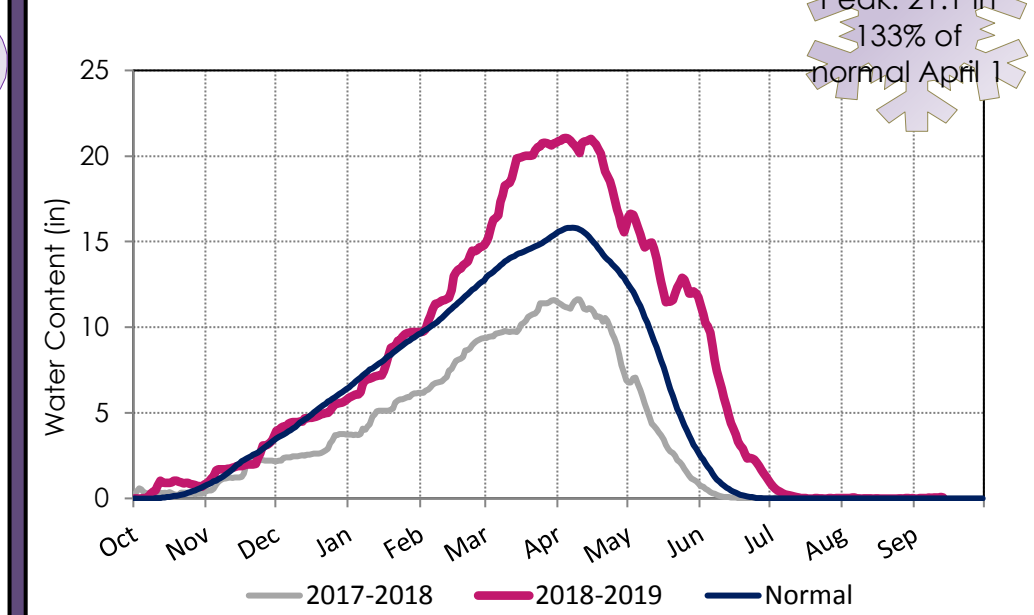
Colorado River Resources

As of: 09/12/2019

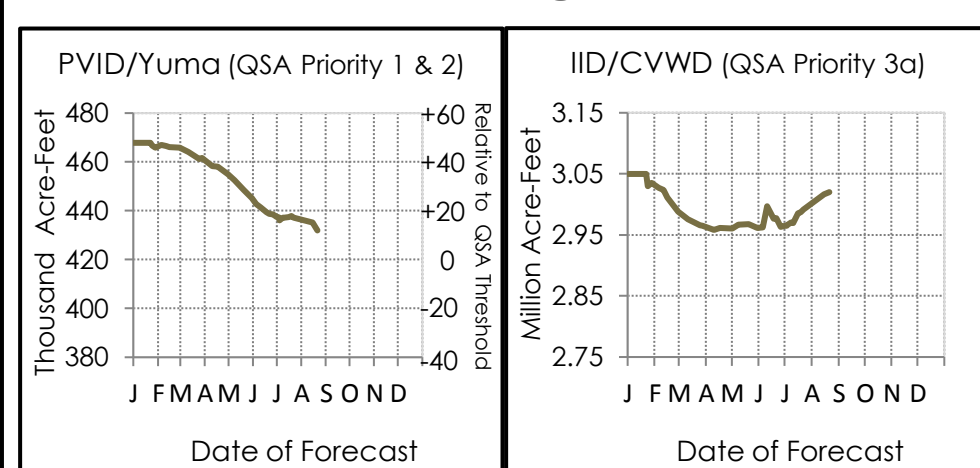
Upper Colorado Basin Precip



Upper Colorado Basin Snowpack



2018 Colorado River Ag Use

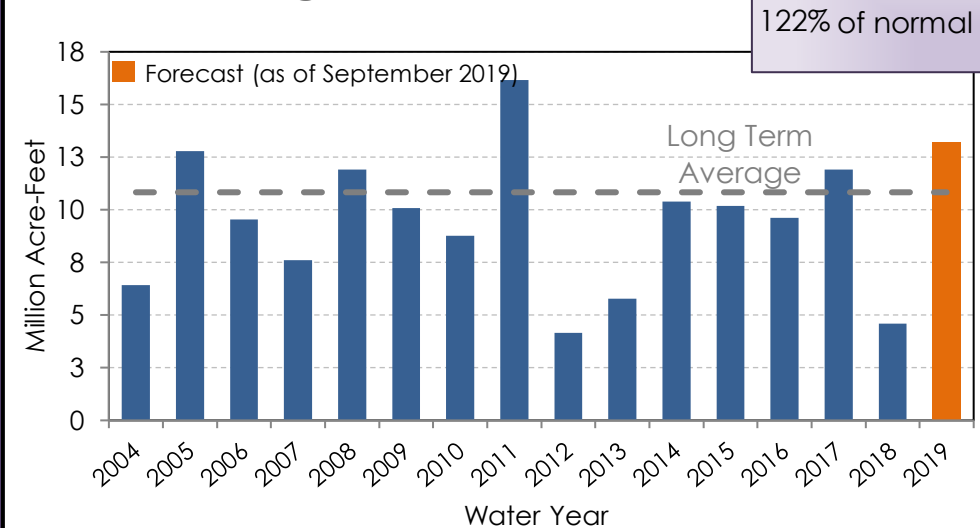


Lake Mead Shortage/Surplus Outlook

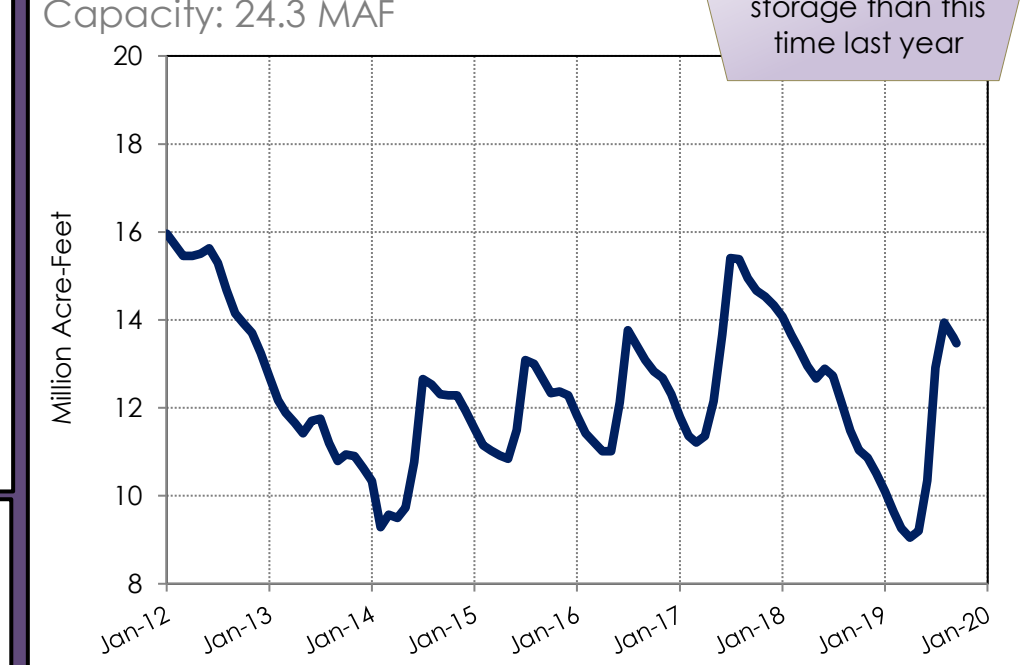
	2020	2021	2022	2023	2024
Shortage	0%	4%	24%	37%	43%
Surplus	0%	0%	7%	12%	19%

Likelihood based on results from the August 2019 CRSS model run. Includes DCP Contributions.

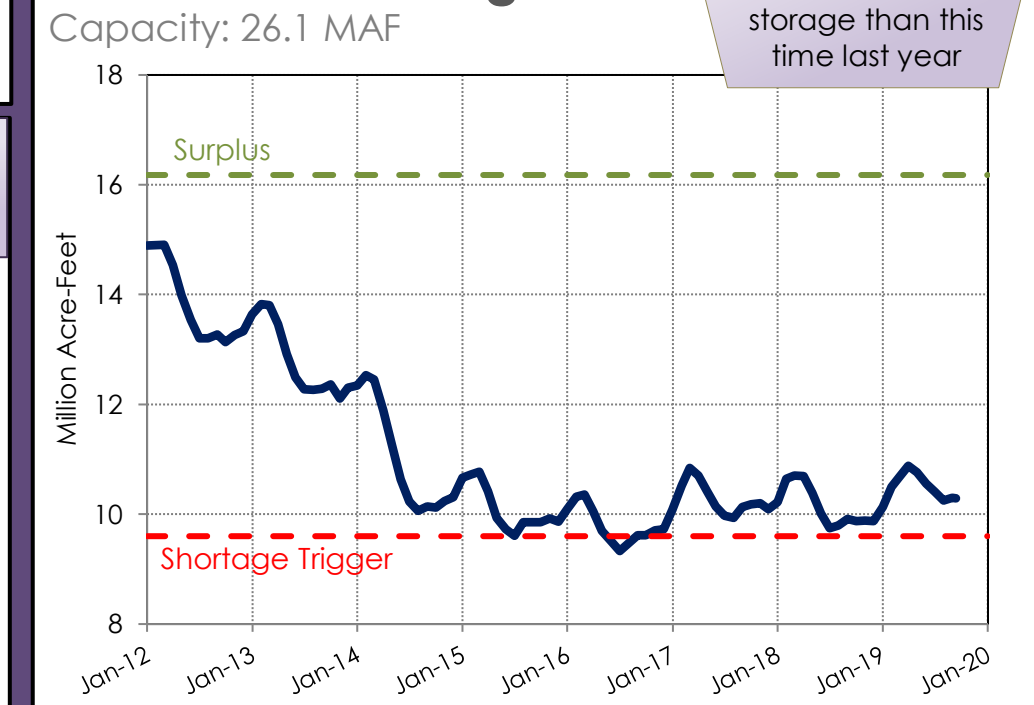
Powell Unregulated Inflow



Lake Powell Storage



Lake Mead Storage





Memorandum

DATE: September 16, 2019
TO: Member Agencies – MWD OC Division Five
FROM: Sat Tamaribuchi, Director – Division Five
SUBJECT: Monthly Water Usage Data, Tier 2 Projection & Water Supply Information

The attached figures show the recent trend of water consumption in Orange County (OC), an estimate of Imported Water Sales for MWD OC, and selected water supply information.

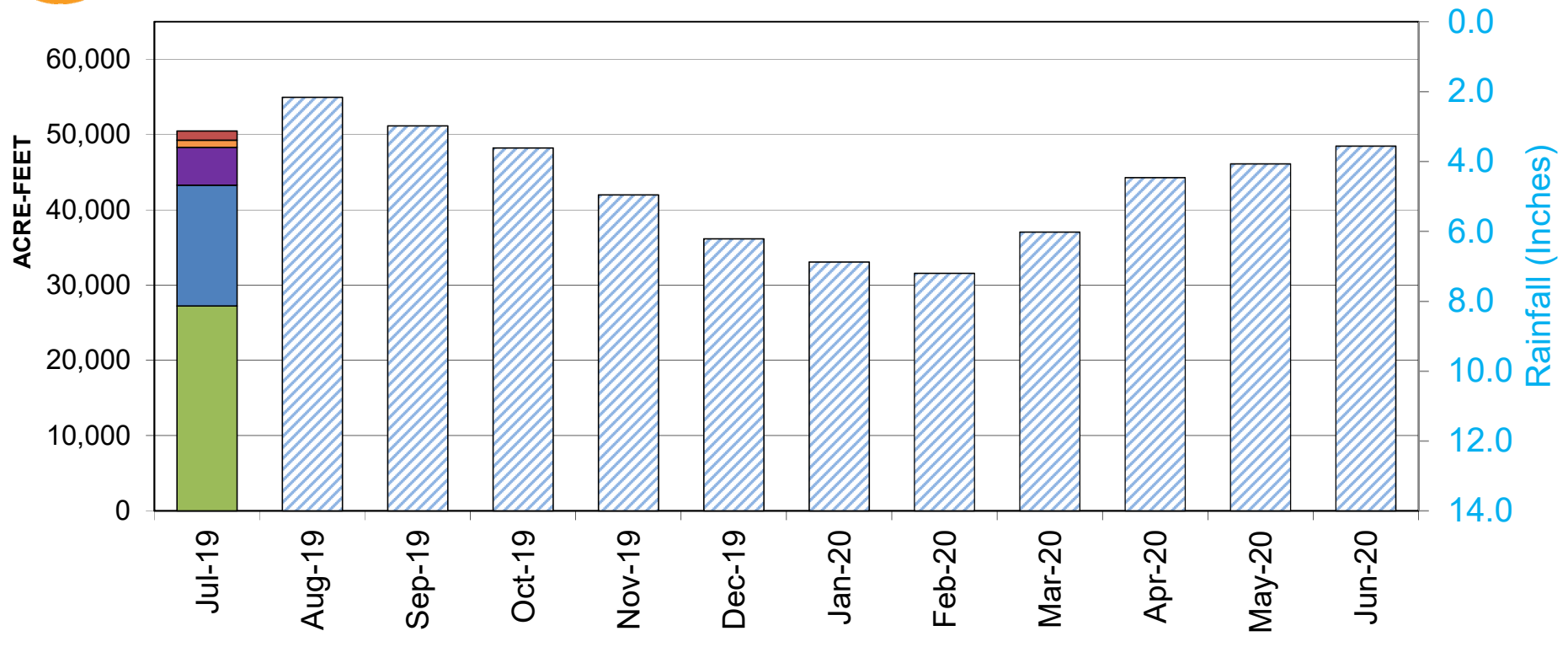
- OC Water Usage, Monthly by Supply **OCWD Groundwater was the main supply in July.**
- OC Water Usage, Monthly, Comparison to Previous Years Water usage in **July 2019 was below average compared to the last 5 years.** We are projecting a slight increase in overall water usage compared to FY 2018-19. It has been 29 months since all mandatory water restrictions were lifted by the California State Water Resources Control Board.
- Historical OC Water Consumption Orange County M & I water consumption is estimated to be **516,000 AF in FY 2018-19** (this includes ~15 TAF of agricultural usage and non-retail water agency usage). This is about **24,000 AF less than FY 2017-18** and is about **2,000 AF less than FY 2016-17**. Water usage per person is projected to be slightly higher in **FY 2018-19 for Orange County at 142 gallons per day** (This includes recycled water). Although OC population has increased 20% over the past two decades, water usage has not increased, on average. A long-term decrease in per-capita water usage is attributed mostly to Water Use Efficiency (water conservation) efforts. **O.C. Water Usage for the last four Fiscal Years is the lowest since the 1982-83 Fiscal Year** (FY 1982-83 was the third wettest year on record).

Water Supply Information Includes data on Rainfall in OC; the OCWD Basin overdraft; Northern California and Colorado River Basin hydrologic data; the State Water Project (SWP) Allocation, and regional storage volumes. The data have implications for the magnitude of supplies from the three watersheds that are the principal sources of water for OC. Note that a hydrologic year is Oct. 1st through Sept. 30th.

- Orange County's accumulated rainfall through **early September** was above average for this period. Water year to date rainfall in Orange County is **20.45 inches**, which is **160% of normal**.
- Northern California accumulated precipitation through **early September** was **139% of normal for this period**. Water Year 2018 was 82% of normal while water year 2017 was 187% of normal. The **Northern California snowpack** was **172% of normal** as of April 1st. **As of late August, 1.09%** of California is experiencing **moderate drought conditions** while 9.06% of the state is experiencing abnormally dry conditions. The State Water Project Contractors Table A Allocation was increased to 75% in June 2019.
- Colorado River Basin accumulated precipitation through **late August was 114% of normal** for this period. The **Upper Colorado Basin snowpack was 128% of normal** as of April 15th. **Lake Mead and Lake Powell** combined have about **65% of their average storage volume** for this time of year and are at **47.6% of their total capacity**. If Lake Mead's **level falls below a "trigger" limit 1,075 ft. at the end of a calendar year**, then a shortage will be declared by the US Bureau of Reclamation (USBR), impacting Colorado River water deliveries to the Lower Basin states. As of late June, Lake Mead levels were **8.51' above the "trigger" limit**. The USBR predicts that the start of 2019 will not hit the "trigger" level but there is **a 0% chance that the trigger level will be hit in 2020 and a 6% chance in 2021**.



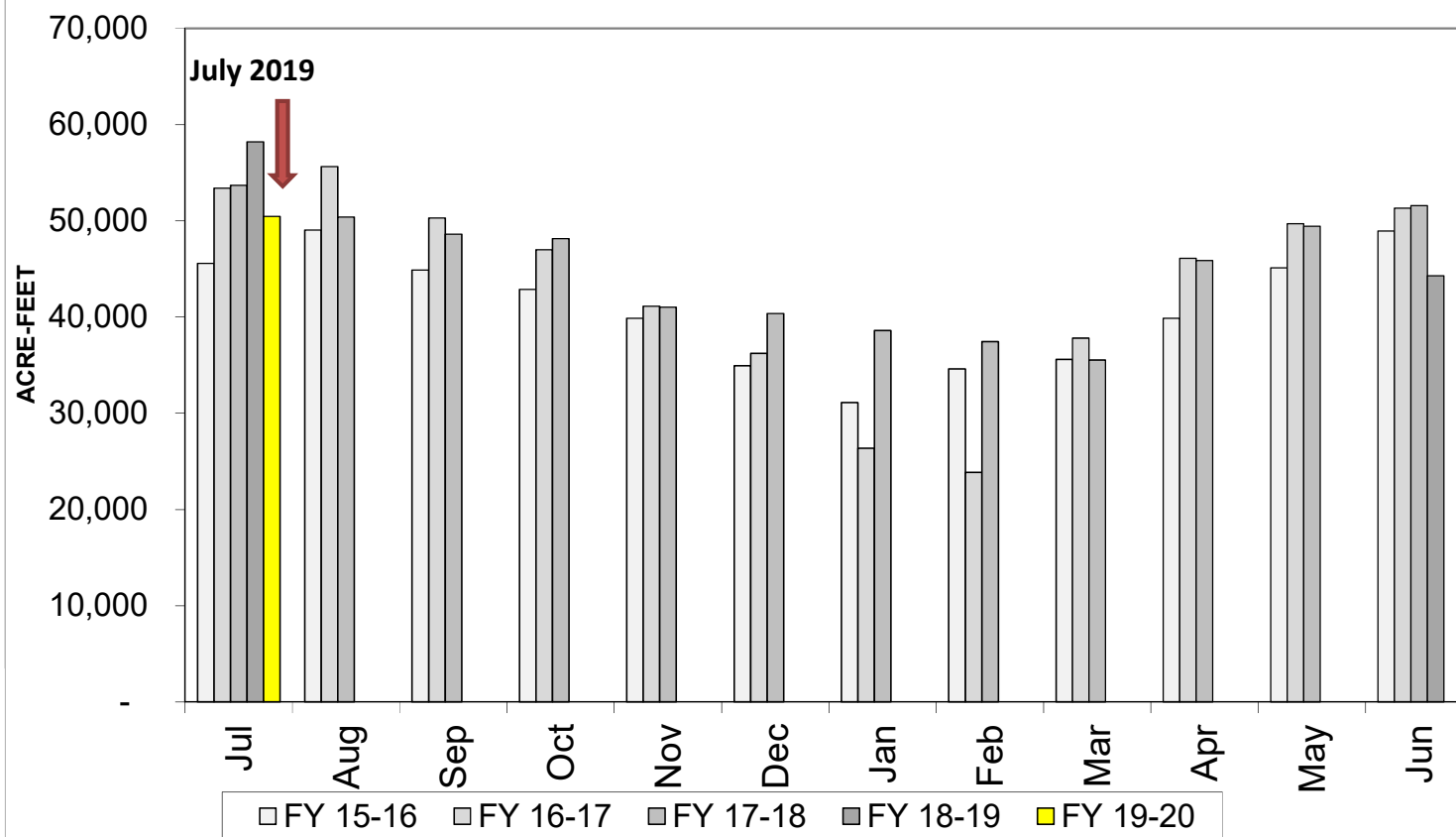
Fig. 1 OC Water Usage, Monthly by Supply with projection to end of fiscal year



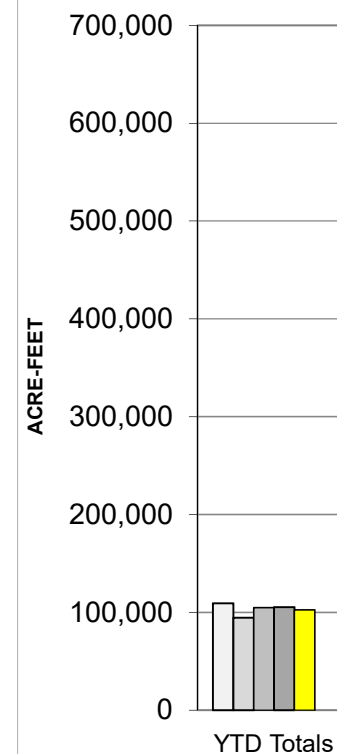
- [1] Imported water for consumptive use. Includes "In-Lieu" deliveries and CUP water extraction. Excludes "Direct Replenishment" deliveries of spreading water and deliveries into Irvine Lake.
- [2] GW for consumptive use only. Excludes In-Lieu water deliveries and CUP water extraction that are counted with Import. BPP in FY '19-20 is 77%.
- [3] MWDOC's estimate of monthly demand is based on the projected 5 Year historical retail water demand and historical monthly demand patterns.
- [4] Total water usage includes IRWD groundwater agricultural use and usage by non-retail water agencies.



Fig. 2 OC Monthly Water Usage [1]: Comparison to Last 4 Fiscal Years

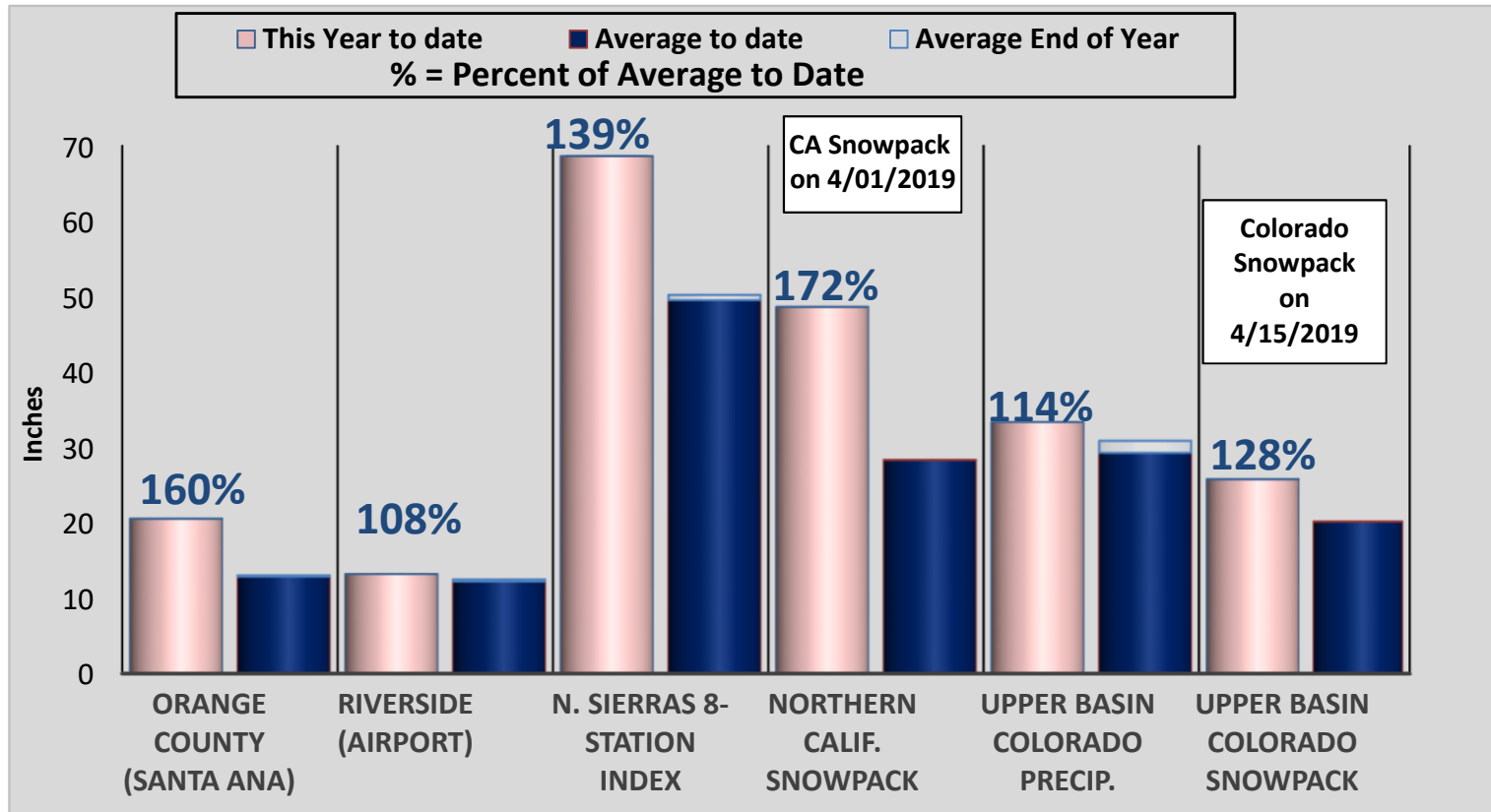


Partial Year Subtotals



[1] Sum of Imported water for consumptive use (includes "In-Lieu" deliveries; excludes "Direct Replenishment" and "Barrier Replenishment") and Local water for consumptive use (includes recycled and non-potable water and excludes GWRS production) Recent months numbers include some estimation.

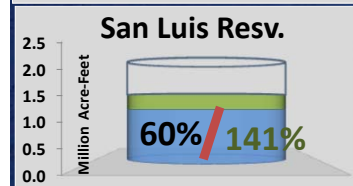
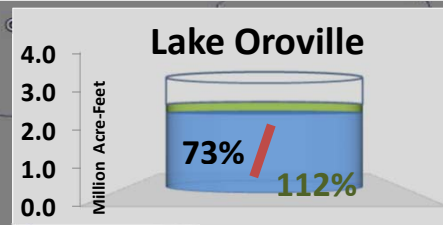
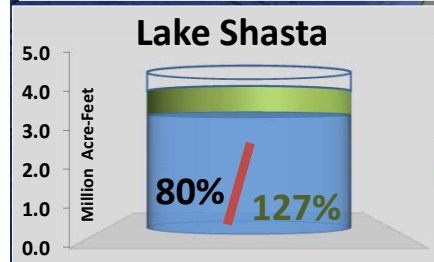
Accumulated Precipitation for the Oct.-Sep. water year, through Early September 2019



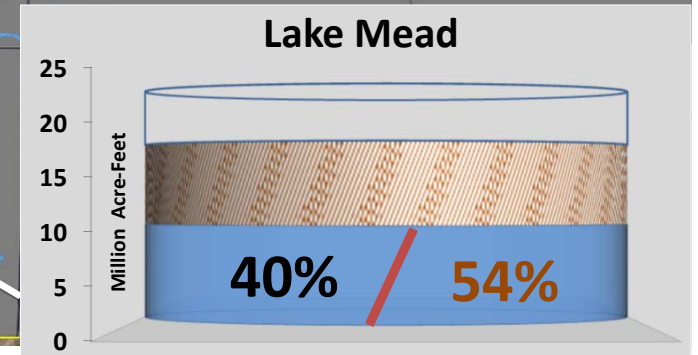
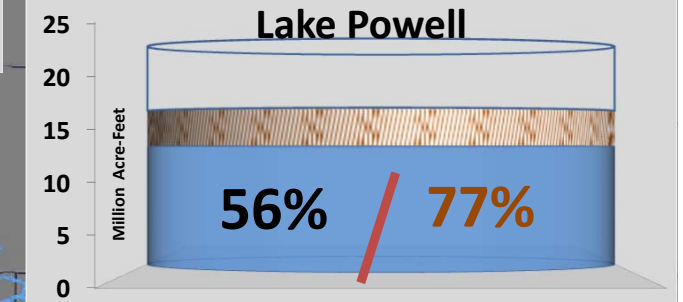
* The date of maximum snowpack accumulation (April 1st in Northern Calif. , April 15th in the Upper Colorado Basin) is used for year to year comparison.

State Water Project, Colorado River, and MWD Reservoir Storage

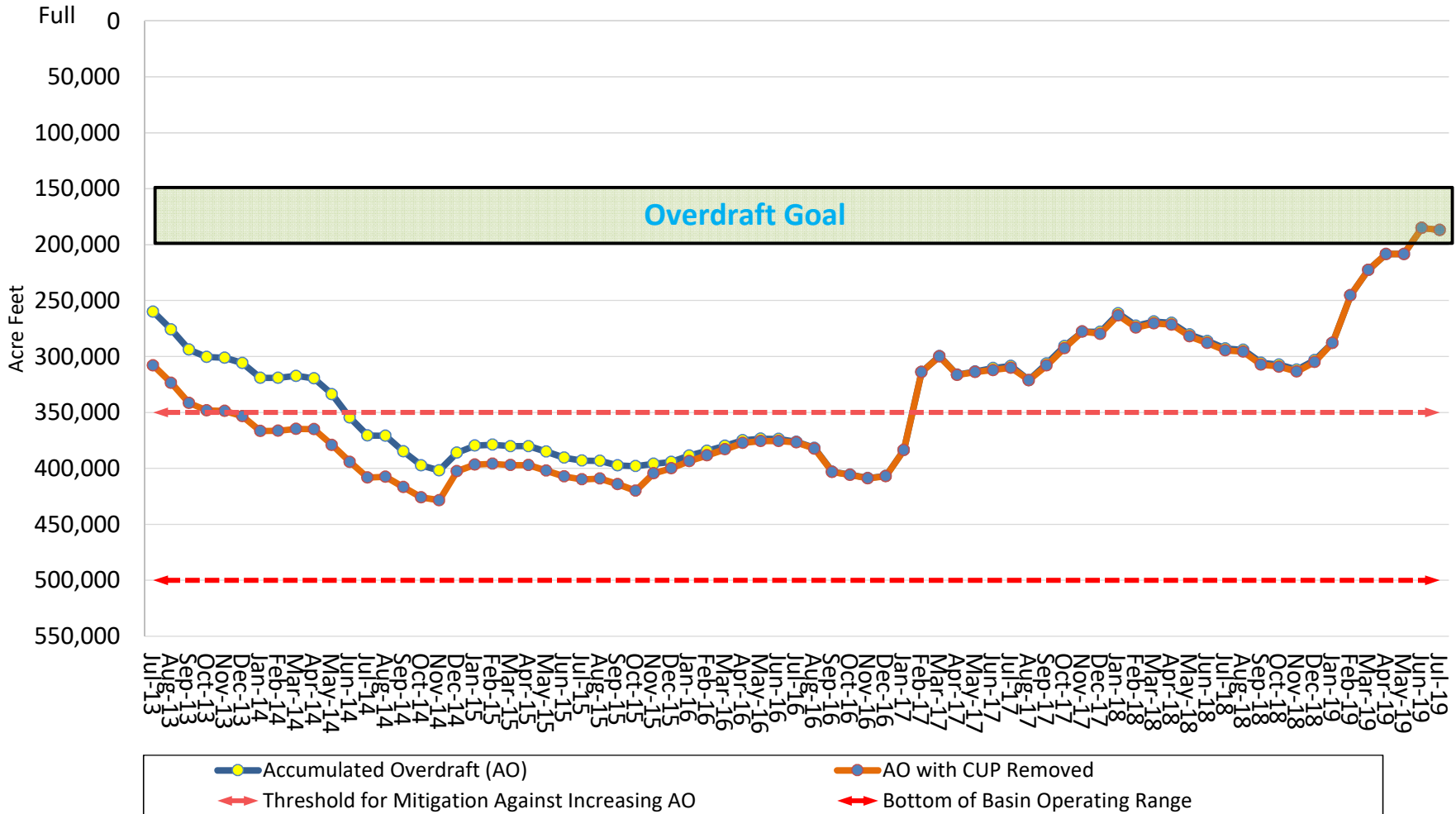
as of September 3, 2019



prepared by the Municipal Water District of Orange County
*Numbers are Subject to Change

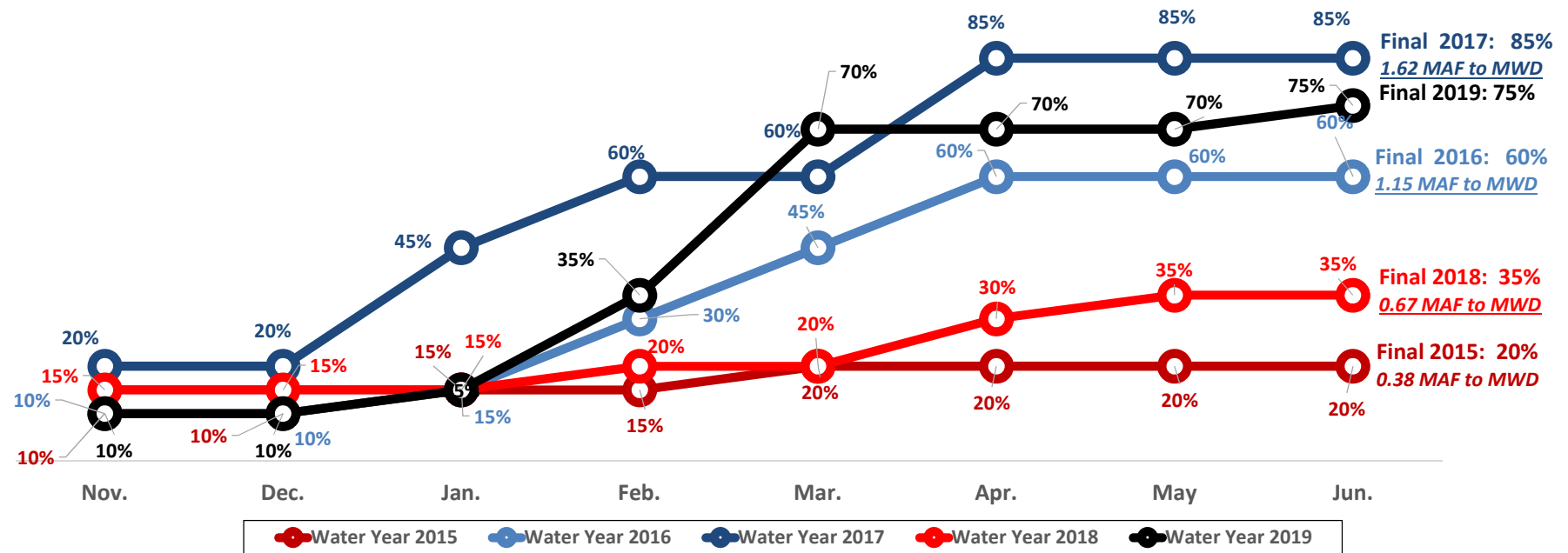


Accumulated Overdraft of the OCWD Groundwater Basin as of July 2019

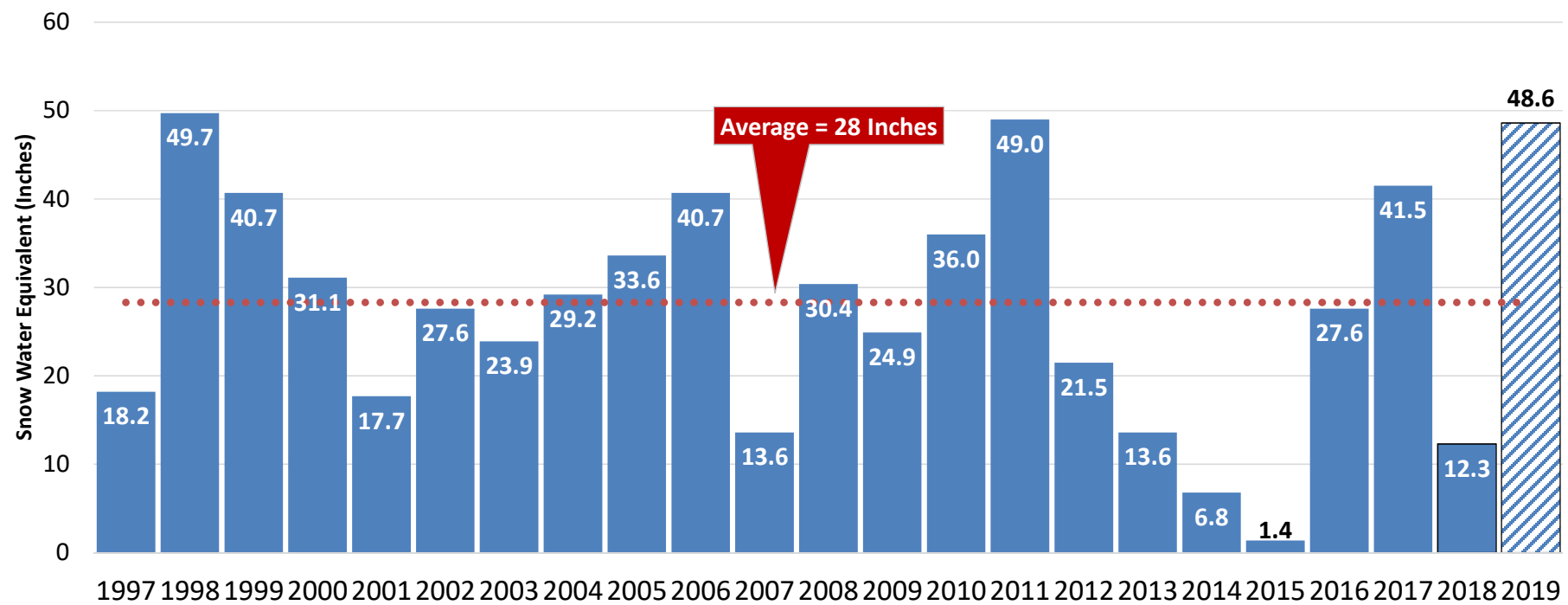


SWP TABLE A ALLOCATION

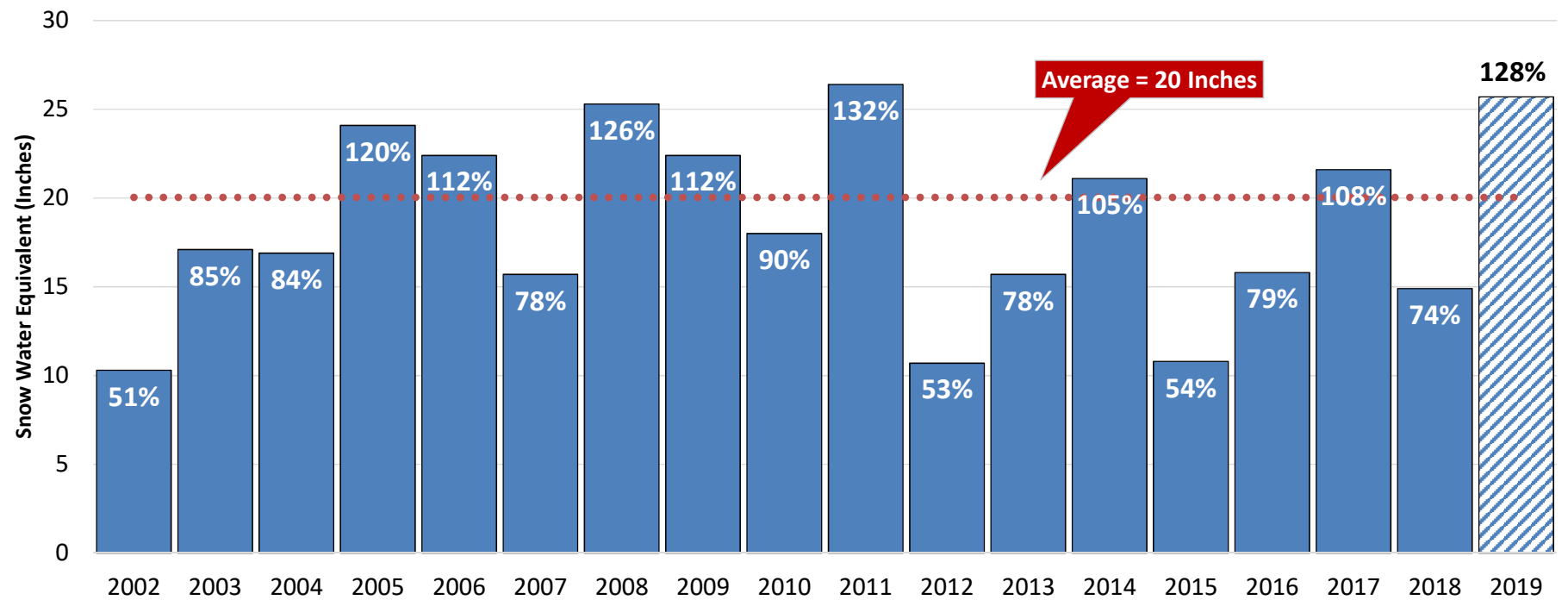
FOR STATE WATER PROJECT CONTRACTORS



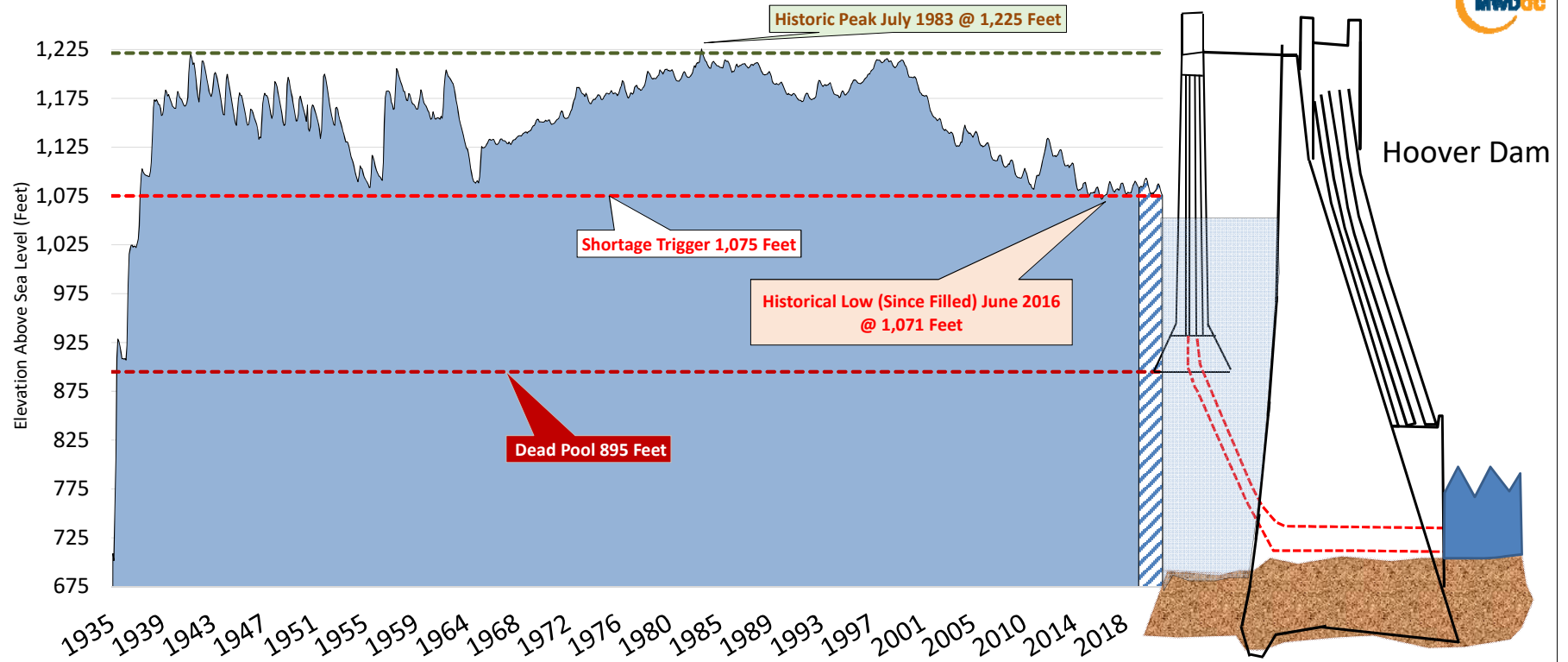
Historical Northern California April 1st Peak Snow Water Equivalent



Historical Colorado Basin April 15th Peak Snow Water Equivalent

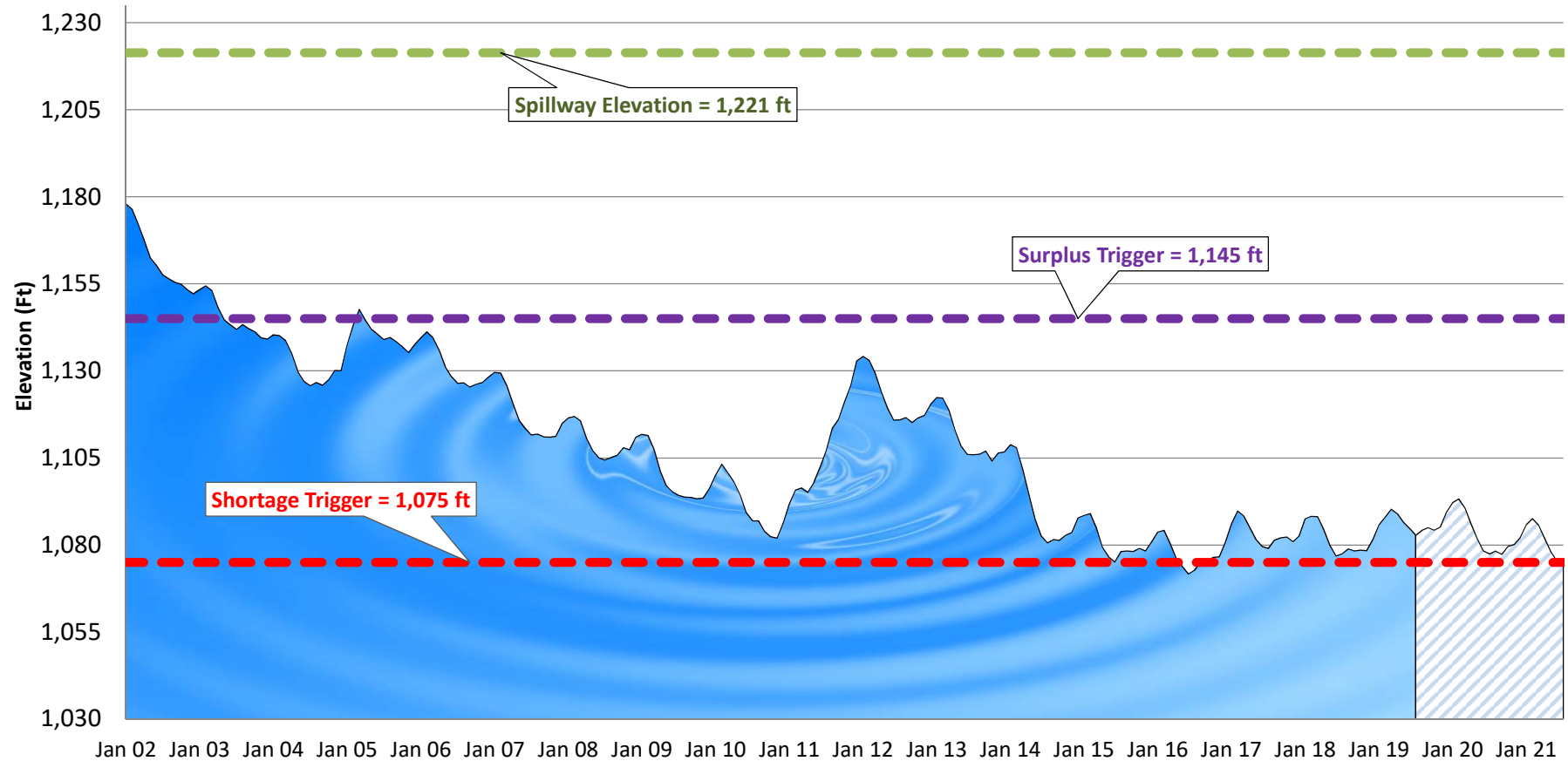


Lake Mead Historical Water Elevation Level



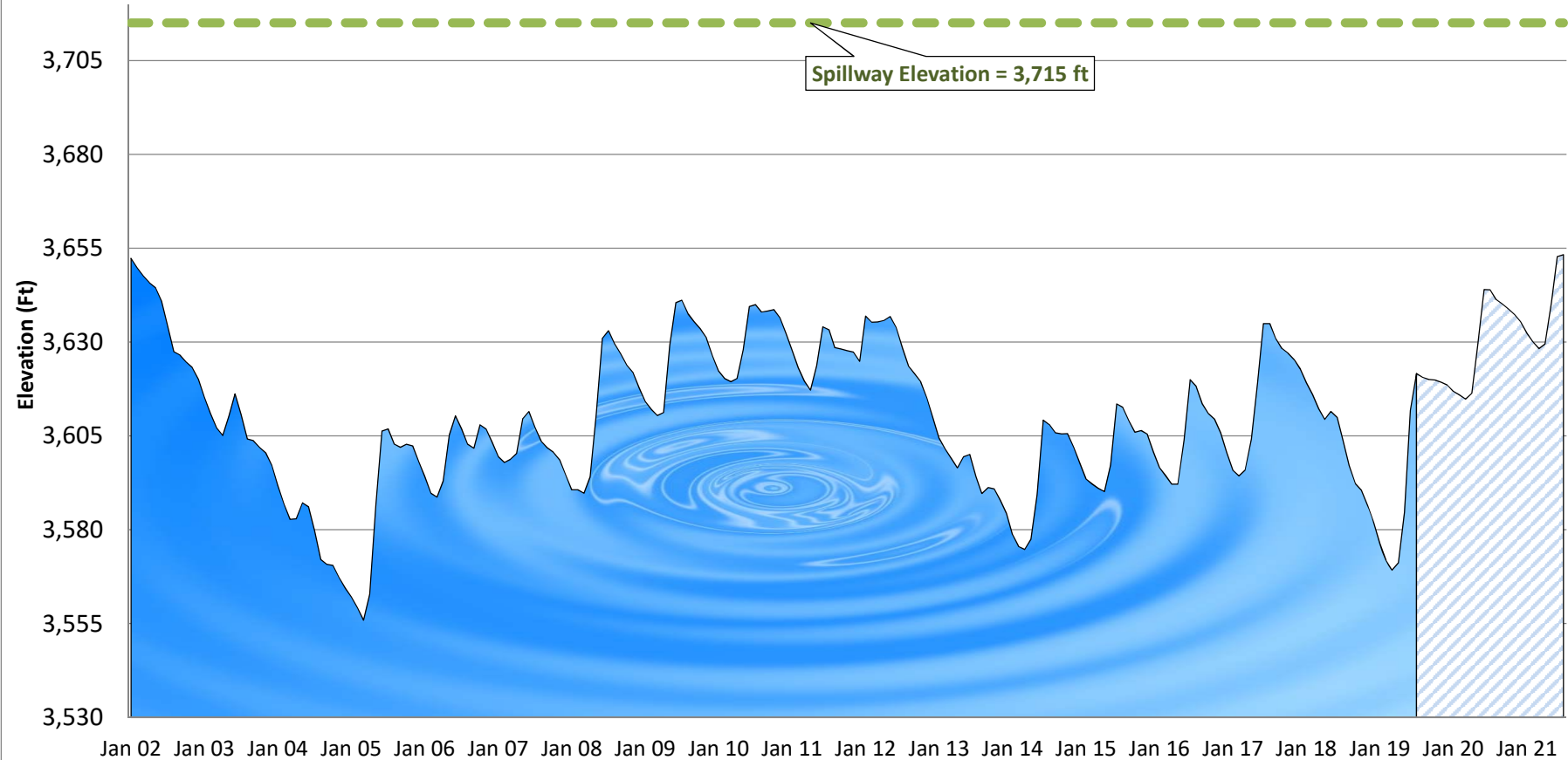
Lake Mead Levels: Historical and Projected projection per USBR 24-Month Study

■ Historical □ Projected



Lake Powell Levels: Historical and Projected projection per USBR 24-Month Study

■ Historical □ Projected



WILL SERVE REQUEST STATUS REPORT

(August 2019)

All projects subject to previously issued Will Serve Letters are either Complete or the Will Serve Letter has Expired
(Will Serve Letters Expire One Year from Date of Issuance)

Date Requested	Applicant	Project Description	Type	Location	Status	Date Issued
3/8/19	Target Corporation	Target Mission Viejo Redevelopment	ND	24500 Alicia Pkwy.	Issued	7/3/19

ND = New Development

TI = Tenant Improvement

EL TORO WATER DISTRICT
UNAUTHORIZED DISCHARGE SUMMARY
YEAR OF 2019

DATE	PUBLIC / PRIVATE	SPILL TYPE	LOCATION	REASON	IMMEDIATE CORRECTIVE MEASURES	PREVIOUS MAINTENANCE		POST-INCIDENT PREVENTIVE MEASURES	RWQCB	DISCHARGED TO	SPILL VOLUME (PUBLIC) Gallons		SPILL VOLUME (PRIVATE) Gallons		REGULATORY NOTIFICATION AND RESPONSE
						CLEANING	TV				CONTAINED	SPILED	CONTAINED	SPILED	
January 23, 2019	PUBLIC	SEWER	Res. 23566 Los Adornos Aliso Viejo	Root Intrusion	Ran root cutter in Public Lateral and cut the blockage out.			Tv'd the line and saw it was cleared	9	Grass Yard	3	5			Notified OCEH, RWQCB 9, and City of Aliso Viejo
February 2, 2019	PRIVATE	SEWER	Res. 23902 Bough Ave. Mission Viejo	Toliet Paper Blockage	Collections ran a snake in line breaking the blockage. Noticed there was a belly in line, a dip in line where material can collect causing blockages.			Tv'd the line and saw it was cleared that is when the dip in line was discovered	9	Grass Yard			1	1	Notified OCEH, RWQCB 9, and City of Mission Viejo
March			No		Spills			To							Report
April			No		Spills			To							Report
May 1, 2019	PUBLIC	SEWER	643 Avenida Sevilla	Root Intrusion	First ran jetter to try to unclog then ran the root cutter and broke the clog.			Collections crew went out to tv line in morning.	9	Sidewalk and Grass area	0	150			Notified OCEH, RWQCB 9 and Laguna Woods
June			No		Spills			To							Report
July 19, 2019	PRIVATE	SEWER	Res. 23956 Cophagen, Mission Viejo	Root Intrusion	Ran the root cutter to clear the sewer lateral.			TV'd line again and lateral was clear.	9	Inside house			0	0	None, did not spill outside.
August 30, 2019	Private	Recycled Water	23451 Caminito Salado, Laguna Hills	Leak in private irrigation system	Contained flow upon arrival with sandbags and added dechlorinating agent to flow. Located meter serving systgem and isolated. Cleaned up contained flow with sewer vactor.			Notified Laguna Village Homeowners Association	8	Stormdrain			150	1050	Notified RWQCB and O.C. Flood Conotrol District
LEGEND											3	155	151	1,051	
S.DC = San Diego Creek		RES. = Residential	R.S. = Rocks												
S.D. = Storm Drain		C. = Commercial	C.W.D. = Calcium Water Deposits												
A.C. = Aliso Creek		S.B. = Siphon	B.P. = Broken Pipe												
G.B. = Grease Blockage		P.F. = Power Failure	U.W. = Untreated Water												

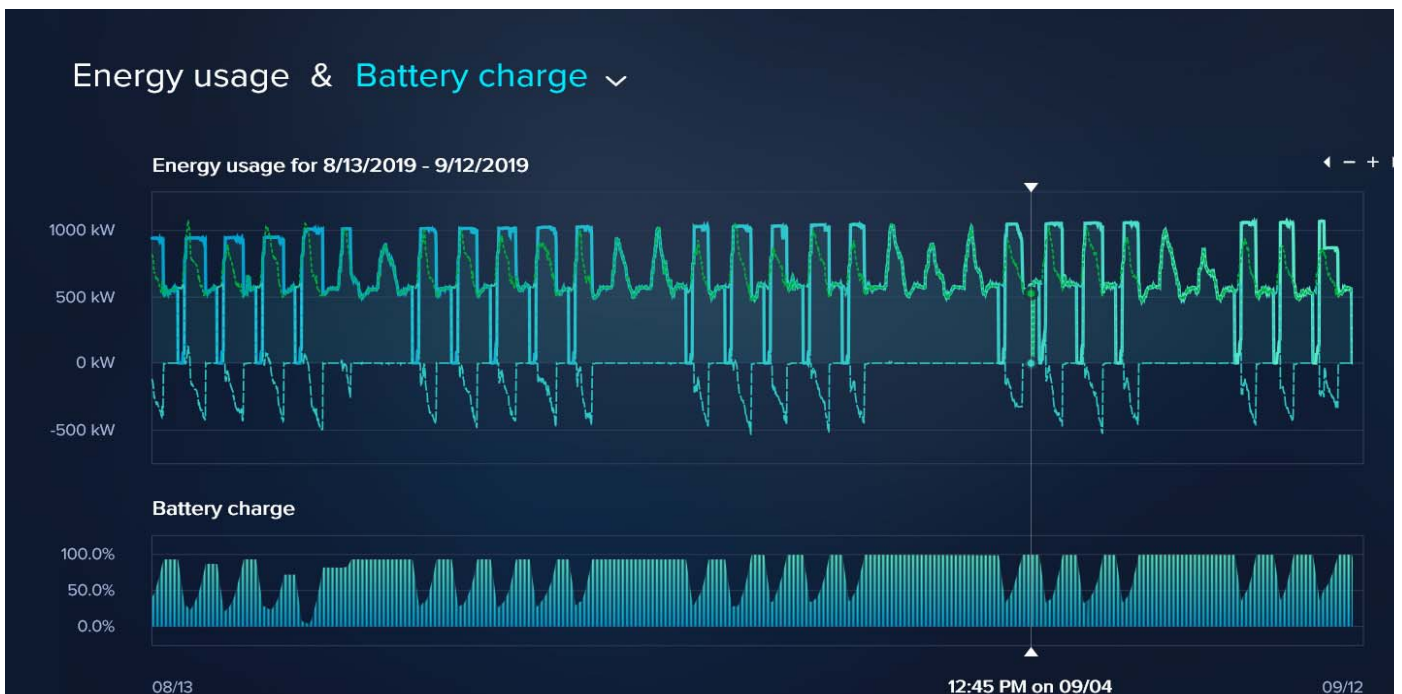


WRP BATTERY STORAGE SYSTEM

MONTHLY REPORT

AUGUST, 2019

BILLING PERIOD	PEAK REDUCTION	PEAK INCURRED	BILL SAVINGS	NET SAVINGS
7/15/2019 - 8/13/2019	67 kW	1,032 kW	\$3,703.97	\$1,723.97
8/13/2019 - 9/12/2019	9 kW	1,070 kW	\$4,593.03	\$2,613.03
TOTAL			\$8,297.00	\$4,337.00



JAMES C. BARKER, PC
ATTORNEY AND COUNSELOR AT LAW
FIFTH FLOOR
1050 THOMAS JEFFERSON STREET, NW
WASHINGTON, DC 20007
(202) 293-4064
jimbarker@jcbdc.com

Nicholas Crockett
Allison Leavitt

Municipal Water District of Orange County, California
Washington Update
September 10, 2019

Congressional Session:

Since our last report, the Congress has been in a prolonged August Recess period. Today is the first day of the fall legislative session since the Senate adjourned on August 2nd. As a result, this Washington Update will be an abbreviated report.

Appropriations:

House and Senate Leaders are now actively working on a short-term spending bill to avoid any kind of a federal shutdown as the fiscal year ends on September 30th. As discussed in previous reports, while a two-year budget agreement was reached earlier this summer, the Senate chose not to move “any” of its appropriations bills until such an agreement was made and is now months behind its process of regular order. The Senate Majority Leader has announced that the major focus of the Senate this month will be moving forward with as many of the regular appropriations bills as possible and then passing a temporary continuing resolution for the outstanding parts of the government before the end of September.

Later this week, the Senate is expected to move its Energy and Water Appropriations Bill along with three other bills through the Appropriations Committee process. No figures have been released yet for the Thursday Committee meeting. We anticipate the Energy and Water Bill will receive a slight increase in funding—similar to the House Bill. We have contacted Senator Feinstein’s Office again regarding the critical Doheny Beach Desal Project Language needed in this bill and they have signaled to us that the Committee should be protecting the \$8.3 Million Grant which Doheny is in the process of receiving. We are monitoring this process closely.

A short-term spending bill should be clearing the House and the Senate that will provide funding for all federal departments until late November or December.

PFAS:

The House of Representatives passed its version of the National Defense Authorization Act (NDAA) just prior to the beginning of the August Recess period. Legislative efforts aimed at dealing with the PFAS contamination crisis remain as points of controversy between the House and Senate as Conference Committee negotiations on the annual defense bill will begin in earnest this week.

The most controversial issue is the so-called Dingell amendment that passed on the House bill to designate all PFAS as hazardous for the purposes of Superfund cleanups. Virtually all of the national water stakeholder groups have come out strongly opposing the Dingell language. A copy of the major water stakeholder groups letter has been attached to this Report and it outlines the major concerns regarding the PFAS issues contained in the House and Senate versions of the NDAA.

Meanwhile, the White House has detailed its concerns regarding the current drafts of the legislation last week. Many of the Administration's concerns track very closely with the attached letter.

To summarize some of the key differences between the House and Senate Bills--the House bill mandates Clean Water Act (CWA) discharge limits for PFAS but does not include the Senate's requirement to promulgate drinking water standards. Most importantly, the House approved an amendment, offered by Reps. Debbie Dingell (D-MI) and Dan Kildee (D-MI), requiring EPA to list all PFAS as hazardous substances under CERCLA. The Senate bill does not include this provision.

The hazardous substance issue is important and controversial because of its liability implications. If PFAS are listed as hazardous substances, they become subject to CERCLA's broad liability scheme, *which makes past and present owners and operators, transporters, and arrangers jointly and severally liable for the cost of cleanup.*

EPA already has CERCLA authority to clean up PFAS releases (as pollutants or contaminants), but presently cannot hold parties liable under CERCLA for such cleanup. The House provision – by making PFAS hazardous substances – would expand EPA’s ability to recover CERCLA response costs, and also would empower private parties to recover CERCLA response costs for PFAS cleanups.

JCB 9/10/19



Aug. 8, 2019

The Honorable James M. Inhofe
Chair
Senate Committee on Armed Services

and

The Honorable Adam Smith
Chair
House Committee on Armed Services

Dear Sen. Inhofe and Rep. Smith,

As preparations begin for a conference committee to convene on the 2020 National Defense Authorization Act, the undersigned water organizations want to bring to your attention important issues surrounding provisions in both House and Senate bills addressing per- and polyfluoroalkyl substances (PFAS). Our recommendations are in the interest of protecting public health, facilitating effective science-based regulations, and holding polluters - not innocent local communities - responsible for environmental remediation costs. We stand willing to work with you to achieve these goals.

1. Liability for PFAS clean-up should rest with PFAS producers.

- a. Congress should not hold community drinking water and wastewater facilities liable for PFAS contamination caused by PFAS products that we now realize should not have been allowed into commerce in the United States.
- b. Designating PFAS as a CERCLA ("Superfund") hazardous substance would help communities that have a known responsible party with financial means to pay for cleanup. However, it could also create liability for communities that encounter PFAS in their water treatment activities. Once PFAS is removed from water, it then must be disposed of. A water utility that properly disposes of residuals containing PFAS, in a manner consistent with applicable laws, must not be held liable under CERCLA for future costs associated with PFAS cleanup. Those costs and responsibilities must remain with the original polluters that introduced PFAS into the environment. Failure to protect water utilities from this liability would victimize the public twice: once when they are forced to pay to remove PFAS from their water, and again when they are forced to pay to clean up PFAS elsewhere.
- c. If Congress does designate PFAS as a hazardous substance under CERCLA, an exemption for water and wastewater treatment residuals should be included.

2. Congress should not mandate that EPA set a drinking water standard for per- and polyfluoroalkyl substances (PFAS) as a group or class.
 - a. While research exists for legacy PFAS compounds such as PFOA and PFOS, more research is needed to understand the health impacts of other PFAS compounds and whether regulation of PFAS as a group or class would be an effective approach to public health protection.
 - b. EPA already has authority under the Safe Drinking Water Act to regulate groups of contaminants when warranted.
3. Congress should not direct EPA to prepare drinking water health advisories for PFAS compounds under the Safe Drinking Water Act.
 - a. Health advisories can become de facto maximum contaminant levels without consideration of feasibility (e.g., available analytical methods, effective drinking water treatment options, consideration of benefit-cost analyses, or due process with adequate notice and comment).
 - b. The Safe Drinking Water Act gives EPA broad authority to issue drinking water health advisories for unregulated contaminants, and the agency issued such advisories for PFOA and PFOS in 2016.
 - c. Health advisories should only be released when they facilitate effective risk management. It is not clear that health advisories issued while primary drinking water standards are in development would be effective mechanisms to guide public water systems toward sound local decisions.
4. Congress must provide EPA with the necessary resources to properly consider future PFAS regulations.
 - a. The Safe Drinking Water Act mandates a consistent, transparent, and science-based regulatory process for the consideration of new drinking water regulations. Establishing different regulatory processes for PFAS or any other groups of contaminants, with different deadlines and consideration procedures, would set a troubling precedent would likely lead to premature regulatory decisions that lack public review and scientific validity.
 - b. Setting timelines without adequate resources to assist EPA would set up drinking water regulation related to the substances in question on a path to failure. The agency will need resources to
 - i. fund research to support decision-making;
 - ii. develop policy and associated public engagement;
 - iii. help states with rule implementation; and
 - iv. provide technical assistance and funding for impacted water systems.
 - c. The nation can ill afford the further erosion of public confidence in drinking water and our regulatory system.

5. It is time for Congress to ensure that EPA utilizes the Toxic Substances Control Act to understand the risk posed by PFAS and control that risk before they are introduced into commerce.

If you would like to learn more about how we treat and distribute water, please do not hesitate to contact us.

Sincerely,

G. Tracy Mehan III
Executive Director for Government Affairs
American Water Works Association

Diane VanDe Hei
Chief Executive Officer
American Association of Metropolitan Water Agencies

Rob Powelson
President and Chief Executive Officer
National Association of Water Companies

Sam Wade
Chief Executive Officer
National Rural Water Association

cc/ Members
House and Senate Armed Services committees

The Honorable John Barrasso, Chair
The Honorable Thomas R. Carper, Ranking Member
Senate Committee on Environment and Public Works

The Honorable Frank Pallone, Chair
The Honorable Greg Walden, Ranking Member
House Committee on Energy and Commerce



Memorandum

To: Municipal Water District of Orange County
From: Syrus Devers, Best Best & Krieger
Date: September 16, 2019
Re: Monthly State Political Report

End of Session Report

The first year of the biennial session will have concluded by the time the PAL Committee meets for September. Ordinarily this wrap up of legislative activities happens in October, but this year was a bit unusual in that all but a few bills related to water were dispensed with well before the end of session. The only outstanding bill at the time this report was prepared was SB 1 (Atkins), which BB&K will report on at the hearing, as well as a general overview of the year. Despite the relatively calm end of session for water policy issues, the year in general was a busy one for the water lobbyists. BB&K tracked almost as many water bills as it did during the height of the drought when water conservation was the dominant policy issue in the Capitol. As detailed in this report, the wins outnumbered the losses by a wide margin but the losses were not trivial.

The Losses

AB 756 (C. Garcia): PFAS/PFOS will be regulated in standalone regulations with little to no science supporting the effort. The bill itself was not the real problem so much as what will follow. The bill set notifications levels for PFAS at incredibly low levels. For practical purposes the limit is the same as detection limits, but it is widely assumed that the Maximum Contaminant Levels (MCLs) will soon follow suit and be similarly lacking in scientific support. This was a no-win situation for the water industry because opposing the bill looked like defending contaminated water and public transparency. Arguing that a bill lacks a scientific basis hardly raises an eyebrow in Sacramento. This is not to say the bill wasn't lobbied aggressively. PFAS manufacturers hired big-name firms and did what they could to point out the unintended consequences of not following established procedures for identifying pollutants, but there was never any traction.

WaterFix: No, the WaterFix isn't dead, but for all practical purposes we're starting over...again. One of Governor Newsom's first acts was to undercut the Brown administration's two-tunnel proposal in favor of a smaller single tunnel. That wasn't necessarily the end, but later it was made clear that all new environmental impact reports would be pursued, with a first draft proposed for

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ATTORNEYS AT LAW

some time in 2020. At this time it's unclear what size tunnel Newsom would support, and his top appointees have indicated that they'll be open to including an even wider range of issues going forward—as if it wasn't already complicated enough. A tunnel may be built one day, but it's hard not to view this as a significant setback.

SB 307 (Roth): The Cadiz Project has been in the crosshairs of powerful voices in D.C. for over two decades and the opposition finally caught up to it. This was easily the most lobbied water bill of the year with some of Sacramento's political heavyweights making rare public appearances in committee hearings. Despite these impressive efforts, the State Lands Commission and the Dept. of Fish and Wildlife will now get to explore additional environmental impacts as they see fit.

The Wins

Water Tax: The scope of this win cannot be overstated. Water purveyors faced a coordinated effort by two successive administrations and Assembly leadership to impose a tax on water agencies. The year began with bills in both houses that looked ominous: AB 217 (Garcia), AB 134 (Bloom), and SB 200 (Monning). As is the case more often than is recognized, the win came about from surviving long enough to get lucky; the water industry's opposition held on long enough for larger political forces in the Senate to overtake the issue. In the end, it came down to Senate Pro Tem Atkins not wanting a tax bill on the Senate Floor that would be bad for new members she needed to protect. But what came out of the clash of forces was a surprisingly good solution—a dedicated source of funding and a decent road map for a program to get clean drinking water to California's disadvantaged communities. It wasn't just a win for water agencies—the people of California won this time as well.

WaterFix: Yep, it's both a loss and a win. The project itself may have suffered a setback under the new administration, but that doesn't mean water industry lobbyists weren't on the job. Assembly Member Frazier (AB 1194) and Senator Dodd (SB 204) pursued bills that were indirect attacks on the WaterFix and both got blocked. AB 1194 was batted down in what has become an annual tradition, and SB 204 was amended into an arguably good bill on transparency. A third bill may have been intended to be a hurdle for the WaterFix although it wasn't entirely clear. AB 1580 (Levine) would have imposed additional administrative hurdles on large-scale “publicly funded” projects. Assembly Member Levine is a vocal opponent of the Delta tunnels so it was assumed he meant it to apply to the WaterFix, but the bill was unclear if it applied or not. As a precaution MWD opposed it just in case it did and the bill was held on suspense.

Accessory Dwelling Units: Although this issue wasn't on point for MWDOC, nor brought up by any member agencies, at least a half dozen bills related to the housing crises touched upon water agencies being able to charge fees for new units. Water industry lobbyists quietly worked to make it



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clear that water agencies weren't part of the problem and that they can only charge fees for the cost of the services they provide. In the end, none of the housing bills significantly impinged on water agency's ability to provide service.

SB 134 (Hertzberg): Water loss enforcement. The water conservation bill package from last year had an unresolved issue in that both it and prior legislation established fines for excessive water loss by water providers. It was understood that there would be clean up legislation this year that was supposed to be noncontroversial, but some environmental groups got greedy and lobbied to let the SWRCB choose which scheme it wanted to enforce. This effort was successfully fended off and SB 134 went on to put limits on the Board as to when it can impose fines for water losses.

Several other bills are in the "win" column for water interests that are listed in the Bill Matrix, such as AB 402 (Quirk) and SB 233 (Hertzberg). The only loss that can be fairly laid at the doorstep of the lobbyists in Sacramento is AB 756 on PFAS. But when compared to the wins, 2019 is being scored as a great year for water policy.

Final Note: At the start and end of every session, BB&K encourages you to look over the "Watch" list of bills one more time. MWDOC staff and BB&K work hard to anticipate the interests of the board, and we think we do a pretty good job of it, but we're always looking to improve. If there are bills on the "Watch" list that you think should have been brought to your attention, now would be a great time to point them out so that we can do an even better job next session.

The County of Orange Report

September 10, 2019
by Lewis Consulting Group

Eminent Domain Required for Prado Dam Fix

In what must be a fairly rare occurrence, at the September 10th meeting, the Orange County Flood Control District is condemning and utilizing eminent domain power to acquire property in San Bernardino County. The property is part of the Rancho Santa Ana Del Chino area near Pine & Euclid Avenue.

After recently receiving an appraisal of the property, the County is voting to pay the owners \$9,105,000. The property owners requested 13,500,000 and after negotiations, could not come to terms. The property is needed to accommodate additional water storage behind Prado Dam in case of a major flood event.

Prado Dam is undergoing a major \$880 million expansion program with a goal of providing Orange County security for up to a 190 year flood. The height of the dam has already been raised to over 594 feet, a recent increase of over 28 feet. In 2021, the spillway will be raised by 20 feet, from 543 to 563 feet.



As a result, ultimately the reservoir area will be increased from 6,695 acres to 10,256 acres, increasing capacity from 217,000 acre feet to 362,000 feet. The improvements will also increase the discharge capacity from 9,000 CFS to 30,000 CFS.

Utilizing eminent domain requires four of the five Supervisors to vote in the affirmative.



Update

County Adopts Airport Plan, Issues RFP

After months of anticipation, the newly revised John Wayne general aviation plan was presented to the Board of Supervisors on September 10, 2019.

The plan reflects months of negotiations primarily between airport staff, the Southern California Pilots Association, the City of Newport Beach, the residents of Newport Beach and individual members of the Board of Supervisors.

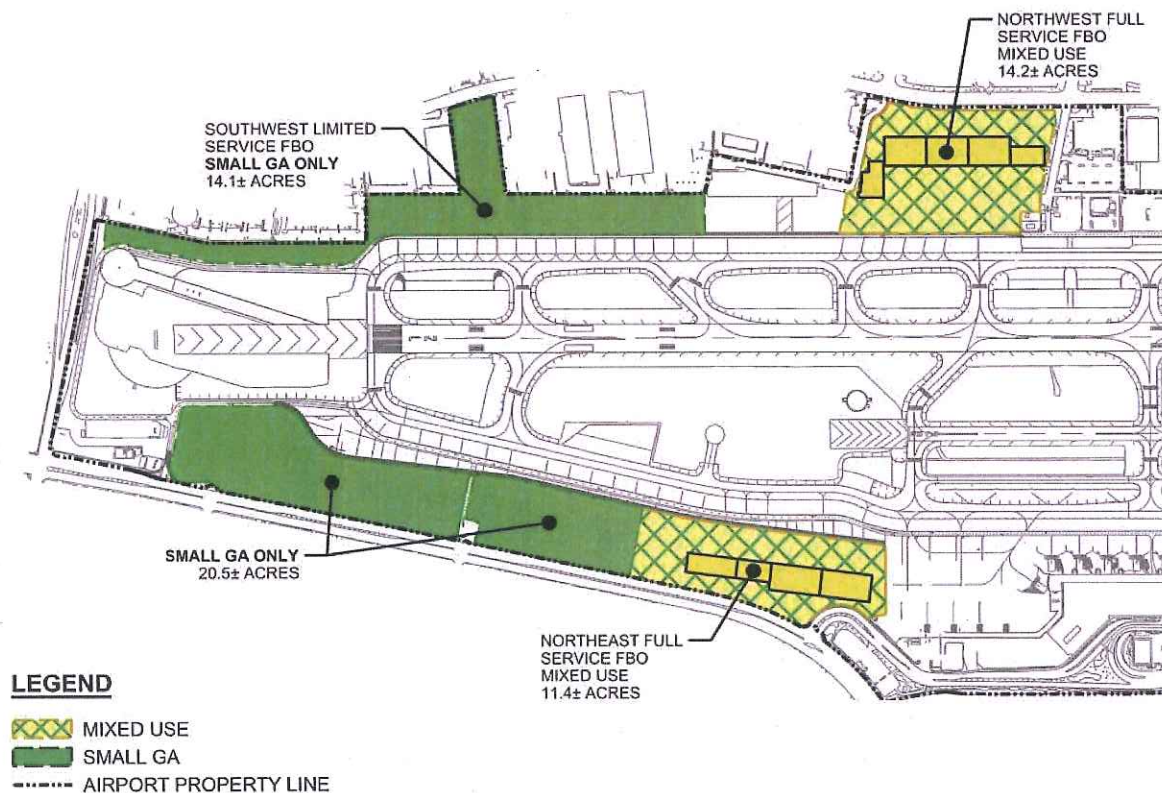
The fundamental clash has been between those who wish to modify the airport and accommodate evolving aircraft needs and those who are impacted by environmental nuisance noise and air quality.

In a concession to Newport Beach, the County will only award three contracts, two for full service FBOs (fixed based operators) and one limited FBO. The distinction is that a limited FBO does not provide fueling service.

The city of Newport Beach however is still not happy with the proposal. They have been seeking amendments to limit larger size airplanes to ensure that smaller planes and not jets are the beneficiary of these changes. After a long and spirited debate on the matter, the Board voted 4-0 to issue the RFP, with Supervisor Wagner not present.

PROPOSED PROJECT

Attachment A



Note: Green area restricted to aircraft with a wingspan of 49 feet or less

On May 22, 2018, after review of potential bidders qualifications, nine companies were allowed to participate in the RFP process.

The nine companies are:

SUBMITTAL	Full-Service FBO	Limited-Service FBO
ACI Jet, dba Aviation Consultants, Inc.	X	N/A
American Aircraft Maintenance, Inc.	N/A	X
Clay Lacy Aviation, Inc.	X	X
Jay's Aircraft Maintenance, Inc.	N/A	X
Jet Aviation of America, Inc.	X	N/A
Newport FBO Two, LLC, dba Atlantic Aviation	X	X
Orange County Airport Aviation Partners, dba Million Air John Wayne	X	N/A
Ross Aviation Holdings, LLC	X	X
Signature Flight Support Corporation	X	N/A

As you can see, seven companies are desirous of bidding on the full-service FBO. Five companies are planning to bid on the limited service FBO. Three companies are planning to bid on both.

The prize:

FBO Parcels	Approximate Parcel Area	Annual Ground Rent	Approximate Building Area	Annual Building Rent	Percentage Rent of Gross Receipts
Northeast Full Service FBO	1,358,299 SF	\$1.77 PSF	270,393 SF	\$8.16 PSF	5%*
Northwest Full Service FBO	635,178 SF	\$1.77 PSF	99,816 SF	\$8.76 PSF	5%*
Southwest Limited Service FBO	558,313 SF	\$1.25 PSF	15,014 SF	\$2.53 PSF	5%*

The airport RFP timetable requires that completed responses are due on December 19, 2019. The Board of Supervisors are anticipated to vote on the winning bidder in April 2020.





The September 11th LAFCO meeting occurred after our print deadline, so any topics of interest will be presented verbally at PAL.

On the agenda this month:

- #3 Oath of office administered to certain members
- #8b Final Comprehensive Quarterly report
- #10a OC LAFCO Reserves & Projections
- #10b Proposed revisions to OC LAFCO policy & procedures
- #10c 2019 CAL LAFCO update

California Democratic Presidential Poll

Real Clear Politics average of three recent polls:

Biden	23%
Harris	21%
Warren	19%
Sanders	17%



It's All Our Fault

A major fault capable of generating a 6.4 shaker on its own and even higher when combined with other nearby faults looms beneath the Port of Los Angeles and the Port of Long Beach.

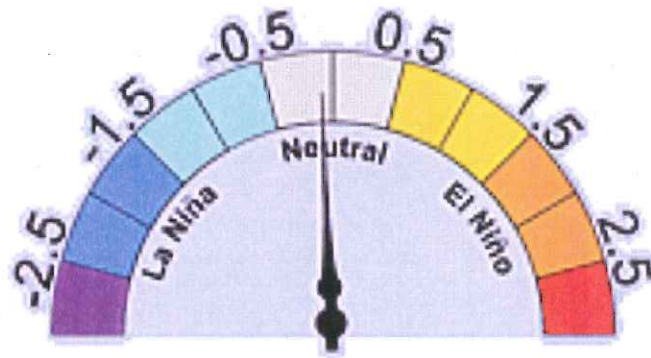
The Wilmington blind-thrust fault was considered dormant until recent researchers discovered it is still active. Previously it was thought to be dead for millions of years. Because blind-thrust faults are completely underground, they are much more difficult to study.

Luckily, the fault is slow moving, estimated at 0.16 millimeters a year. Another blind-thrust fault responsible for the deadly 1994 Northridge earthquake moves about 40 times faster. Researchers estimate the Wilmington fault ruptures every 3,000 to 4,000 years, so our odds of avoiding it are pretty good.

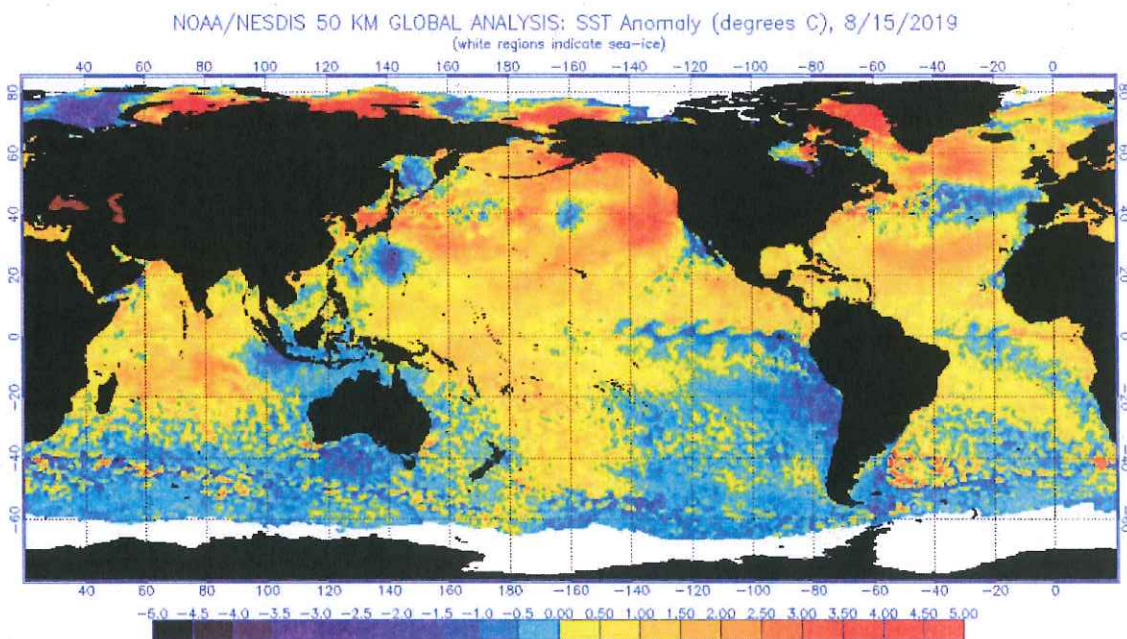
Farewell to El Niño

Our most recent “weak” El Niño has finally abated and slipped into a neutral reading with a slight bias towards La Niña. In addition to its association with dryer weather in California, it also helps promote hurricanes in the Atlantic Ocean.

ENSO METER



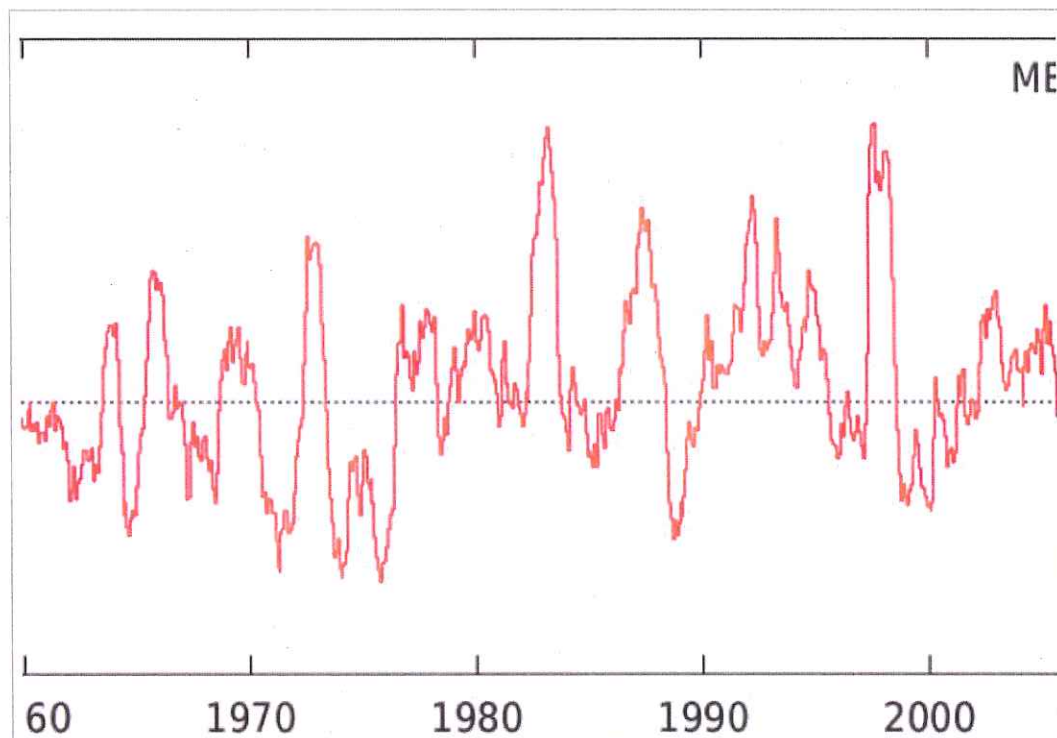
The reason the Pacific is beginning to cool is apparent with plumes of cooler water heading westward from the shores of South America.



UNISYS Current Sea Surface Temperature Anomaly Plot

The following chart shows the El Niño Southern Oscillation chart since 1960.

Multivariate ENSO Index – 1950 to Present



The Royal Netherlands Meteorological Institute (KNMI) – [Click the pic to view at source](#)

PAL Committee

Prepared by Best Best & Krieger LLP, July 9, 2019

A. Priority Support/Oppose

Measure	Author	Topic	Status	Brief Summary	Position	Priority	Notes 1
AB 292	Quirk D	Recycled water: raw water and groundwater augmentation.	7/10/2019-Inactive	Current law requires the State Water Resources Control Board, on or before December 31, 2023, to adopt uniform water recycling criteria for direct potable reuse through raw water augmentation, as specified. Current law defines "direct potable reuse" and "indirect potable reuse for groundwater recharge" for these purposes. This bill would eliminate the definition of "direct potable reuse" and instead would substitute the term "groundwater augmentation" for "indirect potable reuse for groundwater recharge" in these definitions. The bill would revise the definition of "treated drinking water augmentation."	Support	A. Priority Support/ Oppose	It will move next year. More time needed of definitions.
AB 402	Quirk D	State Water Resources Control Board: local primacy delegation: funding stabilization program.	Held on Suspense.	The California Safe Drinking Water Act requires the State Water Resources Control Board to administer provisions relating to the regulation of drinking water to protect public health, including, but not limited to, conducting research, studies, and demonstration programs relating to the provision of a dependable, safe supply of drinking water, enforcing the federal Safe Drinking Water Act, adopting implementing regulations, and conducting studies and investigations to assess the quality of water in private domestic water supplies. This bill would authorize the state board to delegate partial responsibility for the act's administration and enforcement by means of a local primacy delegation agreement. The bill would authorize the state board, for counties that have not been delegated primary responsibility as of January 1, 2020, to offer an opportunity for the county to apply for partial or primary responsibility if the state board	Oppose unless amended	A. Priority Support/ Oppose	

				determines that it needs assistance in performing administrative and enforcement activities, as specified.			
AB 756	Garcia, Cristina D	Public water systems: perfluoroalkyl substances and polyfluoroalkyl substances.	Chaptered	Would authorize the State Water Resources Control Board to order a public water system to monitor for perfluoroalkyl substances and polyfluoroalkyl substances. The bill would require a community water system or a nontransient noncommunity water system, upon a detection of these substances, to report that detection, as specified. The bill would require a community water system or a nontransient noncommunity water system where a detected level of these substances exceeds the response level to take a water source where the detected levels exceed the response level out of use or provide a prescribed public notification.	Watch	A. Priority Support/ Oppose	
ACA 3	Mathis R	Clean Water for All Act.	Not moving	This measure, the Clean Water for All Act, would additionally require, commencing with the 2021–22 fiscal year, not less than 2% of specified state revenues to be set apart for the payment of principal and interest on bonds authorized pursuant to the Water Quality, Supply, and Infrastructure Improvement Act of 2014; water supply, delivery, and quality projects administered by the department, and water quality projects administered by the state board, as provided.		A. Priority Support/ Oppose	
SB 134	Hertzberg D	Water conservation: water losses: enforcement.	Chaptered	Current law requires the State Water Resources Control Board, no earlier than January 1, 2019, and no later than July 1, 2020, to adopt rules requiring urban retail water suppliers to meet performance standards for the volume of water losses. This bill would prohibit the board from issuing an information order, written notice, or conservation order to an urban retail water supplier that does not meet its urban water use objective if the board determines the urban retail water supplier is not meeting its urban water use objective solely because the volume of water loss exceeds the urban retail water supplier's standard for water loss and the board is taking enforcement action against the urban retail water supplier for not	Support	A. Priority Support/ Oppose	

				meeting the performance standards for the volume of water losses.			
SB 200	Monning D	Drinking water.	Chaptered	Would establish the Safe and Affordable Drinking Water Fund in the State Treasury to help water systems provide an adequate and affordable supply of safe drinking water in both the near and the long terms. The bill would authorize the State Water Resources Control Board to provide for the deposit into the fund of certain moneys and would continuously appropriate the moneys in the fund to the state board for grants, loans, contracts, or services to assist eligible recipients.	Watch	A. Priority Support/ Oppose	
SB 204	Dodd D	State Water Project: contracts.	Held in policy committee	Would require the Department of Water Resources to provide at least 10 days' notice to the Joint Legislative Budget Committee and relevant policy and fiscal committees of the Legislature before holding public sessions to negotiate any potential amendment of a long-term water supply contract that is of projectwide significance with substantially similar terms intended to be offered to all contractors. The bill would require the department, before the execution of a specified proposed amendment to a long-term water supply contract and at least 60 days before final approval of such an amendment, to submit to the Joint Legislative Budget Committee and relevant policy and fiscal committees of the Legislature certain information regarding the terms and conditions of a proposed amendment of a long-term water supply contract and to submit a copy of the long-term contract as it is proposed to be amended.	Watch	A. Priority Support/ Oppose	Amended to remove mandatory hearings
SB 205	Hertzberg D	Business licenses: stormwater discharge compliance.	Concurrence in Assembly amendments.	Would require, when applying to a city or a county for an initial business license or business license renewal, a person who conducts a business operation that is a regulated industry to demonstrate enrollment with the NPDES permit program by providing specified information, under penalty of perjury, on the application, including, among other things, the Standard Industrial Classification Code for the business. The bill would apply to all applications for initial	Watch	A. Priority Support/ Oppose	

				business licenses and business license renewals submitted on and after January 1, 2020.			
SB 307	Roth D	Water conveyance: use of facility with unused capacity.	Chaptered	Current law prohibits the state or a regional or local public agency from denying a bona fide transferor of water from using a water conveyance facility that has unused capacity for the period of time for which that capacity is available, if fair compensation is paid for that use and other requirements are met. This bill would, notwithstanding that provision, prohibit a transferor of water from using a water conveyance facility that has unused capacity to transfer water from a groundwater basin underlying desert lands, as defined, that is in the vicinity of specified federal lands or state lands to outside of the groundwater basin unless the State Lands Commission, in consultation with the Department of Fish and Wildlife and the Department of Water Resources, finds that the transfer of the water will not adversely affect the natural or cultural resources of those federal or state lands, as provided.	Opposition	A. Priority Support/ Oppose	
SB 414	Caballero D	Small System Water Authority Act of 2019.	Held on Suspense.	Would create the Small System Water Authority Act of 2019 and state legislative findings and declarations relating to authorizing the creation of small system water authorities that will have powers to absorb, improve, and competently operate noncompliant public water systems. The bill, no later than March 1, 2020, would require the state board to provide written notice to cure to all public agencies, private water companies, or mutual water companies that operate a public water system that has either less than 3,000 service connections or that serves less than 10,000 people, and are not in compliance, for the period from July 1, 2018, through December 31, 2019, with one or more state or federal primary drinking water standard maximum contaminant levels, as specified.	Support	A. Priority Support/ Oppose	

B. Watch

Measure	Author	Topic	Status	Brief Summary	Position	Priority	Notes 1
AB 405	Rubio, Blanca D	Sales and use taxes: exemption: water treatment.	5/16/2019-Joint Rule 62(a), file notice suspended. In committee: Held under submission.	Would, on and after January 1, 2020, and before January 1, 2025, exempt from that Sales and Use Tax the gross receipts from the sale in this state of, and the storage, use, or other consumption in this state of, chemicals used by a city, county, public utility, and sanitation district to treat water, recycled water, or wastewater regardless of whether those chemicals or other agents become a component part thereof and regardless of whether the treatment takes place before or after the delivery to consumers.	Watch	B. Watch	
AB 441	Eggman D	Water: underground storage.	5/17/2019-Failed Deadline pursuant to Rule 61(a)(5). (Last location was APPR. SUSPENSE FILE on 4/24/2019)(May be acted upon Jan 2020)	Under current law, the right to water or to the use of water is limited to that amount of water that may be reasonably required for the beneficial use to be served. Current law provides for the reversion of water rights to which a person is entitled when the person fails to beneficially use the water for a period of 5 years. Current law declares that the storing of water underground, and related diversions for that purpose, constitute a beneficial use of water if the stored water is thereafter applied to the beneficial purposes for which the appropriation for storage was made. This bill would instead provide that any diversion of water to underground storage constitutes a diversion of water for beneficial use for which an appropriation may be made if the diverted water is put to beneficial use, as specified.	Watch	B. Watch	
AB 591	Garcia, Cristina D	Central Basin Municipal Water District: board of directors.	7/8/2019-Senate amendments concurred in. To Engrossing and Enrolling.	The Municipal Water District Law of 1911 provides for the formation of municipal water districts and grants to those districts specified powers. Current law permits a district to acquire, control, distribute, store, spread, sink, treat, purify, recycle, recapture, and salvage any water for the beneficial use of the district, its inhabitants, or the owners of rights to water in the district. Current law requires the board of directors of the Central Basin Municipal Water District to be composed of 8 directors until the directors elected at the November 8, 2022, election take office, when the	Watch	B. Watch	

				board would be composed of 7 directors, as prescribed. Current law requires the 3 directors appointed by the water purveyors, as specified, to live or work within the district and requires the term of an appointed director to be terminated if the appointed director no longer is employed by or a representative of the appointing entity. This bill would define representative for these purposes to be a consultant to or contractor of an entity, or a governing board member of a mutual water company.			
AB 636	Gray D	State Water Resources Control Board: water quality objectives.	4/26/2019-Failed Deadline pursuant to Rule 61(a)(2). (Last location was E.S. & T.M. on 3/14/2019)(May be acted upon Jan 2020)	Would prohibit the State Water Resources Control Board from implementing water quality objectives for which the state board makes a certain finding relating to environmental quality until it has submitted the water quality objectives and a statement of that finding to the appropriate policy committees of the Legislature and each committee has held a hearing on these matters.	Watch	B. Watch	
AB 637	Gray D	State Water Resources Control Board: disadvantaged communities: drinking water.	5/17/2019-Failed Deadline pursuant to Rule 61(a)(5). (Last location was APPR. SUSPENSE FILE on 5/1/2019)(May be acted upon Jan 2020)	Would require the State Water Resources Control Board, before taking an action that significantly impacts drinking water, to use existing information to identify impacted disadvantaged communities and to seek to reduce impacts to those communities to the greatest extent practicable. The bill would also require the board to ensure that disadvantaged communities are provided an opportunity to participate in the public process for a decision that significantly impacts drinking water by holding a public hearing in or near an impacted community.	Watch	B. Watch	
AB 638	Gray D	Department of Water Resources: water storage: climate change impacts.	Enrolled to Governor.	Would require the Department of Water Resources, on or before December 31, 2023, with updates every 5 years thereafter, to identify water storage facilities vulnerable to climate change impacts and the mitigation strategies for anticipated adverse impacts, as provided. The bill would require the department to publish this information on the department's publicly available internet website and to provide a copy of the information to the appropriate policy committees of the Legislature. The bill would	Watch	B. Watch	

				require the department, subject to an appropriation, to mitigate, or make grants available for the mitigation of, adverse impacts to water storage facilities caused by climate change, as specified.			
AB 658	Arambula D	Water rights: water management.	Senate Floor	Would authorize a groundwater sustainability agency or local agency to apply for, and the State Water Resources Control Board to issue, a conditional temporary permit for diversion of surface water to underground storage for beneficial use that advances the sustainability goal of a groundwater basin, as specified.	Watch	B. Watch	
AB 841	Ting D	Drinking water: contaminants: perfluoroalkyl and polyfluoroalkyl substances.	6/19/2019-In committee: Hearing postponed by committee.	Would require the Office of Environmental Health Hazard Assessment to adopt and complete a work plan within prescribed timeframes to assess which substances in the class of perfluoroalkyl and polyfluoroalkyl substances should be identified as a potential risk to human health, as provided. The bill would require the office, as part of those assessments, to determine which of the substances are appropriate candidates for notification levels to be adopted by the state board. The bill would require the Office of Environmental Health Hazard Assessment, by January 1, 2022, to provide to the Legislature an update on the assessment.	Watch	B. Watch	Not moving.
AB 955	Gipson D	Water replenishment districts: water system needs assessment program.	Held on Suspense	Would require a water replenishment district to offer to conduct a needs assessment program for water systems serving disadvantaged communities within the district, as specified. The bill would make a water system's participation in the program voluntary. The bill would require the district, upon completion of the needs assessment, to develop and evaluate options to address the findings and recommendations in the needs assessment and prepare an implementation plan for recommendation to the water system.	Watch	B. Watch	
AB 1204	Rubio, Blanca D	Public water systems: primary drinking water standards: implementation date.	4/26/2019-Failed Deadline pursuant to Rule 61(a)(2). (Last location was E.S. & T.M. on 3/11/2019)(May be acted upon Jan 2020)	Would require the adoption or amendment of a primary drinking water standard for a contaminant in drinking water not regulated by a federal primary drinking water standard or that is more stringent than a federal primary drinking water standard to take effect 3 years after the date on which the state board adopts or amends the	Watch	B. Watch	

				primary drinking water standard. The bill would authorize the state board to delay the effective date of the primary drinking water standard adoption or amendment by no more than 2 additional years as necessary for capital improvements to comply with a maximum contaminant level or treatment technique.			
AB 1220	Garcia, Cristina D	Metropolitan water districts.	7/5/2019-Enrolled and presented to the Governor	Under the Metropolitan Water District Act, the board of a metropolitan water district is required to consist of at least one representative from each member public agency, as prescribed. The act authorizes each member public agency to appoint additional representatives not exceeding one additional representative for each 5% of the assessed valuation of property taxable for district purposes within the entire district that is within the boundaries of that member public agency. This bill would prohibit a member public agency from having fewer than the number of representatives it had as of January 1, 2019.	Out for Analysis	B. Watch	
AB 1414	Friedman D	Urban retail water suppliers: reporting.	Chaptered	Would require each urban retail water supplier to submit a completed and validated water loss audit report as prescribed by the Department of Water Resources on or before October 1 of each year until October 1, 2023, if reporting on a calendar year basis and on or before January 1 of each year until January 1, 2024, if reporting on a fiscal year basis. The bill would require on or before January 1, 2024, and on or before January 1 of each year thereafter, each urban retail water supplier to submit a completed and validated water loss audit report for the previous calendar year or previous fiscal year as part of an existing report relating to its urban water use.	Watch	B. Watch	
AB 1588	Gloria D	Drinking water and wastewater operator certification programs.	Enrolled to the Governor	Current law requires the State Water Resources Control Board to issue a water treatment operator certificate and water distribution operator certificate by reciprocity to any person holding a valid, unexpired, comparable certification issued by another state, the United States, prescribed territories or tribal governments, or a unit of any of these. Current law requires the board to classify types of wastewater treatment	Watch	B. Watch	

				plants for the purpose of determining the levels of competence necessary to operate them. This bill would require the board to evaluate opportunities to issue a water treatment operator certificate or water distribution operator certificate by reciprocity, or a wastewater certificate by examination waiver, to persons who performed duties comparable to those duties while serving in the United States military, as specified.			
SB 1	Atkins D	California Environmental, Public Health, and Workers Defense Act of 2019.	Assembly Floor	Current state law regulates the discharge of air pollutants into the atmosphere. The Porter-Cologne Water Quality Control Act regulates the discharge of pollutants into the waters of the state. The California Safe Drinking Water Act establishes standards for drinking water and regulates drinking water systems. The California Endangered Species Act requires the Fish and Game Commission to establish a list of endangered species and a list of threatened species, and generally prohibits the taking of those species. This bill would require specified agencies to take prescribed actions regarding certain federal requirements and standards pertaining to air, water, and protected species, as specified.	Watch	B. Watch	
SB 19	Dodd D	Water resources: stream gages.	Enrolled to the Governor	Would require the Department of Water Resources and the State Water Resources Control Board, upon an appropriation of funds by the Legislature, to develop a plan to deploy a network of stream gages that includes a determination of funding needs and opportunities for modernizing and reactivating existing gages and deploying new gages, as specified. The bill would require the department and the board, in consultation with the Department of Fish and Wildlife, the Department of Conservation, the Central Valley Flood Protection Board, interested stakeholders, and, to the extent they wish to consult, local agencies, to develop the plan to address significant gaps in information necessary for water management and the conservation of freshwater species.	Out for Analysis	B. Watch	
SB 45	Allen D	Wildfire,	Sen.	Would enact the Wildfire,	Watch	B. Watch	Not moving,

		Drought, and Flood Protection Bond Act of 2020.	Appropriations.	Drought, and Flood Protection Bond Act of 2020, which, if approved by the voters, would authorize the issuance of bonds in the amount of \$4,300,000,000 pursuant to the State General Obligation Bond Law to finance projects to restore fire damaged areas, reduce wildfire risk, create healthy forest and watersheds, reduce climate impacts on urban areas and vulnerable populations, protect water supply and water quality, protect rivers, lakes, and streams, reduce flood risk, protect fish and wildlife from climate impacts, improve climate resilience of agricultural lands, and protect coastal lands and resources.			but not dead since it's a bond act.
Total Measures: 26 Total Tracking Forms: 26							

**Metropolitan Water District of Southern California
State Legislative Matrix
September 5, 2019**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
AB 292 Quirk (D) Sponsor: WaterReuse California	Amended 6/20/2019 2-Year Bill	Recycled water: raw water and groundwater augmentation. Would modernize definitions from AB 574 (Quirk, 2017), which Metropolitan supported. Seeks to further clarify terminology related to recycled water that more accurately reflects current uses and practices.	SUPPORT Based upon Board-adopted 2019 State Legislative Priorities and Principles	Providing outreach and education on process and benefits of recycled water is essential as California encourages increased development of recycled water supplies. AB 292 will help reduce confusion as water agencies work to increase public's comfort level with use of recycled water.
AB 296 Cooley (D) Sponsor: Author	Amended 8/30/2019 Senate Floor	Climate Innovation Grant Program: voluntary tax contributions. Establishes the Climate Innovation Fund to provide grants for the development of new technologies that reduce greenhouse gas emissions or address climate change. This measure also authorizes voluntary tax contributions as a revenue source to support the Climate Innovation Fund.	SUPPORT Based upon Board action on 7/9/2019	The Metropolitan Board has formally adopted policies supporting research related to the effects of climate change on water supply and water quality. This measure provides funding to develop science-based climate adaptation technologies, inclusive of improving agricultural practices.
AB 409 Limón (D) Sponsor: California Climate and Agriculture Network	Amended 8/12/2019 2-Year Bill	Climate Change: Agricultural Climate Adaptation Tools Program. Establishes a pilot program in the Central Valley, Central Coast and desert regions of the state where grant funding is available for the purposes of developing planning tools for adapting to climate change within the agricultural sector.	SUPPORT Based upon Board action on 7/9/2019	The Metropolitan Board has formally adopted policies supporting research related to the effects of climate change on water supply and water quality. This measure provides funding and guidance to support resilient agricultural practices.
AB 441 Eggman (D) Sponsor: Author	Amended 3/27/2019 2-Year Bill	Water: underground storage. Provides that certain uses of stored water while underground will constitute a beneficial use.	OPPOSE Based upon past opposition to AB 647 (Eggman) from 2015/16 and AB 1427 (Eggman) from 2017/18	Fails to provide sufficient safeguards to ensure that permanent underground storage is implemented in a reasonable manner. Unchecked, diversion of water for underground storage, whether new or existing appropriation, may adversely impact other beneficial uses of water for fish and wildlife, recreation, commerce, or use by downstream diverter.

Metropolitan Water District of Southern California
State Legislative Matrix
September 5, 2019

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
AB 533 Holden (D) Sponsors: CA Water Efficiency Partnership, WaterNow Alliance, and Metropolitan	Amended 4/4/2019 2-Year Bill	Income taxes: exclusion: water conservation or efficiency programs: turf removal water conservation program. Would exclude from gross income, under both personal and corporate income tax laws, amounts received as rebate, voucher, or other financial incentive issued by local water agency for participation in a turf removal water conservation program.	CO-SPONSOR Based upon Board-adopted 2019 State Legislative Priorities and Principles	Water providers need broad array of tools to increase participation in water use efficiency programs to further achieve water use savings. Utility-sponsored financial incentives are effective measures, and their appeal increases if rebates are excluded from taxable income.
AB 654 B. Rubio (D) Sponsors: California Municipal Utilities Association (CMUA) and California Special Districts Association (CSDA)	Introduced 2/15/2019 2-Year Bill	Public records: utility customers: disclosure of personal information. Authorizes local agency to voluntarily release customer information to another governmental agency for scientific, research, or educational purposes, and if receiving agency agrees to maintain information as confidential.	SUPPORT Based upon Board-adopted 2019 State Legislative Priorities and Principles	Data sharing is state policy objective, with intent to improve decision making. Measure will facilitate voluntary exchange of customer data information for prescribed uses to further improve customer programs and projects, while providing protections to ensure information remains confidential.
AB 658 Arambula (D) Sponsor: Author	Amended 7/11/2019 Senate Floor	Water Rights: Water Management. Will facilitate groundwater storage during high flow times through an expedited temporary permit.	SUPPORT Based upon Board action on 4/9/19	Under the Water Code, surface water can be stored underground if it is subsequently removed for a beneficial use. AB 658 would create a temporary permit to store groundwater during high flow times. Metropolitan amendments incorporated to ensure protection for existing water right holders, other beneficial uses, and the ability to meet water quality objectives.

Metropolitan Water District of Southern California
State Legislative Matrix
September 5, 2019

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
AB 756 C. Garcia (D) Sponsor: Author	Amended 6/24/2019 CHAPTERED	Public water systems: perfluoroalkyl substances and polyfluoroalkyl substances. Authorizes the State Water Resources Control Board to order a public water system to monitor for perfluoroalkyl substances and polyfluoroalkyl substances (PFAS) and report detection. If the detection level exceeds the response level, requires the public water system to take the water supply out of use or follow prescribed public notification requirements.	OPPOSE Based upon Board-adopted 2019 State Legislative Priorities and Principles	Under the Health and Safety Code, the State Water Resources Control Board follows a procedure to notify customers in case of a response level exceedance for all contaminants based on the nature of the exceedance and the urgency. AB 756 circumvents the current regulatory process and creates separate notification requirements specific to PFAS via mail, email, internet, and other additional postings that will confuse consumers about the quality of their drinking water.
AB 1180 Friedman (D) Sponsor: WaterReuse	Amended 6/18/2019 Senate Floor	Water: recycled water. Requires the State Water Resources Control Board (SWRCB) to update the uniform statewide criteria for nonpotable recycled water uses by January 2023. Also, would update a policy handbook to allow the use of swivel or changeover devices to supply potable water to a dual-plumbed system during an interruption in recycled water service by January 2020.	SUPPORT Based upon Board-adopted 2019 State Legislative Priorities and Principles	As California continues to incentivize and increase the use and access to recycled water supplies, proper regulations and guidance documents are necessary to ensure both public health protections and efficient cost-effective means to establish dual-plumbed facilities.
AB 1194 Frazier (D) Sponsor: Delta Counties Caucus	Introduced 2/21/2019 2-Year Bill	Sacramento-San Joaquin Delta: Delta Stewardship Council. Will increase membership of Delta Stewardship Council from seven members to 13 members, with all six proposed new members to represent in-Delta interests.	OPPOSE Based upon past opposition to AB 1876 (Frazier) from 2017/18	Fails to recognize the importance of statewide approach to advancing progress in Sacramento-San Joaquin Delta as encompassed in comprehensive package of reforms embedded in Delta Reform Act of 2009.

Metropolitan Water District of Southern California
State Legislative Matrix
September 5, 2019

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
AB 1204 B. Rubio (D) Sponsor: Association of California Water Agencies (ACWA) and California Water Association (CWA)	Introduced 2/21/2019 2-Year Bill	Public water systems: primary drinking water standards: implementation date. Requires State Water Resources Control Board (SWRCB) to allow water providers time to complete work required to comply with new Maximum Contaminant Levels (MCLs) without being found in violation. Proposes that any drinking water standards adopted or amended by SWRCB will only be effective three years after initial date of adoption. Also, grants SWRCB authority to allow up to two additional years to comply if capital improvements are needed.	SUPPORT Based upon Board-adopted 2019 State Legislative Priorities and Principles	Positive impact to Metropolitan and its member agencies as it would establish fair and reasonable compliance period similar to that of U.S. Environmental Protection Agency.
AB 1220 C. Garcia (D) Sponsor: Central Basin Municipal Water District	Amended 7/10/2019 CHAPTERED	Metropolitan Water Districts. Amends Metropolitan Water District Act to set a floor where number of representatives would not drop below current level.	SUPPORT Based upon Board action on 3/12/19	Addresses potential loss of representation in densely-populated communities with slower relative increases in assessed property values.
AB 1580 Levine (D) Sponsor: Author	Amended 7/1/2019 2-Year bill	Major infrastructure construction projects: oversight committees. Requires a state agency undertaking a publicly-funded infrastructure project of \$1 billion or more to form an oversight committee and develop a risk management plan to minimize cost overruns.	OPPOSE Based upon Board-adopted 2019 State Legislative Priorities and Principles	To the extent the bill is aimed at proposed Delta conveyance, it is duplicative of the Delta Conveyance Design and Construction Authority (DCA). At the direction of the Department of Water Resources, the DCA is tasked to provide oversight and risk management in order to protect the ratepayers who will pay for and benefit from the project.

Metropolitan Water District of Southern California
State Legislative Matrix
September 5, 2019

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
AB 1588 Gloria (D) Sponsors: San Diego County Water Authority and Otay Water District	Amended 8/20/2019 Assembly Concurrence	Drinking water and wastewater operator certification programs. This measure authorizes the State Water Resources Control Board to evaluate opportunities for providing certificate by reciprocity or certificate by examination waiver for properly qualified and experienced applicants with applicable military experience.	SUPPORT Based upon Board-adopted 2019 State Legislative Priorities and Principles	Would increase the number of certified water and wastewater operators by providing opportunities for qualified veterans. This measure is consistent with Metropolitan's own activities and support for the professional transition of individuals with applicable military experience into California's water workforce.
AB 1752 Petrie-Norris (D) Brough (R) Sponsor: South Coast Water District	Amended 8/12/2019 Assembly Local Government Committee	South Coast Water District. Authorizes the South Coast Water District to contract for the Doheny Ocean Desalination Project as specified, and will facilitate the use of Proposition 1 funding approved for the project. The authorization is in existence until January 1, 2025.	SUPPORT Based upon Board-adopted 2019 State Legislative Priorities and Principles	Metropolitan is committed to diversifying its water portfolio through an Integrated Water Resources Plan that emphasizes conservation and development of local supplies. This bill would help advance a local water supply project.
AJR 8 Quirk (D) Sponsor: Author	Amended 6/4/2019 CHAPTERED	Invasive species: Federal Nutria Eradication and Control Act of 2003. Requests that U.S. Congress add California to Nutria and Eradication and Control Act of 2003, and appropriate \$4 million for nutria eradication in California.	SUPPORT Based upon Board-adopted 2019 State Legislative Priorities and Principles	Invasive species create significant, long-term burdens that require significant investments to either control and/or eradicate. Presence of nutria within Delta represents significant threat to water supply and quality, and levee stabilization.
SB 1 Atkins (D) Sponsor: Author	Amended 9/3/2019 Assembly Floor	California Environmental, Public Health, and Workers Defense Act of 2019. Would prevent weakening of California environmental and worker safety standards that may result from weakening federal law during the tenure of the Trump Administration.	OPPOSE UNLESS AMENDED Based upon Board action on 6/11/19	Could have unnecessary and unintended consequences on State Water Project operations by locking in federal standards based on old science that was in place before January 2017. Limits opportunities for public input on decisions to lock in federal standards.

**Metropolitan Water District of Southern California
State Legislative Matrix
September 5, 2019**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
SB 19 Dodd (D) Sponsor: The Nature Conservancy	Amended 6/11/2019 Assembly Floor	Water resources: stream gages. Requires Department of Water Resources and SWRCB to develop plan to implement network of stream gages that includes determination of funding and opportunities to modernize existing network of gages, in consultation with other stakeholders.	SUPPORT Based upon past support for SB 919 (Dodd) from 2017/18	Currently no comprehensive or authoritative database on gage locations exists, and ability to link measurements to water quantity and water quality is essential for sound, informed water management decisions statewide. Metropolitan supported the Open and Transparent Water Data Act (AB 1755 Dodd, 2016), and improving gage data is consistent with purpose of Act.
SB 45 Allen (D) Sponsor: Author	Amended 8/30/2019 Senate Appropriations Committee	Wildfire, Drought, and Flood Protection Bond Act of 2020. Would place a wildfire and water bond totaling \$3.99 billion on the 2020 ballot for voter approval.	SUPPORT AND AMEND Based upon Board action on 6/11/19	Would create statewide funding to restore areas damaged by wildfires, mitigate future wildfires, create healthy forests and watersheds, protect water supplies and water quality, and protect and restore rivers, streams and lakes. Seeking amendments to ensure adequate funding for safe drinking water, restoration projects that would benefit Voluntary Agreements for managing the Bay – Delta and the tributaries, and recycled water projects.
SB 62 Dodd (D) Sponsor: California Farm Bureau Federation	Amended 4/3/2019 CHAPTERED	Endangered species: accidental take associated with routine and ongoing agricultural activities: state safe harbor agreements. Extends exemption from California Endangered Species Act (CESA) for accidental take of endangered species resulting from agricultural and ranching activities.	SUPPORT Based upon Board action on 3/12/19	Under CESA, farmers and ranchers are granted exemption from incidental take for accidentally taking or harming state-listed species during routine agricultural activities. Metropolitan's amendments incorporated to set a sunset date, require reporting, and clarify exemption applies to farmers and ranchers not public agencies.

**Metropolitan Water District of Southern California
State Legislative Matrix
September 5, 2019**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
SB 69 Wiener (D) Sponsors: California Coastkeeper Alliance and Pacific Coast Federation of Fishermen's Associations	Amended 7/11/2019 2-year bill	Ocean Resiliency Act of 2019. Seeks to bolster the resilience of the state's marine and coastal environments to climate change and improve conditions for salmon and other commercially valuable species.	WATCH Based upon Board-adopted 2019 State Legislative Priorities and Principles	Would replace existing forestry, fishery and water quality regulatory processes with entirely different approaches in the hope of improving conditions for fish upstream of the Delta and in the ocean along the California coast.
SB 200 Monning (D) E. Garcia (D) Bloom (D) Sponsor: Authors	Amended 6/27/2019 CHAPTERED	Drinking Water. Create the Safe and Affordable Drinking Water Fund and continuously appropriate \$130 million each year from the Greenhouse Gas Reduction Fund until 2030. Requires the State Water Resources Control Board (SWRCB) to develop a fund expenditure plan to identify failing water systems and provide assistance to those systems.	SUPPORT Based upon Board-adopted 2019 State Legislative Priorities and Policies and Support for SB 669 (Caballero) 2019	SB 200 would create a fund to help water systems in disadvantaged communities provide an adequate and affordable supply of safe drinking water in the near- and long- term. The funds can be used to support operations and maintenance, consolidation, replacement water, design and implementation of safe drinking water projects and SWRCB administrative costs.
SB 204 Dodd (D) Sponsor: Delta Counties Caucus	Amended 5/17/2019 2-Year Bill	State Water Project: contracts. Revises the notification requirements for pending State Water Project (SWP) contract negotiations and contract amendments. Additionally, requires the California Water Commission to review and report on the progress of the design, construction, and operation of any new Delta conveyance facility as a part of its annual review of the SWP.	WATCH Based upon Board-adopted 2019 State Legislative Priorities and Policies	Amendments adhere to the author's stated purpose and delete objectionable provisions related to the Delta Conveyance joint powers authorities. Bill provides for further transparency on any future amendments to State Water Project contracts as described in Water Code Section 147.6 (c) and construction of future Delta conveyance improvements.

**Metropolitan Water District of Southern California
State Legislative Matrix
September 5, 2019**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
SB 414 Caballero (D) Sponsor: Eastern Municipal Water District and California Municipal Utilities Association (CMUA)	Amended 6/25/2019 2-Year Bill	Small System Water Authority Act of 2019. Authorizes State Water Resources Control Board (SWRCB) to merge small, non-noncompliant public water systems into regional water authority that will directly benefit from increased economies of scale and access to public financing.	SUPPORT Based upon past support for AB 2050 (Caballero) from 2017/18	As introduced, SB 414 sets deadline for small water systems to comply with safe drinking water standards or consolidate into regional authority managed by SWRCB-appointed contractor until water system achieves self-sufficiency, complies with drinking water standards, and can reliably provide access to safe drinking water.
SB 559 Hurtado (D) Sponsor: Friant Water Authority	Amended 7/3/2019 2-Year Bill	Department of Water Resources: grant: Friant-Kern Canal. Seeks to address problems of land subsidence on the federally-owned Friant Kern Canal.	SUPPORT IF AMENDED Based upon Board-adopted 2019 State Legislative Priorities and Principles	Addresses land subsidence in the Central Valley but only focuses on impacts to the Friant Kern Canal. Metropolitan seeking amendments to include the need to address subsidence problems on the California Aqueduct to ensure a reliable water supply for southern California as well.
SB 669 Caballero (D) Sponsor: Association of California Water Agencies (ACWA) and California Municipal Utilities Association (CMUA)	Introduced 2/22/2019 2-Year Bill	Water Quality: Safe Drinking Water Fund. Establishes irrevocable Safe Drinking Water Trust as a perpetual source of funding to assist chronically noncompliant community water systems in disadvantaged communities gain access to safe drinking water.	SUPPORT Based upon Board action 3/12/2019	Would create Water Trust funded by general fund appropriation during surplus years. Earnings from Trust would be continuously appropriated to Safe Drinking Water Fund administered by State Water Resources Control Board to assist chronically noncompliant community water systems in disadvantaged communities achieve self-sufficiency.

**Metropolitan Water District of Southern California
State Legislative Matrix
September 5, 2019**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
SB 785 Senate Natural Resources and Water Committee Sponsor: Committee	Amended 9/3/2019 Assembly Floor	Public resources: parklands, freshwater resources, and coastal resources. Committee omnibus bill to extend current sunset date for requirement and enforcement of quagga control plans, and qualified liability coverage for agencies that are compliant with approved control plan.	SUPPORT Based upon Board adopted 2019 State Legislative Priorities and Principles	Would extend current sunset date from January 1, 2020, to January 1, 2030, for requiring quagga mussel control plans and ensuring extension of qualified immunity for operators of water delivery and storage facilities.

ETWD Public Education and Outreach Report

September 26, 2019

The following provides an update on the education and outreach ETWD is developing or has completed.

Drought Log

Customer Service continues to update the drought response log. This includes phone calls, walk-ins and emails regarding water waste complaints and ETWD's permanent mandatory conservation measure inquiries. There were two water waste complaints for the month of August for excessive irrigation and runoff.

Messaging/Materials

The September/October bill message: "Fall brings shorter days and cooler nights. Landscapes require less water. Reminder to check your irrigation system and reduce your outdoor watering. Visit <http://www.bewaterwise.com/calculator.html> to create a customized watering guide."

Laguna Woods Village Television Channel 6

Director Kathryn Freshley will present on LWV TV-6 September 27, 2019.

Community Event Schedule:

September 28, 2019 – UC ANR Urban Living Education Expo

ETWD staff will host a booth and distribute water with the ETWD water trailer at the UC ANR Urban Living Education Expo at the UC ANR South Coast Research and Extension Center at 7601 Irvine Blvd. in Irvine from 9:00 a.m. to 2:00 p.m. Event promotes better gardening practices to reduce landscape water use and improve the water quality within our local watersheds.

October 19, 2019 – South County Disaster Expo

ETWD staff will host a booth and distribute water with the ETWD water trailer at the 11th Annual South County Disaster Preparedness Expo on October 19, 2019 from 9:00 am to 12:00 pm at the Village Green at the Norman Murray Community and Senior Center, 24932 Veterans Way in Mission Viejo.

October 29, 2019 – H2O for HOAs

ETWD is partnering with local cities and water agencies again this year to put on the H2O for HOAs educational and networking event for HOA board members, property managers

and professional landscapers. The event will be held at the Laguna Hills Community Center, 25555 Alicia Pkwy, Laguna Hills, CA 92653 from 8:00 am to 11:30 am. Topics this year include protecting your watershed, water efficiency resources and rebates, landscape design for HOAs, irrigation maintenance for large landscapes and HOA assistance case studies.

January 11, 2020 – Girl Scout Water Resources and Conservation Patch Program

ETWD will host the MWDOC and Girl Scouts of Orange County Girl Scout Water Resources and Conservation Patch Program at the ETWD Water Recycling Plant on Saturday, January 11, 2020 from 9:00 am – 11:00 am.

**EL TORO WATER DISTRICT
CONSERVATION PROGRAM
Monthly
Status Report
September 26, 2019**

REBATE PROGRAMS

The following tables are the current device rebate amounts for MET, MWDOC and ETWD for the fiscal year 2019/20 from July 1st through June 30th.

Select device purchases are eligible for rebates while devices meet eligibility requirements and while funding lasts. The rebate process is completed online through www.ocwatersmart.com. Customers without computer access can call 888-376-3314 to apply.

1) Residential Rebate Program:

Device	MET Rebate	MWDOC Grant	ETWD Rebate	Total Rebate (up to)
High Efficiency Clothes Washer (CEE tier one or better)	\$85		\$115	\$200
Premium High Efficiency Toilet (4 liter)	\$40		\$60	\$100
Rotating Sprinkler Nozzles (min 30 per home)	\$2 ea		\$1	\$3
Smart Irrigation Timer	\$80		\$100	\$180
Turf Removal Program (up to 5,000 sq ft)*	\$1 sq. ft.	\$2 sq. ft.		\$3 sq. ft.
Soil Moisture Sensor System <1 Acre >1 Acre	\$80 \$35/station		\$100	\$155 \$35/station
Rain Barrels Cisterns (200 -500 gallon) (501-999 gallon) (1,000 gallon or more)	\$35 \$250 \$300 \$350		\$15	\$50 \$250 \$300 \$350
Drip Irrigation (per kit and up to 5 kits)		\$90 base plus \$85		\$175 per kit

*Designated recycled water sites are not eligible for turf removal rebates. MWDOC Grant funding based on availability.

2) Commercial Plumbing/Irrigation Devices Rebate Program:

Device	MET Rebate	MWDOC Grant	ETWD Rebate	Total Rebate (up to)
Premium High Efficiency Toilet (4 liter)	\$40			\$40
Multi-family Premium High Efficiency Toilet (4 liter)	\$40			\$40
Zero Water/Ultra Low Water Urinal	\$200			\$200
Plumbing Flow Control Valve (min. 10)	\$5			\$5
Smart Irrigation Timer (weather based or central computer)	\$35/station			\$35/station
Rotating Sprinkler Nozzles (minimum quantity of 15)	\$2		\$1	\$3
Rotating Nozzles – Large Rotary	\$13			\$13
Turf Removal Program (up to 50,000 sq ft)*	\$1 sq. ft	\$2 sq. ft.		\$3 sq. ft.
Drip Irrigation (sq. ft.)(maximum 45,000 sq. ft)		\$0.20 sq. ft.		\$0.20 sq. ft.
Soil Moisture Sensor System	\$35/station			\$35/station

*Designated recycled water sites are not eligible for turf removal rebates.

Additional commercial rebates available online at ocwatersmart.com. MWDOC Grant funding based on availability.

WATER USE EFFICIENCY PLAN UPDATE (WATER CONSERVATION PLAN)

The District Water Budget-Based Tiered Conservation Rate Structure (WBBTCRS) pricing structure is the primary plan that gives customers the incentive needed to be efficient. The Plan efforts initially will concentrate on those customers continually in the Inefficient and Excessive Tiers (Tiers 3 and 4). [As of August 2019 year-to-date sales, residential accounted for 62% of the overall Tier 3 usage and dedicated irrigation accounted for 55% of Tier 4 usage.](#)

TOTAL CONSUMPTION COMPARISON TO EVAPOTRANSPIRATION (ET) FACTOR

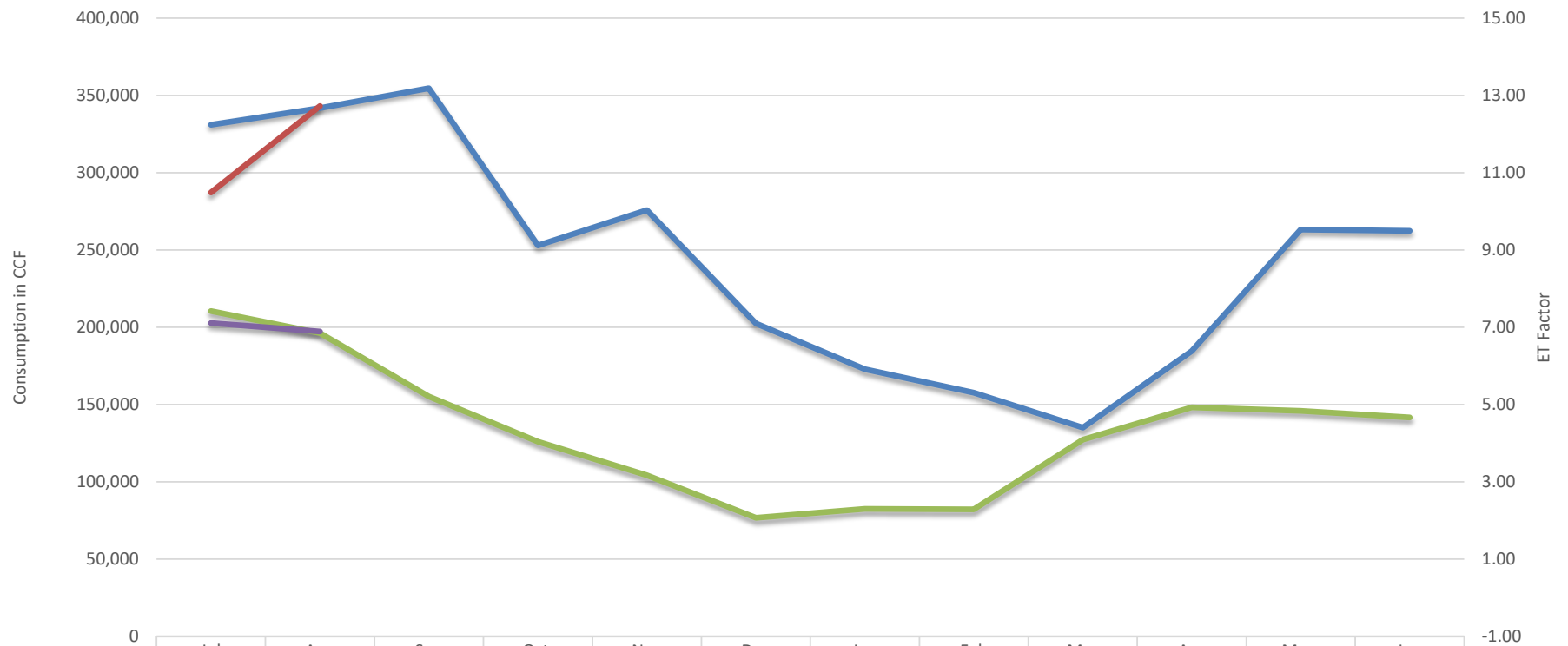
Included in this month's Conservation Report is a chart comparing the current fiscal year 2018/19 consumption and ET factor to the fiscal 2017/18 consumption and ET factor. [The ET factor increased 1% from August 2018 when compared to August 2019. There was a slight increase of 0.61% in consumption reflected in August 2019.](#)

**MWDOC's—WATER USE EFFICIENCY PROGRAMS SAVINGS AND
IMPLEMENTATION REPORT / ETWD's—WATER USE EFFICIENCY PROGRAM
SAVINGS REPORT**

The Water Use Efficiency Program Savings for August were not available from MWDOC this month, therefore the MWDOC and ETWD's Program Savings Reports are not attached.

**By: Sherri Seitz
Date: September 18, 2019**

Total Consumption Comparison

[illegible]

**NOTICE OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
BOARD OF DIRECTORS
MANAGERS ROUNDTABLE WORKSHOP**

August 27, 2019

11:00 a.m.

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) JPA Workshop was called by the Chairman to be held on **August 27, 2019** at **11:00 a.m.** at the Double Tree Hotel located at 34402 CA-1, Tempo Room, Dana Point, California.

This meeting is set as a meeting of the SOCWA Agency General Managers and due to the number of Managers on the SOCWA Board it is required to be posted and held as an open and public special meeting of the Board.

THE MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.) PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5421 AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA EXHIBITS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY JPA WORKSHOP IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE JPA WORKSHOP ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE JPA WORKSHOP LESS THAN TWENTY-FOUR (24) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE JPA WORKSHOP MEMBERS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE JPA WORKSHOP MEETING ROOM.

AGENDA

Convene at DoubleTree Hotel, Dana Point, California

11:00 a.m.

Buffet lunch available for meeting attendees and staff

1. Welcome – Opening Remarks

12:00 p.m.

Dan Ferons, Board

Chairman Public

Comment

Betty Burnett, General Manager and Secretary

Michelle Murphy, President, InnoPro Performance

Solutions Meeting Attendee Introductions

Notice of Special Meeting – Managers JPA Workshop

August 27, 2019

Page 2 of 2

2. Progress review – The SOCWA JPA Agreement Modifications 12:10 p.m.

Greg Moser, General Counsel

Update – Progress Review from May 13, 2019 Meeting

Review of General Counsel's JPA Agreement draft recommendations

Policy Issues for further discussion – Next Steps

3. Manager's Survey Review – Survey Results and Analysis 12:45 p.m.

Michelle Murphy, President, InnoPro Performance Solutions

Break 1:30 p.m.

4. Roundtable Discussion 1:45 p.m.

Facilitated Open Forum

Discussion – Questions – Recommendations

5. Action Planning Summary

Concluding Remarks

Adjournment

3:00 p.m.

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Agency Managers at least 24 hours prior to the scheduled time of the Special Meeting referred to above.

I hereby certify that the foregoing Notice was posted at least 24 hours prior to the time of the above-referenced JPA Workshop at the usual agenda posting location of the South Orange County Wastewater Authority and at www.socwa.com and at the Double Tree Hotel meeting location identified herein.

Dated this 20th day of August 2019.



Betty C. Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

**NOTICE OF REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
FINANCE COMMITTEE**

**September 3, 2019
10:30 a.m.**

NOTICE IS HEREBY GIVEN that a Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee was called by the Chairman to be held on **September 3, 2019 at 10:30 a.m.** at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California.

THE SOCWA MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.) PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5421 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA EXHIBITS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY FINANCE COMMITTEE IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE FINANCE COMMITTEE ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE FINANCE COMMITTEE LESS THAN SEVENTY-TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE FINANCE COMMITTEE MEMBERS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE FINANCE COMMITTEE MEETING ROOM.

AGENDA

- 1. Call Meeting to Order**
- 2. Pledge of Allegiance**
- 3. Public Comments**

THOSE WISHING TO ADDRESS THE FINANCE COMMITTEE ON ANY ITEM LISTED ON THE AGENDA SHOULD SUBMIT A "REQUEST TO BE HEARD" FORM TO THE CLERK OF THE BOARD BEFORE THE PRESIDING OFFICER ANNOUNCES THAT AGENDA ITEM. YOUR NAME WILL BE CALLED TO SPEAK AT THAT TIME.

4. Approval of Minutes

- a) Finance Committee Meeting Minutes of April 9, 2019
- b) Finance Committee Meeting Minutes of August 20, 2019

Recommendation:

Staff recommends the Finance Committee to approve minutes as submitted.

5. SOCWA 457b Plan Improvements

Recommendation:

Staff recommends that the Finance Committee recommends the Board of Directors approve the SOCWA 457 Plan document and authorize the General Manager to enter into the requisite service agreements with Nationwide Private in a form approved by counsel and retain Wells Fargo Advisory Services to provide Plan Advisory Services.

6. Annual Financial Statements Audit FY 2018-19 – Progress

Recommendation:

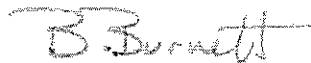
Staff recommends the Finance Committee recommend to the Board of Directors to receive and file the subject report.

7. Adjournment

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Finance Committee at least 72 hours prior to the scheduled time of the Regular Meeting referred to above.

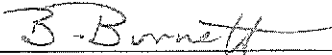
I hereby certify that the foregoing Notice was posted at least 72 hours prior to the time of the above-referenced Finance Committee at the usual agenda posting location of the South Orange County Wastewater Authority and at www.socwa.com.

Dated this 29th day of August 2019.



Betty C. Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

I hereby certify that the following Agenda was posted at least 72 hours prior to the time of the Board Meeting so noticed below, at the usual agenda posting location of the South Orange County Wastewater Authority [SOCWA] and at www.socwa.com.



Betty Burnett, General Manager
SOCWA and the Board of Directors thereof

AGENDA

Regular Meeting of The South Orange County Wastewater Authority Board of Directors

September 5, 2019
8:30 a.m.

THE BOARD OF DIRECTORS MEETING ROOM IS LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA. THE ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY-RELATED ACCOMMODATIONS (I.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.), PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY'S OFFICE AT 949-234-5421 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN AN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD OF DIRECTORS IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN SEVENTY-TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE BOARD OF DIRECTORS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE BOARD OF DIRECTORS MEETING ROOM.

1. CALL MEETING TO ORDER
2. PLEDGE OF ALLEGIANCE
3. ORAL COMMUNICATIONS

- A. Members of the public may address the board regarding an item on the agenda or may reserve this opportunity during the meeting at the time the item is discussed by the board. There will be a three-minute limit for public comments.

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
September 5, 2019

4. CONSENT CALENDAR

A. Minutes of Board of Directors Meeting(s)

- 1) Board of Directors Meeting August 8, 2019 1
- 2) Board of Directors Meeting June 6, 2019..... 8
- 3) Board of Directors Meeting June 20, 2019..... 17

ACTION The Board will be requested to approve subject Minutes.

B. Financial Matters

- 1) Monthly Financials Report for June 2019 26
 - a) Summary of Disbursements for June 2019 (Exhibit A)..... 27
 - b) Schedule of Funds Available for Reinvestment (Exhibit B) 28
 - Local Agency Investment Fund (LAIF) 29
 - c) Schedule of Cash and Investments (Exhibit C) 30

ACTION Finance Committee recommends to the Board of Directors to ratify the June 2019 disbursements for the period from June 1, 2019, through June 30, 2019, totaling \$6,065,041 and to receive and file the June 2019 Financial Reports as submitted.

2) Finance Committee Minutes

- a) Finance Committee Meeting August 20, 2019..... 31
- b) Finance Committee Meeting May 21, 2019..... 34
- c) Finance Committee Meeting April 9, 2019 38

ACTION The Board will be requested to receive and file subject Minutes.

C. Operational Reports – July 2019

- 1) Monthly Operations Report – July 2019..... 41
- 2) Ocean Outfall Discharges 51
- 4) Beach/Ocean Monitoring Report..... 53
- 5) Recycled Water Report..... 76
- 6) Pretreatment Report – July and August 2019 81

ACTION The Board will be requested to receive and file the *July 2019 Operations Report*.

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
September 5, 2019

D. Capital Improvement Program

- 1) Status Report(s) 85

ACTION The Board will be requested to receive and file subject reports.

E. Project Committee No. 2

- 1) Change Order – SS Mechanical Construction Contract [PC2] 98

ACTION The Engineering Committee recommends that the Project Committee No. 2 Board of Directors approve Change Order 4 to the construction contract with SS Mechanical Construction for the J. B. Latham Treatment Plant, Plant 1 Grit Basin Rehabilitation Project.

F. Project Committee No. 15

- 1) Change Order – SS Mechanical Construction Contract [PC15]..... 101

ACTION The Engineering Committee recommends that the Project Committee No. 15 Board of Directors approve Change Orders 6 through 8 to the construction contract with SS Mechanical Construction for the Coastal Treatment Plant Tertiary System Upgrades Project.

- 2) Project Committee No. 15 Minutes

- a) Project Committee No. 15 Meeting May 15, 2019 104

ACTION The Board will be requested to receive and file subject Minutes.

5. ENGINEERING MATTERS

A. Project Committee No. 2

- 1) Award of Condition Assessment – JB Latham Treatment Plant Blower Building (Plant 1) [PC 2] 106

ACTION The Project Committee No. 2 Board will be requested to approve 1) the award of condition assessment contract to Carollo Engineers at a fee not to exceed \$95,813.00, and 2) approve of the budget increase of \$15,000 identified in Tables 3 and 4 and approve including \$15,000 in the Fiscal Year 2019/2020 Non-Capital Projects budget.

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
September 5, 2019

6. GENERAL MANAGER'S REPORTS

A. Annual Financial Statements Audit FY 2018-19 - Progress..... 112

ACTION Staff recommends the Board receive and file subject report.

B. SOCWA 457 Plan Improvements 117

ACTION Staff recommends that the Board of Directors approve the SOCWA 457 Plan document and authorize the General Manager to enter into the requisite service agreements with Nationwide Private in a form approved by counsel and retain Wells Fargo Advisory Services to provide Plan Advisory Services.

C. Revised SOCWA Policy Establishing Guidelines for Travel and Expense Reimbursement..... 155

ACTION Staff recommends to the Board of Directors to approve the August 2019 revision to the SOCWA *Policy Establishing Guidelines for Travel and Expense Reimbursement*, and 2) rescind prior Policy, SOCWA Resolution No. 2011-04 SOCWA *Policy Establishing Guidelines for Travel and Expense Reimbursement*.

D. Appointment of Executive Committee and Finance Committee Members..... 174

ACTION Staff recommends that the SOCWA Chairman appoint representatives from the Board of Directors to the Executive Committee and Finance Committee.

E. Use Audit Methodology 176

ACTION Staff recommends the Board receive and file subject report

F. General Manager's Status Report 192

ACTION Information item.

G. Monthly Progress Report on State Audit Recommendations 197

ACTION Information item.

OTHER MATTERS

A. Open discussion or items received too late to be agendaized.

Note: Determine the need to take action on the following item(s) introduced by the General Manager which arose subsequent to the agenda being posted.

[Adoption of this action requires a two-thirds vote of the Board, or if less than two-thirds are present a unanimous vote.]

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
September 5, 2019

ADJOURNMENT

THE NEXT SOCWA BOARD MEETING
OCTOBER 3, 2019

**NOTICE OF REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
ENGINEERING COMMITTEE**

September 12, 2019

8:30 a.m.

NOTICE IS HEREBY GIVEN that a Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee has been scheduled to be held on **September 12, 2019, at 8:30 a.m.** at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California.

THE SOCWA MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.) PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5421 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA EXHIBITS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ENGINEERING COMMITTEE IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE ENGINEERING COMMITTEE ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE ENGINEERING COMMITTEE LESS THAN 72 HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE ENGINEERING COMMITTEE MEMBERS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE ENGINEERING COMMITTEE MEETING ROOM.

AGENDA

- 1. Call Meeting to Order**
- 2. Public Comments**

PERSONS WISHING TO ADDRESS THE ENGINEERING COMMITTEE ON MATTERS NOT LISTED ON THE AGENDA MAY DO SO AT THIS TIME. "REQUEST TO BE HEARD" FORMS ARE AVAILABLE AT THE ENTRANCE TO THE BOARD ROOM. COMMENTS ARE LIMITED TO THREE (3) MINUTES UNLESS FURTHER TIME IS GRANTED BY THE PRESIDING OFFICER. SUBMIT FORM TO THE CLERK OF THE BOARD PRIOR TO THE BEGINNING OF THE MEETING.

THOSE WISHING TO ADDRESS THE ENGINEERING COMMITTEE ON ANY ITEM LISTED ON THE AGENDA SHOULD SUBMIT A "REQUEST TO BE HEARD" FORM TO THE CLERK OF THE BOARD BEFORE THE PRESIDING OFFICER ANNOUNCES THAT AGENDA ITEM. YOUR NAME WILL BE CALLED TO SPEAK AT THAT TIME.

NOTICE OF ENGINEERING COMMITTEE

September 12, 2019

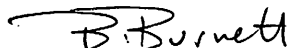
Page 2 of 2

3. **Review/Approval of Meeting Minutes (July '19, August '19)**
4. **Operations Report**
5. **Regional Treatment Plant Cogeneration System Update (Project Committee 17)**
6. **SOCWA Engineering Staff Augmentation (Project Committees 5, 17, and 24)**
7. **Discussion on the Addition of the Doheny Desal to the SJCOO NPDES Permit**
8. **J. B. Latham Treatment Plant Electrical System Evaluation (Project Committee 2) Proposal Review**
9. **J. B. Latham Treatment Plant Hydraulic Modeling and Flow Management Study (Project Committee 2) Proposal Review**
10. **J. B. Latham Treatment Plant Centrate System Final Design Proposal Review (Project Committee 2)**

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Engineering Committee at least 72 hours prior to the scheduled time of the Regular Meeting referred to above.

I hereby certify that the foregoing Notice was posted at least 72 hours prior to the time of the above-referenced Engineering Committee at the usual agenda posting location of the South Orange County Wastewater Authority and at www.socwa.com.

Dated this 4th day of September 2019.



Betty C. Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

**NOTICE OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
BOARD OF DIRECTORS
MANAGERS ROUNDTABLE WORKSHOP**

September 19, 2019

8:00 a.m.

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) JPA Workshop was called to be held on **September 19, 2019 at 8:00 a.m.** at the DoubleTree Hotel located at 34402 CA-1, *Capistrano Room*, Dana Point, California.

This meeting is set as a meeting of the SOCWA Agency General Managers and due to the number of Managers on the SOCWA Board it is required to be posted and held as an open and public special meeting of the Board.

THE MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.) PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5421 AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA EXHIBITS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY JPA WORKSHOP IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE JPA WORKSHOP ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE JPA WORKSHOP LESS THAN TWENTY-FOUR (24) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE JPA WORKSHOP MEMBERS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE JPA WORKSHOP MEETING ROOM.

AGENDA

Convene at DoubleTree Hotel, Dana Point, California
Buffet breakfast available for meeting attendees and staff

8:00 a.m.

1. Welcome – Opening Remarks

9:00 a.m.

Dan Ferons, Board Chairman Public Comment
Betty Burnett, General Manager and Secretary
Michelle Murphy, President, InnoPro Performance
Solutions Meeting Attendee Introductions

Notice of Special Meeting – Managers JPA Workshop

September 19, 2019

Page 2 of 2

2. **Progress review – The SOCWA JPA Agreement Modifications** 9:10 a.m.
Greg Moser, General Counsel
Review Consensus Language from May 13, 2019, and Aug 27, 2019 Meetings
Board/Agency Counsel consideration of draft recommendations
Policy Issues for further discussion – Next Steps
3. **Recap Highlights & Open Issues from Manager’s Survey** 9:45 a.m.
Michelle Murphy, President, InnoPro Performance Solutions
- Break 10:30 a.m.
4. **Discussion Topics on Key Issues – Roundtable Forum** 10:45 a.m.
Facilitated Open Forum
Discussion – Questions – Recommendations
5. **Action Planning Summary**
Concluding Remarks
Adjournment 12:00 p.m.

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Agency Managers at least 24 hours prior to the scheduled time of the Special Meeting referred to above.

I hereby certify that the foregoing Notice was posted at least 24 hours prior to the time of the above-referenced JPA Workshop at the usual agenda posting location of the South Orange County Wastewater Authority and at www.socwa.com and at the DoubleTree Hotel meeting location identified herein.

Dated this 13th day of September 2019.



Betty C. Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

MEETING OF THE BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

Jointly with the

PLANNING & OPERATIONS COMMITTEE

September 3, 2019, 8:30 a.m.

Conference Room 101

P&O Committee:

Director Yoo Schneider, Chair
Director Tamaribuchi
Director Dick

Staff: R. Hunter, K. Seckel, J. Berg,
H. De La Torre, K. Davanaugh,
D. Harrison

Ex Officio Member: Director Barbre

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>.

ACTION ITEMS

1. AMENDMENT NO. 8 TO THE SANTIAGO AQUEDUCT COMMISSION (SAC) JOINT POWERS AGREEMENT (JPA)
2. ADDITIONAL AUTHORIZATION FOR RAFTELIS TO COMPLETE THE DWR GRANT MONITORING REPORT FOR THE BUDGET BASED TIERED RATE (BBTR) GRANT STUDY

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.)

3. METROPOLITAN'S ASSESSED VALUATION FOR MWDOC AND ORANGE COUNTY FOR FISCAL YEAR 2019-20
4. STATUS REPORTS
 - a. Ongoing MWDOC Reliability and Engineering/Planning Projects
 - b. WEROC
 - c. Water Use Efficiency Projects
5. REVIEW OF ISSUES RELATED TO CONSTRUCTION PROGRAMS, WATER USE EFFICIENCY, FACILITY AND EQUIPMENT MAINTENANCE, WATER STORAGE, WATER QUALITY, CONJUNCTIVE USE PROGRAMS, EDUCATION, 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.

WORKSHOP MEETING OF THE
BOARD OF DIRECTORS WITH MET DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
18700 Ward Street, Board Room, Fountain Valley, California
September 4, 2019, 8:30 a.m.

AGENDA

PLEDGE OF ALLEGIANCE

ROLL CALL

PUBLIC PARTICIPATION/COMMENTS

At this time members of the public will be given an opportunity to address the Board concerning items within the subject matter jurisdiction of the Board. Members of the public may also address the Board about a particular Agenda item at the time it is considered by the Board and before action is taken.

The Board requests, but does not require, that members of the public who want to address the Board complete a voluntary "Request to be Heard" form available from the Board Secretary prior to the meeting.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Determine need and take action to agendize item(s), which arose subsequent to the posting of the Agenda. (ROLL CALL VOTE: Adoption of this recommendation requires a two-thirds vote of the Board members present or, if less than two-thirds of the Board members are present, a unanimous vote.)

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>.

(NEXT RESOLUTION NO. 2089)

PRESENTATION/DISCUSSION/INFORMATION ITEMS

1. INPUT OR QUESTIONS ON MET ISSUES FROM THE MEMBER AGENCIES/MET DIRECTOR REPORTS REGARDING MET COMMITTEE PARTICIPATION

Recommendation: Receive input and discuss the information.

2. PRESENTATION BY BRAD COFFEY REGARDING THE GOVERNOR'S RESILIENCY PROGRAM

Recommendation: Review and discuss the information presented.

3. DELTA CONVEYANCE PROJECT ACTIVITIES UPDATE

Recommendation: Review and discuss the information presented.

4. MWDOC'S HOSTING OF DELTA STEWARDSHIP COUNCIL MEETING ON SEPTEMBER 26, 2019

Recommendation: Review and discuss the information presented.

5. MET ITEMS CRITICAL TO ORANGE COUNTY (The following items are for informational purposes only – a write up on each item is included in the packet. Discussion is not necessary unless requested by a Director)

- a. MET's Water Supply Conditions
- b. MET's Finance and Rate Issues
- c. Colorado River Issues
- d. Bay Delta/State Water Project Issues
- e. MET's Ocean Desalination Policy and Potential Participation in the Doheny and Huntington Beach Ocean (Poseidon) Desalination Projects
- f. South County Projects

Recommendation: Review and discuss the information presented.

6. METROPOLITAN (MET) BOARD AND COMMITTEE AGENDA DISCUSSION ITEMS

- a. Summary regarding August Board Meeting
- b. Review items of significance for MET Board and Committee Agendas

Recommendation: Review and discuss the information presented.

ADJOURNMENT

Note: 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 accommodations should make the request with adequate time before the meeting for the District to provide the requested accommodations.

MEETING OF THE BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

Jointly with the

ADMINISTRATION & FINANCE COMMITTEE

September 11, 2019, 8:30 a.m.

Conference Room 101

A&F Committee:

J. Thomas, Chair

J. Finnegan

R. McVicker

Staff: R. Hunter, K. Seckel, J. Berg,

H. De La Torre, K. Davanaugh, C. Harris,

H. Chumpitazi

Ex Officio Member: Director Barbre

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>.

PROPOSED BOARD CONSENT CALENDAR ITEMS

1. TREASURER'S REPORT
 - a. Revenue/Cash Receipt Report – August 2019
 - b. Disbursement Approval Report for the month of September 2019
 - c. Disbursement Ratification Report for the month of August 2019
 - d. GM Approved Disbursement Report for the month of August 2019
 - e. Water Use Efficiency Projects Cash Flow – August 31, 2019
 - f. Consolidated Summary of Cash and Investment – July 2019
 - g. OPEB and Pension Trust Fund monthly statement
2. FINANCIAL REPORT
 - a. Combined Financial Statements and Budget Comparative for the Period ending July 31, 2019

DISCUSSION ITEM

3. MWDOC WATER FACILITIES CORPORATION ANNUAL MEETING
 - a. 2019 Annual Filing of Tax Compliance Reports for the MWDOC Water Facilities Corporation
 - b. Annual Reorganization of Board Officers for the MWDOC Water Facilities Corporation
4. DIRECTOR BUSINESS EXPENSE REPORTS

ACTION ITEMS

5. AUTHORIZE FY19-20 CHOICE PROGRAMS BUDGET REVISIONS
6. APPROVAL OF REVISED PERSONNEL MANUAL

INFORMATION ITEMS – (THE FOLLOWING ITEMS ARE FOR INFORMATIONAL PURPOSES ONLY – BACKGROUND INFORMATION IS INCLUDED IN THE PACKET. DISCUSSION IS NOT NECESSARY UNLESS REQUESTED BY A DIRECTOR.)

7. SOLE SOURCE PROCUREMENT FORM WITH PERSONNEL CONSULTANT, AMY OSBORNE
8. DEPARTMENT ACTIVITIES REPORTS
 - a. Administration
 - b. Finance and Information Technology
9. MONTHLY WATER USAGE DATA, TIER 2 PROJECTION, AND WATER SUPPLY INFORMATION

OTHER ITEMS

10. REVIEW ISSUES REGARDING DISTRICT ORGANIZATION, PERSONNEL MATTERS, EMPLOYEE BENEFITS FINANCE AND INSURANCE

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.

MEETING OF THE
BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Jointly with the
PUBLIC AFFAIRS AND LEGISLATION COMMITTEE
September 16, 2019, 8:30 a.m.
Conference Room 101

Committee:

Director Dick, Chair
Director Thomas
Director McVicker

Staff: R. Hunter, K. Seckel, H. Baez,
D. Micalizzi, T. Dubuque, T. Baca

Ex Officio Member: Director Barbre

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 PARTICIPATION

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>.

DISCUSSION ITEMS

1. LEGISLATIVE ACTIVITIES
 - a. Federal Legislative Report (Barker)
 - b. State Legislative Report (BBK)
 - c. County Legislative Report (Lewis)
 - d. Legal and Regulatory Report (Ackerman)
 - e. MWDOC Legislative Matrix
 - f. MET Legislative Matrix
2. MWDOC LEGISLATIVE POLICY PRINCIPLES ANNUAL UPDATE

INFORMATION ITEMS (THE FOLLOWING ITEMS ARE FOR INFORMATIONAL PURPOSES ONLY – BACKGROUND INFORMATION IS INCLUDED IN THE PACKET. DISCUSSION IS NOT NECESSARY UNLESS REQUESTED BY A DIRECTOR.)

3. WATER POLICY DINNER RECAP - September 5, 2019
4. CALIFORNIA ENVIRONMENTAL LITERACY INITIATIVE
5. EDUCATION PROGRAM UPDATE
6. PUBLIC AFFAIRS ACTIVITIES REPORT

OTHER ITEMS

7. REVIEW ISSUES RELATED TO LEGISLATION, OUTREACH, PUBLIC INFORMATION ISSUES, AND MET

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.

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REGULAR MEETING
OF THE BOARD OF DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
AND ANNUAL MEETING OF THE BOARD OF DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
WATER FACILITIES CORPORATION
18700 Ward Street, Board Room, Fountain Valley, California
September 18, 2018, 8:30 a.m.

AGENDA

MOMENT OF SILENCE

PLEDGE OF ALLEGIANCE

ROLL CALL

PUBLIC COMMENTS/PARTICIPATION

At this time, members of the public will be given an opportunity to address the Board concerning items within the subject matter jurisdiction of the Board. Members of the public may also address the Board about a particular Agenda item at the time it is considered by the Board and before action is taken. If the item is on the Consent Calendar, please inform the Board Secretary before action is taken on the Consent Calendar and the item will be removed for separate consideration.

The Board requests, but does not require, that members of the public who want to address the Board complete a voluntary "Request to be Heard" form available from the Board Secretary prior to the meeting.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Determine need and take action to agendize items(s) which arose subsequent to the posting of the Agenda. (ROLL CALL VOTE: Adoption of this recommendation requires a two-thirds vote of the Board members present, or, if less than two-thirds of the Board members are present, a unanimous vote of those members present.)

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>.

EMPLOYEE SERVICE AWARDS

MWDOC WATER FACILITIES CORPORATION AGENDA ITEMS

WFC-1 FINANCIAL REPORT

- a. Annual Filing of Tax Compliance Reports.

Recommendation: Authorize the annual filing of the tax compliance reports as presented.

WFC-2 REORGANIZATION OF MWDOC WFC BOARD OFFICERS

Recommendation: Consider reorganizing the MWDOC WFC Board officers

ADJOURNMENT -- END MWDOC WFC AGENDA

MWDOC AGENDA

NEXT RESOLUTION NO. 2089

CONSENT CALENDAR (Items 1 to 7)

(All matters under the Consent Calendar will be approved by one motion unless a Board member requests separate action on a specific item)

1. MINUTES

- a. August 7, 2019 Workshop Board Meeting
- b. August 21, 2019 Regular Board Meeting

Recommendation: Approve as presented.

2. COMMITTEE MEETING REPORTS

- a. Planning & Operations Committee Meeting: August 5, 2019
- b. Administration & Finance Committee Meeting: August 14, 2019
- c. Public Affairs & Legislation Committee Meeting: August 12, 2019
- d. Executive Committee Meeting: August 22, 2019

Recommendation: Receive and file as presented.

3. TREASURER'S REPORTS

- a. MWDOC Revenue/Cash Receipt Register as of August 31, 2019
- b. MWDOC Disbursement Registers (August/September)

Recommendation: Ratify and approve as presented.

- c. Summary of Cash and Investment and Portfolio Master Summary Report (Cash and Investment report) as of July 31, 2019
- d. PARS Monthly Statement (OPEB Trust)
- e. Water Use Efficiency Projects Cash Flow

Recommendation: Receive and file as presented.

4. FINANCIAL REPORT

- a. Combined Financial Statements and Budget Comparative for the Period ending July 31, 2019

Recommendation: Receive and file as presented.

5. AMENDMENT NO. 8 TO THE SANTIAGO AQUEDUCT COMMISSION (SAC) JOINT POWERS AGREEMENT (JPA)

Recommendation: Authorize the Board President to execute Amendment No. 8 to the SAC JPA, as presented.

6. ADDITIONAL AUTHORIZATION FOR RAFTELIS TO COMPLETE THE DWR GRANT MONITORING REPORT FOR THE BUDGET BASED TIERED RATE (BBTR) GRANT STUDY

Recommendation: Authorize the General Manager to increase the cost authorization towards completion of the BBTR DWR Grant Monitoring Study from \$41,721, by \$17,707, to a total cost of \$59,428. Staff also requests an additional contingency of \$4,000 if needed, under staff's authority, in the event additional complications occur.

7. AUTHORIZE FY 19-20 CHOICE PROGRAMS BUDGET REVISIONS

Recommendation: Approve the Choice Programs budget revisions.

End Consent Calendar

ACTION ITEMS

8-1 APPROVAL OF REVISED PERSONNEL MANUAL

Recommendation: Approve changes and additions to the Personnel Manual as presented.

INFORMATION CALENDAR (All matters under the Information Calendar will be Received/Filed as presented following any discussion that may occur)

9. GENERAL MANAGER'S REPORT, SEPTEMBER 2019 (ORAL AND WRITTEN)

Recommendation: Receive and file report(s) as presented.

10. MWDOC GENERAL INFORMATION ITEMS

- a. Board of Directors - Reports re: Conferences and Meetings
- b. Requests for Future Agenda Topics

Recommendation: Receive and file as presented.

CLOSED SESSION ITEMS

11. PUBLIC EMPLOYEE PERFORMANCE EVALUATION

Title: General Manager
Government Code Section 54957

12. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Section 54956.9: One case

ADJOURNMENT

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MUNICIPAL WATER DISTRICT OF ORANGE COUNTY AGENCIES MANAGERS MEETING

Street Address:
18700 Ward Street
Fountain Valley, California 92708

Mailing Address:
P.O. Box 20895
Fountain Valley, CA 92728-0895

(714) 963-3058
Fax: (714) 964-9389
www.mwdoc.com

Brett R. Barbre
President

Joan C. Finnegan
Vice President

Larry D. Dick
Director

Bob McVicker, P.E. D.WRE
Director

Megan Yoo Schneider, P.E.
Director

Sat Tamaribuchi
Director

Jeffery M. Thomas
Director

Robert J. Hunter
General Manager

MEMBER AGENCIES

City of Brea
City of Buena Park
East Orange County Water District
El Toro Water District
Emerald Bay Service District
City of Fountain Valley
City of Garden Grove
Golden State Water Co.
City of Huntington Beach
Irvine Ranch Water District
Laguna Beach County Water District
City of La Habra
City of La Palma
Mesa Water District
Moulton Niguel Water District
City of Newport Beach
City of Orange
Orange County Water District
City of San Clemente
City of San Juan Capistrano
Santa Margarita Water District
City of Seal Beach
Serrano Water District
South Coast Water District
Trabuco Canyon Water District
City of Tustin
City of Westminster
Yorba Linda Water District

LOCATION: MWDOC's Fountain Valley office is located at 18700 Ward St, and the entrance/exit is about ¼ mile south of Ellis Ave. The nearest freeway access is Euclid at the 405. Parking is available to the east of the MWDOC/OCWD Admin offices (follow driveway from Ward St to parking areas).

WHEN: Thursday, September 19, 2019 from **10:30 am to 12:00 pm.**

DRAFT AGENDA

1. Opportunity to add and discuss items not already listed.

Page #

2. Discussion Items:

- 2-1. Metropolitan Upcoming Shutdowns
- 2-2. Metropolitan Demand Management Cost Allocation 2
- 2-3. Metropolitan Stormwater Direct Use Pilot 18
- 2-4. Governor's Water Resilience Portfolio Initiative
- 2-5. Legislative Policy Principles 23

3. Information and Follow-up Items:

- 3-1. AWIA Update and Contract
- 3-2. BUC – AQMD Follow-up
- 3-3. Update on Poseidon Huntington Beach

4. Report Items:

- 4-1. Monthly GM Report 35
- 4-2. Legislative Reports 53
- 4-3. WEROC Matrix 90
- 4-4. Grant Funding Opportunities Provided at Mtg.

5. Next meeting will tentatively be held October 17, 2019.

Lunch will be provided immediately following the meeting.

ORANGE COUNTY LAFCO MUNICIPAL SERVICE REVIEW FORTH CYCLE



Amendments to the Cortese-Knox-Hertzberg Act in 2000 require that Local Agency Formation Commissions (LAFCOs) prepare regional studies of municipal services (Municipal Service Reviews, or MSR) every five years in conjunction with Sphere of Influence (SOI) updates for each city and Special District. The MSR is intended to assist agencies and residents by (1) evaluating existing municipal services, and (2) identifying any future constraints or challenges that may impact service delivery in the future. The current MSR review will represent the 4th Cycle of MSRs for the period 2018-2022.

- First Cycle** The report for the first cycle MSR, specific to El Toro Water District, was issued in 2007. The report documented a detailed evaluation of the Cities and Special Districts in South Orange County concluding that the services provided by the cities and districts were accomplished in an efficient and cost effective manner.
- Second Cycle** At the commencement of the second cycle LAFCO staff concluded that, other than a few agency specific sphere of influence updates, the majority of the County did not warrant further study at that time. LAFCO staff noted that no significant issues were identified during the initial MSR review process and that the data and analysis included in the first cycle remained current. Given the lack of sphere-related issues, LAFCO staff recommended and the Commission approved “reconfirming” the initial MSR and SOI determinations for the 2008-2012 MSR cycle.
- Third Cycle** The Third cycle included the 2013-2018 MSR and SOI Updates. LAFCO staff recommended that one set of MSR determinations be applied to all of Orange County’s cities and special districts. LAFCO staff did not identify any significant MSR-related issues with Orange County’s cities and special districts. LAFCO staff further recommended, with the exception of five agencies, the City of Garden Grove, the City of Stanton, the City of Laguna Beach, Capistrano Bay Community Services District and the Municipal Water District of Orange County, that the spheres of influence for the remaining Orange County cities and special districts be re-confirmed.
- Fourth Cycle** LAFCO has kicked off the fourth cycle MSR covering the 2018-2022 period. In this cycle LAFCO has created MSR Regions. The District is included in both the Southeast Region and the Southwest Region. Each of the MSRs for the two regions in which the District will participate are scheduled during

2019-20 fiscal year. The Areas of Interest as well as the Cities and Special Districts included in each Region are noted below.

OC LAFCO 4 TH CYCLE (2018-2022) Timeline – Sphere of Influence Reviews (SOIs) and Municipal Service Reviews (MSRs)				
MSR Region	Areas of Interest Identified by Stakeholders	Cities	Special Districts	Review Schedule ¹
Southeast	<ul style="list-style-type: none"> ■ Public Works <ol style="list-style-type: none"> 1. Location and condition of public infrastructure ■ Police <ol style="list-style-type: none"> 1. Fiscal sustainability of increasing costs of contracts with County Sheriff 2. Impacts of and ability to maintain related pension costs ■ Water <ol style="list-style-type: none"> 1. Water quality involving low flow run-off issues 2. Assistance for agencies from treatment agencies on flow diversion and low flow funding mechanisms 3. Water rate structures and conservation 	Lake Forest Mission Viejo Rancho Santa Margarita San Clemente San Juan Capistrano	El Toro WD Irvine Ranch WD Moulton Niguel WD Santa Margarita WD Trabuco Canyon WD South Orange County Wastewater Authority (JPA)	2019-20
Southwest	<ul style="list-style-type: none"> ■ Public Works ■ Water <ol style="list-style-type: none"> 1. Agency collaboration on urban water run-off and water treatment 2. Collaboration between water districts and cities 3. Impacts of water conservation 4. Water reliability 5. Possible opportunities for consolidation of districts 	Aliso Viejo Dana Point Laguna Beach Laguna Hills Laguna Niguel Laguna Woods	Capistrano Bay CSD Emerald Bay CSD El Toro WD Laguna Beach County WD Moulton Niguel WD South Coast WD Three Arch Bay CSD South Orange County Wastewater Authority (JPA)	2019-20

LAFCO staff kicked off the MSR process with an OC LAFCO MSR Survey designed to assist LAFCO staff in collecting information and preparing an MSR for each agency. District staff provided the attached detailed response to the LAFCO survey. District staff also participated in a phone conference with LAFCO staff regarding the MSR process. LAFCO staff indicated the 4th Cycle MSR process would focus on “shared services” and “fiscal sustainability”. The next step will include stakeholder discussions. Staff will provide periodic updates to the Board on the MSR process.

By: Dennis Cafferty
Date: September 18, 2019

Orange County LAFCO Municipal Service Review (MSR) Survey

Through the passage of the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000, LAFCOs are required to conduct special studies known as “Municipal Service Reviews (MSRs)” that regionally or sub-regionally examine future growth and how local agencies are planning for that future growth with regards to municipal services and infrastructure systems.

The following OC LAFCO MSR Survey has been designed to assist Orange LAFCO in collecting information and preparing an MSR for your agency. The deadline to complete the survey is **September 5, 2019**. The structure of the survey is designed for only one respondent per agency.

You must click the “next” button at the end of each page to save completed information.

1. Agency Information

Please provide the follow information:

- a. Agency Name & Address.

El Toro Water District
24252 Los Alisos Blvd.
Lake Forest, CA 92630

- b. Agency Website.

<https://etwd.com/>

- c. The municipal services your agency provides.

The El Toro Water District provides potable water service, recycled water service and wastewater collection, treatment and disposal service.

- d. Total number of employees.

60

- e. Total acreage or square miles within your agency’s service boundary.

The District’s service area encompasses approximately 5,430 acres or 8.5 square miles.

- f. Total population served.

Based on the most recent data (December, 2017) the District serves a population of 49,124 people.

- g. Total number of dwelling units within your agency's service boundary.

The District currently serves 24,941 residential dwelling units within its service area boundary.

2. **Growth and Population**

- a. Describe the population and development changes, if any, anticipated in the next 5 years within the agency's territory and/or surrounding areas.

The El Toro Water District service area is largely built out. There is little in the way of undeveloped land with the potential for further development or population increase. There is the potential for redevelopment that might lead to higher density developments resulting in population impacts of varying significance.

The most obvious example is the impending Five Lagunas Project which redevelops the Laguna Hills Mall property, potentially including several new apartment buildings in addition to commercial office and retail improvements. The District has engaged with the developer and has a clear understanding of the potential impacts on population and water supply. At the full build out the proposed project could add as many as 2,100 residential apartment units with the potential to increase the District's population by as many as 4,000 people. The full build out of the project, however, is likely to extend well beyond the next 5 years.

The District is not currently aware of any specific development projects that would lead to any other significant population growth within the District's service area.

- b. How are the identified population and development changes addressed in your agency's plans and documents for future services?

The District's primary objective relative to population and development changes is to ensure continuity of service for any new development without any compromise of service to the District's existing customers. The District's Urban Water Management Plan (UWMP) identifies long term water supply needs and resources. The District further evaluates the impact of population and development changes in periodic updates of the

Master Plan. The District has budgeted and is in the process of implementing a current Master Plan update.

Specific projects such as the Five Lagunas Project are subject to the requirement to prepare a Water Supply Assessment to further document the District's ability to meet the water supply needs of the project.

3. **Disadvantaged Unincorporated Communities (DUCs)**

OC LAFCO has identified and mapped DUCs located within the Sphere of Influence of the City of Anaheim, the City of Stanton, and the City of Westminster.

N/A

For a complete overview of DUCs you may visit our website at http://oclafco.org/wp-content/uploads/2019/08/Main_Page_Map_Final_3.pdf

- a. Identify any community(ies) within or adjacent to your agency's sphere of influence that are considered to be "DUC?"
- b. Are the DUCs within or adjacent to your agency's sphere of influence included in your agency's planning documents? If yes, please describe how.
- c. If your agency is not providing services to a DUC within or adjacent to its sphere of influence, is it feasible to extend services to that community(ies)? If yes, please describe how.

4. **Capacity and Adequacy of Public Facilities and Services**

Public Facilities and Infrastructure

- a. Describe how your agency's infrastructure needs are determined.

The District uses a variety of tools to inform decisions regarding infrastructure needs and replacements.

Master Plan - The District completed a detailed evaluation of the water and wastewater systems in a Master Plan effort completed in 2004. The 2004 Master Plan did not identify any capacity enhancement needs. Since that time the District's potable water demand has decreased by over 30% due to conservation and conversions to recycled water. Similarly, the wastewater flows in the District's collection system and at the Water Recycling Plant have declined by nearly 30%. The current infrastructure has adequate

capacity to meet existing demands as well as any growth currently anticipated. While the District is confident in the previous Master Plan's assessment of capacity, the District has budgeted for and is preparing to implement a new Master Planning effort in order to take advantage of current technology, update the demand data, and explore efficiencies that may be available in the current operation of the District facilities.

Capital Budget – The District updates a 5 year Capital Improvement Plan each year. The plan uses previous budgets, engineering evaluations and District Operator condition assessments to identify infrastructure replacement or improvement needs within the five year planning window.

Hydraulic Model – The District uses a detailed hydraulic model to evaluate system flows and capacities. The District has the capability of identifying any localized capacity constraints utilizing the model. The model and the demand data on which the model is based will be updated in the upcoming Master Plan study.

Asset Management Plan – As the District's system ages, replacement of infrastructure and equipment due to expiring useful service life will become a larger component of the near and long term capital plan. The District is planning to develop an Asset Management Plan as part of the upcoming Master Plan effort to provide necessary data for long term planning of capital replacement and funding requirements.

- b. If additional or upgraded infrastructure is required to accommodate growth, how will it be financed?

The District does not anticipate additional or upgraded infrastructure will be required to accommodate the currently foreseeable development or growth.

If capital improvements are required as the result of development a portion of the capital revenue to fund any required improvements is derived from the District's development fee structure with the balance being funded by the District's capital budget as necessary.

- c. Are there any changes or anticipated changes to state regulations that will require significant facility and/or infrastructure upgrades? If so, please describe.

No, the District is not aware of any changes or anticipated changes to state regulations that will require significant facility and/or infrastructure upgrades.

- d. What is the average age of your agency's water/sewer infrastructure lines?

The average age of the District's water/sewer infrastructure pipelines is approximately 40 years.

- e. Identify your agency's practices and policies regarding the replacement of infrastructure.

The District's infrastructure replacement is based on the District's Capital Budget. The Capital Budget process includes both a current year budget as well as a five year plan. The Capital Budget is approved by the Board of Directors as part of the annual budget process. Individual projects or equipment acquisitions within the capital budget then require management or Board approval prior to implementation in accordance with the District's Purchasing Policy.

Services

- f. Have there been any significant changes of level or types of service provided since the last comprehensive MSR? (Examples may include adding new services, transferring services to another agency, or eliminating services) If so, please describe.

Potable Water - Since the last MSR (2007) the District's potable water demand has decreased from an annual demand of 11,000 acre feet to 7,350 acre feet in the 2019-20 fiscal year. The demand reduction is the result of the District's aggressive water conservation public outreach and rebate program as well as the conversion of approximately 1,000 acre feet of potable water irrigation to recycled water irrigation.

Recycled Water - Since the last MSR the District has significantly expanded its recycled water program. At the time of the last MSR the District was providing approximately 400 acre feet per year of disinfected secondary

treated recycled water to the Laguna Woods Village Golf Course. In late 2014 the District completed a significant expansion of the Recycled Water system, adding over 100,000 feet of recycled water distribution system pipeline as well as a 3.7 million gallon per day tertiary treatment facility at the District's Water Recycling Plant. Beginning in early 2015 the District began a large scale effort to convert existing dedicated irrigation meters from potable water to the newly constructed recycled water distribution system. From 2015 into early 2016, 210 meters were converted to recycled water increasing the District's recycled water deliveries by approximately 1,000 acre feet per year with a corresponding reduction in the import of potable water.

The District recently completed a Phase II expansion of the Recycled Water Distribution System, adding over 28,000 feet of additional recycled water distribution pipeline which will enable the conversion of another 260 acre feet per year of potable irrigation to recycled water. The retrofits necessary to complete the conversion of approximately 65 meters to recycled water are on-going and expected to be complete by early 2020.

The District anticipates recycled water demand in the 2019-20 fiscal year amounting to 1,450 acre feet.

Wastewater - The District provides similar wastewater collection, treatment and disposal service as was described in the previous MSR. The volume of wastewater has decreased significantly due to water conservation by the District's customers. The District currently manages a wastewater influent at the Water Recycling Plant of approximately 3.8 million gallons per day down from approximately 5 million gallons per day at the time of the last MSR.

- g. What alternatives or enhancements has your agency implemented or is currently exploring to meet service demands of existing and future population growth or developments?

The limited population growth or development anticipated within the District's service area will be accommodated by existing infrastructure. The District has performed detailed analyses of the foreseeable potential development and associated population growth and concluded no capacity or facility enhancements are necessary.

- h. Has there been any concerns regarding the adequacy of providing and delivering public services? If yes, please describe.

Reliability of the service provided to the District's customers is one of the core missions of the District. The District has no concerns regarding the adequacy of providing and delivering the services for which it is responsible.

5. **Financial Ability**

- a. Describe your agency's policy involving reserves.

The District has an adopted Cash Reserve Policy. The policy defines both Board Mandated Minimum Reserves and Restricted Reserves.

Board Mandated Minimum Reserves – The Reserve Policy defines four categories of Board Mandated Reserves along with the following minimum levels for each.

Capital Reserves	\$3,000,000
Rate Stabilization	\$2,200,000
Operating Reserves	\$1,300,000
Working Capital	\$2,000,000
Total Board Mandated Reserves	\$8,500,000

Restricted Reserves – The District currently has five restricted reserve funds.

SRFL Phase I – This reserve is the equivalent of the annual payment for the SRF Loan that funded the District's Phase I Recycled Water Expansion Project as required by the SRF Loan Agreement.

SRFL Phase II – This reserve is the equivalent of the annual payment for the SRF Loan that funded the District's Phase II Recycled Water Expansion Project as required by the SRF Loan Agreement.

Baker Funding – This reserve was established during the development of the Baker Water Treatment Plant Project and is used to facilitate the District's debt obligations associated with capital investment in the Baker WTP.

Capital Facilities Reserve – This fund is a collection of development fees associated with new development or redevelopment in the District service area. The funds are held in this reserve until they are used for defined capital improvement projects.

Tiered Conservation Fund – The District potable water commodity rate is defined by a budget based tiered rate system consisting of four tiers. The revenue from Tier 3 and Tier 4, exceeding that derived from Tier 2, goes into the Tiered Conservation Fund. This fund is restricted for use on water supply and conservation projects.

- b. What is the current level of reserves?

The following table provides a description of the District’s reserve levels, as of July 31, 2019.

Board Mandated Reserves	\$8,500,000
Working Capital	\$5,411,894
Restricted Reserves	\$5,627,304
Total	\$19,539,198

The Restricted Reserves are summarized as follows.

SRFL Phase I	\$1,602,958
SRFL Phase II	\$409,046
Baker Funding	\$1,368,360
Capital Facilities Reserve	\$64,514
Tiered Conservation Fund	\$2,182,425
Total	\$5,627,304

- c. Has your agency conducted an independent audit in each of the last 5 years? If no, please explain.

Yes

- d. Describe any findings or issues identified by the auditor in the last 5 years.

The District’s Finance and Accounting team take pride in the fact that each audit report over the last 5 years have been absent of any exceptions, findings or issues.

Starting in 2016 the District prepared a Comprehensive Annual Financial Report (CAFR) and submitted it to the Government Finance Officers Association. The CAFR is a set of financial statements for a state, municipality or other governmental entity that comply with the accounting requirements established by the Governmental Accounting Standards Board (GASB). It must be audited by an independent auditor using generally accepted government auditing standards.

A regular annual financial report typically presents only basic financial statements about the government. A CAFR, by contrast, presents a wider variety of important information intended to help the reader properly understand the basic statements.

As a result, for 3 years in a row (2016, 2017, and 2018), the District has been awarded the Certificate of Achievement for Excellence in Financial Reporting.

- e. Describe all revenue sources (i.e., property taxes, special taxes, service charges, fees assessments, grants, bonds etc.) for your agency.

The District's Operations and Maintenance Budget is funded by the following revenue sources based on the 2019-20 fiscal year budget.

	Amount
Rate Revenue	
Water Commodity Charge	\$9,356,441
Water Fixed Meter Service Charge	\$3,621,504
Recycled Water Commodity Charge	\$1,686,426
Recycled Water Fixed Meter Service Charge	\$318,707
Sewer Charge	\$7,775,000
Rate Revenue Subtotal	\$22,758,078
Non Rate Revenue	
Property Taxes	\$925,000
Cellular Site Leases	\$230,000
MWD LRP Rebate	\$310,000
MNWD/SMWD Contract Services	\$135,440
Interest Income	\$200,000
Other	\$75,000
Non Rate Revenue Subtotal	\$1,875,440
Total	\$24,633,518

The District's capital program is funded from a capital charge in the District's rate structure that generates approximately \$3 million per year. Individual project funding may be supplemented by loans and grants as necessary and appropriate.

If capital improvements are required as the result of development a portion of the capital revenue is derived from the District's development fee structure.

- f. Has the agency modified the fee structure for any enterprise system since the last comprehensive MSR? If so, please describe the changes.

Potable Water Commodity Billing Rate

At the time of the 2007 MSR the District potable water billing was based on a flat commodity rate. In August, 2010 the District converted to a budget based tiered rate system. A per meter, customer specific water budget is calculated to meet the efficient demands of indoor domestic use as well as outdoor irrigation under normal operating and water supply conditions. The tiered system includes four tiers.

Tier I – Indoor – The indoor water budget is calculated based on occupancy at 55 gallons per person per day with varying default occupancies depending on the type of residence.

Tier II – Outdoor – The outdoor budget is calculated based on landscape area and current EvapoTranspiration data.

Tier III – Inefficient – The Tier I and Tier II water budgets combine to form the Total Water Budget. Water use in excess of the Total Water Budget is considered inefficient. Tier III ranges from 100% to 130% of the Total Water Budget.

Tier IV – Excessive. Water usage in excess of 130% of the Total Water Budget is considered excessive and is billed at the Tier IV rate.

The individual tiered billing rates are set annually by the District's Cost of Service Study as part of the annual budget process.

Recycled Water Commodity Billing Rate

At the time of the 2007 MSR the District was delivering recycled water only to the Laguna Woods Village Golf Course at a contractually determined rate. In 2015, as part of the Recycled Water Expansion Project and associated expansion of the recycled water customer base the District established a rate structure for all recycled water customers, inclusive of the Laguna Woods Village Golf Course. The recycled water commodity rate is a flat rate calculated at 90% of the potable water outdoor (Tier II) billing rate.

Wastewater Rate Structure

There have been no modifications to the wastewater fee structure the last comprehensive MSR.

- g. Is the agency currently exploring any fee structure changes for enterprise systems? If so, please describe.

No.

- h. Has the agency had any tax increases (e.g., sales, utility, transient occupancy tax, etc.) since the last comprehensive MSR? If so, please describe?

No.

- i. What is the agency's plan or policy for addressing its unfunded liabilities?

The District retirement plan is a defined contribution 401k plan. The District does not participate nor does it have any financial obligation or liability associated with the California Public Employees Retirement System.

The District's sole source of unfunded liabilities is the Other Post Employment Benefits (OPEB) associated with the District's obligation to health care benefits for retirees. Historically the District has managed this obligation on a "pay as you go" basis with a current budget for the 2019-20 fiscal year of \$294,594.

Based on a draft actuarial evaluation currently in progress, the long term OPEB liability is \$15,204,470. While the District has quite comfortably met the obligation through its annual budgeting process, the District is evaluating options for pre-funding a portion of the OPEB liability and staff is preparing to engage the District's Board of Directors for direction.

6. Shared Services and Facilities

- a. Describe any joint power agreements or arrangements with other agencies regarding shared facilities, infrastructure, or services.

SOCWA – The District owns capacity at the South Orange County Wastewater Authority Regional Treatment Plant for the processing and disposal of the solids generated in the District's treatment of wastewater. SOCWA is a Joint Powers Authority consisting of ten agencies that have joined together to enhance efficiencies by managing certain types of wastewater treatment as well as the ultimate disposal in ocean outfalls enhancing efficiencies for each of the member agencies. The District is engaged on a regular basis with SOCWA including participation on the SOCWA Board of Directors as well as the SOCWA Engineering and Finance Committees.

Baker WTP – The Baker Water Treatment Plant began operations in early 2017. The commencement of operations was the result of ten years of detailed collaborative planning by five south Orange County water agencies with the common goal of enhancing the reliability of the water supply on behalf of all their customers. The continued operation of the Baker WTP requires the on-going cooperation of the five participating agencies including the Irvine Ranch Water District, El Toro Water District, Moulton Niguel Water District, Santa Margarita Water District and Trabuco Canyon Water District.

El Toro (R-6) Reservoir – The El Toro Water District owns and operates the 275 million gallon capacity R-6 Reservoir, the largest covered drinking water reservoir in Orange County. In 2000 the District executed agreements with the Santa Margarita and Moulton Niguel Water Districts to make the Reservoir a truly regional facility. SMWD and MNWD continue as partners in the reservoir, sharing capacity as well as the on-going O&M and capital costs.

MNWD RW Master Plan – The District recently partnered with the Moulton Niguel Water District in MNWD’s Recycled Water Master Plan to explore opportunities for joint recycled water projects that might expand the use of recycled water in the service area of both agencies.

WEROC EOC – The Water Emergency Response Organization of Orange County (WEROC), which is administered by MWDOC, provides mutual aid planning assistance, and effectively trains member agency volunteers throughout the year, to coordinate and deliver skillful emergency response for all Orange County water and wastewater agencies. WEROC maintains an Emergency Operations Center (EOC) at an El Toro Water District facility in Mission Viejo.

Emergency Equipment – The District recently acquired an emergency potable water trailer as well as an emergency fuel trailer through WEROC that can be made available to other agencies during various emergency scenarios.

IRWD Sewage Splitter – The District and Irvine Ranch Water District have a long standing relationship to convey sewage generated in Lake Forest along the El Toro Road corridor to each agency proportionate to the discharge by each agency’s customers. Both ETWD and IRWD customers discharge sewage into a joint transmission pipeline. The pipeline terminates at a splitter structure that splits the flow proportionately into two pipelines that diverge into the ETWD and IRWD systems for final conveyance to each agency’s wastewater treatment plants.

Interconnections – The District maintains emergency interconnections with Irvine Ranch Water District, Moulton Niguel Water District, Santa Margarita Water District and Trabuco Canyon Water District. These interconnections, some of which can flow in either direction, provide emergency reliability to the benefit of all of these agencies’ customers.

Regular Meetings – The District meets on a regular basis with both staff and Board members of its neighboring agencies to discuss similar interests, challenges and potential collaborations to provide the most efficient service possible to the residents of south Orange County.

Import Water System – The import water system is an example of regional cooperation and shared services. The agencies in south Orange County, where there is little to no groundwater, are customers of the regional water

treatment and transmission system operated by the Metropolitan Water District of Southern with the Municipal Water District of Orange County serving as the wholesale agency.

The District has a long history of regional cooperation to the mutual benefit of its partner agencies. In the past the District has performed sewer line cleaning for Santa Margarita Water District, provided boom truck support to the Moulton Niguel Water District, partnered with Irvine Ranch Water District on recycled water master plan efforts and worked with Santa Margarita Water District personnel to provide construction management services on an ETWD sewer lift station construction project. The District remains in a near constant state of engagement with its peers and colleagues to continue to evaluate opportunities for regional collaboration on equipment needs, emergency response and water supply reliability projects.

- b. Are there any additional opportunities for sharing facilities, infrastructure, or services that your agency is currently analyzing or would like to explore in the future? If so, please describe.

WEROC EOC - The District and WEROC are currently discussing options for a partnership in improvements at the site that will allow WEROC to maximize the benefit and functionality of their EOC while the District accomplishes collateral objectives with the existing facilities.

Oso Overflow Agreement - The District is in the process of completing an agreement with the Moulton Niguel Water District that will allow the discharge of wastewater to the MNWD collection system in the event of a failure of one of the District's sewer pump stations. This Agreement will provide an important backup that will minimize the potential greater cost of other expensive reliability measures.

South County Pipeline Turnout - The District is collaborating with the Moulton Niguel Water District on the potential development of a joint turnout facility on the South County Pipeline in Mission Viejo.

7. Accountability, Structure, and Efficiencies

- a. How does your agency proactively provide access to all public meetings, website, and other public information?

The District uses a variety of tools to engage the public. All agendas and reference material for the District's Board meetings are posted on the District's website prior to the meeting. In addition, agendas are publicly posted outside the District's office.

The ETWD website (<https://etwd.com/>) includes a wide variety of additional information including Board meeting minutes, budgets, Cost of Service studies, 218 Notices, Water Quality reports, planning documents, rebate and conservation program information and an assortment of other information regarding the District.

In addition the District provides periodic newsletters, conducts quarterly meetings with customer groups and appears monthly on a television program within Laguna Woods Village covering specific relevant topics.

The District further engages customers with targeted updates regarding construction projects in affected neighborhoods. In fact, the District was awarded the 2016 Clair A. Hill Agency Award for Excellence by the American Water Works Association for the District's public outreach program associated with the Phase I Recycled Water Expansion Project.

- b. Describe your agency's programs and activities to proactively to comply with financial disclosure laws and the Brown Act?

The District makes information available to the public on its website. In addition to all Board agendas, reference material and minutes, the website includes extensive financial information including budgets, audited financial statements, financial policy information and employee and Board compensation information. The District's efforts in this regard have resulted in the award of several consecutive District Transparency Certificates of Excellence by the Special District Leadership Foundation.

The District's efforts regarding fiscal responsibility and adherence to all current relevant policies and procedures as well as the ongoing participation of the District's Board members and executive staff in training in ethics, governance and leadership have continued to earn the accreditation of a District of Distinction from the Special District Leadership Foundation. The El Toro Water District was the first independent water

special district to earn the District of Distinction honor. The District was first recognized as a District of Distinction in 2007 and has unfailingly been reaccredited as such in each biannual accreditation process since the original award.

- c. What administrative, management, and operational functions are provided to the agency by private companies or other public agencies? Explain how these arrangements have resulted in cost savings or operational efficiencies for your agency?

The District outsources certain non-core or non-recurring functions that don't efficiently warrant the utilization of the District's labor resources. These include recurring efforts such as janitorial services, landscape maintenance services. In addition, the District uses consulting engineers and contractors for larger engineering design or study projects as well as the construction of infrastructure projects. It is far more efficient to utilize private companies for these efforts as opposed to maintaining a labor force that could accomplish these types of projects but would not be efficiently utilized on a daily basis.

- d. Describe any changes in the structure of the agency's governing board since the last comprehensive MSR.

There have been no changes to the structure of the District's Board since the last MSR. All five Board members, however, have changed since the 2007 MSR.

8. Other issues

- a. What determinations, if any, that were identified in your agency's last MSR have changed or been addressed? If any changes, please describe.

N/A

- b. Are there any other matters that the agency would recommend be discussed as part of the OC LAFCO sphere and MSR review process? If yes, please list them.

N/A

9. **Sphere of influence**

Your agency's Sphere of Influence, is adopted by OC LAFCO and is available on OC LAFCO's website: <http://www.oclafco.org/index.php/sphere-of-influence-maps/>

N/A

- a. If your agency is proposing a sphere amendment(s), please attach a map and provide a justification. After an analysis of your request, to amend your agency's sphere of influence, OC LAFCO will issue secondary questionnaire related to the proposed change.

10. **Request for Documents**

In order to collect data for use in the MSRs, please provide a hard copy or link to the following documents:

- Mission Statement
- Organizational Chart
- Audited Financial Statements (most recent 5 years)
- Annual Budget (most recent 5 years)
- Adopted reserve policy
- Rate study(ies) (most recent 5 years)
- Current JPA Agreements with other public agencies
- General Plan and Specific Plan(s)
- Capital Improvement Program
- Master Plan
- Map (s) of agency service areas



Executive Committee Meeting

Tuesday, September 3, 2019

7:30 a.m.

Municipal Water District of Orange County, Conference Room C3 (near the Board Room)

AGENDA

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

Executive Committee

President
Hon. Sandra Jacobs
Santa Margarita Water District

1st Vice President
Hon. Mark Monin
El Toro Water District

2nd Vice President
Hon. Arlene Schafer
Costa Mesa Sanitary District

3rd Vice President
Hon. Mary Aileen Matheis
Irvine Ranch Water District

Secretary
Hon. William "Bill" Green
South Coast Water District

Treasurer
Hon. Joan C. Finnegan
Municipal Water District of Orange County

Immediate Past President
Hon. James Fisler
Mesa Water District

Staff Administration

Heather Baez
Municipal Water District of Orange County

Christina Hernandez
Municipal Water District of Orange County

I. Welcome, Introductions – 7:30 am

[Please silence cell phones]

II. Approval of Minutes – 7:35 am

- Consider approval of the minutes for the August 6, 2019 meeting.

III. Public Comments on items not on the agenda- 7:40 am

IV. New Business – 7:45 am

- **OC Workshop Option:** ISDOC/CSDA could bring an Ethics/Form 700 workshop to Orange County (Chris Palmer)

V. Treasurer's Report – Joan Finnegan/Saundra Jacobs – 7:55 am

- August report of former and new accounts.

VI. CSDA Report –Arlene Schafer/Bill Nelson – 8:00 am

- Receive, discuss and file the CSDA Report

VII. LAFCO Report –Jim Fisler– 8:05 am

- Receive, discuss and file the LAFCO report

VIII. ACWA Report – Saundra Jacobs – 8:10 am

- Receive, discuss and file the ACWA report. Report on Region 10 Elections

IX. OCCOG Report – Mike Schaefer – 8:15 am

- Receive, discuss and file OCCOG report

X. Orange County Operational Area Report (Mark Monin)- 8:20 am

- Receive, discuss and file OCCA report

X. Subcommittee Reports – 8:25 am

- Programs (Mark Monin)
 - Discuss speaker for October 24, 2019 quarterly membership meeting, Lisa Bartlett.
- Membership (Arlene Schafer)
- Legislative (Mary Aileen Matheis)
 - Discuss and consider taking action on proposed legislation of interest to Special Districts.
- Scholarship Committee Update (Saundra Jacobs)
- OCOA Update (Mark Monin)

XI. Adjourn – 8:35 am

Next Executive Committee Meeting: Tuesday, October 2, 2019

Next ISDOC Quarterly Meeting: October 24, 2019



ISDOC Executive Committee

August 2, 2019

Minutes

I. Welcome

President Sandra Jacobs called the meeting to order at 7:30 a.m.

Sandra Jacobs, President (SMWD)

Mark Monin, 1st Vice President (ETWD)

Mary Aileen Matheis, 3rd Vice President (IRWD)

Bill Green, Secretary (SCWD)

Joan Finnegan, Treasurer (MWDOC)

Jim Fisler, Past President (Mesa WD/LAFCO)

Others Present:

Mike Gaskins (ETWD)

Bill Nelson (OCCD/CSDA)

Mike Schaefer (CMSD)

Larry Dick (MWDOC)

Chris Palmer (CSDA)

Carolyn Emery (LAFCO)

Kelly Hubbard (MWDOC)

Heather Baez (MWDOC)

Jody Brennan (SCWD)

II. Minutes

1. The minutes of the July 2, 2019 meeting were reviewed. Upon a motion by Mark Monin and second by Jim Fisler, the minutes were unanimously approved.

III. Public Comments

None

IV. New Business

Kelly Hubbard presented the draft updated Orange County Operation Area (OCA) Agreement. The revisions primarily updated the agreement with current terms and agency names. Each OCA agency (approximately 140) will need to go to their Board for approval on the revised agreement once it's finalized. Kelly Hubbard has been the ISDOC Representative on OCA. Due to her departure from MWDOC, ISDOC needs to identify a new representative. Upon a motion by Joan Finnegan, seconded by Bill Green, Karl Seckel was named as the OCA ISDOC Representative, Mark Monin as the Alternate OCA ISDOC Representative and Joan Finnegan as the 2nd Alternate OCA ISDOC Representative. Motion passed. Kelly Hubbard reported the next OCA meeting is August 14.

V. Treasurer's Report

1. Joan Finnegan is working with finance and will have a Treasurer's Report in September. Sandra Jacobs provided a financial update of the new Union Bank account reporting the balance is \$1,438.47.

VI. CSDA Report

1. Bill Nelson reported on the following CSDA activities:
 - a. 2019 CSDA Annual Conference will be held in Anaheim from September 25 – 28, 2019 – early discount is approaching. It is the 50th Anniversary with a Commemorative Program. The conference will have a Board Member breakfast session.
 - b. Southern California Edison has a new program to provide free charging stations to Special District's with electric fleet vehicles.
 - c. CSDA Student Video Contest ends Sept. 30. Chris Palmer requested ISDOC and ISDOC members assist in promoting the contest.
A motion was made by Mary Aileen Matheis, seconded by Joan Finnegan for ISDOC to support the CSDA student Video Contact as a host and advocating for the contest. Motion passed.
 - d. CSDA Scholarship – Larry Dick expressed opposition to the scholarship program. Jim Fisler suggested criteria for eligibility be developed. Bill Green suggested that in the event there are no applicants for the scholarship program, there could be a reduction or elimination of ISDOC members dues with the funds.

VII. LAFCO Report

1. Jim Fisler reported there was no meeting in July. Next meeting is August 14.

VIII. ACWA Report

1. Sandra Jacobs reported on the following ACWA activities:

- a. ACWA Region 10 recently held their regional event; the topic was disadvantaged communities.
- b. A request for interest on serving on an ACWA Subcommittee is due the end of September.

IX. OCCOG Report

1. Mike Schaefer reported the July 25 meeting. The budget was passed without a dues increase though they are in a deficit; a proposed 7% dues increase and proposed \$120 stipend for Board members did not pass; and OCCOG will be rebranding their logo. There was a clarification that the ISDOC representatives on OCCOG are Mike Schaefer, 1st Alternate is Joan Finnegan and 2nd Alternate is Mark Monin.

X. Subcommittee Reports

1. Programs: Mark Monin reported on the 2019 ISDOC Quarterly Luncheons as follows:
 - a. October 24, 2019 – Supervisor Bartlett is confirmed as the speaker. Her presentation will include how the County and Special Districts can work together.
 - b. Potential speakers/topics for 2020 were discussed including WEROC, WACO panel, panel discussion on partnerships throughout the County, Harassment/Ethics training/Form 700 and Form 460 training, Neal Kelley of the Registrar of Voters, and Assemblywoman Cottie Petrie-Norris.
2. Membership: None
3. Legislative Update was provided by Mary Aileen Matheis and Chris Palmer:
 - a. The legislature is out of session, Orange County worked together on the gas tax issue and an update on ACA 1 and SB 13 was provided.

XI. Adjourn

1. The meeting adjourned at 8:50 in memory of Irv Pickler, a decorated World War II veteran who served on the Anaheim City Council and numerous city and nonprofit boards throughout his life. He passed away on July 17 at the age of 98.
2. The next meeting will be held on September 3, 2019 at 7:30 am.



AGENDA

Friday, September 6, 2019

7:30 a.m. - 9:00 a.m.

Doors open at 7:00 a.m.

OCWD/MWDOC JOINT BOARD ROOM
18700 Ward Street, Fountain Valley

Mailing Address

P.O. Box 8300
Fountain Valley, CA 92708

Meeting Location

18700 Ward Street
Fountain Valley, CA 92708

(714) 378-3200
(714) 963-0291 fax

www.ocwd.com/news-events/events/waco
www.mwdoc.com/waco

Officers

Chair

Hon. Jim Atkinson
Mesa Water District

Vice Chair

Hon. Cathy Green
Orange County Water District

Staff Contacts

Alicia Dunkin
Orange County Water District

Heather Baez
Municipal Water District of Orange County

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Pledge of Allegiance

Announcements & Introductions

- Jim Atkinson, Mesa Water District

Reports

- Association of California Water Agencies (ACWA) Report – Cathy Green, Orange County Water District
- Metropolitan Water District of Southern California Report – Linda Ackerman, Metropolitan Water District of Southern California

Program: PFAS – What's Happening Now

- Jason Dadakis, P.G., C.HG, Executive Director of Water Quality and Technical Resources, Orange County Water District

Adjourn

Next WACO Meeting

Friday, October 4, 7:30 a.m. @ OCWD/MWDOC Joint Boardroom

Next WACO Planning Committee Meeting

Tuesday, September 17, 7:30 a.m. @ MWDOC 101



WACO Planning Committee
Tuesday, September 17, 2019
7:30 A.M.

AGENDA

ACTION ITEMS

1. 2020 WACO calendar
 - Review dates for conflict. Ok to publish?
2. November 1: Forests to Faucets
 - Decide speaker(s) to invite
 - Potential speaker: Marie Davis, Geologist and Consultant, Placer County Water Agency
 - Potential introductory speaker: Jim Atkinson, Mesa Water District, or John Kingsbury, Mountain County Resources Association, or someone else
 - Discuss questions and topics to be addressed during presentation

Mailing Address

P.O. Box 20895
Fountain Valley, CA 92728

Meeting Location

18700 Ward Street
Fountain Valley, CA 92708

(714) 378-8232
(714) 963-0291 fax

www.mwdoc.com/waco
www.ocwd.com/news-events/events/waco

DISCUSSION ITEMS

1. Discuss proposed meeting topics and decide whether to schedule for a future meeting or to remove from list
 - Governor's Resiliency Plan (January)
 - Women in Water
 - Delta Tunnel
 - Ducks Unlimited
 - The Future of Power / Tri Alpha Energy
 - The Challenges of Wholesalers
 - Fluoride in Water
 - Homeless Impacts on Water
 - Water: An International View
2. Feedback of September 6 meeting
 - Jason Dadakis, PFAS

Officers

Chair

Hon. Jim Atkinson
Mesa Water District

Vice Chair

Hon. Cathy Green
Orange County Water District

Staff Contacts:

Alicia Dunkin
Orange County Water District

Heather Baez
Municipal Water District of Orange County

INFORMATIONAL ITEMS

1. October 4
 - Doug Headrick, General Manager, San Bernardino Valley Municipal Water District (confirmed)
 - TBD, Inland Empire Utilities Agency
 - Shivaji Deshmukh invited but may not be available
 - TBD, Western Municipal Water District
 - Craig Miller invited but not available

ADJOURN



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AGENDA
Quarterly Utility Coordination Meeting
Wednesday, August 28, 2019 – 10:00 A.M. - 11:00 A.M.
City of Lake Forest City Hall
El Toro Conference Room (1st Floor)

1. Introductions
2. City Projects (Taylor Abernathy)
 - a. Santiago Canyon Road Safety Improvements
 - Current Status – County Lead Project, Anticipate Construction End of 2020
 - b. 2019 Citywide Roadway Improvement Project
 - Dimension Drive Street Improvements
 - Civic Center Drive Street Improvements
 - Portola Parkway Street Improvements
 - Serrano Summit – Civic Center Drive Roadway and Signal Improvements
 - Serrano Summit – Civic Center Drive Landscaping Improvements
 - TCWD Dimension Drive Driveway Improvements
 - i. Current Status –Construction started May 2019
 - c. Portola Park
 - Current Status – Pre-construction Meeting forthcoming
 - d. I-5 Interchange Signs
 - Current Status – Potholing, Utility Relocations required, Bidding thereafter
 - e. Raised Median Improvements and Repairs
 - Current Status – Pending construction start date
 - f. Bake Parkway Trabuco/ Irvine (Ultimate)
 - Current Status – In Design, Anticipate Design and R/W by end of FY 2019-20; Construction TBD
 - g. El Toro Road and Portola/ Santa Margarita
 - Current Status – In preliminary design, Anticipate Final Design and R/W by end of FY 2019-20; Construction TBD
 - h. 7 Year Street Overlay / Slurry Program -
Next Slurry Seal Zones:
 - Zone C (FY 2019-20); Anticipated Spring 2020
 - Zone G (FY 2020-21)
 - Zone F (FY 2021-22)
 - i. 7 Year Street Overlay / Slurry Program -
 - Resurfacing Project Locations:
 - i. Toledo Way, Ridge Route, and Serrano; Anticipated Spring 2020
 - j. Civic Center Planning -
 - Rough Grading complete
 - Parking Deck complete
 - Civic Center Drive Improvements – In construction

- SCE Applications (Expedited Request)
- Buildings - In construction
- k. Upcoming CIP FY 2019-21
 - Review 2019-2021 CIP
- 3. Development Activity in Lake Forest (Doug Erdman)
 - a. Portola Center (930 total homes)
 - Northwest – (81 Lots) – Substantially complete (Paving of Saddleback Ranch Rd between Millwood Rd and Glenn Ranch Rd –Summer 2019)
 - South – (626 Lots) - Grading, home building
 - Northeast – (223 Lots) – Grading, Street and Utilities
 - b. Shea Baker (2,392 homes total) –Six tracts under construction
 - c. Serrano Summit – In tract grading, streets, and model's
 - d. Teresina –Grading, Street, Utilities and model's
- 4. Blanket/Annual Permits (Doug Erdman) The City still requires notification if you are doing work, even if it is under the blank or annual permits.
 - a. Notification Forms
 - b. 24 hour minimum notice required
 - c. Job tracking not provided
- 5. Encroachment Permits
 - a. Please identify the number of days required to do the work including the restoration work
 - b. Please make sure to identify nightwork on the applications
 - c. If something changes after EP approval you will need to revise EP
 - d. Fees are increased for this as it is a hard cost to the City
- 6. Traffic Control Requirements related to Encroachment Permits
 - a. Use of WATCH Manual, Joint Utilities Manual, or CATTCH requires submitting location map and plan number(s) to be used
 - b. Include exhibit pages with the application for record purposes
- 7. Sidewalk Inspection / Utility Lids (Matt Reagan)
 - a. Damaged utility lids identified in sidewalk hazard inspection.
Public Works Inspector to coordinate with utilities on replacements
- 8. Pavement Moratorium -
 - a. City's Pavement Moratorium is included in all Encroachment Permits

Quarterly Utility Coordination Meeting Agenda

August 28, 2019

Page 3 of 3

- b. A list of streets that are under moratorium are:
 - Slurry Seals
 - i. Zone D (11/2017),
 - ii. Zone E (4/5/2018), and
 - iii. Zone B (4/2019)
 - Arterial Streets
 - i. Alton Parkway (Portola to Rancho South) (8/2017)
 - ii. Portola Parkway (Alton to El Toro Road) (7/2017)
 - iii. Bake Parkway (Portola to Lake Forest) (12/2014)
 - iv. Los Alisos (I-5 to easterly City Limit) (12/2014)
 - v. El Toro Road (Bridger to I-5) (12/2014)
 - vi. Trabuco Rd (Lake Forest to Peachwood) (4/2019)
 - vii. Saddleback Rd (Millwood to Glenn Ranch Rd) (Upcoming)
- 9. Status reports on projects from utility companies; new projects/project updates
 - a. **AT&T –**
 - b. **COX Communications –**
 - c. **El Toro Water District –**
 - d. **Irvine Ranch Water District –**
 - e. **Southern California Gas Company –**
 - f. **Southern Calif. Edison Company –**
 - g. **Trabuco Canyon Water District –**
- 10. Next Meeting (11/27/2019 at 10:00 a.m.)

DATES TO REMEMBER
SEPTEMBER/OCTOBER 2019

1. Sept 25-28 – CSDA Conference (Anaheim)
2. Sept 26-Oct 13 – Gaskins Vacation
3. Sept 27 – 8:00 am. – TV-6 (Freshley)
4. Sept 27 – DISTRICT OFFICE CLOSED
5. Sept 28 – 9:00 a.m. – UC ANR Urban Living Education Expo
6. Oct 1 – 10:00 a.m. – RRC Meeting
7. Oct 1 – 7:30 a.m. – ISDOC Executive Committee
8. Oct 2 – 8:30 a.m. – MWDOC/MET Directors Workshop
9. Oct 3 – 8:30 a.m. – SOCWA Board Meeting
10. Oct 4 – 7:30 a.m. – WACO
11. Oct 4 – 12 noon – Chair/GM Meeting
12. Oct 4-6 – Havens – State Water Tour (MWDOC)
13. Oct 7 – 8:30 a.m. – MWDOC Planning/Operations Committee
14. Oct 7 – 1:30 p.m. – SOCWMA Management Committee Meeting
15. Oct 9 – 8:30 a.m. - LAFCO
16. Oct 9 – 8:30 a.m. – MWDOC Admin/Finance Meeting
17. Oct 11 – DISTRICT OFFICE CLOSED
18. Oct 14 – 7:30 a.m. – Agenda Review
19. Oct 15 – 7:30 a.m. – WACO Planning Committee
20. Oct 16 – 8:30 a.m. – MWDOC Board Meeting
21. Oct 16 – 11:30 a.m. – OCWA Luncheon
22. Oct 18 – 12 noon – Chair/GM Meeting
23. Oct 19 – 9:00 a.m. – South County Disaster Expo
24. Oct 21 – AWWA Conference (San Diego)
25. Oct 21 – 8:30 a.m. – MWDOC Public Affairs Meeting

26. Oct 22 – 7:30 a.m. – Regular Engineering and Finance Committee Meetings
27. Oct 23 – 8:00 a.m. – 5:00 p.m. – Strategic Plan Interviews (ETWD)
28. Oct 24 – 7:30 a.m. – Regular Board Meeting
29. Oct 24 – 11:30 a.m. – ISDOC Quarterly Luncheon
30. Oct 24 – 5:30 p.m. – South Orange County Economic Coalition Meet/Greet
31. Oct 25 – DISTRICT OFFICE CLOSED
32. Oct 25 – 8:00 a.m. – TV-6 (TBD)
33. Oct 31 – 9:00 a.m. – 3:00 p.m. – Strategic Plan Workshop (Time and Location TBD)

EL TORO WATER DISTRICT

Glossary of Water Terms

Accumulated overdraft: The amount of water necessary to be replaced in the intake area of the groundwater basin to prevent the landward movement of ocean water into the fresh groundwater body.

Acre-foot, AF: A common water industry unit of measurement. An acre-foot is 325,851 gallons, or the amount of water needed to cover one acre with water one foot deep. An acre-foot serves annual needs of two typical California families.

ACWA: Association of California Water Agencies.
A statewide group based in Sacramento that actively lobbies State and Federal Government on water issues.

Advanced treatment: Additional treatment processes used to clean wastewater even further following primary and secondary treatment. Also known as tertiary treatment.

AFY: Acre-foot per year.

Alluvium: A stratified bed of sand, gravel, silt, and clay deposited by flowing water.

AMP: Allen McCulloch pipeline.

Major pipeline transporting treated water to water districts between Yorba Linda, where it starts to El Toro Water District reservoir, where it terminates.

Annexation: The inclusion of land within a government agency's jurisdiction.

Annual overdraft: The quantity by which the production of water from the groundwater supplies during the water year exceeds the natural replenishment of such groundwater supplies during the same water year.

Aqueduct: A man-made canal or pipeline used to transport water.

Aquifer: An underground geologic formation of rock, soil or sediment that is naturally saturated with water; an aquifer stores groundwater.

Arid: Dry; deserts are arid places. Semi-arid places are almost as dry as a desert.

Artesian: An aquifer in which the water is under sufficient pressure to cause it to rise above the bottom of the overlying confining bed, if the opportunity is provided.

Artificial recharge: The addition of surface water to a groundwater reservoir by human activity, such as putting surface water into recharge basins. (See also: groundwater recharge and recharge basin.)

AWWA American Water Works Association
Nationwide group of public and private water purveyors and related industrial suppliers.

Base flow: The portion of river surface flow which remains after deduction of storm flow and/or purchased imported water.

Bay-Delta: The Sacramento-San Joaquin Bay-Delta is a unique natural resource of local, state and national significance. The Delta is home to more than 500,000 people; contains 500,000 acres of agriculture; provides habitat for 700 native plant and animal species; provides water for more than 25 million Californians and 3 million acres of agriculture; is traversed by energy, communications and transportation facilities vital to the economic health of California; and supports a \$400 billion economy.

BIA: Building Industry Association.

Biofouling: The formation of bacterial film (biofilm) on fragile reverse osmosis membrane surfaces.

Biosolids: Solid organic matter recovered from a sewage treatment process and used especially as fertilizer.

BMP: Best Management Practice. An engineered structure or management activity, or combination of these, that eliminates or reduces adverse environmental effects.

Brackish water: A mixture of freshwater and saltwater.

Brown Act: Ralph M. Brown Act enacted by the State legislature governing all meetings of legislative bodies. Also known as the Open Meeting requirements.

Canal: A ditch used to move water from one location to another.

CASA: California Association of Sanitation Agencies The sanitation equivalent of ACWA concerned solely with issues affecting the treatment and disposal of solid waste and wastewater.

CEQA: California Environmental Quality Act.

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act. This federal law establishes the Superfund program for hazardous waste sites. It provides the legal basis for the United States EPA to regulate and clean up hazardous waste sites, and if appropriate, to seek financial compensation from entities responsible for the site.

CFS: Cubic feet per second.

Chloramines: A mixture of ammonia and chlorine used to purify water.

Clarify: To make clear or pure by separation and elimination of suspended solid material.

Coagulation: The clumping together of solids so they can more easily be settled out or filtered out of water. A chemical called aluminum sulfate (alum) is generally used to aid coagulation in water treatment and reclamation.

Coastkeepers: A non-profit organization dedicated to the protection and preservation of the marine habitats and watersheds of Orange County through programs of education, restoration, enforcement and advocacy.

Colored water: Groundwater extracted from the basin that is unsuitable for domestic use without treatment due to high color and odor exceeding drinking water standards.

Condensation: The process of water vapor (gas) changing into liquid water. An example of condensation can be seen in the tiny water droplets that form on the outside of a glass of iced tea as warmer air touches the cooler glass.

Confined aquifer: An aquifer that is bound above and below by dense layers of rock and contains water under pressure.

Conjunctive use: Storing imported water in a local aquifer, in conjunction with groundwater, for later retrieval and use.

Contaminate: To make unclean or impure by the addition of harmful substances.

CPCFA: California Pollution Control Financing Authority. State agency providing funds for wastewater reclamation projects.

Crisis:

1. **a:** The turning point for better or worse **b:** a paroxysmal attack of pain, distress, or disordered function **c:** an emotionally significant event or radical change of status in a person's life <a midlife crisis>
2. The decisive moment (as in a literary plot)
3. **a:** An unstable or crucial time or state of affairs in which a decisive change is impending; *especially* : one with the distinct possibility of a highly undesirable outcome <a financial crisis> **b:** a situation that has reached a critical phase

CTP Coastal Treatment Plant

CWPCA California Water Pollution Control Association. A 7000 member non-profit educational organization dedicated to water pollution control.

Dam: A barrier built across a river or stream to hold water.

Decompose: To separate into simpler compounds, substances or elements.

Deep percolation: The percolation of surface water through the ground beyond the lower limit of the root zone of plants into a groundwater aquifer.

Degraded water: Water within the groundwater basin that, in one characteristic or another, does not meet primary drinking water standards.

Delta: Where the rivers empty; an outlet from land to ocean, also where the rivers deposit sediment they carry forming landforms.

Delta Vision: Delta Vision is intended to identify a strategy for managing the Sacramento-San Joaquin Delta as a sustainable ecosystem that would continue to support environmental and economic functions that are critical to the people of California.

Demineralize: To reduce the concentrations of minerals from water by ion exchange, distillation, electro-dialysis, or reverse osmosis.

De-nitrification: The physical process of removing nitrate from water through reverse osmosis, microfiltration, or other means.

Desalting (or desalination): Removing salts from salt water by evaporation or distillation. Specific treatment processes, such as reverse osmosis or multi-stage flash distillation, to demineralize seawater or brackish (saline) waters for reuse. Also sometimes used in wastewater treatment to remove salts other pollutants.

Desilting: The physical process of removing suspended particles from water.

Dilute: To lessen the amount of a substance in water by adding more water.

Disinfection: Water treatment which destroys potentially harmful bacteria.

Drainage basin: The area of land from which water drains into a river, for example, the Sacramento River Basin, in which all land area drains into the Sacramento River. Also called catchment area, watershed, or river basin.

Drought: A prolonged period of below-average precipitation.

DPHS: California Department of Public Health Services. Regulates public water systems; oversees water recycling projects; permits water treatment devices; certifies drinking water treatment and distribution operators; supports and promotes water system security; provides support for small water systems and for improving technical, managerial, and financial (TMF) capacity; provides funding opportunities for water system improvements.

DVL: Diamond Valley Lake. Metropolitan's major reservoir near Hemet, in southwestern Riverside County.

DWR: California Department of Water Resources. Guides development/management of California's water resources; owns/operates State Water Project and other water facilities.

Endangered Species: A species of animal or plant threatened with extinction.

Endangered Species Act of 1973 (ESA): The most wide-ranging of the dozens of United States environmental laws passed in the 1970s. As stated in section 2 of the act, it was designed to protect critically imperiled species from extinction as a "consequence of economic growth and development untended by adequate concern and conservation.

Ecosystem: Where living and non-living things interact (coexist) in order to survive.

Effluent: Wastewater or other liquid, partially or completely treated or in its natural state, flowing from a treatment plant.

Evaporation: The process that changes water (liquid) into water vapor (gas).

Estuary: Where fresh water meets salt water.

Evapotranspiration: The quantity of water transpired (given off), retained in plant tissues, and evaporated from plant tissues and surrounding soil surface. Quantitatively, it is expressed in terms of depth of water per unit area during a specified period of time.

FCH Federal Clearing House – Environmental Review/Processing

FEMA Federal Emergency Management Agency

Filtration: The process of allowing water to pass through layers of a porous material such as sand, gravel or charcoal to trap solid particles. Filtration occurs in nature when rain water soaks into the ground and it passes through hundreds of feet of sand and gravel. This same natural process of filtration is duplicated in water and wastewater treatment plants, generally using sand and coal as the filter media.

Flocculation: A chemical process involving addition of a coagulant to assist in the removal of turbidity in water.

Forebay: A reservoir or pond situated at the intake of a pumping plant or power plant to stabilize water level; also, a portion of a groundwater basin where large quantities of surface water can recharge the basin through infiltration.

Gray water reuse: Reuse, generally without treatment, of domestic type wastewater for toilet flushing, garden irrigation and other non-potable uses. Excludes water from toilets, kitchen sinks, dishwashers, or water used for washing diapers.

Green Acres Project (GAP): A 7.5 million gallons per day (MGD) water reclamation project that serves tertiary treated recycled water to irrigation and industrial users in Costa Mesa, Fountain Valley, Huntington Beach, Newport Beach, and Santa Ana.

God Squad: A seven-member committee that is officially called the "Endangered Species Committee". Members consist of Secretary of the Interior, the Secretary of Agriculture, the Secretary of the Army, the Chairman of the Council of Economic Advisers, the Administrator of the National Oceanic and Atmospheric Administration and one individual from the affected state. The squad was established in 1978 by an amendment to the 1973 Endangered Species Act (ESA). It has only been called into action three times to deal with proposed federal agency actions that have been determined to cause "jeopardy" to any listed species. Such actions may receive an exemption from the ESA if five members of the committee determine that the action is of regional or national significance, that the benefits of the action clearly outweigh the benefits of conserving the species and that there are no reasonable and prudent alternatives to the action.

Groundwater: Water that has percolated into natural, underground aquifers; water in the ground, not water puddled on the ground.

Groundwater basin: A groundwater reservoir defined by the overlying land surface and the underlying aquifers that contain water stored in the reservoir. Boundaries of success-ively deeper aquifers may differ and make it difficult to define the limits of the basin.

Groundwater mining: The withdrawal of water from an aquifer in excess of recharge over a period of time. If continued, the underground supply would eventually be exhausted or the water table could drop below economically feasible pumping lifts.

Groundwater overdraft: The condition of a groundwater basin in which the amount of water withdrawn by pumping exceeds the amount of water that recharges the basin over a period of years during which water supply conditions approximate average.

Groundwater recharge: The action of increasing groundwater storage by natural conditions or by human activity. See also: Artificial recharge.

Ground Water Replenishment System (GWRS): A joint project of the Orange County Water District and the Orange County Sanitation District that will provide up to 100,000 acre-feet of reclaimed water annually. The high-quality water will be used to expand an existing underground seawater intrusion barrier and to replenish the groundwater basin underlying north and central Orange County.

Groundwater table: The upper surface of the zone of saturation (all pores of subsoil filled with water), except where the surface is formed by an impermeable body.

GPM: Gallons per minute.

Ground Water Replenishment System (GWRS): Orange County Water District's state-of-the-art, highly advanced, waste-water treatment facility.

Hydrologic balance: An accounting of all water inflow to, water outflow from, and changes in water storage within a hydrologic unit over a specified period.

Hydrologic cycle: The process of water constantly circulating from the ocean, to the atmosphere, to the earth in a form of precipitation, and finally returning to the ocean.

Imported water: Water that has originated from one hydrologic region and is transferred to another hydrologic region.

Inflatable rubber dams: Designed to replace temporary sand levees that wash out during heavy storm flow, the dams hold back high-volume river flows and divert the water into the off-river system for percolation.

Influent: Water or wastewater entering a treatment plant, or a particular stage of the treatment process.

Irrigation: Applying water to crops, lawns or other plants using pumps, pipes, hoses, sprinklers, etc.

JPIA Joint Powers Insurance Authority. A group of water agencies providing self-insurance to members of the ACWA.

LAIF Local Agency Investment Fund. Statewide pool of surplus public agency money managed by State Treasurer.

Leach: To remove components from the soil by the action of water trickling through.

MAF: Million acre feet.

MCL: Maximum contaminant level set by EPA for a regulated substance in drinking water. According to health agencies, the maximum amount of a substance that can be present in water that's safe to drink and which looks, tastes and smells good.

MET: Metropolitan Water District of Southern California.

MGD: Million gallons per day.

Microfiltration: A physical separation process where tiny, hollow filaments members separate particles from water.

Microorganism: An animal or plant of microscopic size.

MWD: Metropolitan Water District of Southern California.

MWDOC: Municipal Water District of Orange County. Intermediate wholesaler between MWD and 27 member agencies including ETWD.

Non-point source pollution: Pollution that is so general or covers such a wide area that no single, localized source of the pollution can be identified.

NPDES National Pollution Discharge Elimination System

OCBC: Orange County Business Council.

OCEMA Orange County Environmental Management Agency

OCWD: Orange County Water District.

Opportunity:

1. A favorable juncture of circumstances.
2. A good chance for advancement or progress .

Organism: Any individual form of life, such as a plant, animal or bacterium.

PCM Professional Community Management, Inc. Property Management company providing services to Laguna Woods Village and other homeowner associations.

Perched groundwater: Groundwater supported by a zone of material of low permeability located above an underlying main body of groundwater with which it is not hydrostatically connected.

Percolation: The downward movement of water through the soil or alluvium to the groundwater table.

Permeability: The capability of soil or other geologic formations to transmit water.

Point source: A specific site from which waste or polluted water is discharged into a water body, the source of which is identified. See also: non-point source.

Potable water: Suitable and safe for drinking.

PPB: Parts per billion.

Precipitation: Water from the atmosphere that falls to the ground as a liquid (rain) or a solid (snow, sleet, hail).

Primary treated water: First major treatment in a wastewater treatment facility, usually sedimentation but not biological oxidation.

Primary treatment: Removing solids and floating matter from wastewater using screening, skimming and sedimentation (settling by gravity).

Prior appropriation doctrine: Allocates water rights to the first party who diverts water from its natural source and applies the water to beneficial use. If at some point the first appropriator fails to use the water beneficially, another person may appropriate the water and gain rights to the water. The central principle is beneficial use, not land ownership.

Pumping Plant: A facility that lifts water up and over hills.

Recharge: The physical process where water naturally percolates or sinks into a groundwater basin.

Recharge basin: A surface facility, often a large pond, used to increase the infiltration of surface water into a groundwater basin.

Reclaimed wastewater: Wastewater that becomes suitable for a specific beneficial use as a result of treatment. See also: wastewater reclamation.

Reclamation project: A project where water is obtained from a sanitary district or system and which undergoes additional treatment for a variety of uses, including landscape irrigation, industrial uses, and groundwater recharge.

Recycling: A type of reuse, usually involving running a supply of water through a closed system again and again. Legislation in 1991 legally equates the term "recycled water" to reclaimed water.

Reservoir: A place where water is stored until it is needed. A reservoir can be an open lake or an enclosed storage tank.

Reverse osmosis: (RO) A method of removing salts or other ions from water by forcing water through a semi-permeable membrane.

RFP Request for Proposal

Riparian: Of or on the banks of a stream, river, or other body of water.

RO: Reverse osmosis. See the listing under "reverse osmosis."

R-O-W Right-of-way

Runoff: Liquid water that travels over the surface of the Earth, moving downward due to gravity. Runoff is one way in which water that falls as precipitation returns to the ocean.

RWQCB Regional Water Quality Control Board. State agency regulating discharge and use of recycled water.

Safe Drinking Water Act (SDWA): The Safe Drinking Water Act (SDWA) was originally passed by Congress in 1974 to protect public health by regulating the nation's public drinking water supply. The law was amended in 1986 and 1996 and requires many actions to protect drinking water and its sources: rivers, lakes, reservoirs, springs, and ground water wells. (SDWA does not regulate private wells which serve fewer than 25 individuals.) SDWA authorizes the United States Environmental Protection Agency (US EPA) to set national health-based standards for drinking water to protect against both naturally-occurring and man-made contaminants that may be found in drinking water. US EPA, states, and water systems work together to make sure that these standards are met.

Safe yield: The maximum quantity of water that can be withdrawn from a groundwater basin over a long period of time without developing a condition of overdraft, sometimes referred to as sustained yield.

SAFRA Santa Ana River Flood Protection Agency

Salinity: Generally, the concentration of mineral salts dissolved in water. Salinity may be measured by weight (total dissolved solids - TDS), electrical conductivity, or osmotic pressure. Where seawater is known to be the major source of salt, salinity is often used to refer to the concentration of chlorides in the water.

SAWPA: Santa Ana Watershed Project Authority.

SCADA Supervisory Control and Data Acquisition

SCAP Southern California Alliance of Publicly. Newly formed group of public agencies seeking reasonable regulation of sewer industry.

SCH State Clearing House – Environmental Review/Processing

Seasonal storage: A three-part program offered by Metropolitan Water District of Southern California:

STSS (Short Term Seasonal Storage) financially encourages agencies with local groundwater production capabilities to produce a higher percentage of their demand in the summer from their local groundwater supplies, thus shifting a portion of their demand on the MWD system from the summer to winter;

LTSS (Long Term Seasonal Storage) financially encourages retail agencies to take and store additional amounts of MWD water above their normal annual demands for later use; Replenishment Water provides less expensive interruptible water that is generally available and used to increase the operating yield of groundwater basins.

Seawater intrusion: The movement of salt water into a body of fresh water. It can occur in either surface water or groundwater basins.

Seawater barrier: A physical facility or method of operation designed to prevent the intrusion of salt water into a body of freshwater.

Secondary treatment: The biological portion of wastewater treatment which uses the activated sludge process to further clean wastewater after primary treatment. Generally, a level of treatment that produces 85 percent removal efficiencies for biological oxygen demand and suspended solids. Usually carried out through the use of trickling filters or by the activated sludge process.

Sedimentation: The settling of solids in a body of water using gravity.

Settle: To clarify water by causing impurities/solid material to sink to a container's bottom.

Sewer: The system of pipes that carries wastewater from homes and businesses to a treatment plant or reclamation plant. Sewers are separate from storm drains, which is a system of drains and pipes that carry rain water from urban streets back to the ocean. Overwatering your yard can also cause water to run into the streets and into storm drains. Storm drain water is not treated before it is discharged.

SigAlert: Any unplanned event that causes the closing of one lane of traffic for 30 minutes or more, as opposed to a planned event, like road construction, which is planned.

SJBA San Juan Basin Authority

Sludge: The solids that remain after wastewater treatment. This material is separated from the cleaned water, treated and composted into fertilizer. Also called biosolids.

SOCWA South Orange County Wastewater Authority. Regional Joint Powers Authority formed for collection and treatment of sewerage (previously known as AWMA/SERRA/SOCRA). SOCWA member agencies:

CSC – City of San Clemente

CSJC – City of San Juan Capistrano

CLB – City of Laguna Beach

ETWD – El Toro Water District

EBSD – Emerald Bay Service District

IRWD – Irvine Ranch Water District

MNWD – Moulton Niguel Water District

SCWD – South Coast Water District

SMWD – Santa Margarita Water District

TCWD – Trabuco Canyon Water District

SRF State Revolving Fund

Storm Drain: The system of pipes that carries rain water from urban streets back to the ocean. Overwatering your yard can also cause water to run into the streets and into storm drains. Storm drain

water is not treated before it is discharged. Storm drains are separate from sewers, which is a separate system of pipes to carry wastewater from homes and businesses to a treatment plant or reclamation plant for cleaning.

Storm flow: Surface flow originating from precipitation and run-off which has not percolated to an underground basin.

SWP: State Water Project. An aqueduct system that delivers water from northern California to central and southern California.

SWRCB State Water Resources Control Board

TDS: Total dissolved solids. A quantitative measure of the residual minerals dissolved in water that remain after evaporation of a solution. Usually expressed in milligrams per liter.

Tertiary treatment: The treatment of wastewater beyond the secondary or biological stage. Normally implies the removal of nutrients, such as phosphorous and nitrogen, and a high percentage of suspended solids.

THM: Trihalomethanes. Any of several synthetic organic compounds formed when chlorine or bromine combine with organic materials in water.

TMA: Too many acronyms.

TMDL: Total maximum daily load; A quantitative assessment of water quality problems, contributing sources, and load reductions or control actions needed to restore and protect bodies of water.

Transpiration: The process in which plant tissues give off water vapor to the atmosphere as an essential physiological process.

Turbidity: Thick or opaque with matter in suspension; muddy water.

Ultraviolet light disinfection: A disinfection method for water that has received either secondary or tertiary treatment used as an alternative to chlorination.

VE Value Engineering

VOC: Volatile organic compound; a chemical compound that evaporates readily at room temperature and contains carbon.

Wastewater: Water that has been previously used by a municipality, industry or agriculture and has suffered a loss of quality as a result.

Water Cycle: The continuous process of surface water (puddles, lakes, oceans) evaporating from the sun's heat to become water vapor (gas) in the atmosphere. Water condenses into clouds and then falls back to earth as rain or snow (precipitation). Some precipitation soaks into the ground (percolation) to replenish groundwater supplies in underground aquifers.

Water rights: A legally protected right to take possession of water occurring in a natural waterway and to divert that water for beneficial use.

Water-use Efficiency: The water requirements of a particular device, fixture, appliance, process, piece of equipment, or activity.

Water year (USGS): The period between October 1st of one calendar year to September 30th of the following calendar year.

Watermaster: A court appointed person(s) that has specific responsibilities to carry out court decisions pertaining to a river system or watershed.

Water Reclamation: The treatment of wastewater to make it suitable for a beneficial reuse, such as landscape irrigation. Also called water recycling.

Watershed: The total land area that from which water drains or flows to a river, stream, lake or other body of water.

Water table: The top level of water stored underground.

WEF Water Environment Federation. Formerly – Water Pollution Control Federation (WPCF). International trade group advising members of sewage treatment techniques and their effect on the environment.

Weir box: A device to measure/control surface water flows in streams or between ponds.

Wellhead treatment: Water quality treatment of water being produced at the well site.

Wetland: Any area in which the water table stands near, at, or above the land surface for a portion of the year. Wetlands are characterized by plants adapted to wet soil conditions.

Xeriscape: Landscaping that requires minimal water.