

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.



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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**

**November 26, 2019**

**7:30 a.m.**

**CALL MEETING TO ORDER – Vice President Monin**

**PLEDGE OF ALLEGIANCE – Director Havens**

**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 "COMMENTS REGARDING 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

There are no acknowledgements.

### 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 (Minutes Included)

- a. Consider approving the minutes of the October 24, 2019 Board meeting.
- b. Consider approving the minutes of the October 31, 2019 Strategic Planning meeting.
- c. Consider approving the minutes of the November 12, 2019 Special 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. 19-11-1 Establishing Date, Time, and Place of Regular Board Meetings and Board/Engineering & Finance/Insurance Committee Meetings of the Board of Directors for Calendar Year 2020**  
(Reference Material Included)

Staff will review and comment on Resolution No. 19-11-1 establishing date, time, and place of Regular Board Meetings and Board/Engineering & Finance/Insurance Committee Meetings of the Board of Directors for calendar year 2020.

**Recommended Action:** Staff recommends approval of Resolution No. 19-11-1 which establishes date, time, and place of Regular Board Meetings and Board/Engineering & Finance/Insurance Committee Meetings of the Board of Directors for calendar year 2020.

### RESOLUTION NO. 19-11-1

RESOLUTION OF THE BOARD OF DIRECTORS OF THE  
EL TORO WATER DISTRICT  
ESTABLISHING DATE, TIME, AND PLACE  
OF REGULAR BOARD MEETINGS AND BOARD/ENGINEERING &  
FINANCE/INSURANCE COMMITTEE MEETINGS  
OF THE BOARD OF DIRECTORS FOR CALENDAR YEAR 2020.

## 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 Board Meeting – November 7, 2019
- b. SOCWA Special Finance Committee Meeting – November 12, 2019
- c. SOCWA Engineering Committee Meeting – November 14, 2019

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

- a. MWDOC/MET Directors Workshop – November 6, 2019
- b. MWDOC Planning/Operations Committee – November 12, 2019
- c. MWDOC Administration & Finance Committee – November 13, 2019
- d. MWDOC Public Affairs & Legislation Committee – November 18, 2019
- e. MWDOC Board Meeting – November 20, 2019
- f. MWDOC Managers Meeting – November 21, 2019

**9. Local Agency Formation Commission (LAFCO) Report**

- a. Report on the November 13, 2019 meeting.

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

- a. Report on the November 4, 2019 SOCWMA Management Committee meeting
- b. Report on the November 7, 2019 SOCWMA Executive Committee meeting

**11. ISDOC Meetings** (Reference Material Included)

- a. Report on the November 5, 2019 ISDOC Executive Committee Meeting

**12. WACO Meetings** (Reference Material Included)

- a. Report on the November 1, 2019 WACO Meeting
- b. Report on the November 19, 2019 WACO Planning Committee meeting

**13. City Coordination Efforts**

There was no meeting.

**COMMITTEE AND GENERAL INFORMATION**

**14. Dates to Remember for November/December 2019** (Reference Material Included)

**15. Carry-Over Pending Matters**



## COMMENTS REGARDING 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 (one matter).
2. To conduct the General Manager's annual performance evaluation pursuant to Government Code Section 54957 (b) (1).

### REGULAR SESSION

#### REPORT ON CLOSED SESSION (Legal Counsel)

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

#### 16. GENERAL MANAGER COMPENSATION

**Board Action:** The District's Board of Directors will discuss and consider granting the District's General Manager a compensation increase in the amount and form as determined by the Board.

### ADJOURNMENT

**Recommended Action:** The Board will be requested to take action adjourning today's Board meeting to **Thursday, December 19, 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  
October 24, 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 October 24, 2019 at the El Toro Water District Administrative Offices, 24251 Los Alisos Boulevard, Lake Forest, California.

President Vergara led in the Pledge of Allegiance to the flag.

Present at today's meeting were Committee Members JOSE F. VERGARA, MARK MONIN, 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, POLLY WELSCH, Recording Secretary, and SAUNDRA JACOBS, SMWD Board President.

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.

Ms. Saundra Jacobs introduced herself and stated that she did not win the LAFCO seat, but wanted to thank the Board members for their support. She further congratulated Director Freshley for winning the Alternate Seat.

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

There were 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. Consider approving the September 26, 2019 Board meeting minutes.

President Vergara asked for a Motion.

Motion: Director Freshley 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 Gaskins stated that he was on vacation for a few weeks during the month. He further stated that he attended the Aliso Creek Watershed meeting, the OCWA luncheon, the MWDOC Public Affairs meeting, the ISDOC luncheon, the Time Capsule Reception at Ocean Institute, Legislative Meet and Greet, a Strategic Planning interview, and plans to attend the H2O for HOA's event next week.

Vice President Monin stated that he attended the Chair/GM meeting, a Strategic Planning interview, the Legislative Meet and Greet, ISDOC Quarterly luncheon, the MWDOC Admin/Finance meeting, WACO Planning meeting, ISDOC Executive Committee meeting, the Time Capsule Reception at Ocean Institute, the MWDOC/MET Directors workshop, the OCWA luncheon, a Veteran meeting with Pat Bates, a meeting with Mesa, and the South Orange County Economic Coalition meeting.

Director Havens stated that she attended the State Water Project Tour, Laguna Hills City Council meeting, LAFCO, Third Mutual meetings, Aliso Creek Watershed meeting, the WaterReuse meeting, Irvine Council Re-election meeting kickoff, the Time Capsule Reception at Ocean Institute, a Strategic Planning interview, and will be on TV-6 tomorrow and attending the H2O for HOA's event next week.

Director Freshley stated that she attended the SOCWA Board meeting, the WACO meeting, the MWDOC/MET Directors workshop, City Council meeting, and a luncheon, the Laguna Woods City Council meeting, the Time Capsule Reception at Ocean Institute, a Strategic Planning interview, and will be attending the H2O for HOA's meeting.

President Vergara stated that he attended WACO, MWDOC Planning/Operations meeting, a meeting with MNWD and Mesa, MWDOC Admin/Finance meeting, the OCWA luncheon, the WateReuse meeting, and a Strategic Planning interview.

President Vergara stated that on November 7<sup>th</sup> the Annual Women to Watch 2020 event will be held and he has nominated Director Kathryn Freshley.

#### General Manager Action Items

#### Resolution No. 19-10-1 Modifying Standing Committee and External Organization Board and Staff Assignments

Mr. Cafferty stated that this Resolution is adding the Lake Forest Chamber of Commerce which President Vergara and Vice President Monin will be the Representatives, and moving the South County Economic Coalition to the list of meetings which all Directors can attend.

President Vergara asked for a Motion.

Motion: Director Freshley made a Motion, seconded by Director Gaskins, and unanimously carried across the Board to adopt Resolution No. 19-10-1 which modifies Standing and External Organization Board and Staff Assignments for the balance of 2019, effective October 24, 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

There were no comments.

Legislative Reports

There were no comments.

Public Education and Outreach/Water Conservation Reports

Mr. Cafferty reminded the Board to let Ms. Seitz know if they are planning to attend the H2O for HOA's event next week.

President Vergara stated that at the WaterReuse meeting, they presented a new program of Collecting Rainwater Runoff that can be measured.

SOCWA Reports

Director Freshley stated that the SOCWA Board meeting was a short meeting with a Closed Session.

Mr. Cafferty stated that Mr. Bobby Young attended the Engineering Committee meeting where they discussed the future of biosolids disposal options.

#### MWDOC

Vice President Monin stated that at the MWDOC/MET workshop they discussed MET's mid-cycle biennial budget review, and the Delta Conveyance Activities update.

Vice President Monin stated that at the MWDOC Admin/Finance meeting they discussed the Treasurers report, the Finance report, and Health Savings Accounts. He further stated that they discussed their SDRMA Resolution regarding employee processes, their revised Personnel Manual, Electrical system rehabilitation project, attendance at a Public Policy Institute conference, health benefits, disposal of fixed assets, and a CalPers valuation report.

President Vergara stated that at the MWDOC Planning/Operations meeting they discussed whether or not to add a Civility Clause to their Employee Manual.

Mr. Cafferty stated that he attended the MWDOC Managers meeting where they discussed that the State Water Resources Control Board is proposing water loss performance standards to dictate to local agencies how to manage water loss and value.

Director Gaskins stated that he attended the MWDOC Public Affairs meeting where there was positive movement toward desalination efforts.

## LAFCO

Director Havens stated that they discussed staying ahead in communications, how they are represented in public, and they approved joining JPIA.

## SOCWMA

Director Havens stated that she attended a collaborative workshop of stakeholders where they updated current topics.

## ISDOC Meetings

Vice President Monin stated that they discussed consideration of uses for reserve funds such as having a dues holiday.

## WACO Meetings

Vice President Monin stated that they discussed what is happening up river.

Vice President Monin stated that at the WACO Planning Committee they discussed future speakers and topics.

## City Coordination Efforts

There were no comments.

## Committee and General Information

There were no comments.

## Dates to Remember

There were no comments.

## Carry-Over Pending Matters

There were no pending matters.



### Comments Regarding Non-Agenda Items

There were no comments.

### Attorney Report

Mr. Granito reported that there is a need for a Closed Session today to discuss item #1 as noted in today's Closed Session agenda.

### Closed Session

At approximately 8:17 o'clock a.m. the Board went into Closed Session. Also at this time, Ms. Jacobs, Ms. Shahbakhti, Ms. Cimorell, and Ms. Welsch left the meeting.

### Open Session Report

At approximately 8:25 o'clock a.m. the Regular Session resumed, and Ms. Welsch returned to the meeting.

Mr. Granito reported that the Board did go into Closed Session with regard to item #1 as referenced in today's Closed Session agenda.

No further reportable action was taken.

### Adjournment

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

Motion: Vice President Monin moved, seconded by Director Havens and unanimously carried that today's meeting be hereby adjourned at 8:25 o'clock a.m. to Tuesday, November 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
Director Havens	aye
President Vergara	aye
Director Freshley	aye

Respectfully submitted,

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POLLY WELSCH  
Recording Secretary

APPROVED:

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

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

MINUTES OF THE SPECIAL MEETING  
OF THE  
BOARD OF DIRECTORS  
OF THE  
EL TORO WATER DISTRICT

October 31, 2019

President Vergara called the meeting of the Board of Directors of the El Toro Water District to order at 9:00 a.m. at 23175 Avenida De La Carlota, Laguna Hills, California, and Director Monin led in the Pledge of Allegiance.

Directors JOSE VERGARA, MARK MONIN, KATHRYN FRESHLEY, MIKE GASKINS and KAY HAVENS were present.

Also present were DENNIS P. CAFFERTY, General Manager/Secretary, GILBERT J. GRANITO, General Counsel, ED MEANS of Means Consulting and CAROL MOORE, Laguna Woods City Councilmember.

El Toro Water District Strategic Planning Workshop

President Vergara introduced Mr. Means of Means Consulting. Thereafter, Mr. Means assumed his role as the "facilitator" of the Strategic Planning Workshop.

The objectives of the Strategic Planning Workshop included:

1. Review the SWOT analysis with the Board
2. Validate Mission, Vision, Values and Goals
3. Discussion of key strategic issues
4. Understand next steps

Using the facilitated process, the Board and staff identified priority issues facing the District today and in the future.

At days end, the Board of Directors provided initial policy-level direction to Staff and Mr. Means to prepare for future discussions. Mr. Means will prepare and submit proposed language for the Mission, Vision, Values and Goals Statements at the November Board meeting.

#### Adjournment

There being no further business to come before the Board, the meeting was adjourned at 3:00 p.m.

Respectfully submitted,

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DENNIS P. CAFFERTY  
General Manager

APPROVED:

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

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

MINUTES OF THE SPECIAL MEETING  
OF THE  
BOARD OF DIRECTORS  
OF THE  
EL TORO WATER DISTRICT  
November 12, 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 November 12, 2019 at the El Toro Water District Administrative Offices, 24251 Los Alisos Boulevard, Lake Forest, California.

President Vergara led in the Pledge of Allegiance to the flag.

Directors JOSE F. VERGARA, MARK MONIN, KATHRYN FRESHLEY, MIKE GASKINS, and KAY HAVENS were present.

Also present were DENNIS P. CAFFERTY, General Manager/Secretary, POLLY WELSCH, Recording Secretary, GILBERT J. GRANITO, General Counsel, and MICHAEL COLANTUONO, Esq. (via teleconference).

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 public comments.

Items Received Too Late to be Agendized

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

### Attorney Report

Mr. Granito reported that there is a need for a Closed Session today to consult with Legal Counsel – Claim dated October 18, 2019 and Claim dated November 3, 2019, both on behalf of Anne Moell (Claimant).

### Closed Session

At approximately 7:39 o'clock a.m. the Board went into Closed Session. Also at this time, Ms. Welsch left the meeting.

### Open Session Report

At approximately 8:24 o'clock a.m. the Board returned to Open Session. Mr. Granito reported that the Board did go into Closed Session immediately after the Open Session, for the purpose reflected on today's agenda. During the Closed Session, he and Mr. Cafferty, along with Mr. Colantuono Esq. led a discussion on the subject matter. No further reportable action was taken.

### Adjournment

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

Motion: Director Freshley moved, seconded by Director Havens and unanimously carried across the Board that today's meeting be hereby adjourned at 8:25 o'clock a.m.

### Roll Call Vote

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

Respectfully submitted,

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POLLY WELSCH  
Recording Secretary

APPROVED:

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

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

**RESOLUTION NO. 19-11-1**

**RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE ELTORO WATER DISTRICT  
ESTABLISHING DATE, TIME, AND PLACE OF  
REGULAR BOARD MEETINGS AND  
BOARD/ENGINEERING & FINANCE/INSURANCE COMMITTEE  
MEETINGS OF THE BOARD OF DIRECTORS  
FOR CALENDAR YEAR 2020**

RESOLVED, that Resolution No. 18-12-1 re-establishing the District's regular meeting place, date and time is hereby rescinded effective November 26, 2019; and

RESOLVED FURTHER, that the Regular 2020 Board meetings and Board/Engineering & Finance/Insurance Committee meetings of the Board of Directors of the El Toro Water District shall be held at the Administrative Offices of the El Toro Water District located at 24251 Los Alisos Boulevard, El Toro, California as set forth in Attachment "A" to this Resolution unless otherwise changed by this Board by appropriate Resolution:

RESOLVED FURTHER, that in 2020, the Standing Advisory Committees set forth in Attachment "B" shall be held on the dates/times in Attachment "B" to this Resolution, unless otherwise changed from time to time by the Chairman of the Committee.

ADOPTED, SIGNED AND APPROVED, this 25th day of November 2019.

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



(SEAL)

ATTEST:

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

**ETWD SCHEDULED MEETINGS 2020**  
**EFFECTIVE NOVEMBER 26, 2019**

**REGULAR BOARD MEETINGS**

**Attachment "A" to Resolution No. 19-11-1**

**Board & E & F/I Committee Meetings (1)**

**Board Meetings**

1.	January 21, Tuesday	7:30 a.m.	January 23, Thursday	7:30 a.m.
2.	February 25, Tuesday	7:30 a.m.	February 27, Thursday	7:30 a.m.
3.	March 24, Tuesday	7:30 a.m.	March 26, Thursday	7:30 a.m.
4.	April 21, Tuesday	7:30 a.m.	April 23, Thursday	7:30 a.m.
5.	May 26, Tuesday	7:30 a.m.	May 28, Thursday	7:30 a.m.
6.	June 23, Tuesday	7:30 a.m.	June 25, Thursday	7:30 a.m.
7.	July 21, Tuesday	7:30 a.m.	July 23, Thursday	7:30 a.m.
8.	August 25, Tuesday	7:30 a.m.	August 27, Thursday	7:30 a.m.
9.	September 22, Tuesday	7:30 a.m.	September 24, Thursday	7:30 a.m.
10.	October 20, Tuesday	7:30 a.m.	October 22, Thursday	7:30 a.m.
11.	November 23, <b>Monday</b>	7:30 a.m.	November 24, <b>Tuesday</b>	7:30 a.m.
12.	December <b>15</b> , Tuesday	7:30 a.m.	December <b>17</b> , Thursday	7:30 a.m.

***(1) Engineering & Finance/Insurance Committee (E & F/I Committee)***

**NOTE: Meeting date changes due to Thanksgiving and Christmas holidays.**

## **STANDING ADVISORY COMMITTEES**

### **Attachment "B" to Resolution No. 19-11-1**

#### **AGENDA REVIEW MEETINGS** (at 7:30 a.m.)

1. January 13, Monday
2. February 18, Tuesday\*
3. March 16, Monday
4. April 13, Monday
5. May 18, Monday
6. June 15, Monday
7. July 13, Monday
8. August 17, Monday
9. September 14, Monday
10. October 12, Monday
11. November 16, Monday
12. December 7, Monday

#### **REGIONAL RECLAMATION COMMITTEE**

##### **MEETINGS @ 10:00 a.m.**\*\*

1. January 7, Tuesday
2. February 4, Tuesday
3. March 3, Tuesday
4. March 31, Tuesday
5. May 5, Tuesday
6. June 2, Tuesday
7. June 30, Tuesday
8. August 4, Tuesday
9. September 1, Tuesday
10. September 29, Tuesday
11. November 3, Tuesday
12. December 1, Tuesday

#### **COMMUNITY ADVISORY GROUP**

##### **MEETINGS @ 11:30 a.m.**

1. February 13, Thursday
2. May 14, Thursday
3. August 13, Thursday
4. November 12, Thursday

\*Meeting moved to Tuesday due to Presidents Day holiday.

\*\* Meeting dates subject to change depending on SOCWA's Board meeting dates or at the Direction of the General Manager.

# **GENERAL MANAGER'S REPORT**

**November 2019**

## **I. OFFICE OF THE GENERAL MANAGER**

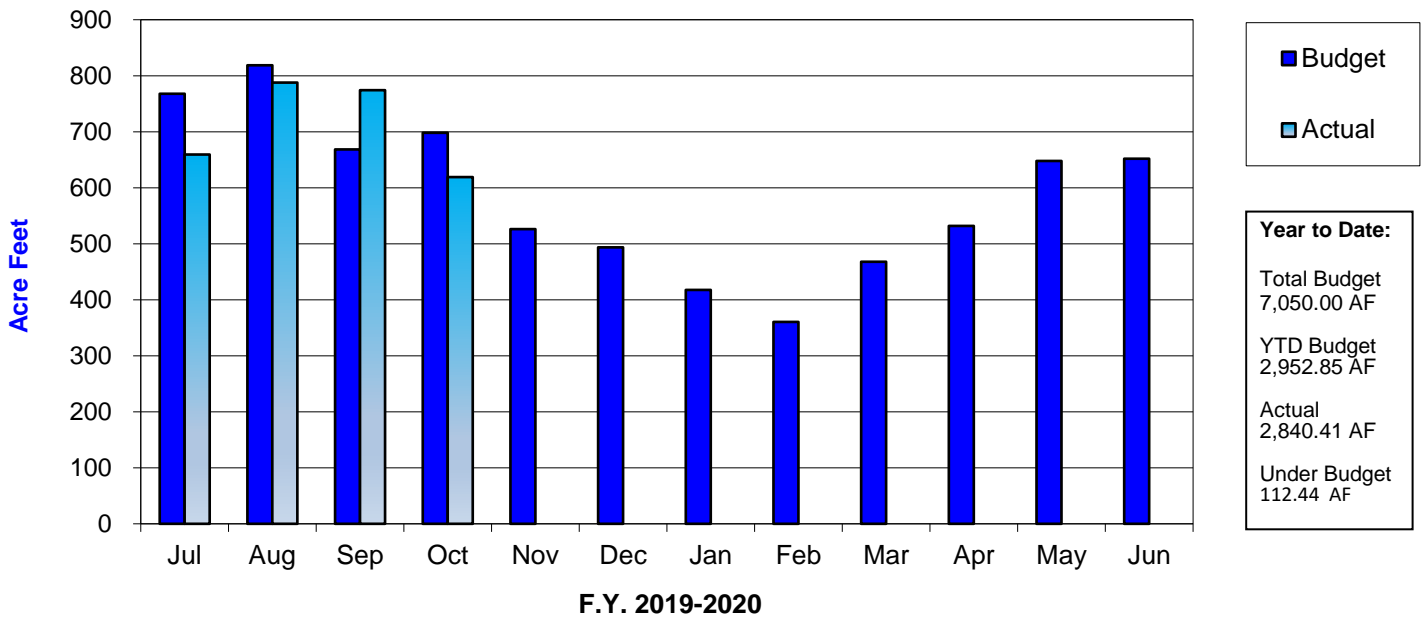
- Attended Strategic Planning Workshop Special Board Meeting
- Attended Chair/GM Meeting
- Attended SOCWMA Management Committee Meeting
- Attended RRC Meeting
- Attended SOCWA Board Meeting
- Attended SOCWA Finance Committee Meeting
- Attended South Orange County Storage Coalition Meeting at SMWD
- Attended CAG Meeting
- Attended Agenda Review Meeting
- Attended MWDOC Agencies Managers Meeting
- Attended Regular Engineering/Finance/Board Meetings
- Attended South County Agencies Meeting
- Attended OC Recycled Water Agencies Meeting
- Attended SOCWMA Executive Committee Meeting
- Attended OC Distribution System Planning Workshop
- Attended Meeting with City of Laguna Woods City Manager
- Attended Baker Agencies Meeting

## **II. DOMESTIC AND RECYCLED WATER SALES**

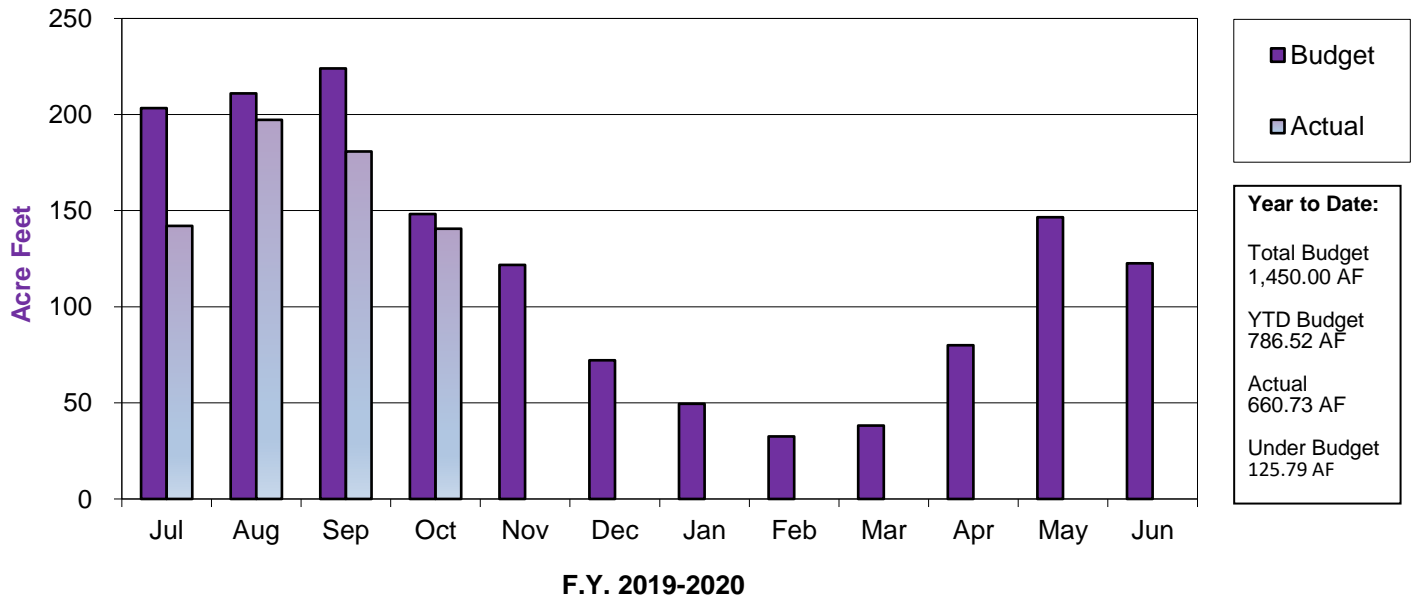
Actual domestic sales for the year-to-date as of October 31, 2019 are 2,840.41 acre-feet. This compares to year-to-date budgeted domestic sales of 2,952.85 acre-feet. The year-to-date variation in actual to budgeted sales reflects a decrease of 112.44 acre-feet. Actual sales are 99.46 acre-feet lower than last year-to-date actual sales for the same period.

Actual recycled sales for the year-to-date as of October 31, 2019 are 660.73 acre-feet. This compares to year-to-date budgeted recycled sales of 786.52 acre-feet. The year-to-date variation in actual to budgeted sales reflects a decrease of 125.79 acre-feet. Actual sales are 46.26 acre-feet lower than last year-to-date actual sales for the same period.

## POTABLE WATER SALES



## RECYCLED WATER SALES

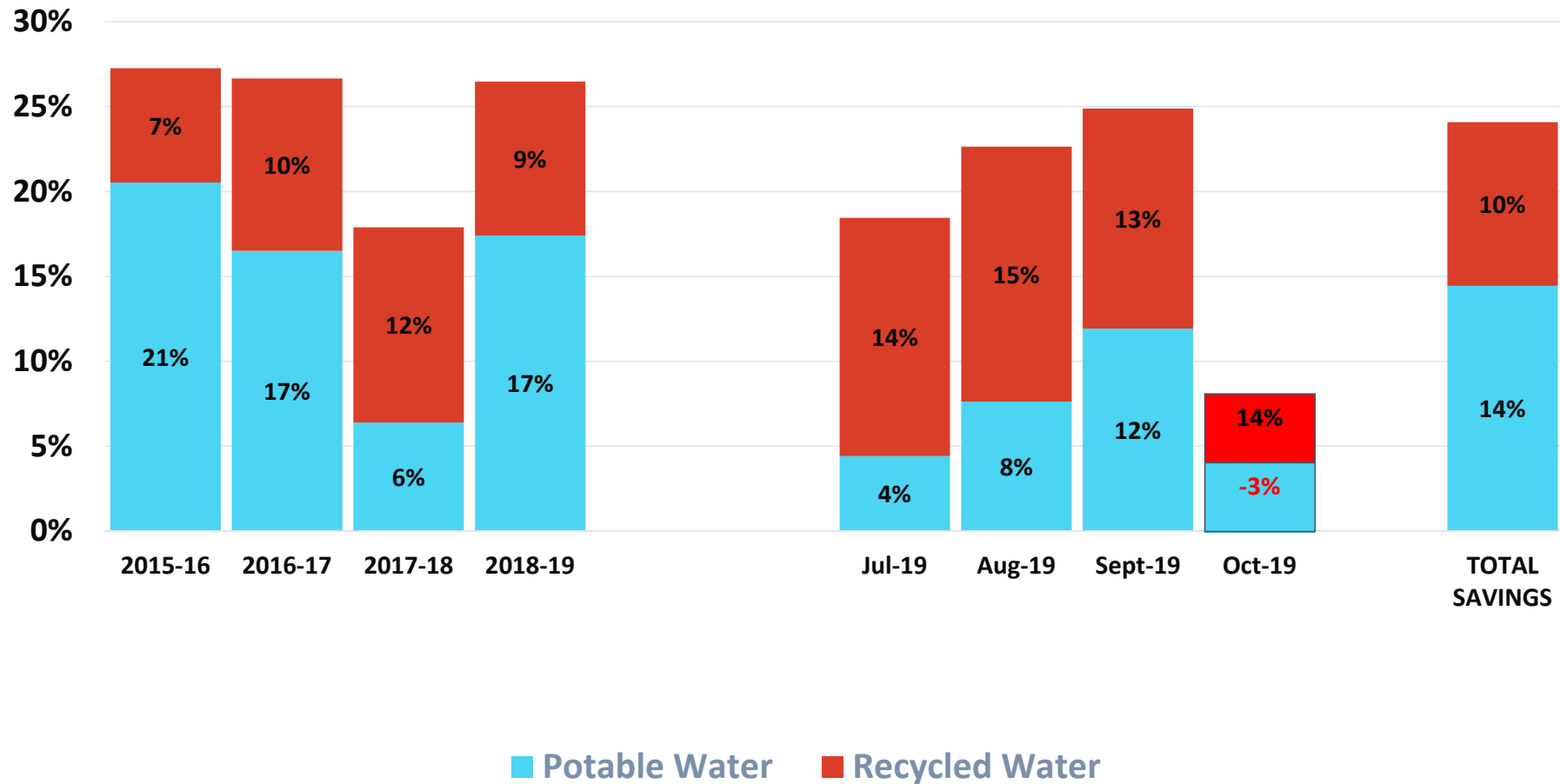


## Customer Service Activity Report

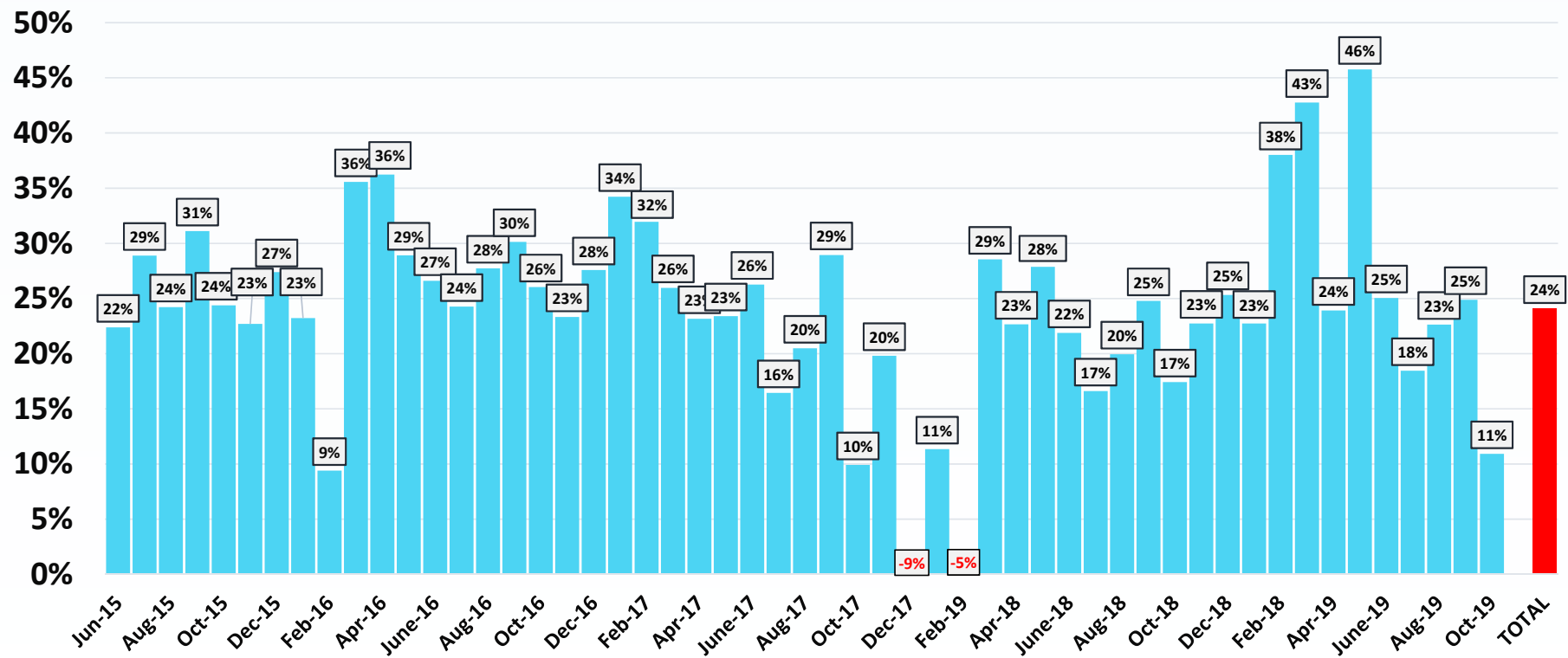
OCTOBER 2019

Regular Service Calls	OCT 2019	OCT 2018	Telephone Calls	OCT 2019	OCT 2018
Serviceman Dispatched to Read, Connect/Disconnect Service	104	83	Change of Service: Connections and Disconnections	96	88
<b>Field Investigations:</b>			Billing / Payments & Graph Inquires	261	229
Check for leaks - calls to CS Office:(irrigation,meter,street leaks)			Assistance with online payments and ETWD's portal (cc, e-checks, other.)	46	113
Customer Responsible	39	25			
District Responsible	5	9	Variance / Waiver Inquiries	39	67
None found/other	34	21	Variance / Waiver Requests Processed	16	24
High Reads Checked - High Consumption (Billing Dept.)	33	3	Ordinance Infraction / Water Waste Complaints	0	0
Cust Leaks: _15_ No Leaks: _18_					
Check Stopped Slowed Meters-Low Consumption (Billing)	7	6	Outside Utility Districts	83	92
Re-Check Read	9	6	Phone calls Transfer to other Departments within ETWD	64	116
Ordinance Infraction	0	2	Phone calls for the Board of Directors	0	2
Recycled Water	1	2	Recycled Water	1	1
Water Quality: Taste / Odor / Color	1	3	Water Quality Taste - Odor - Color	2	4
Phone response: _1_ Field response: _0_			Leaks / Breaks	15	26
Flooding (Hydrant) Meters issued	1	2	Flooding Meter calls (Hydrant)	1	3
Sewer - Odor/Stoppage/ Manhole Covers	5	7	Sewer Problems (odor / spills)	4	7
Meter Box: Lids / Covers Replaced	28	53			
Meter Box Clean, Digout	21	29	Backflow / Cross Connection (questions or yearly testing forms)	1	5
			ETWD facilities inquiries: Boxes/Covers/Lids/Hydrants/Pump Stations/Graffiti/ "Gen. Maint"	16	7
Raised Meter Box	1	7			
Trim Bushes / Meter Obstruction	56	26	Tyco (ADT) Calls (Alarms to ETWD facilities)	2	1
General Maintenance Response	4	9	ATT Calls (access to tower sites)	0	2
Fire Hydrants: Hit / Leaks / Caps	0	0	SCE Calls (access to tower sites)	0	0
Pressure(psi) Checks / Reads	8	7	Pager Calls specifically for Pump Stations - SCADA	0	0
CSSOV (Angle Meter/Ball Valve/Gate Valve/Globe Valve) chk,repair,replaced	13	22			
AMS angle-meter-stop replace/repair	1	0			
Bees Removed	3	1	Payment Extensions	56	94
Backflow / Cross Connection	10	2	Delinquent Payment Calls to Customer 's prior to shut off per billing calendar (automatic courtesy dialer)	58	56
Fogged Registers	22	58	Return Calls from customers left on our voice mail system. Ext 500	11	18
OMCOP: Old Meter Change - Out Program	1	4	Email Correspondence:	52	71
Other: (uncommon non-maintenance calls)	3	2	Maintenance Service Order Requests (bees, psi, fogged-dirty registers)	1	5
On-Call After Hrs. CS Response	28	20	Misc. (other: employment, deliveries, sales calls)	49	46
# 48/24 Hr. Door Hangers Hung	128	158			
# Locked Off For Non-Pay (Disconnect)	10	15			
Removed Meter	1	1			
New Meter	17	0			
Unread Meters	15	16			
<b>Total Field Investigations</b>	<b>609</b>	<b>599</b>	<b>Total Telephone Calls</b>	<b>874</b>	<b>1077</b>
<b>Uncollectible Accounts:</b>			<b>Credit Card Payments</b>	<b>OCT 2019</b>	<b>OCT 2018</b>
Budget YTD	\$ 6,667.00	\$ 6,667.00	REGULAR	873 \$93,998.35	702 \$82,675.96
Actual YTD	\$ 1,698.00	\$ 399.00	DISCONNECTS		

# ETWD WATER SAVINGS COMPARED TO 2013

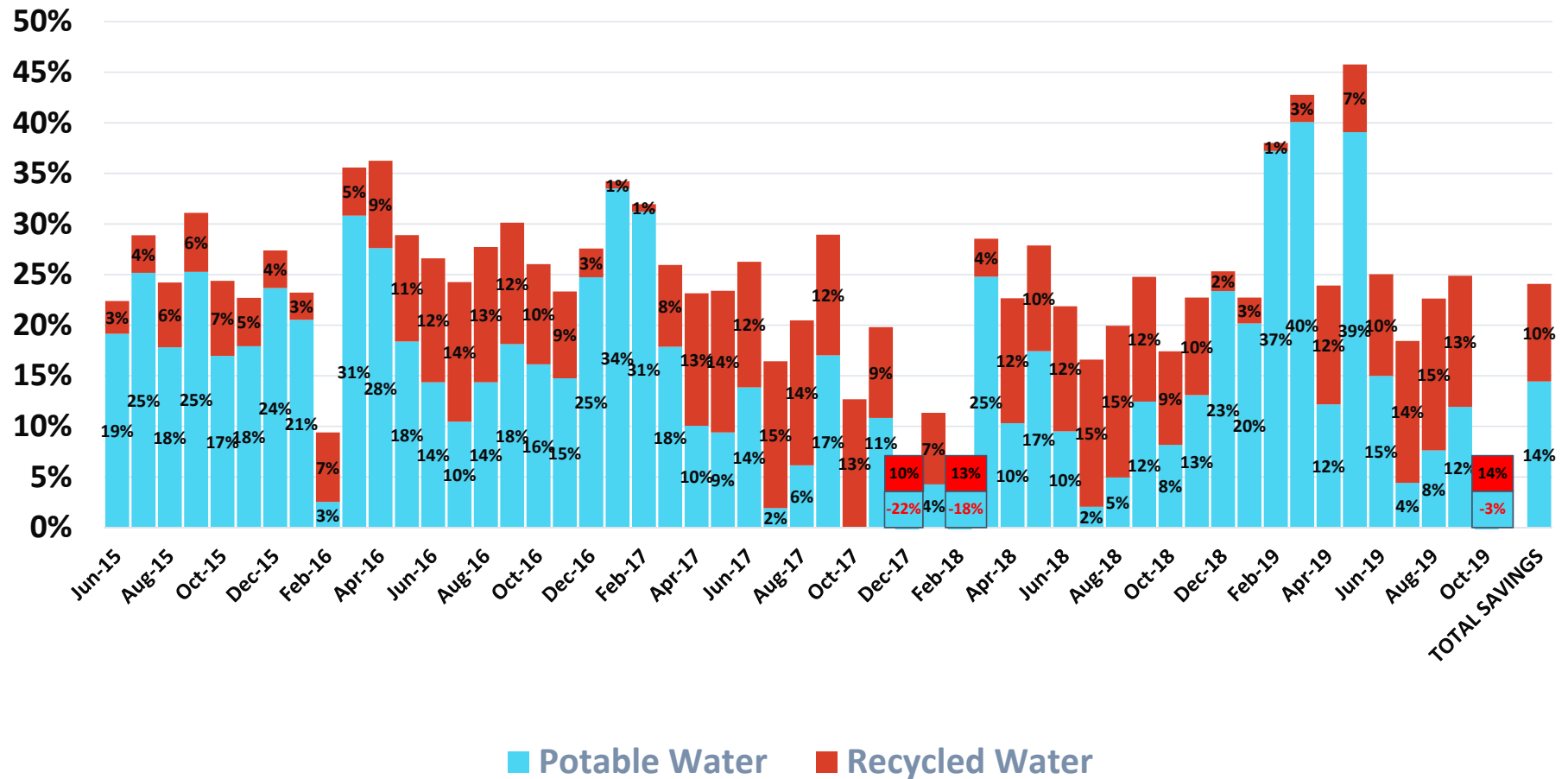


# ETWD WATER SAVINGS COMPARED TO 2013





# ETWD WATER SAVINGS COMPARED TO 2013



**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:		October		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	244	Average = 1.01 ppm		
3 TTHM (ppb) (Stage 2)	80 ppb		N/A		25.4 ppb
3 HAA5 (ppb) (Stage 2)	60 ppb		N/A		6.3 ppb
4 Physical Quality:			RANGE		
Turbidity (ppm)	5 NTU	20	0.02 to 0.06		
Odor	3 Units	20	ND<1		
Color	15 Units	20	ND<5		
Temperature	No standard	20	73.4°F To 82.5°F		
5 Nitrite (Alert/Action level)ppm	0.015 to 0.030 ppm	129	0.000 to 0.211 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:**

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



# MICROBIOLOGICAL MONITORING

OCTOBER 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

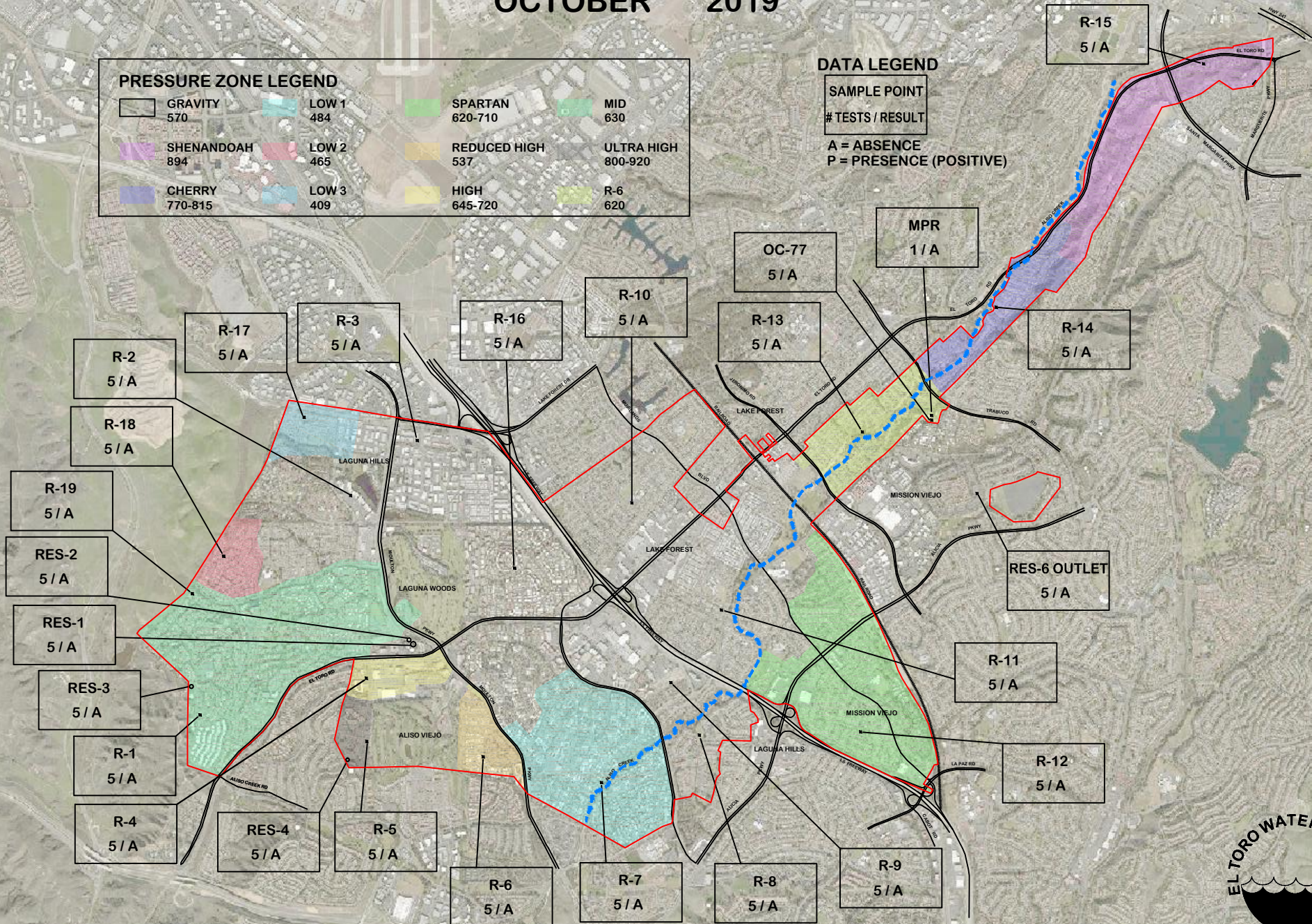
## DATA LEGEND

SAMPLE POINT

# TESTS / RESULT

A = ABSENCE

P = PRESENCE (POSITIVE)





# CHLORINE RESIDUAL MONITORING

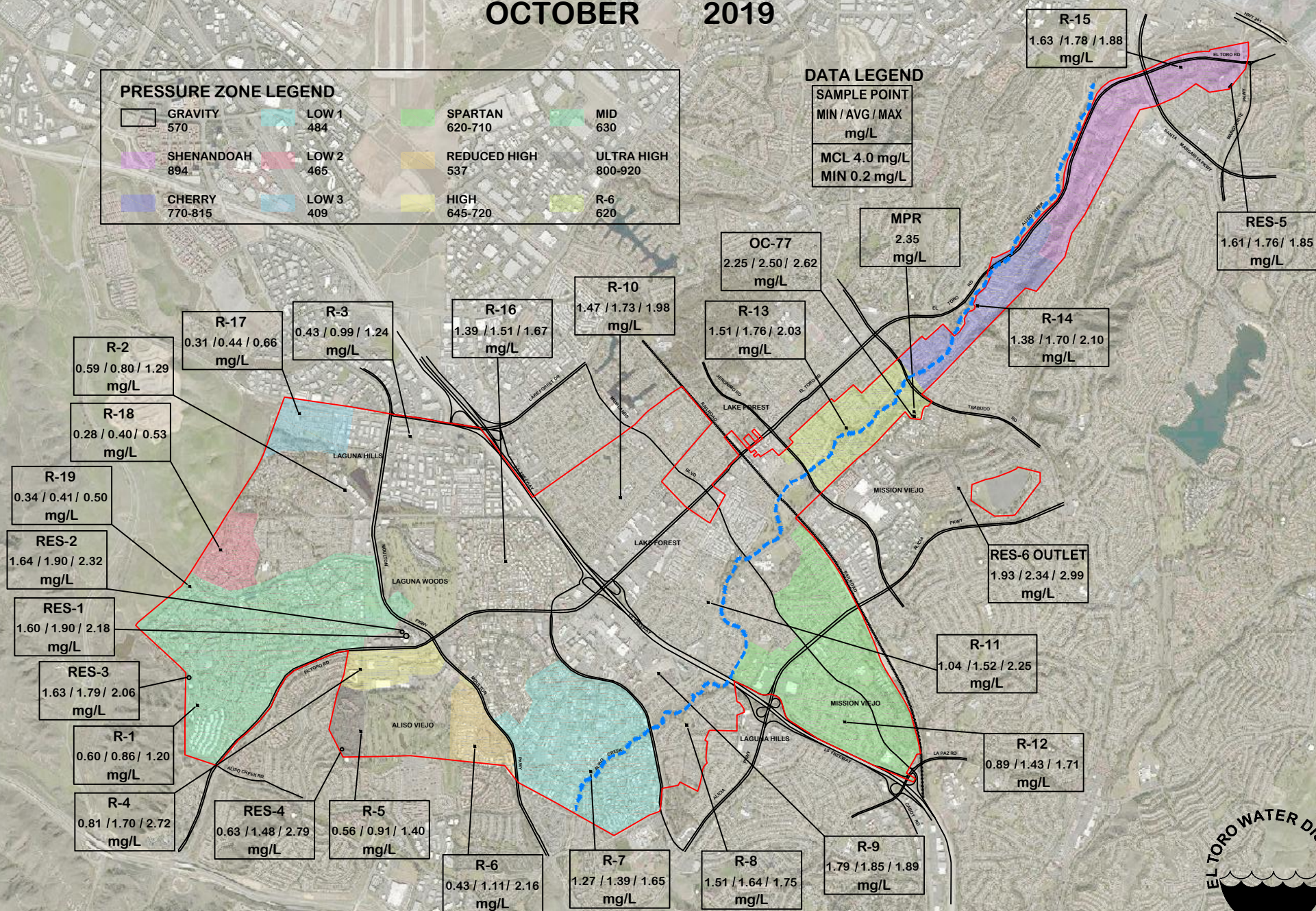
OCTOBER 2019

## 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

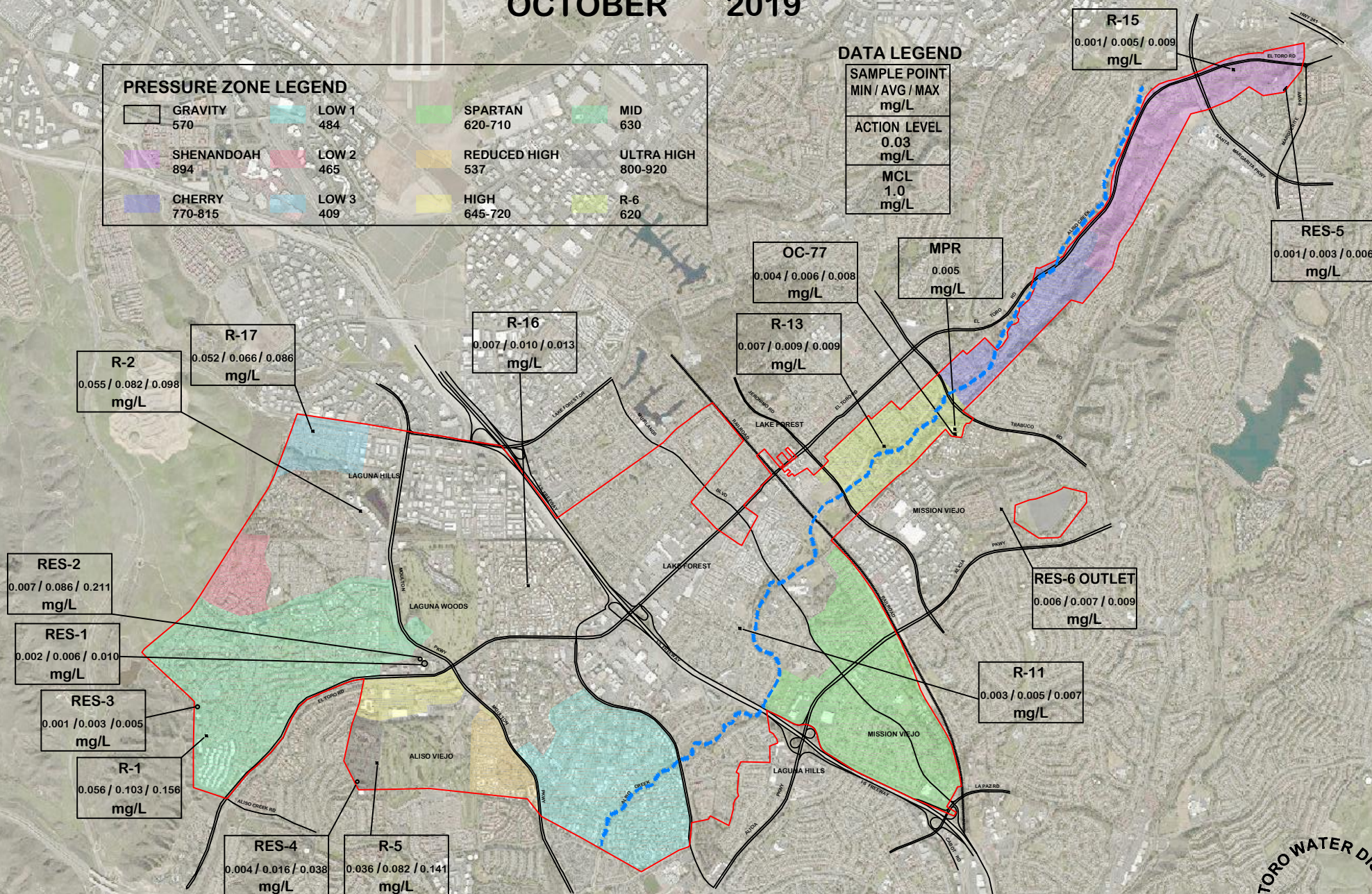
OCTOBER 2019

## 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

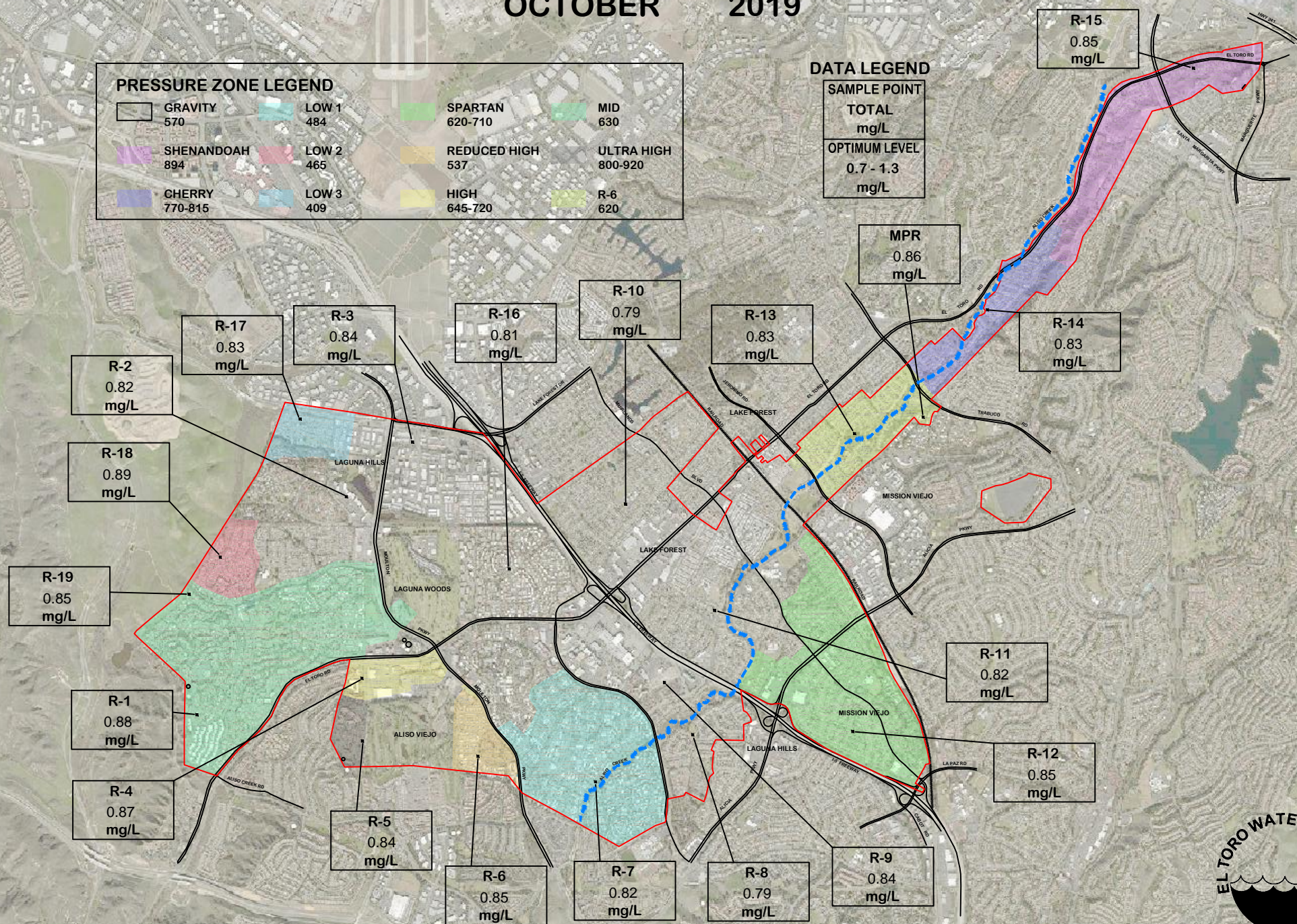
## DATA LEGEND

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





**OCTOBER 2019**





# Weekly Water Quality System Status

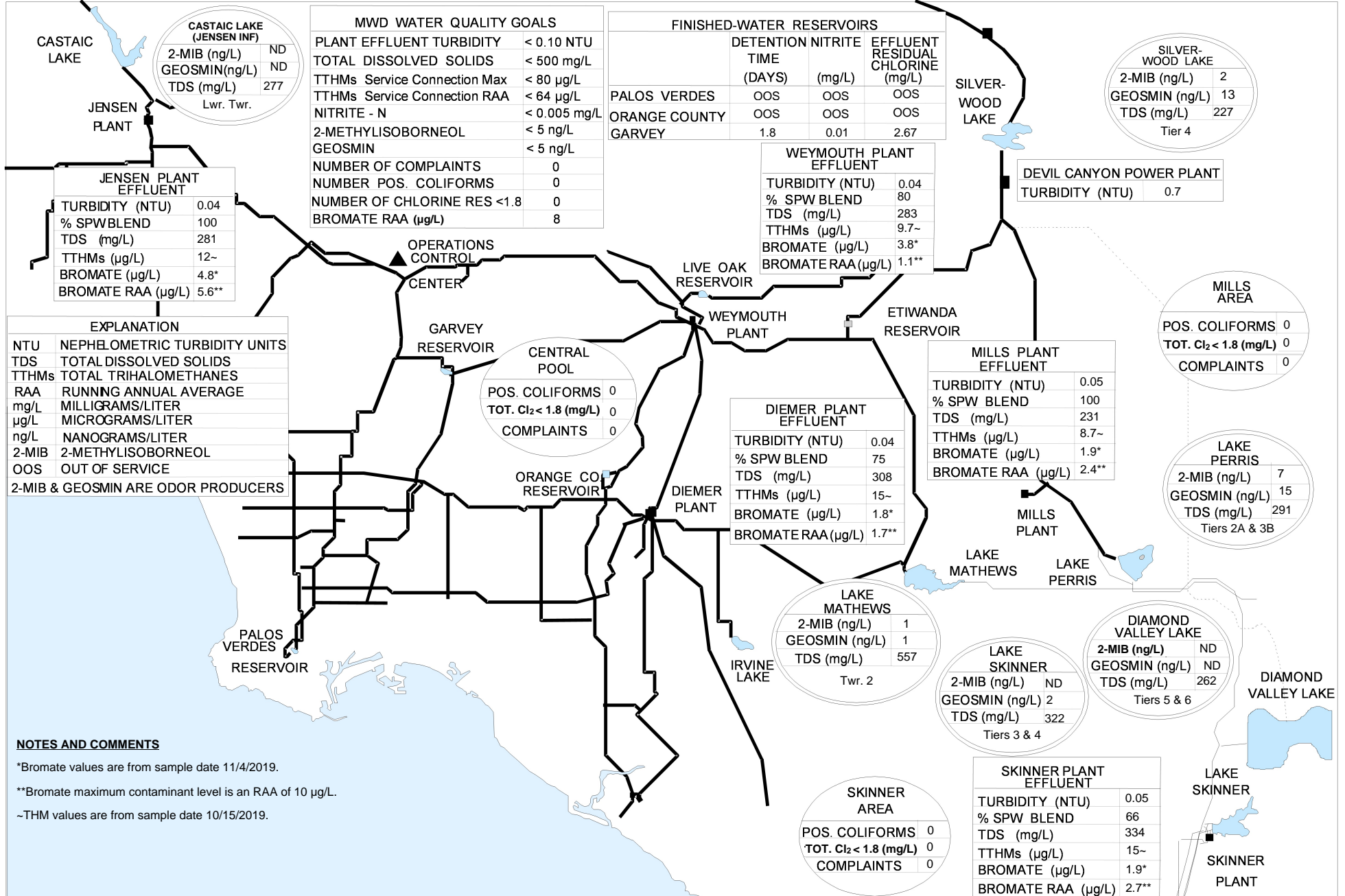
Wednesday, November 13, 2019

Generated On:11/13/2019 11:10:43 AM



## THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

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



MWD water quality goals meet or exceed all State and Federal regulations.

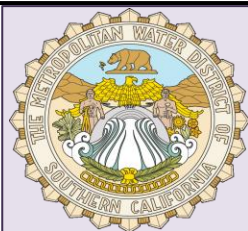
WATER QUALITY INFORMATION LINE: (800) 354-4420  
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>

## (WRP) Tertiary Treatment Plant

Oct.19

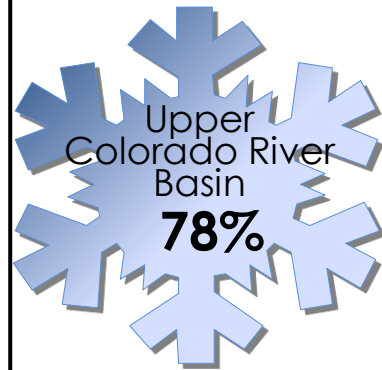
### Total Recycled Water Production

Flow, Units	G.C. Irrigation	Main Distribution	WRP Irrigation/Utility	Total, Production
Avg. Daily Q MGD	0.345	1.226	0.095	1.666
Total Q MG	10.707	38.021	2.951	51.679
Total Acre Feet	32.859	116.682	9.056	158.597
*No Potable Water Was Used to Supplement the Recycled Water Total Production for this Month.				



# Water Supply Conditions Report

As of: 11/20/2019

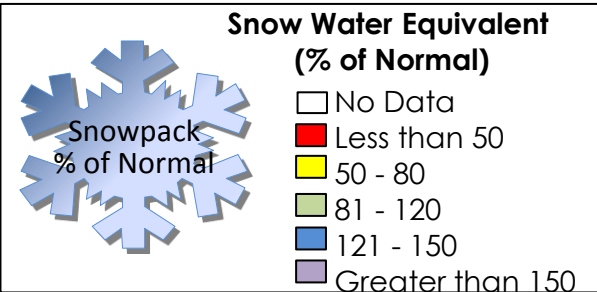
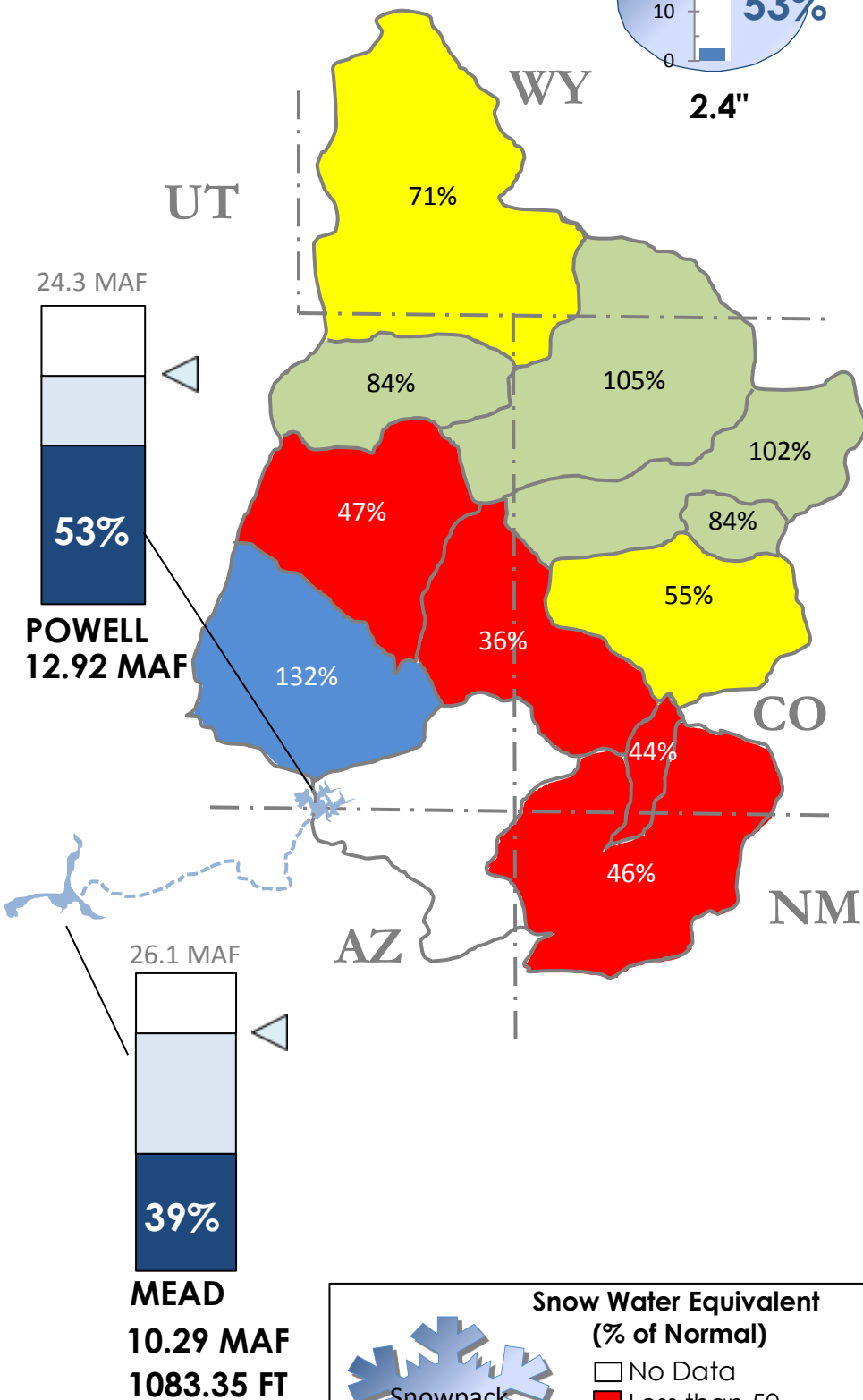
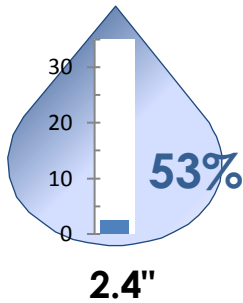


## 2019 Colorado River

924,854 AF

74% of full CRA

Does not include storage withdrawals



Turn page for more CRA Data

Flip Over for SWP Data

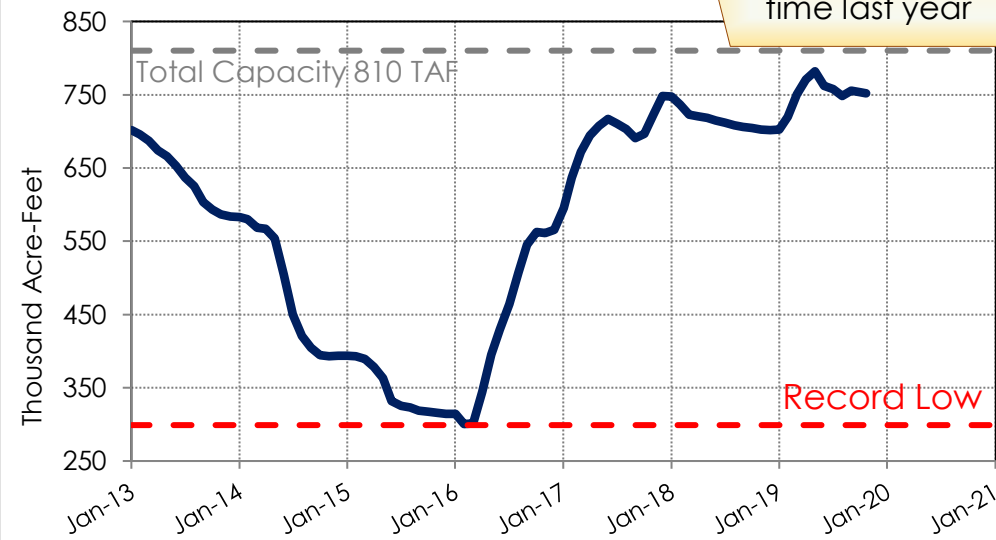
## Highlights

- No snow/precipitation recorded at the Sierras stations
- Snow in the Upper Colorado River Basin is at 78% of normal
- Precipitation in the Upper Colorado River Basin is at 53% of normal

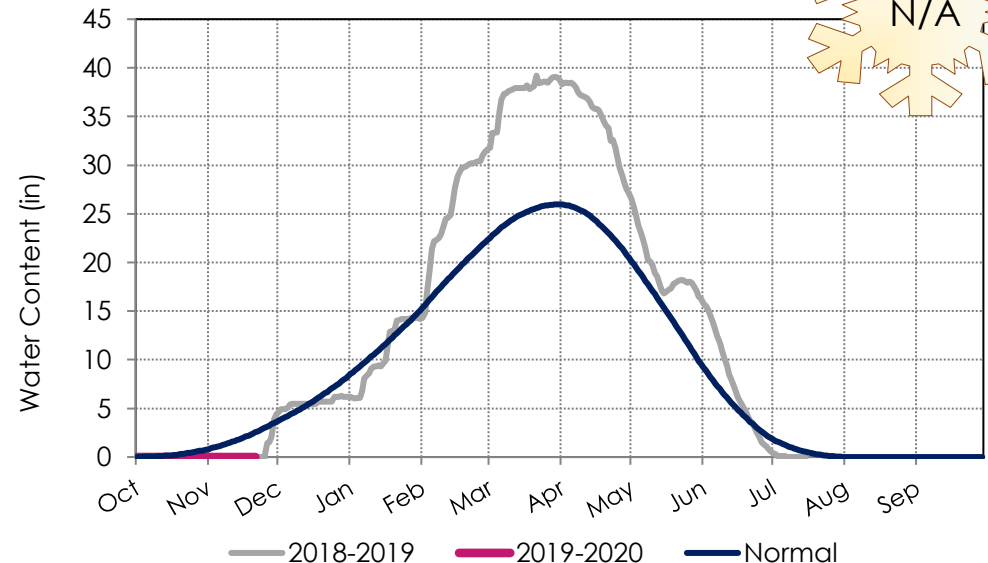
## Diamond Valley Lake Storage

Capacity: 810 TAF

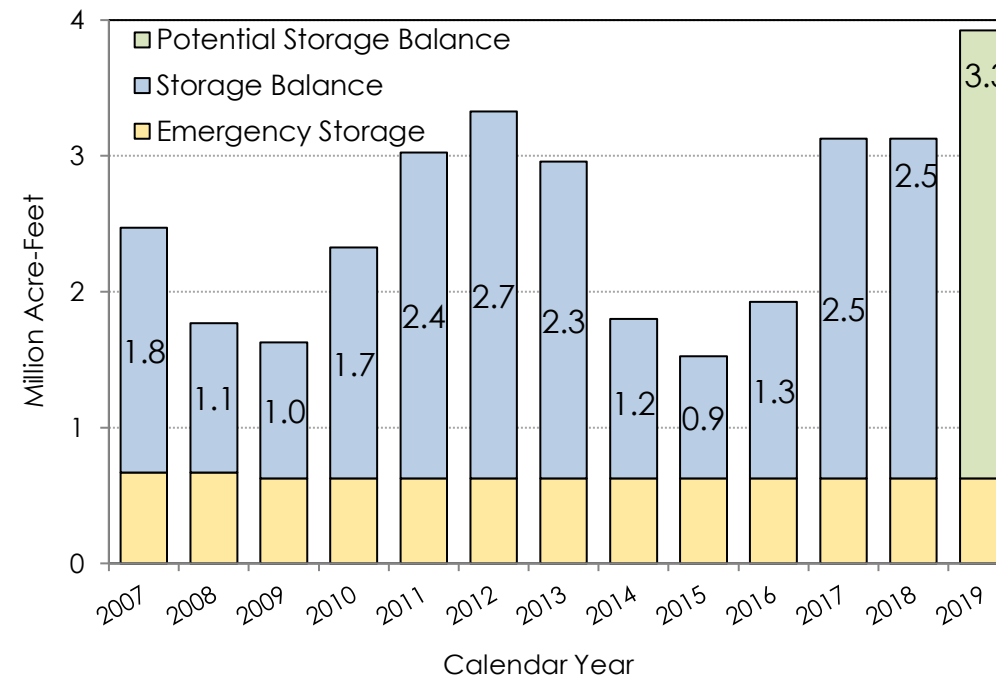
49 TAF more in storage than this time last year



## Southern Sierra Snowpack



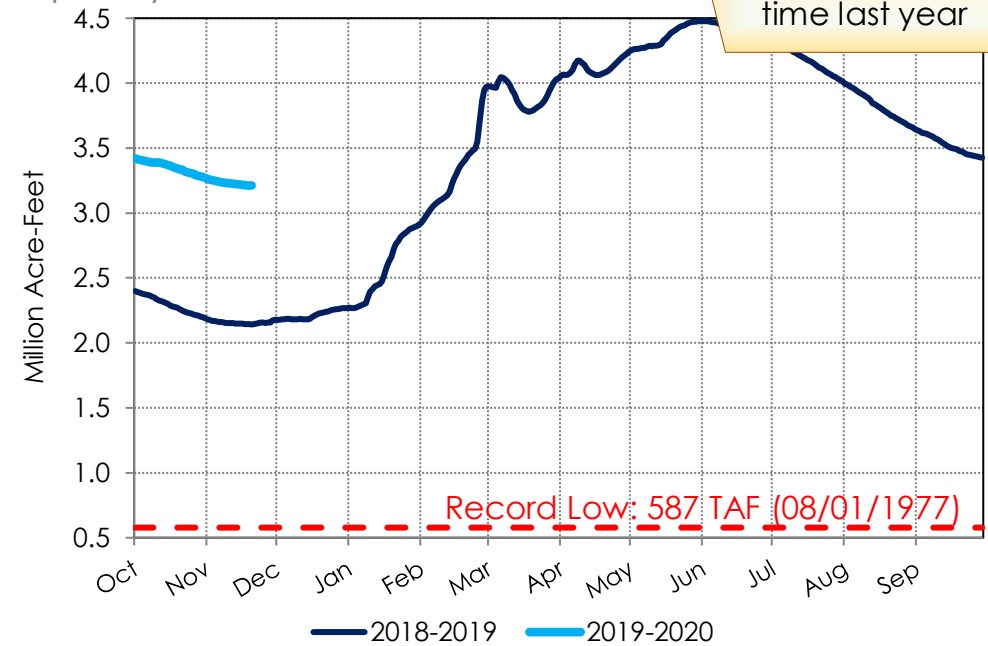
## MWD Storage Reserve Levels



## Lake Shasta Reservoir Storage

Capacity: 4.55 MAF

1.07 MAF more in storage than this time last year



This report is produced by the Water Resource Management Group 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



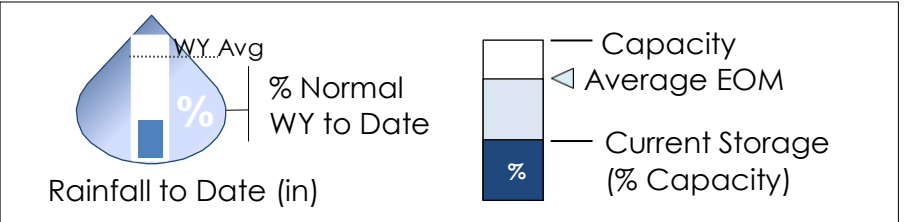
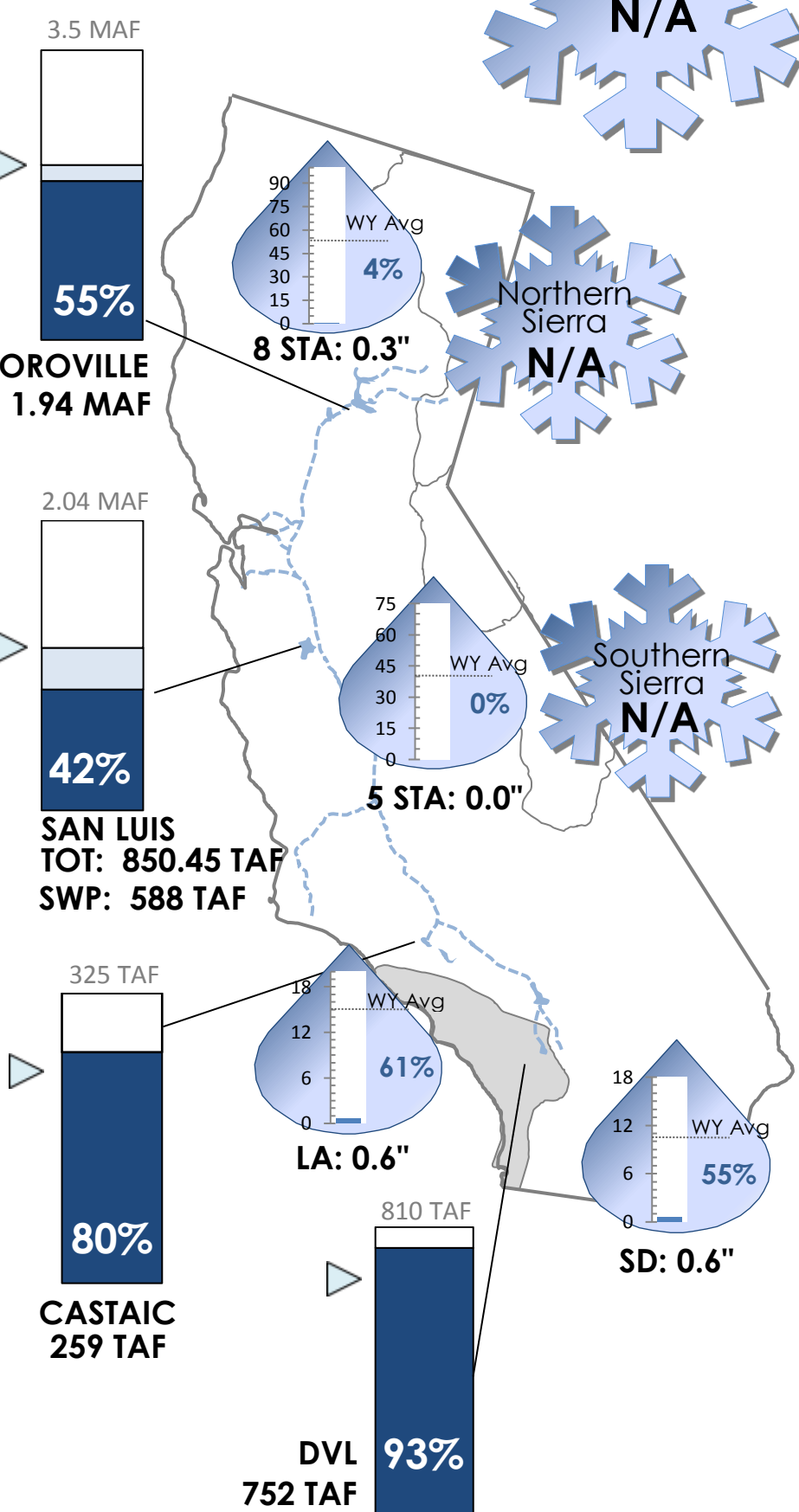
# Water Supply Conditions Report

As of: 11/20/2019

## 2019 SWP Allocation

1,433,625 AF

75% of Table A



Flip Over for CRA Data

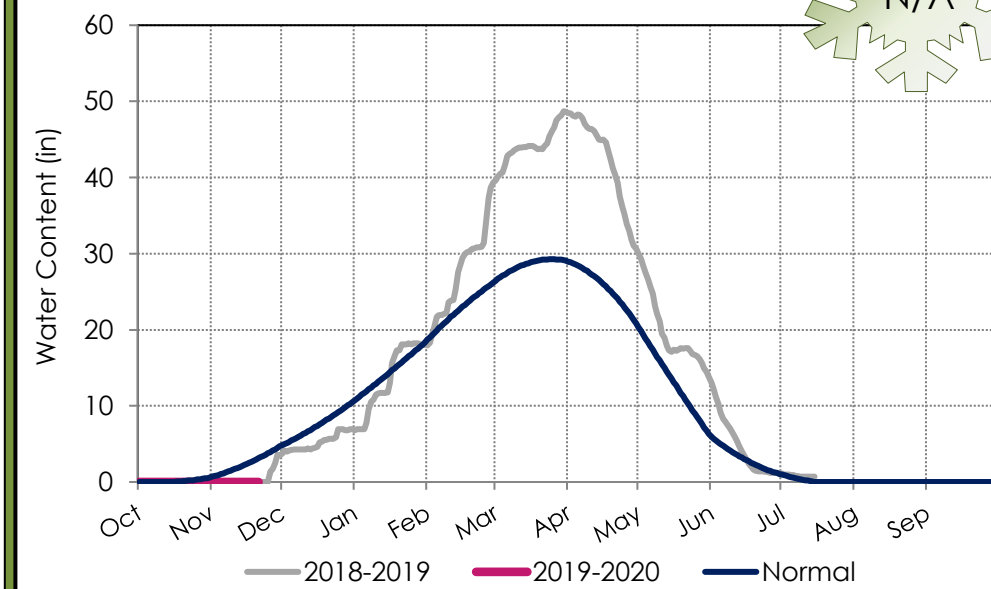
Turn page for more SWP Data



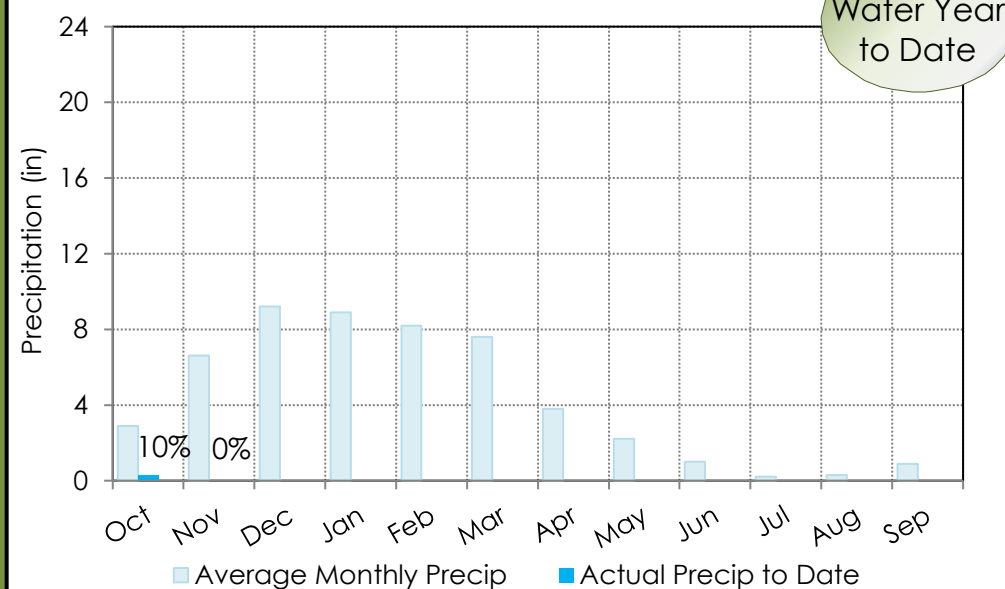
As of: 11/20/2019

## State Water Project Resources

### Northern Sierra Snowpack

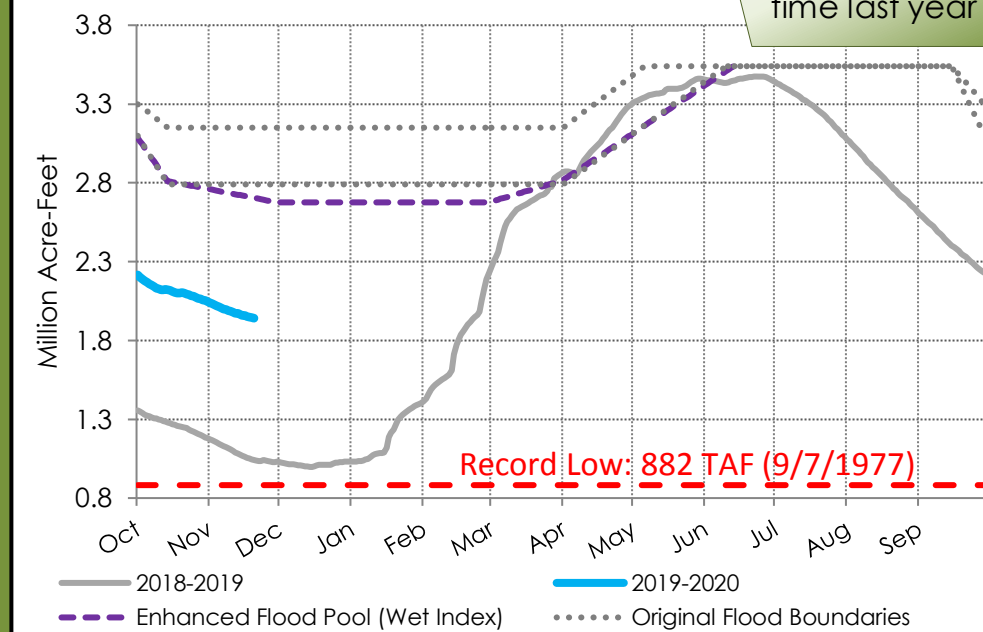


### 8 Station Index Precip

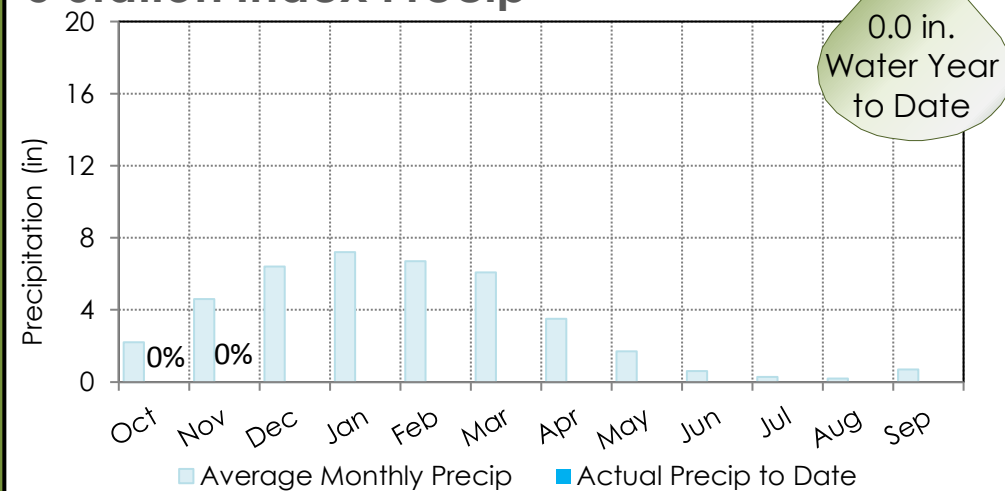


### Oroville Reservoir Storage

Capacity: 3.5 MAF



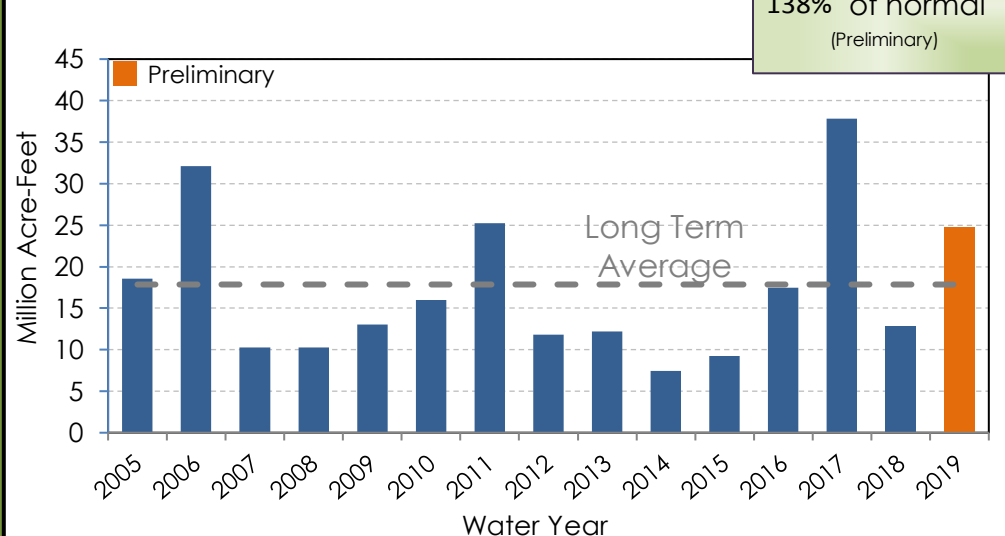
### 5 Station Index Precip



### Other SWP Contract Supplies for 2020 (AF)

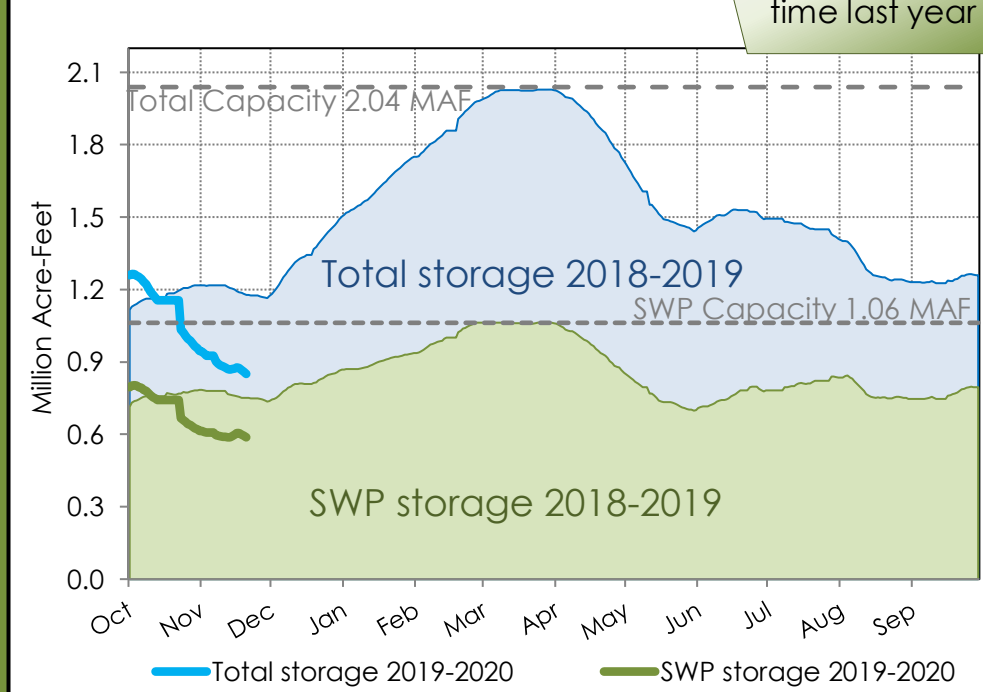
Article 21	TBD
Carryover	TBD
Article 14b	TBD

### Sacramento River Runoff



### San Luis Reservoir Storage

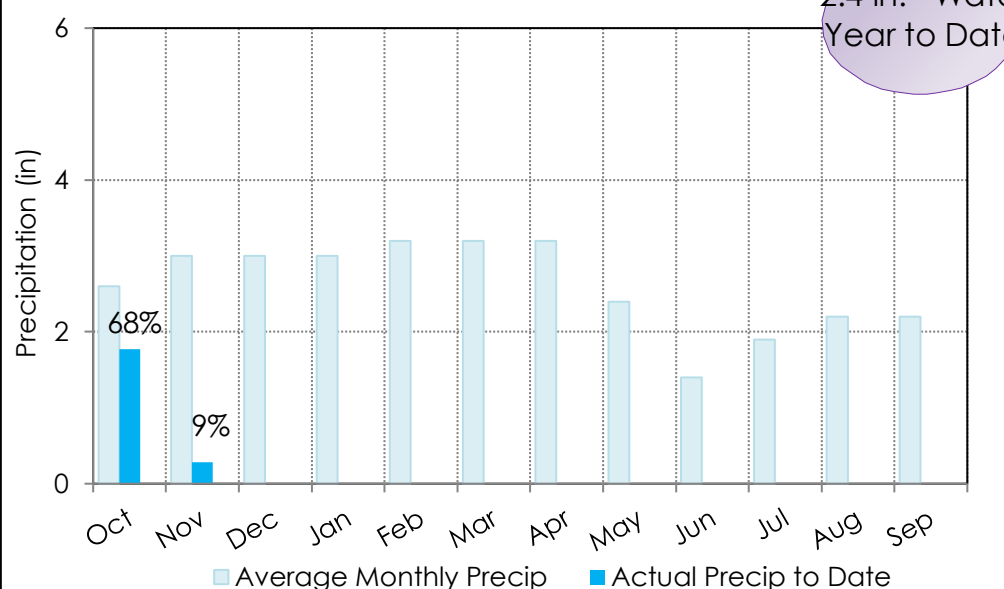
Capacity: 2.04 MAF



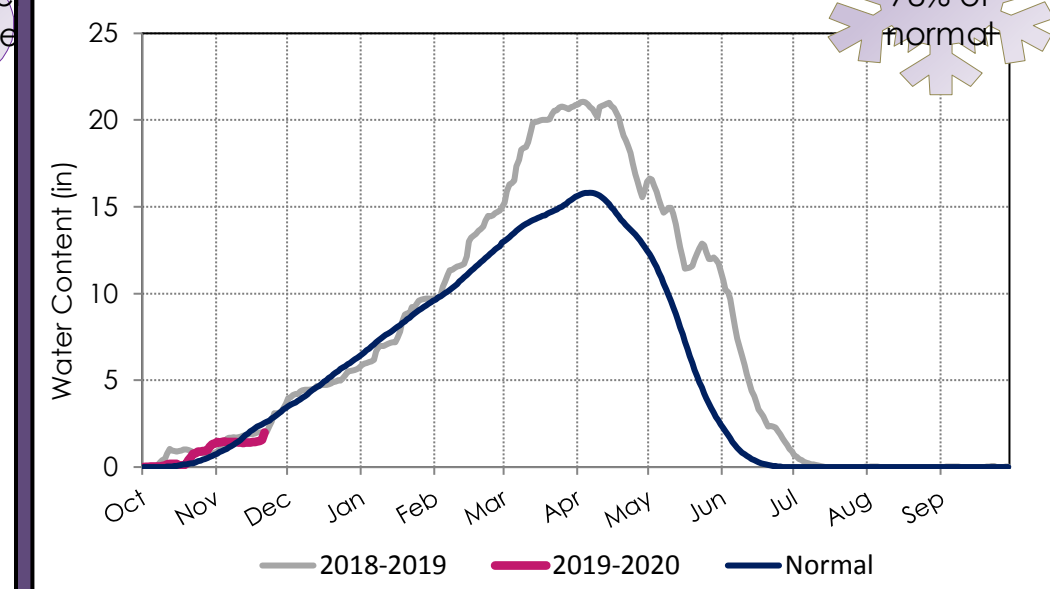
## Colorado River Resources

As of: 11/20/2019

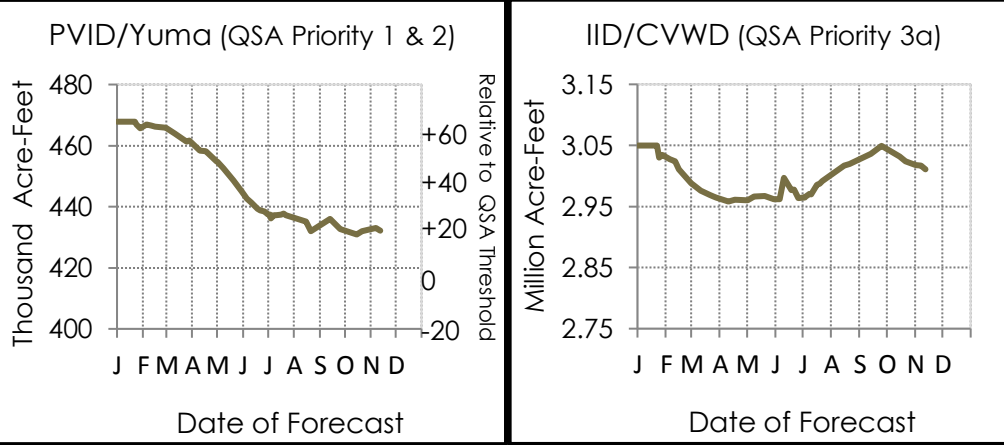
### Upper Colorado Basin Precip



### Upper Colorado Basin Snowpack

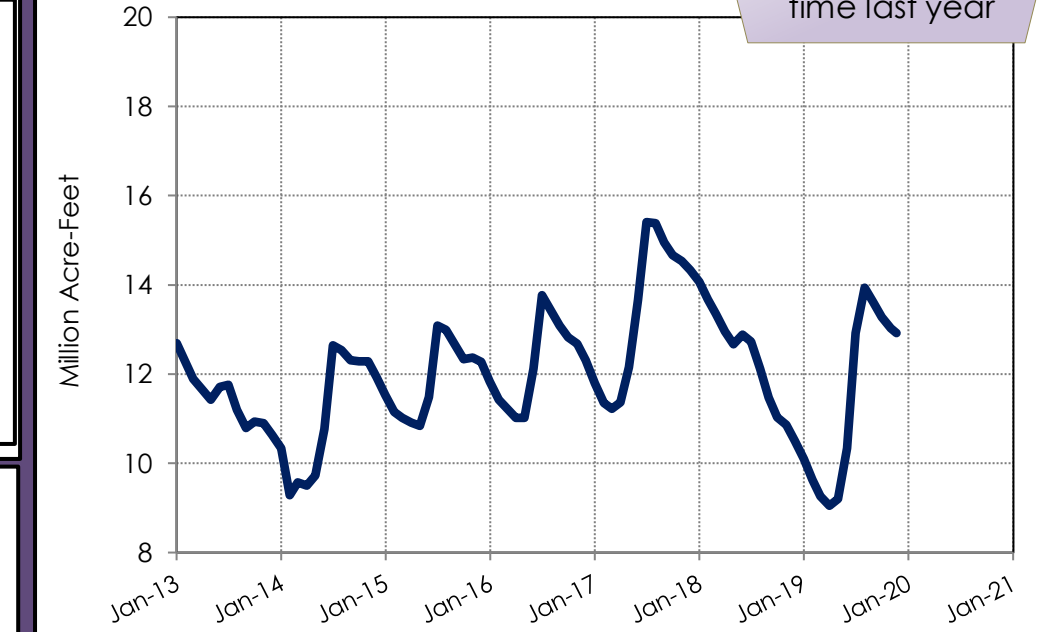


### 2019 Colorado River Ag Use



### Lake Powell Storage

Capacity: 24.3 MAF

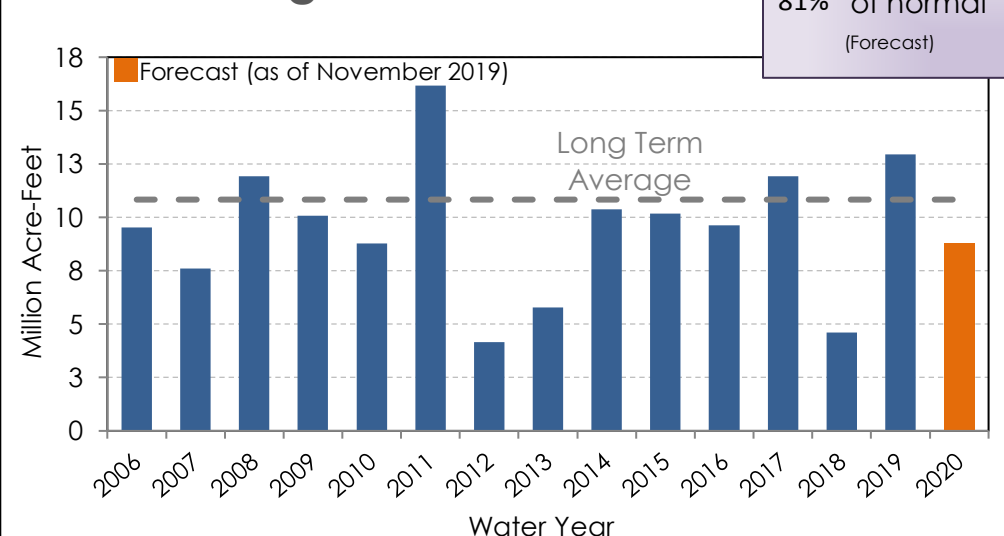


### Lake Mead Shortage/Surplus Outlook

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

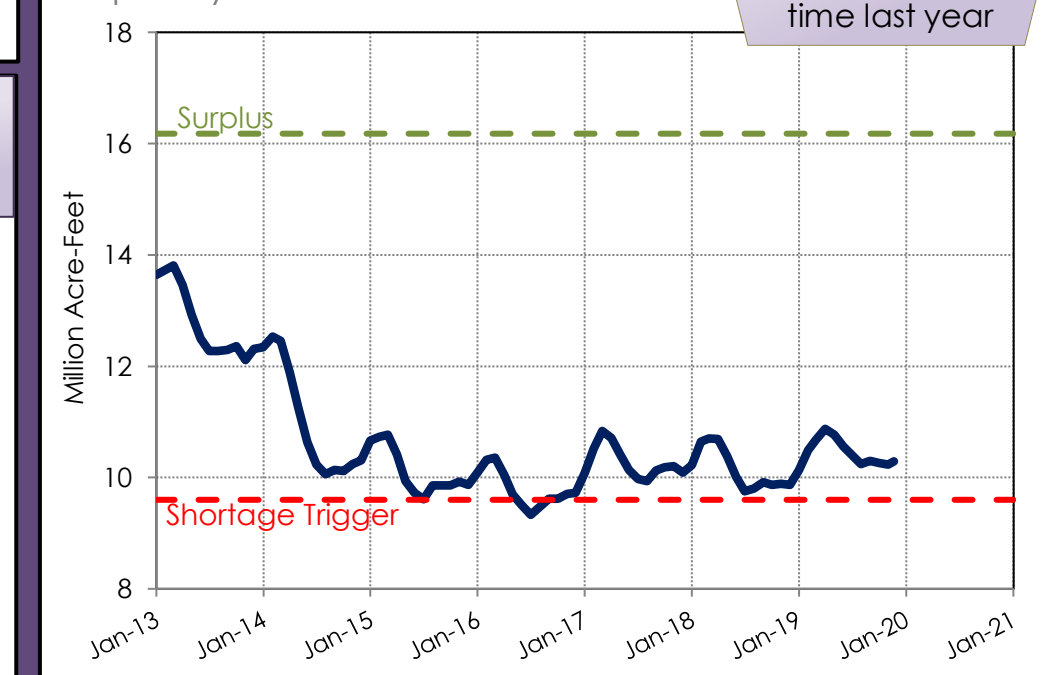
Likelihood based on results from the August 2019 CRSS model run. Includes DCP Contributions.

### Powell Unregulated Inflow



### Lake Mead Storage

Capacity: 26.1 MAF





## Memorandum

**DATE:** November 18, 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 September.**
- OC Water Usage, Monthly, Comparison to Previous Years Water usage in **September 2019 was above average compared to the last 5 years.** A slight increase in overall water usage is projected compared to Fiscal Year (FY) 2018-19. It has been 31 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 **528,000 acre-feet (AF) in FY 2019-20** (this includes ~15 thousand acre-feet of agricultural usage and non-retail water agency usage). This is about **12,000 AF more than FY 2018-19** and is about **12,000 AF less than FY 2017-18.** 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).

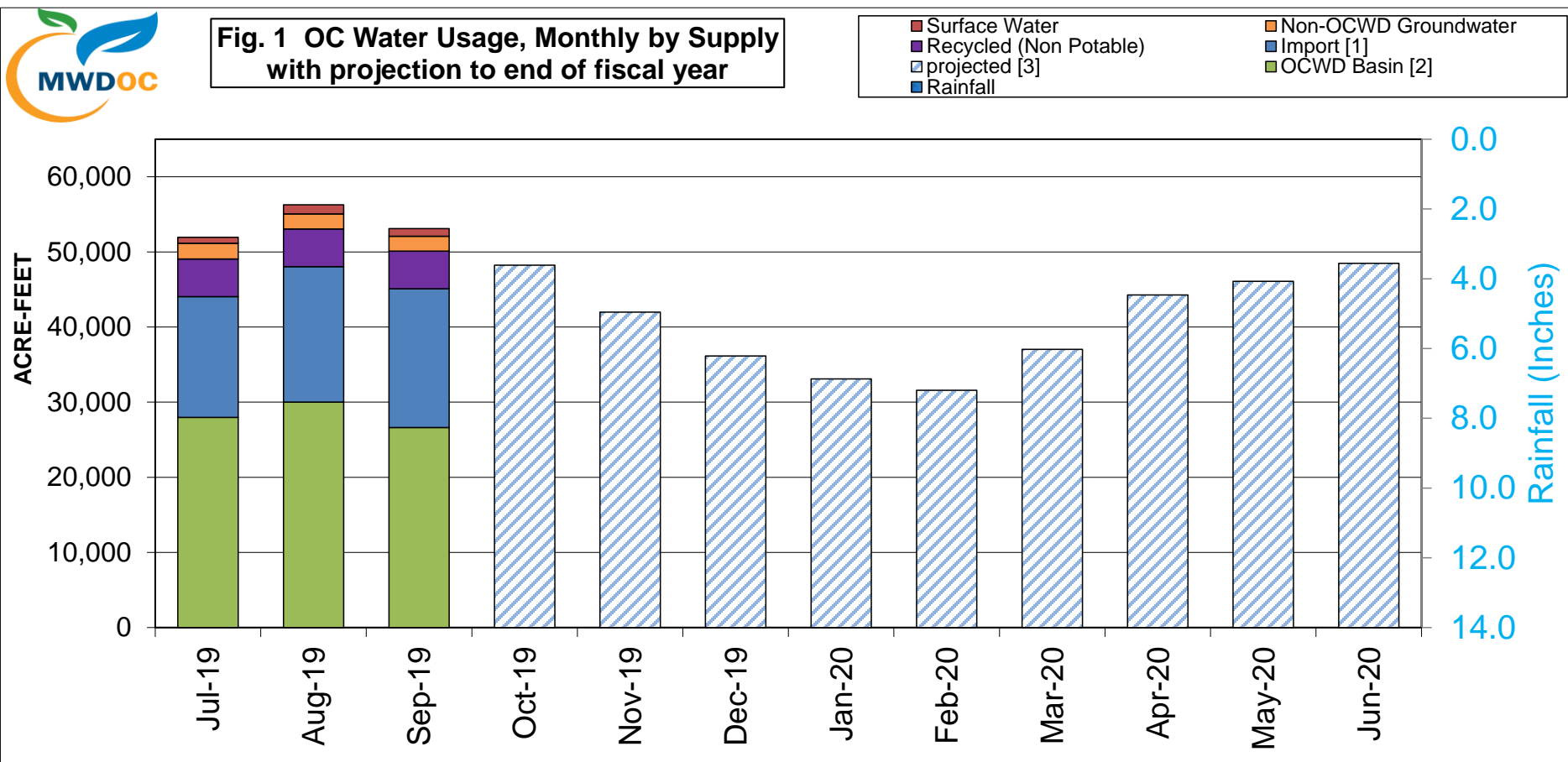
Water Supply Information Includes data on Rainfall in OC; the OCWD Basin overdraft; Northern California and Colorado River Basin hydrologic data; the State Water Project (SWP) Allocation, and regional storage volumes. The data have implications for the magnitude of supplies from the three watersheds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

- Orange County's accumulated rainfall through **October** was below average for this period. Water year to date rainfall in Orange County is **0.03 inches**, which is **4% of normal.**

- Northern California accumulated precipitation through **October** was **10% of normal for this period**. Water Year 2018 was 28% of normal while water year 2017 was 434% of normal. The **Northern California snowpack** was **172% of normal** as of April 1<sup>st</sup>. **Through October, 2.06%** of California is experiencing **moderate drought conditions** while 17.74% 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 October** was **59% of normal** for this period. The **Upper Colorado Basin snowpack** was **128% of normal** as of April 15<sup>th</sup>. **Lake Mead and Lake Powell** combined have about **65% of their average storage volume** for this time of year and are at **46.5% 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 August, Lake Mead levels were **8.00' 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 4% chance in 2021**.



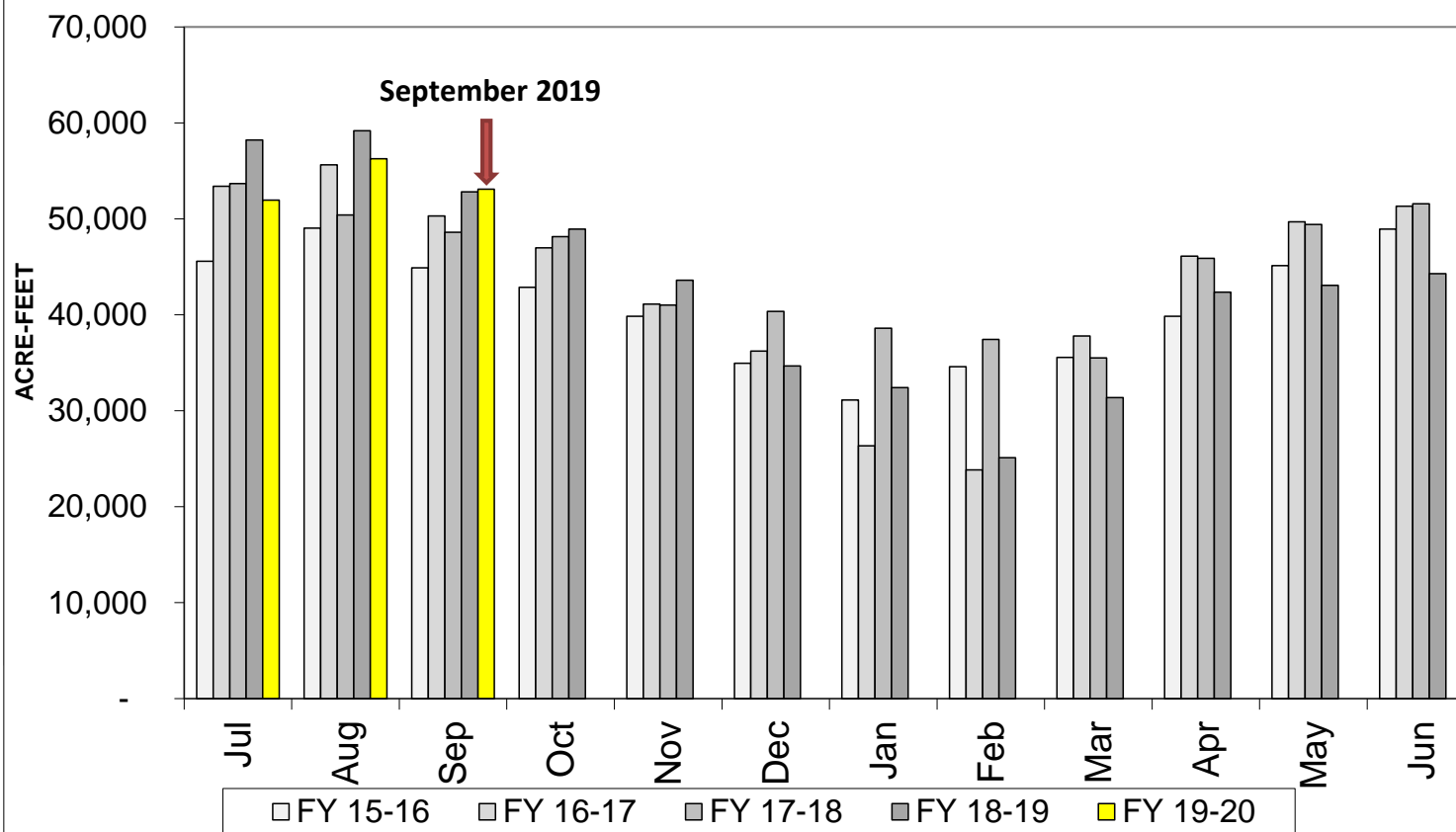
**Fig. 1 OC Water Usage, Monthly by Supply with projection to end of fiscal year**



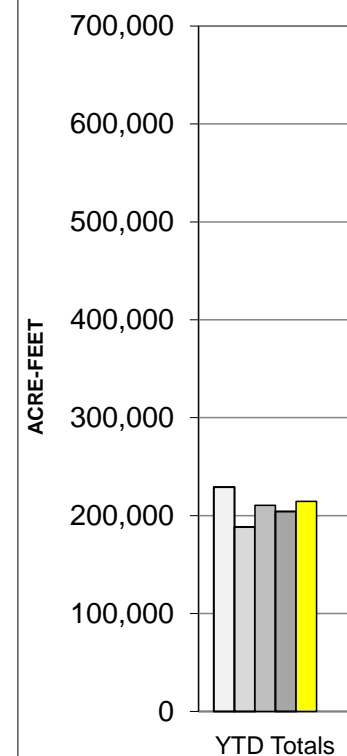
- [1] Imported water for consumptive use. Includes "In-Lieu" deliveries and CUP water extraction. Excludes "Direct Replenishment" deliveries of spreading water and deliveries into Irvine Lake.
- [2] GW for consumptive use only. Excludes In-Lieu water deliveries and CUP water extraction that are counted 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**



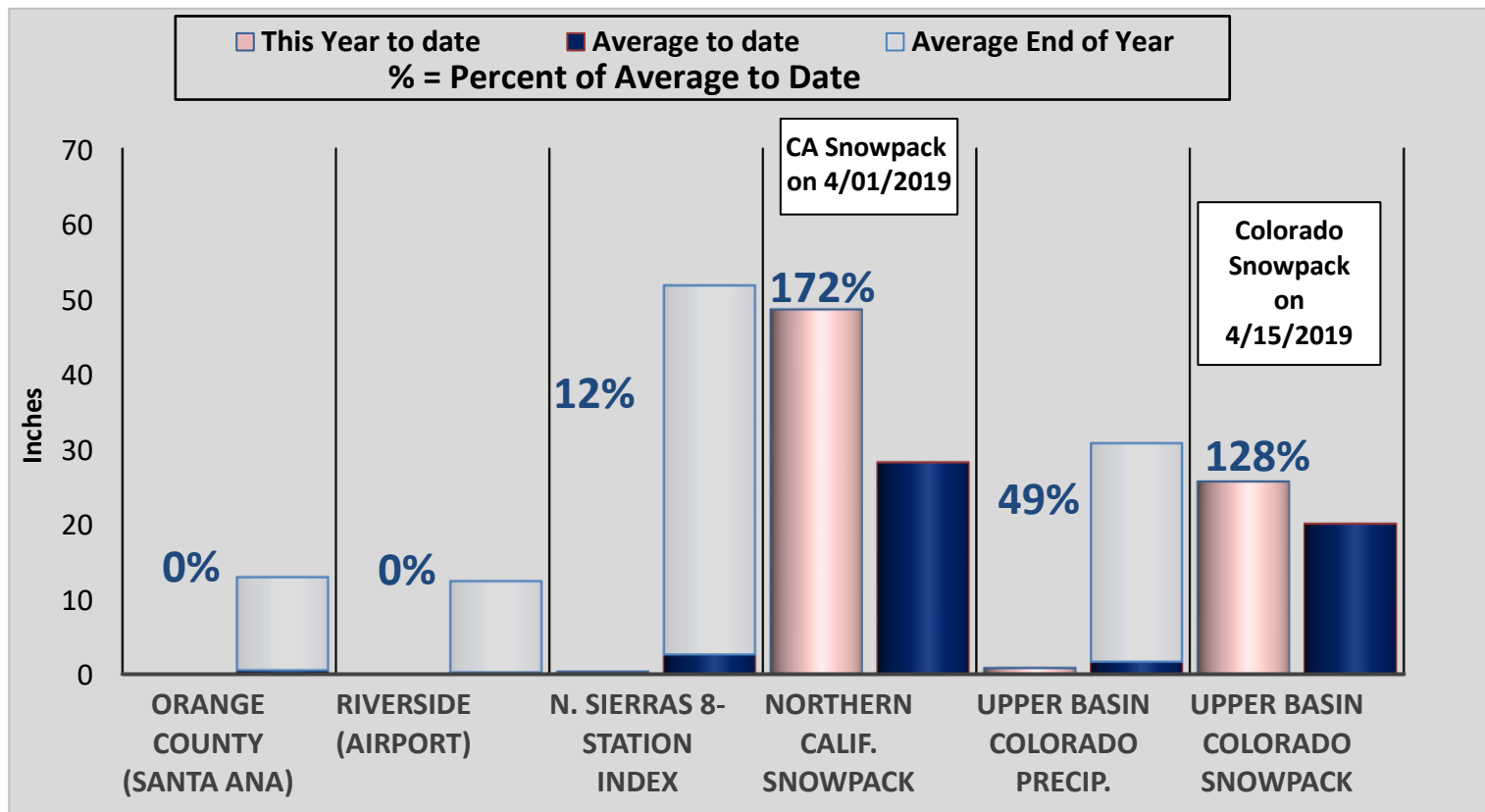
**Partial Year Subtotals**



[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.

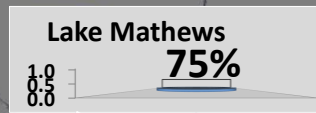
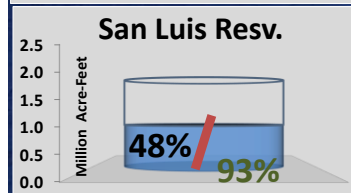
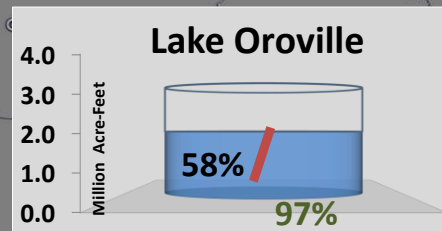
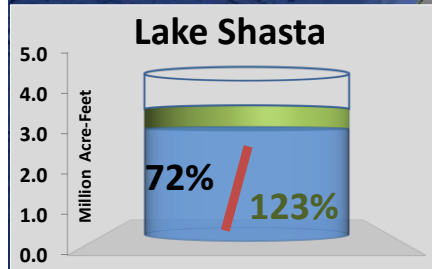


## Accumulated Precipitation for the Oct.-Sep. water year, through Late October 2019



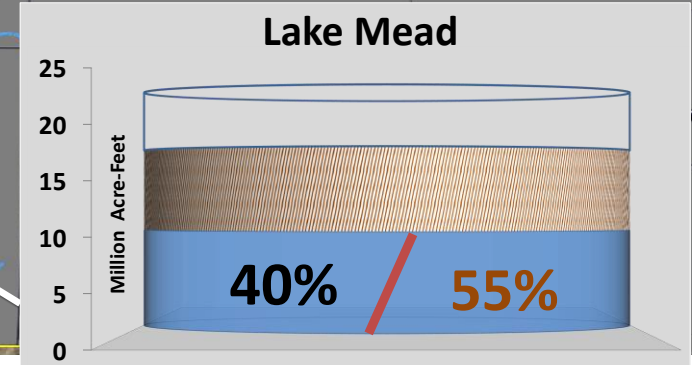
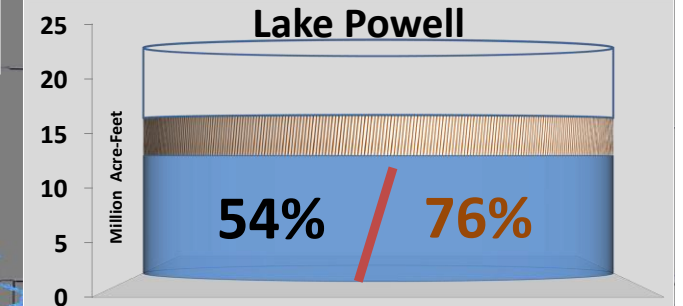
\* The date of maximum snowpack accumulation (April 1st in Northern Calif. , April 15th in the Upper Colorado Basin) is used for year to year comparison.

**State Water Project, Colorado River, and MWD Reservoir Storage**  
as of October 28, 2019

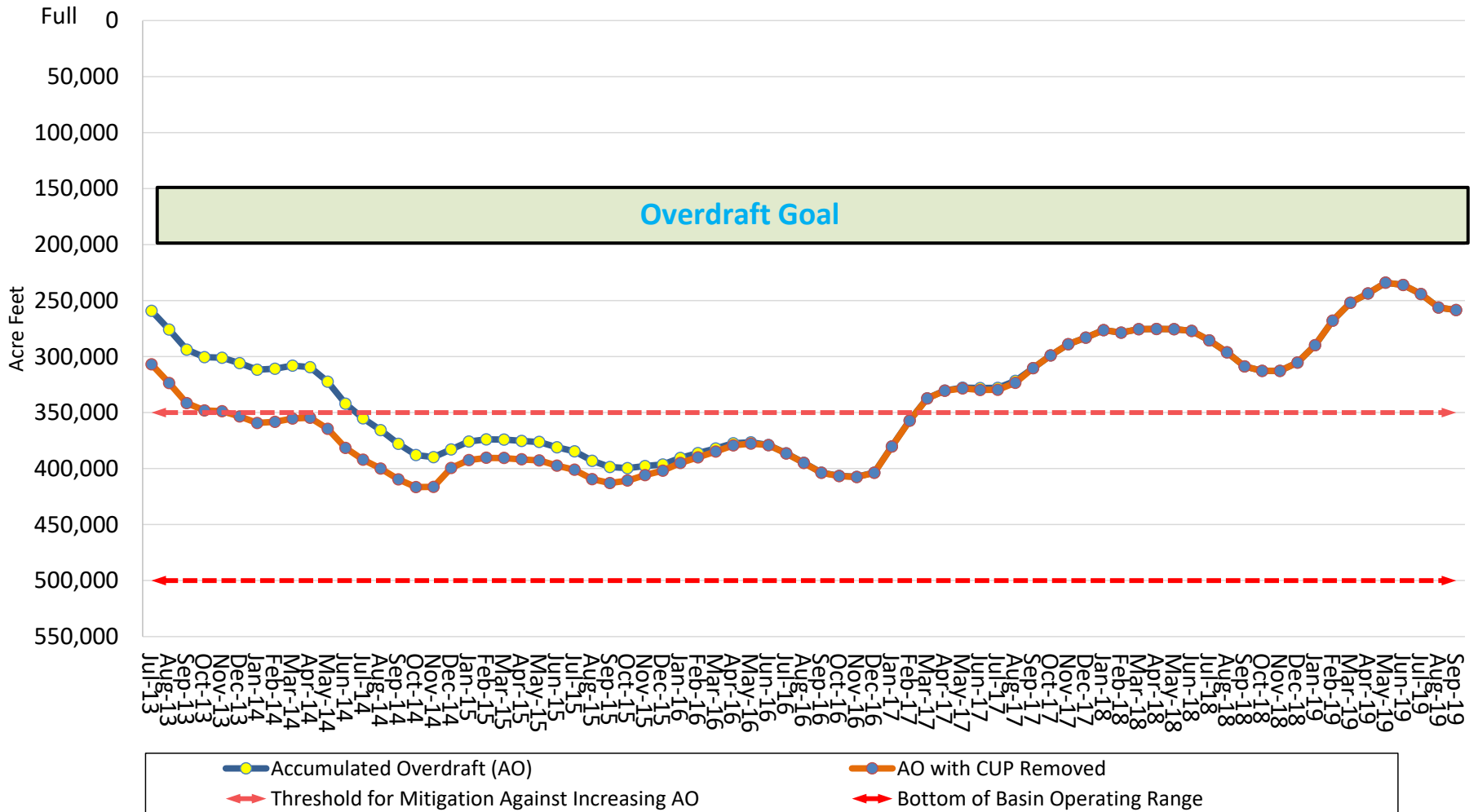


**% of Capacity**

**% of Historical Avg.**



## Accumulated Overdraft of the OCWD Groundwater Basin as of September 2019

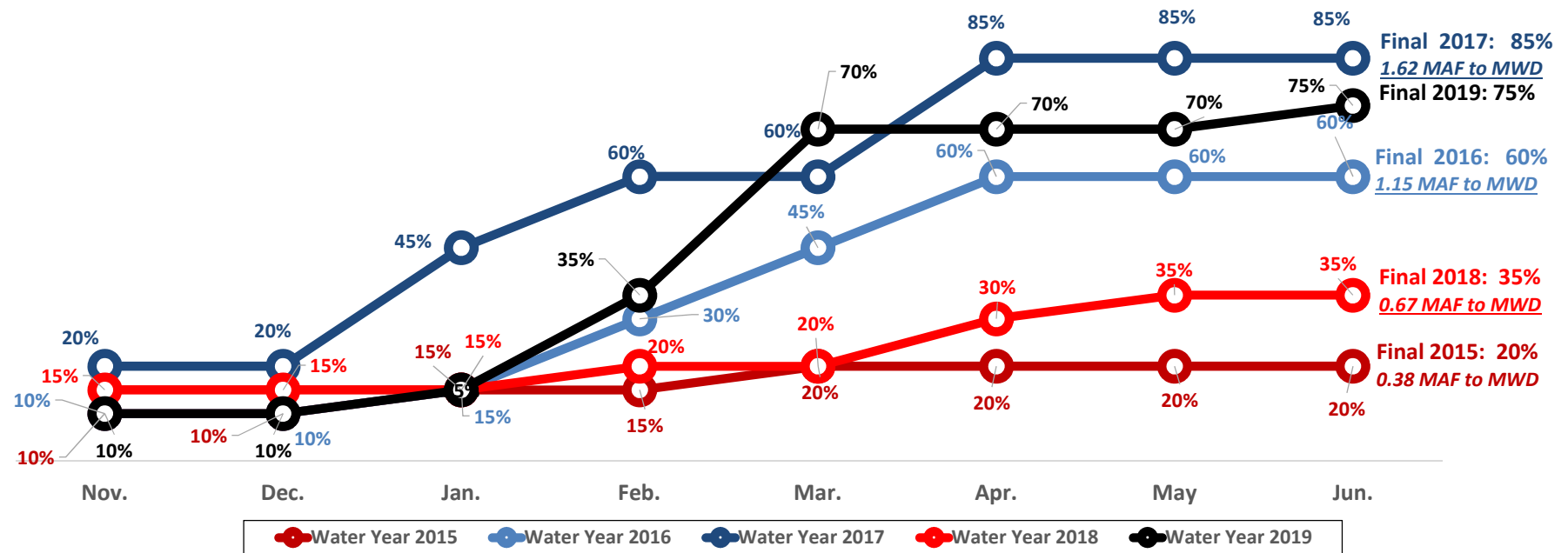


	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
AO (AF)	285,494	296,106	308,748	312,758	312,782	305,367	289,860	267,879	251,876	243,604	234,048	236,005
AO w/CUP removed (AF)	285,494	296,106	308,748	312,758	312,782	305,367	289,860	267,879	251,876	243,604	234,048	236,005
	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
AO (AF)	244,057	256,239	258,445									
AO w/CUP removed (AF)	244,057	256,239	258,445									

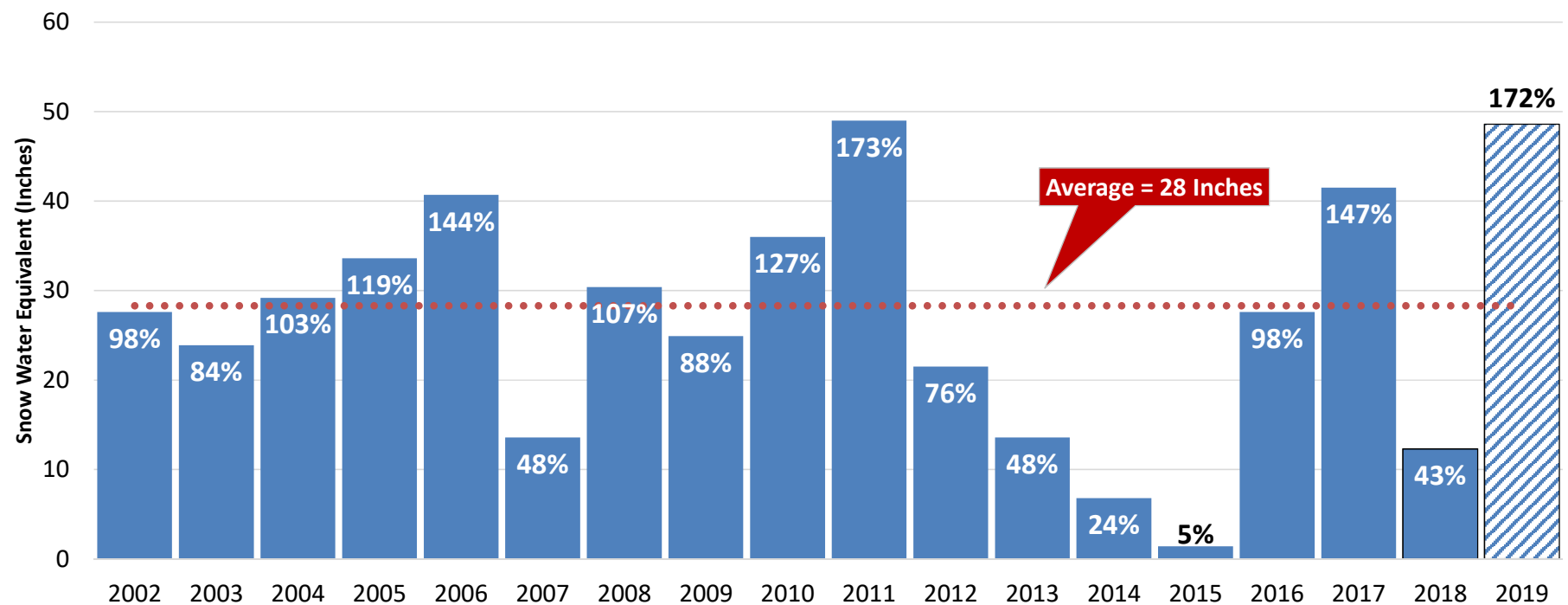


## SWP TABLE A ALLOCATION

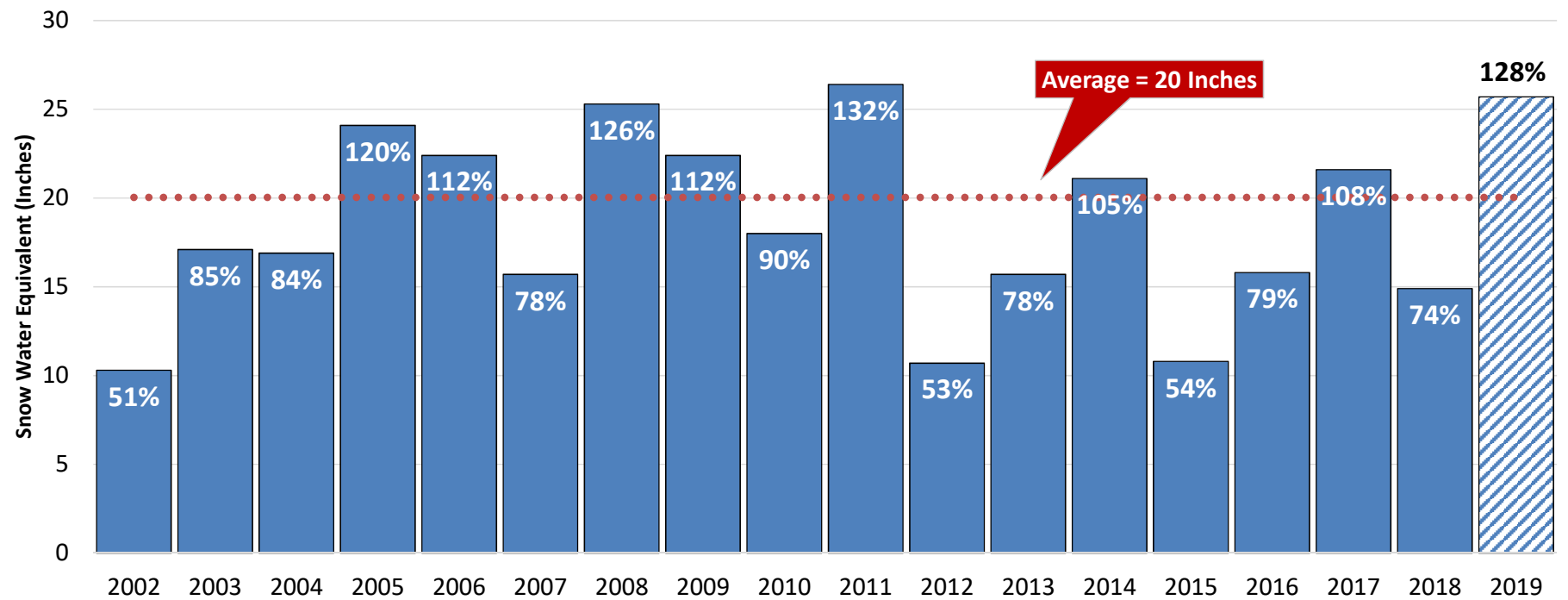
FOR STATE WATER PROJECT CONTRACTORS



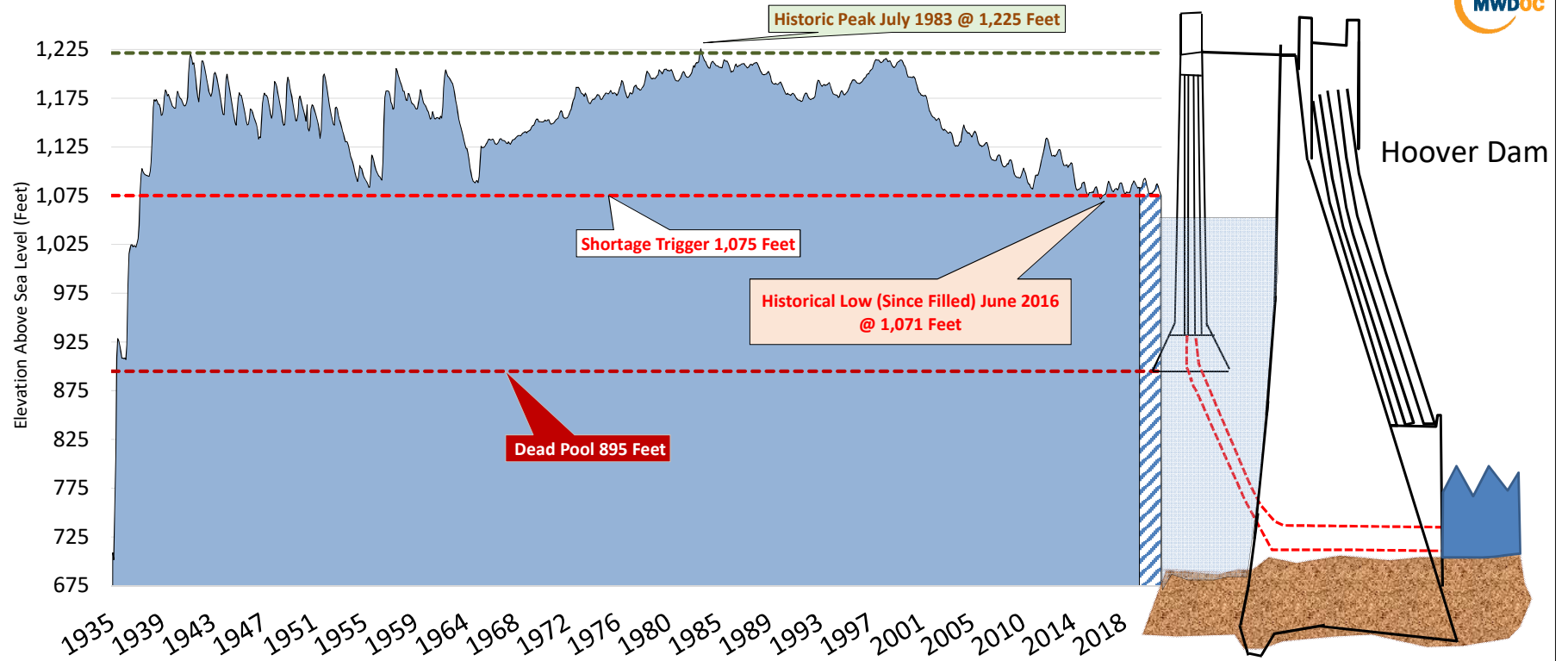
Historical Northern California April 1st Peak Snow Water Equivalent



Historical Colorado Basin April 15th Peak Snow Water Equivalent

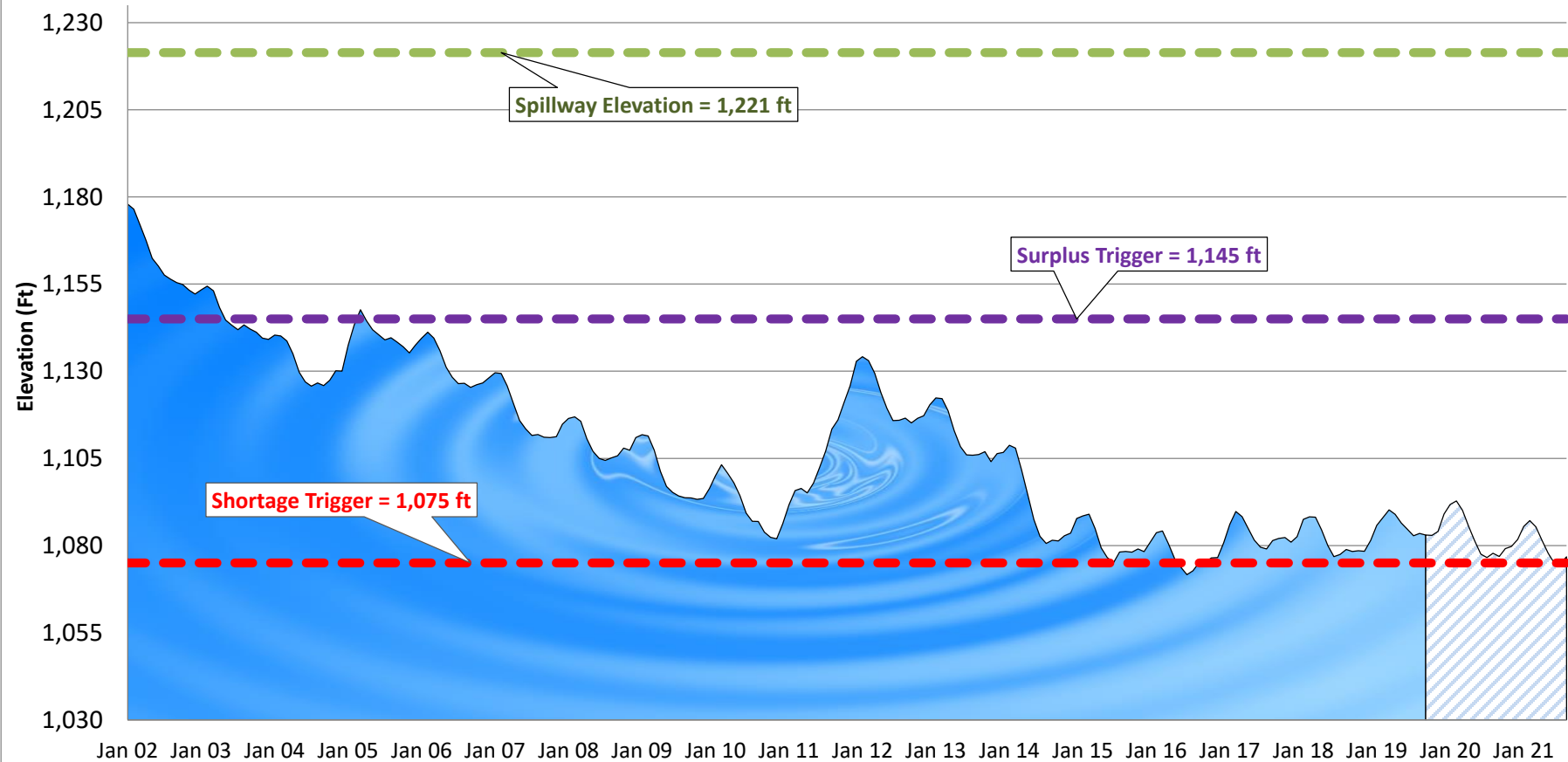


## Lake Mead Historical Water Elevation Level



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

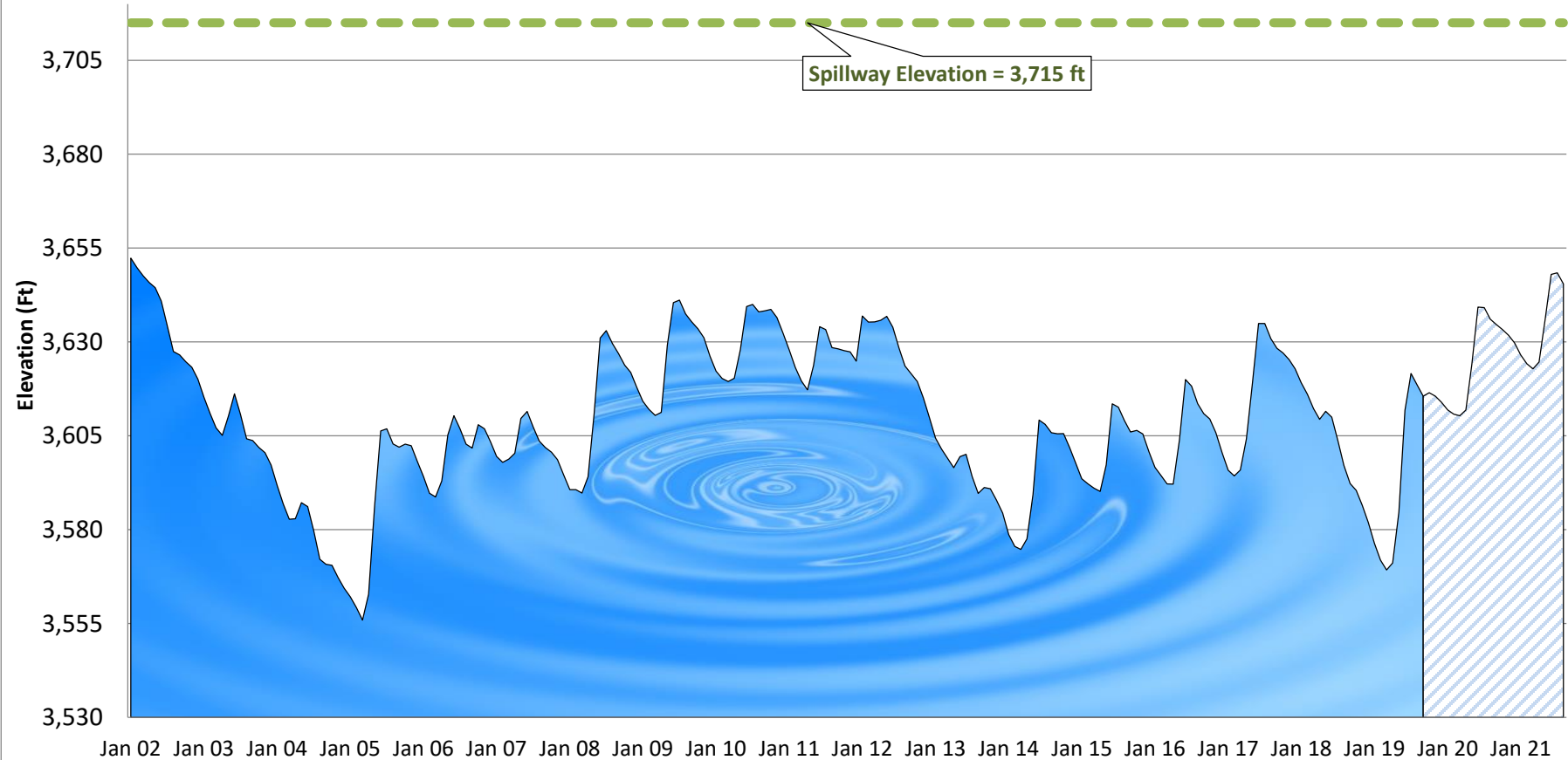
■ Historical    □ Projected





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

■ Historical    ■ Projected



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

**MONTH ENDING:**

October

2019

ODOR COMPLAINTS	NUMBER	LOCATION, ORIGIN, ACTION:		
Outside Laguna Woods Village	1	23191 Stella Court Lake Forest- Cutomer- Cleaned mainlines and corked Manholes		
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				
Other				
TOTAL	0			
ROOT CUTTING	FOOTAGE	COMMENTS:		
Outside Laguna Woods Village	22,382			
Laguna Woods Village	29654			
New World				
TOTAL	52,036			
HYDRO-CLEANING	FOOTAGE	COMMENTS:		
Outside Laguna Woods Village				
Laguna Woods Village				
New World				
Private System				
Hot Spots	15,941			
ETWD TOTALS:	15,941			
SANTA MARGARITA TOTALS:				
COMBINED TOTALS:	15,941			
TV INSPECTIONS	FOOTAGE	COMMENTS:		
Outside Laguna Woods Village		Spent all work resources this month on root cutting maintenance.		
Laguna Woods Village	667			
New World				
Private System				
Other				
TOTAL	667			
Wet Wells	Number	3	MATHIS-LAPAZ-FREEWAY	
Flow Meter/Sampling	Number			
WATER TANK FILLS	70	70,000		

# WILL SERVE REQUEST STATUS REPORT

(October 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
8/16/19	Burgertown USA	Burgertown Sewer Connection	TI	24418 Muirlands	Review	n/a
8/29/19	Merlone Geier Partners	Hunter Court Utility Relocations	TI	24322 Rockfield Blvd	Review	n/a
11/15/19	Kiddie Academy	New Daycare at previous Restaurant	TI	25521 Muirlands Blvd	Review	n/a

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	SPILLED	CONTAINED	SPILLED	
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
September			No		Spills			To							Report
October			No		Spills			To							Report
LEGEND											3	155	151	1,051	
S.D.C = 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												

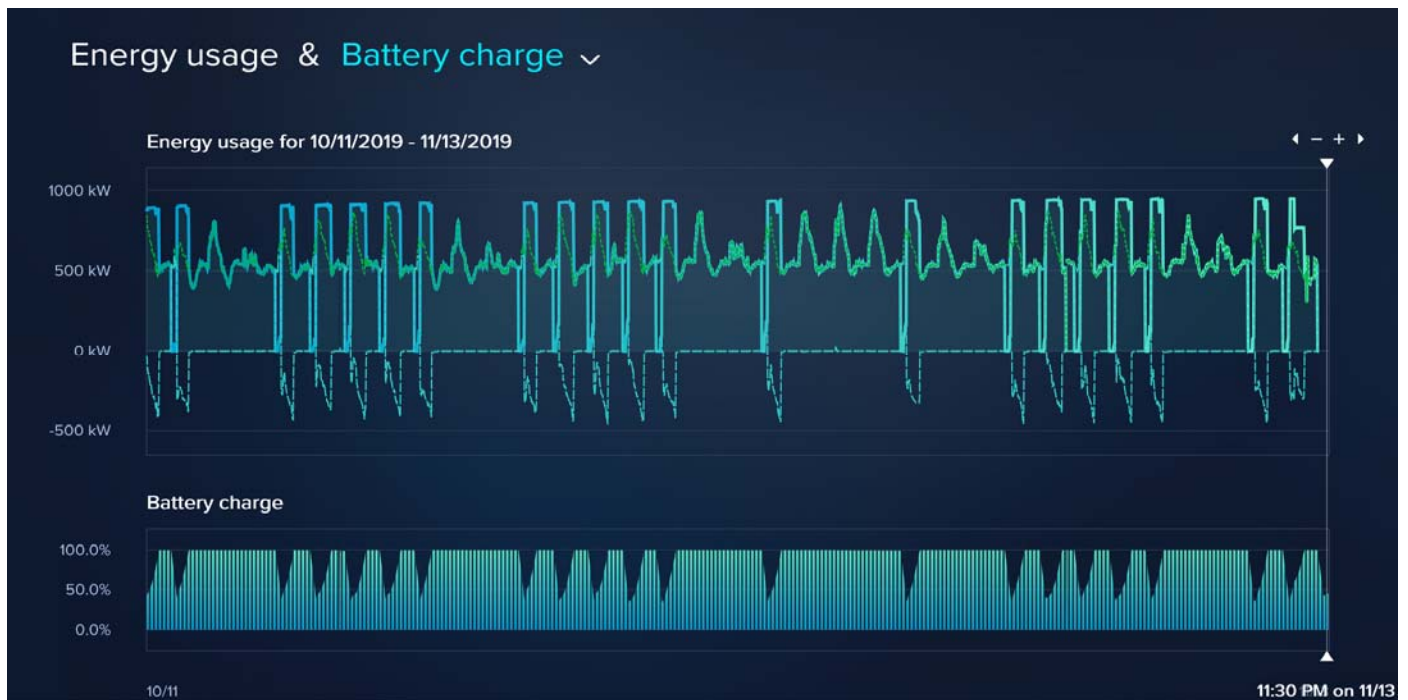


## WRP BATTERY STORAGE SYSTEM

### MONTHLY REPORT

OCTOBER, 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	\$2,113.97
8/13/2019 - 9/12/2019	9 kW	1,070 kW	\$4,593.03	\$3,003.03
9/12/2019 - 10/11/2019	-45 kW	988 kW	\$1,646.72	\$56.72
10/11/2019 - 11/13/2019	-45 kW	949 kW	(\$471.94)	(\$2,061.94)
<b>TOTAL</b>			<b>\$9,471.78</b>	<b>\$3,111.78</b>



**BARKER LEAVITT**  
ATTORNEYS AND COUNSELORS AT LAW  
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WASHINGTON, DC 20007  
(202) 293-4064  
[jimbarker@jcbdc.com](mailto:jimbarker@jcbdc.com)

Item No. 1a

James C. Barker  
Ryan Leavitt

*Municipal Water District of Orange County, California  
Washington Update  
November 12, 2019*

***Impeachment Hearings in the House and the passage of Appropriations packages take center stage in Washington***

At press time, the House of Representatives is slated to begin open hearings tomorrow on whether the President performed any impeachable offenses during his call with the Ukrainian President during July 2019.

Most observers here believe that the House will vote on “article(s) of impeachment before the end of the year and that the Senate is likely to begin an impeachment trial shortly thereafter.

All of the impeachment activity turns up an already charged up atmosphere in the Congress between Democrats and Republicans. In the backdrop of the impeachment drama, House and Senate Leadership still have to come to a series of critical agreements on how to fund the federal government.

This week, key House and Senate Leaders are planning to come to an agreement on how long the next Continuing Resolution (CR) will run. The current funding resolution expires on November 21<sup>st</sup>. There are three different options that are being floated: 1) A new CR that might run until December 13; 2) a new CR that might run until December 20; or 3) a new CR that might run until some point in February.

The two December dates are proposed as a way to try and motivate the House and the Senate to come to an agreement before the Christmas break. The February date is suggested because the likely Senate Impeachment trial would be over by this period and it may be difficult to complete the appropriations process before the Christmas break period.



Why is it taking so long for the House and the Senate to come together on Appropriations?

We have a divided Congress and you will remember that the House started the appropriations process earlier this year with no agreement from the Senate on any funding numbers. The Senate, in turn, was able to reach an agreement with the White House on funding numbers in early August. The Senate funding numbers are generally less than the House numbers—which means that the House is likely to have to “reduce” some of its numbers in an ultimate conference bill with the Senate. These issues are being discussed this week.

The two funding bills we are watching the most, the Energy and Water Bill and the Interior and EPA Bill, are largely considered as non-controversial this year. Other issues, such as the spending for border wall related activities are key issues again this year for the President and Congressional Democrats who are attempting to block or reduce such spending.

One of the issues we are watching closely is the \$8.3 Million Desal Grant for the South Coast Water District which is contained in the Energy and Water Appropriations bill.

We have been talking with key offices regarding the potential glitch if the Energy and Water bill does not pass—and everyone so far is saying that they think the bill will pass later this fall or early winter in one of the packages that is approved by the Congress. We are monitoring this situation and will keep you posted on developments.

### ***PFAS:***

#### ***The National Defense Authorization Act (NDAA) Conference***

Since our last report, key conferees have continued to meet on various issues on the National Defense Authorization Act (NDAA). PFAS is one of the many controversial issues. Chairman Inhofe of the Senate Armed Services Committee has introduced a “skinny” bill, with no PFAS provisions and has also left out other controversial defense related issues in an effort to try and move a bill quickly this month. He is hoping that his bill might jump start the final negotiations or alternatively, pass a defense bill that that the pentagon urgently wants right now.

Recapping the background on the PFAS issue, the most controversial issue remains the so-called Dingell amendment that passed on the House side by voice vote to designate all PFAS as “hazardous” for the purposes of Superfund cleanups. National water stakeholder groups have come out strongly opposing the Dingell language.

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.

MWDOC has been active in contacting all 101 Conference Committee Members of Congress with a letter as well as visiting with many of the offices in person.

MWDOC has also provided a “carve out” amendment to Congressman Cisneros’s office—who is a Conferee in the negotiations. This amendment would exempt water districts from liability due to the Dingell amendment, should the Dingell Amendment be included in the final bill. It is the same amendment that other national water groups are circulating.

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.

Sixty seven Members of the House wrote a letter to the NDAA Conferees stating that they would oppose the Conference Report if it didn’t contain some form of Dingell related language.

Senator Feinstein issued the following statement on October 15, 2019 regarding the PFAS issue and the NDAA:

“With reports that 300 wells throughout California are contaminated with toxic chemicals linked to cancer and other health issues, it’s clear the state and federal government, and in particular the Defense Department, must step up and address this problem. These chemicals, used in firefighting foam, clothing and household goods, have seeped into drinking water in dozens of communities up and down California, often near military bases. A study by the Los Angeles Times found these chemicals – perfluoroalkyl and polyfluoroalkyl substances, collectively known as PFAS – in 86 water systems throughout the state. The CDC has linked PFAS exposure to liver damage, high cholesterol, thyroid disease and increased risk of asthma. California’s Office of Health Hazard Assessment found links between a type of PFAS and pancreatic and liver cancers.”

“The bottom line is that this is a dangerous chemical that has no place in our drinking water. Now that we know these water sources are contaminated, two things need to be done. First, we need to end the use of these chemicals that we know are linked to health problems. And second,



we need to ensure that federal cleanup efforts by the Defense Department are thorough and leave behind clean, uncontaminated drinking water. The Senate and House are currently negotiating the *National Defense Authorization Act*. We need to ensure the final bill bans the use of these dangerous chemicals and fully funds the cleanup of contaminated water sources. If necessary I plan on introducing additional legislation to prohibit any use of PFAS tied to health problems.”

### ***THE DELTA BIOLOGICAL OPINIONS:***

On December 22, 2019, the Department of the Interior released their long-awaited California Bay Delta biological opinions which would create greater flexibility in managing federal water supplies. Water managers are still studying the opinions. Both California Republicans and Democrats issued press statements on the Trump Administration’s action. See these statements below:

#### ***California House Republican Delegation Statement on New Biological Opinions Regarding Water Project Operations***

Press Release Oct 22, 2019

Today, Congressman Kevin McCarthy (CA-23), Congressman Devin Nunes (CA-22), Congressman Ken Calvert (CA-42), Congressman Tom McClintock (CA-04), Congressman Doug LaMalfa (CA-01), Congressman Paul Cook (CA-08), and Congressman Duncan Hunter (CA-50) released the following joint statement after the announcement of new biological opinions finalized by the US Fish and Wildlife Service and the National Marine Fisheries Service regarding the operation of the Federal Central Valley Project (CVP) and the California State Water Project (SWP):

*“For years, communities across California have been denied water, while protected fish species have also struggled due to decade-old regulations based on even older science and data. Yesterday’s actions by the U.S. Fish and Wildlife Service and the National Marine Fisheries Service to replace these failed regulations with new biological opinions based on the latest science and data is a welcome step in the right direction. It is our hope that the implementation of these new regulations will bring better protections for listed fish species and the environment, as well as increased flexibility regarding CVP and SWP operations to help ensure our constituents receive the water they are entitled to or contract and pay for.”*

##

***California Democratic Congressional Members Release Statement on Updated Biological  
Opinions for Central Valley Project***

Press Release Oct 22, 2019

WASHINGTON, DC—Congressmen Jim Costa (CA-16), John Garamendi (CA-03), Josh Harder (CA-10), and TJ Cox (CA-21) and U.S. Senator Dianne Feinstein released the following statement on the updated biological opinions for federally protected fish species and coordinated operations of the Central Valley Project and State Water Project:

*“The Endangered Species Act requires periodic reviews to determine the best available science. The federal government’s science for Chinook salmon and Delta smelt was more than a decade old and needed to be updated, especially given climate change.*

*“We are examining the new biological opinions to ensure they incorporate the adaptive management and real-time monitoring needed to properly manage the Central Valley Project for the benefit all Californians. The new biological opinions must also provide the scientific basis needed to finalize the voluntary settlement agreements between the State Water Resources Control Board and water users. We look forward to the State of California’s thoughtful analysis of the biological opinions.*

*“In Congress, we continue working to secure federal investment in the Central Valley Project to meet California’s future water needs and support habitat restoration efforts called for in the updated biological opinions.”*

##

We have met with all of the Orange County congressional offices and they expressed the general comment that they were pleasantly surprised with how “measured” the Governor’s comments were.

*JCB 11/12/19*





### **Memorandum**

To: Municipal Water District of Orange County  
From: Syrus Devers, Best Best & Krieger  
Date: November 18, 2019  
Re: Monthly State Political Report

### **Legislative Report**

The Legislature remains on break until January. As mentioned in last month's report, there was no way PG&E was going to get through the interim without enduring informational hearings related to wildfires. The Senate Energy, Utilities & Communications Committee will hold a hearing on Monday the 18th to look at issues related to public safety power shutoffs, or PSPS's. Impacts to water districts will be on the agenda. Some public safety experts are questioning the effectiveness of PSPS's to prevent fires, and point out that if a fire does start where the power is shutoff it can hamper efforts to alert the public and complicate fighting the fire.

The Assembly had a special primary election to fill the seat vacated by now Senator Brian Dahle (R). His wife Megan ran on the Republican ballot and won easily in this safe Republican district, but not well enough to avoid a runoff. She'll face Democrat Elizabeth Betancourt in a yet to be scheduled general election, which will likely coincide with the March 3rd primary.

### **Administrative Report**

PFOS and PFAS regulations continue to be the lead issue in Sacramento, and with good reason. OEHHA held a technical forum on PFOA in Sacramento on October 17th that was attended by BB&K, as well as a workshop on the Human Right to Water the following day. This was well-timed since the point advocates are driving home is that getting it wrong on notification and response level for PFAS and PFOA will undermine efforts to make drinking water affordable. ACWA also hosted a call related to water affordability attended by the Division of Drinking Water and SWRCB. Unfortunately there is little to report from all of this activity. In every case the administration representatives were in "listening mode" although the discussions were in depth.

It appears some headway may have been made on both issues since administrative representatives signaled that they are not going to rush out new regulations for PFAS/PFOA. SWRCB also posted



**BEST BEST & KRIEGER**  
ATTORNEYS AT LAW

new results of testing for 600 drinking water wells as well as an interactive map where the public can view test results. The map can be viewed here:

<https://gispublic.waterboards.ca.gov/portal/apps/webappviewer/index.html?id=4feba1766c224dc99eadea06ef3bd019>

# The County of Orange Report

November 12, 2019  
by Lewis Consulting Group



The most recent Orange County LAFCO meeting was held on November 13<sup>th</sup>, after our print deadline. Any matters of consequence will be briefed at the November 18<sup>th</sup> PAL meeting.

Items of interest on the agenda include:

- 7A Annexation of 84 unincorporated acres to the City of Yorba Linda to allow for residential development (Cielo Vista Project)
- 7B Receipt of first quarter (fiscal year) comprehensive quarterly report
- 8A Reorganization of small unincorporated island near 17<sup>th</sup> Street and Tustin Avenue to the City of Santa Ana
- 9A Fiscal year 2018-2019 LAFCO Annual Audit
- 9C Amendment to OC LAFCO accounting and financial policies
- 9D Adoption of 2020 meeting calendar

## **Public Policy Institute of California Releases Water Report**

The PPIC in October released a report entitled Priorities for California's Water. The full report may we accessed at [www.ppic.org](http://www.ppic.org).

The summary of the report includes these key points, highlighting priorities for improving water management.

- **Modernizing the water grid:** Addressing infrastructure weaknesses and gaps—coupled with more flexible management—is essential for reducing the costs of future droughts and floods.
- **Preparing for changing supply and demand:** Developing a portfolio of cost-effective supply and demand tools can help California weather droughts, accommodate population growth, and bring groundwater basins into balance.
- **Providing safe drinking water:** More stable funding has been secured to improve quality and reliability in small, mainly rural poor communities, but more work is needed to tackle this challenge.
- **Reducing fire risk in headwater forests:** The state's mountain forests—a major source of water—are in poor health. Active management can reduce the risk of extreme wildfires and maintain the benefits that forests provide.
- **Improving the health of freshwater ecosystems:** A new approach to managing water for freshwater ecosystems and species can help them adapt to a warming climate.



In addition, the report focuses on two key watersheds of the Colorado and the Sacramento-San Joaquin basins. Four key principles highlighted are:

- **Flexibility** of institutions, rules, and infrastructure to help manage increased volatility and build resilience to changing conditions.
- **Incentives** to encourage and enable local agencies and individuals to implement smarter, more flexible management systems.
- **Alignment** of objectives and regulatory approaches across agencies to make it easier to trade water, recharge aquifers, and restore forests and freshwater ecosystems.
- **Multiple-benefit approaches** that tackle several issues together—such as flood protection, recharge, and habitat—to broaden cooperation and leverage more sources of funding.

**USC Dornsife**  
Dana and David Dornsife  
College of Letters, Arts and Sciences  
**Los Angeles Times**

# POLL

On November 7, 2019 the results of a national poll were released by USC Dornsife/L.A..Times. The poll was conducted from October 21-November 3, 2019. The Internet panel of 5,480 eligible U.S. voters yields a margin of error of +/- 2%. Here are key results:

Asked of all U.S. Citizens

cf\_3 Regardless of if or how you are registered to vote, at this time, are you more closely aligned with...

	U.S Residents April 2019	Eligible Voters April 2019	Eligible Voters Aug 2019	Eligible Voters Sept 2019	Eligible Voters Nov 2019
Democrats	39	39	39	39	40
Republicans	30	30	31	31	31
Independents (no political party)	12	12	11	11	11
Libertarians	2	2	3	2	2
Green party	1	1	1	1	1
Some other party	0	0	0	0	0
Not aligned with any political party	16	16	16	16	15

Asked of Democratic Primary voters (N= 2599, MOSE +/-2). Randomized order of candidate list

cf\_5. Here is a list of candidates who are running for the Democratic nomination in 2020. If your state's Democratic presidential primary or caucus were held today, for which of these candidates would you vote?

	Dem Prim Voters April 2019	Dem Prim Voters July 2019	Dem Prim Voters Sept 2019	Dem Prim Voters Nov 2019
Michael Bennet (U.S. Senator, Colorado)	*	-	-	-
Joe Biden (Former U.S. Vice President)	27	29	28	28
Cory Booker (U.S. Senator, New Jersey)	2	1	2	1
Steve Bullock (Governor of Montana)	*	-	-	-
Pete Buttigieg (Mayor of South Bend, Indiana)	2	5	4	6
Julian Castro (Former U.S. Secretary of Housing and Urban	1	1	-	-
John Delaney, (Former U.S. Representative, Maryland)	-	-	-	-
Tulsi Gabbard, (U.S. Representative, Hawaii)	1	-	1	1
Kamala Harris (U.S. Senator, California)	7	10	8	4
Amy Klobuchar (U.S. Senator, Minnesota)	1	1	1	2
Wayne Messam (Mayor of Miramar, Florida)	*	-	-	-
Beto O'Rourke (Former U.S. Representative, Texas) <sup>2</sup>	7	3	3	2
Tim Ryan (U.S. Representative, Ohio) <sup>1</sup>	*	1	-	-
Joe Sestak (former U.S. Representative, Pennsylvania)	*	-	-	-
Tom Steyer (businessman and activist)	*	-	-	1
Bernie Sanders (U.S. Senator, Vermont)	16	11	13	13
Elizabeth Warren (U.S. Senator, Massachusetts)	4	10	12	16
Marianne Williamson (Spiritual teacher, author, lecturer)	-	-	-	1
Andrew Yang (Entrepreneur and founder of Venture for America)	1	1	2	2
Other candidate (please write in)	1	-	-	-
Undecided	27	25	23	21

\* = not asked in April 2019

<sup>1</sup> dropped out on October 24<sup>th</sup>

<sup>2</sup> Dropped out of the race on the last day of the field period

Randomized order of first two responses

cf\_023 If the U.S. House of Representatives does vote to impeach President Trump, and sends the case to trial in the Senate, which of the following comes closer to your view? The Senate should...

	Eligible Voters Nov 2019
Vote to remove President Trump from office	45
Vote to acquit President Trump of all charges	28
Not sure, or it is too soon to say	28







## Update

The November 5<sup>th</sup> meeting of the Board of Supervisors was unusually short, 1 hour 38 minutes. It contained a total of 20 items and was highlighted by Item #15:

Consider second reading and adoption of *"an ordinance of the County of Orange, California amending Sections 1-6-7 of Division 6 of Title 1 of the Codified Ordinance of the County of Orange"*. In technical terms, this meeting was a "snoozer".

### **Will California Soon De-Populate?**

Orange County Register's business columnist Jonathon Lansner recently wrote a fascinating yet troubling article about California demographics.

Analyzing recent census data, he highlighted a number of population statistics. Among them:

- ▶ In 2018, 190,122 more residents moved out of state than in state - 691,145 compared to 501,023
- ▶ In 2018, California's overall population bolstered by 283,649 foreign immigrants grew by just 28,905. That figure pales in comparison to our nation's fastest growing state, Texas, which grew by 408,850. Even Idaho's growth of 40,574 outpaced the Golden State.
- ▶ More worrisome for California is the trend as the net outflow of domestic migration increased by 4.6% compared to 2017.

The leading reason for leaving California is its high cost of living, but Lansner noted that the state's liberal policies are also creating "conservative flight".

### **Loss of Political Clout?**

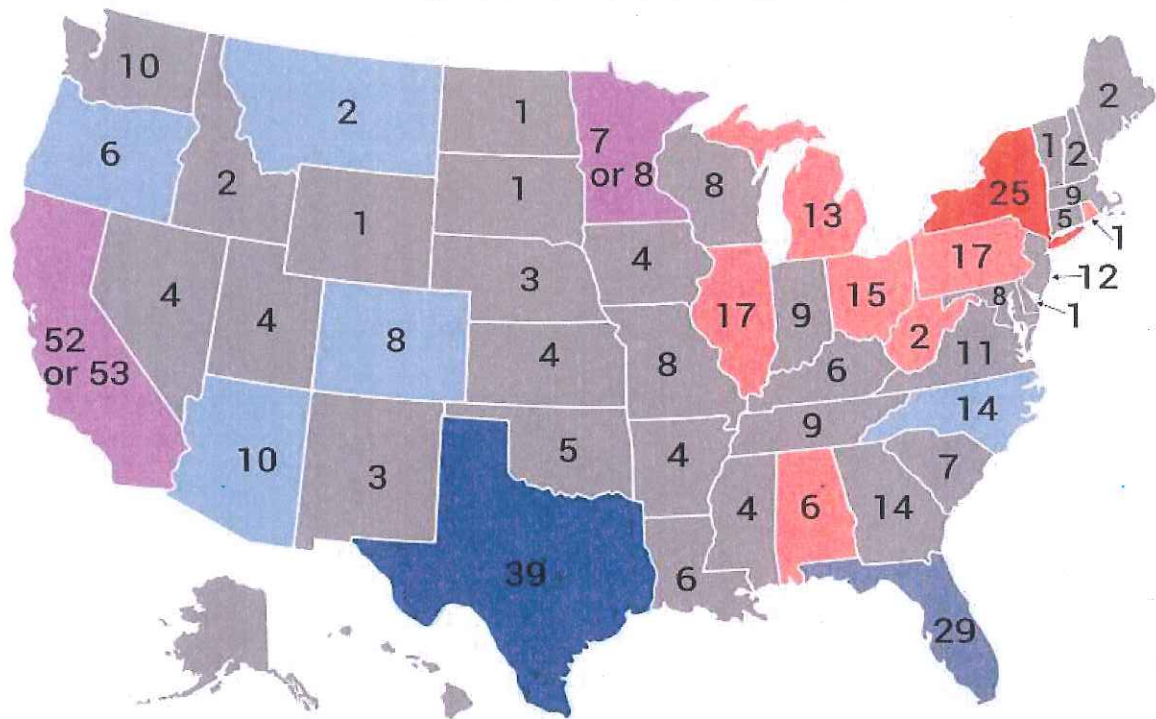
California currently has a 53 member Congressional delegation and 55 Presidential Electoral College votes. For the first time in history, California is on the cusp of losing a congressional seat after the 2020 census. Apparently, California's 53<sup>rd</sup> seat could be transferred to the state of Montana, depending on its growth leading up to the census.

The national map below gives a clear look at which states stand to gain or lose or stay put after congressional seats are apportioned in 2021.



## Census Projections for 2020 Congressional Reapportionment

Net Change in Total Congressional Seats



BRENNAN  
CENTER  
FOR JUSTICE

Gain 3 seats  
Gain 2 seats

Gain 1 seat  
None

None or lose 1 seat  
Lose 1 seat

Lose 2 seats

Source: Election Data Services

Figure 1: "Census Projections for 2020 Congressional Reapportionment: Net Change in Total Congressional Seats." Election Data Services. December 19, 2018. [Source](#).



## Sanchez Exits Supervisor Race

According to both Democrat and Republican sources, former Congresswoman Loretta Sanchez has decided against a re-match with 3<sup>rd</sup> district Supervisor Donald Wagner. This late decision greatly improves the odds of a Wagner victory and the preservation of a Republican majority on the Board of Supervisors for another two years. The other key race is Supervisor Andrew Do, seeking re-election in a heavy democrat district.



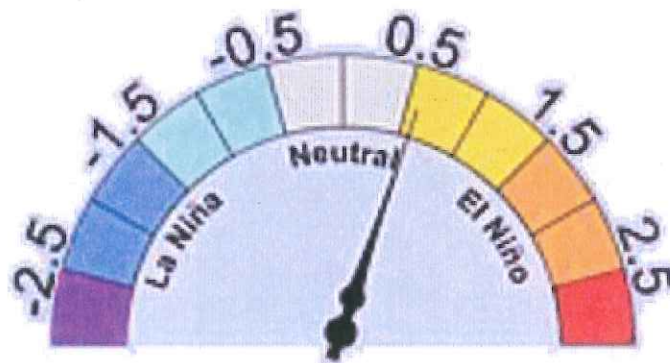
Sanchez's decision leaves democrats in a bit of a lurch as filing for the office closes in about three weeks, on December 6, 2019.

Another possible beneficiary of this last minute confusion might be California State Senator John Moorloch. Much of Moorloch's Senate district is overlapped by the Congressional districts represented by Democrat Katie Porter and Harly Rouda. In just three years, Moorloch's Senate District 37 voter registration has narrowed from a 39.4%-31% Republican advantage over Democrats to a more competitive 35.3%-32% difference now.

Democrats have been targeting this part of Orange County and clearly Senator Moorloch is in their sights. Perhaps the overlapping Wagner district confusion will drain some amount of Democrat focus.

## La Niña VS El Niño

### ENSO METER



According to the latest projections from NOAA, National Oceanic and Atmospheric Administration, there is a 55%-60% chance we will remain in neutral conditions through Spring 2020.

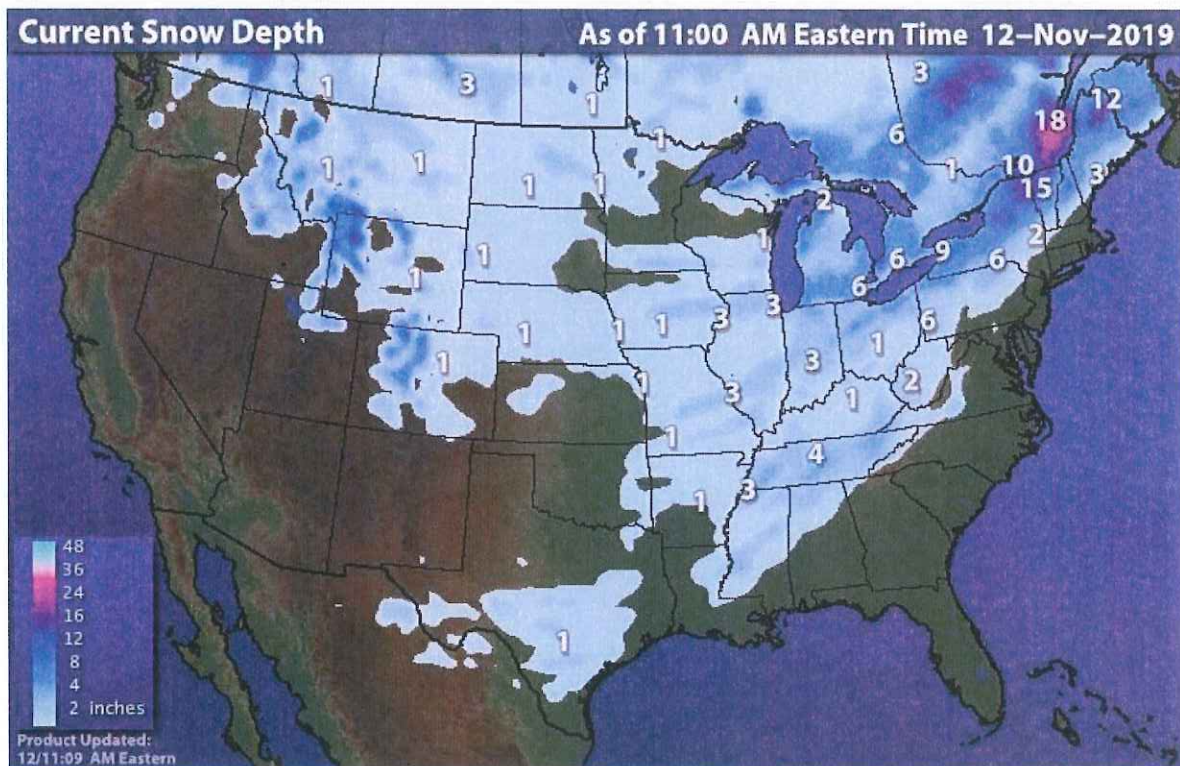
#### NOOA California predictions

**California:** colder than average with odds favoring wetter than average conditions in northern California and drier than average conditions in southern California. All of the southern part of the nation are at risk of having above normal wildfire conditions starting this winter and lasting into the spring;

## Winter Comes Early - California Spared

Winter storm Caleb arrived two months early and brought shivering temperatures to most of the country. The West Coast (including California) was largely shielded by the Rocky Mountains. But it's Fall.

November 12, 2019 vs Snow Cover



## **ETWD Public Education and Outreach Report**

### **November 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 no water waste complaints for the month of October.

### **Messaging/Materials**

The customer November/December bill message: "Grease is the number one culprit of sewer pipe overflows and back-ups. It is important to dispose grease properly. Pour fats and oils from turkey, bacon, etc. into an empty can, cool down and throw away."

Provided Laguna Woods Village Third Mutual 100 toilet leak detection tab packets, 50 low flow shower heads, copy of the Water Conservation presentation for Third Mutual and water conservation/rebate flyers.

### **Community Events**

#### **South County Disaster Expo**

On October 19<sup>th</sup>, ETWD staff hosted a booth and distributed water with the ETWD water trailer at the 11<sup>th</sup> Annual South County Disaster Preparedness Expo at the Norman Murray Community and Senior Center in Mission Viejo.







## **Dana Point Harbor/Chairwoman Bartlett 50 Year Time Capsule Celebration**

ETWD directors and Mr. Cafferty attended the Dana Point Harbor/Chairwoman Bartlett 50 Year Time Capsule event on October 22<sup>nd</sup>. ETWD submitting a current District newsletter, garden brochure and ETWD employee group photo to be inserted into the time capsule.



From left to right: Vice President Mark Monin, Director Mike Gaskins, President Jose Vergara, Chairwoman Bartlett, General Manager Dennis Cafferty, Director Kathryn Freshley and Director Kay Havens.

## **H2O for HOAs**

On October 29<sup>th</sup>, ETWD partnered with local cities and water agencies again and held the H2O for HOAs educational and networking event for HOA board members, property managers and professional landscapers. Topics included protecting your watershed, water efficiency resources and rebates, landscape design for HOAs, irrigation maintenance for large landscapes and HOA assistance case studies.





### Community Event Schedule:

#### **Saturday, December 14, 2019 - Lake Forest 3<sup>rd</sup> Annual Elf Yourself 5K**

ETWD will sponsor the event by providing the emergency drinking water trailer for the event and staff will distribute water to participants. The event starts at 9:00 a.m. Please see the following flyer.



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

ETWD will host the MWD OC 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  
November 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 1<sup>st</sup> 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](http://www.ocwatersmart.com). Customers without computer access can call 888-376-3314 to apply.

**1) Residential Rebate Program:**

<b>Device</b>	<b>MET Rebate</b>	<b>MWDOC Grant</b>	<b>ETWD Rebate</b>	<b>Total Rebate (up to)</b>
<b>High Efficiency Clothes Washer</b> (CEE tier one or better)	<b>\$85</b>		<b>\$115</b>	<b>\$200</b>
<b>Premium High Efficiency Toilet (4 liter)</b>	<b>\$40</b>		<b>\$60</b>	<b>\$100</b>
<b>Rotating Sprinkler Nozzles</b> (min 30 per home)	<b>\$2 ea</b>		<b>\$1</b>	<b>\$3</b>
<b>Smart Irrigation Timer</b>	<b>\$80</b>	<b>\$100</b>	<b>\$100</b>	<b>\$280</b>
<b>Turf Removal Program</b> (up to 5,000 sq ft)*	<b>\$1 sq. ft.</b>	<b>\$2 sq. ft.</b>		<b>\$3 sq. ft.</b>
<b>Soil Moisture Sensor System</b> <1 Acre >1 Acre	<b>\$80</b> <b>\$35/station</b>	<b>\$100</b>	<b>\$100</b>	<b>\$280</b> <b>\$35/station</b>
<b>Rain Barrels Cisterns</b> (200 -500 gallon) (501-999 gallon) (1,000 gallon or more)	<b>\$35</b> <b>\$250</b> <b>\$300</b> <b>\$350</b>		<b>\$15</b>	<b>\$50</b> <b>\$250</b> <b>\$300</b> <b>\$350</b>
<b>Drip Irrigation</b> (per kit and up to 5 kits)		<b>\$90 base plus \$85</b>		<b>\$175 per kit</b>

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



## 2) Commercial Plumbing/Irrigation Devices Rebate Program:

<b>Device</b>	<b>MET Rebate</b>	<b>MWDOC Grant</b>	<b>ETWD Rebate</b>	<b>Total Rebate (up to)</b>
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	\$15/station		\$50/station

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

Additional commercial rebates available online at [ocwatersmart.com](http://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 October 2019 year-to-date sales, residential accounted for 57% of the overall Tier 3 usage and dedicated irrigation accounted for 58% of Tier 4 usage.](#)

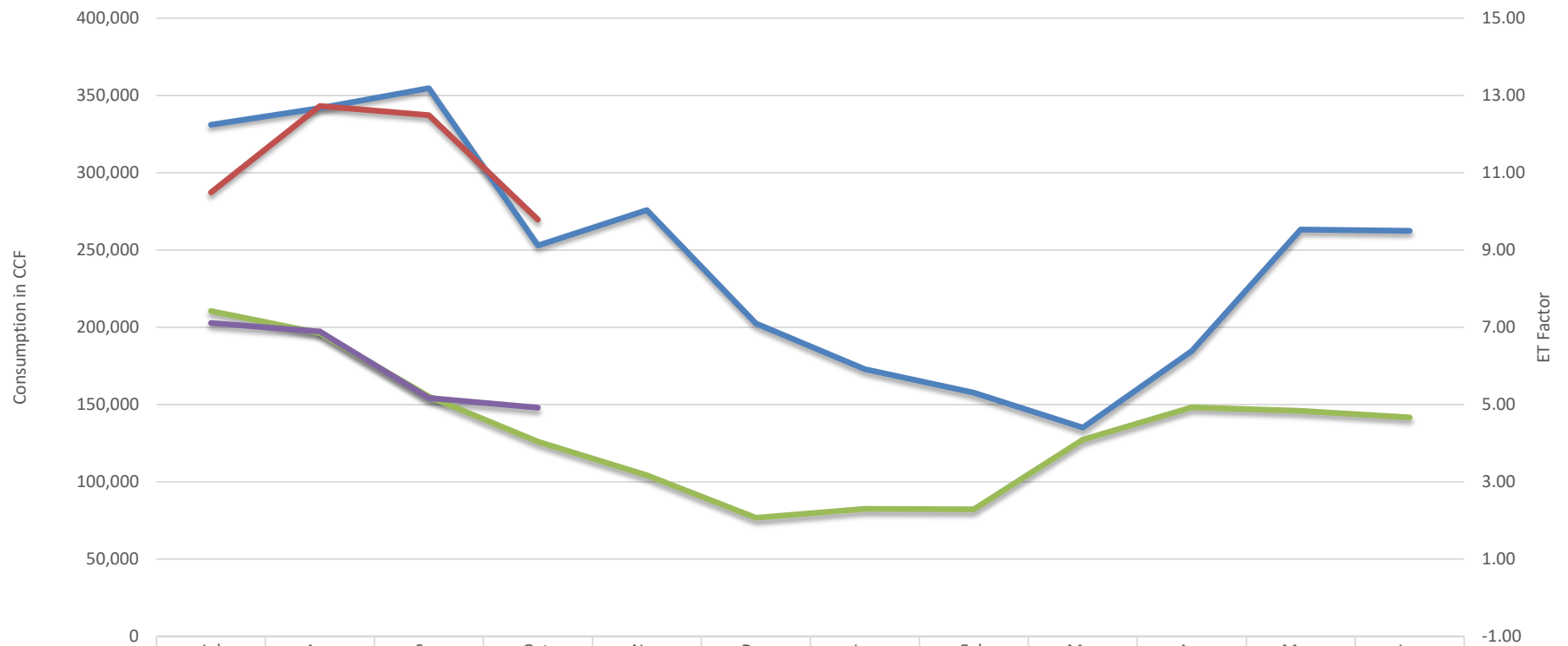
### **TOTAL CONSUMPTION COMPARISON TO EVAPOTRANSPIRATION (ET) FACTOR**

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 7% from October 2018 when compared to October 2019. There was a 18% increase in consumption reflected in October 2019.](#)

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

The current MWDOC and ETWD's Program Savings Reports follow this report. MWDOC's report show all their client agencies current participation levels in water use efficiency programs and savings calculations. ETWD's report show current District customer participation in water use efficiency programs along with savings provided in acre/feet per year, million gallons per year and avoided water costs based on those calculations.

## Total Consumption Comparison



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
2018-2019	331,098	341,819	354,683	253,007	275,853	202,506	172,911	157,696	135,090	184,628	263,218	262,396
2019-2020	287,207	343,163	337,247	269,666								
18/19 ET	7.42	6.85	5.21	4.04	3.17	2.07	2.30	2.29	4.09	4.93	4.84	4.67
19/20 ET	7.11	6.89	5.17	4.92								
%	87%	100%	95%	107%	0%	0%	0%	0%	0%	0%	0%	0%

## El Toro Water District Water Use Efficiency Program Savings

Program	Program Start Year	Program/Total Years	Avoided Water Use Acre Feet/Annual	Avoided Water Use Million Gallons/Annual	Avoided Water Costs Based on MWDOC Rate (\$2.16 CCF) Annual
High Efficiency Toilet (HET)	2005	14	49.9	16.3	\$46,961
High Efficiency Clothes Washers--Residential	2001	18	24.8	8.1	\$23,339
*SoCal Water Smart Commercial Plumbing Fixtures Rebate Program (ULFT's, HET's, Urinals, HECW, Cooling Tower Conductivity Controllers)	2002	17	49.4	16.1	\$46,490
SmarTimer Program--Irrigation Timers	2004	15	182.0	59.3	\$171,280
Rotating Nozzles Rebate Program	2007	12	118.4	38.6	\$111,464
Turf Removal Program	2010	9	57.7	18.8	\$54,255
**Water Smart Landscape Program - Ended 2016	1997	20	242.9	79.2	\$228,594
Synthetic Turf Rebate Program-Ended 2011	2007	8	0.9	0.3	\$847
***Ultra Low Flush Toilets (ULFT)--Ended 2009	1992	16	193.2	58.0	\$167,487
Computer Controlled Irrigation System--Gate 11--Ended 2006	2001	6	8.9	2.9	\$8,357
<b>Totals</b>			<b>928.1</b>	<b>302.5</b>	<b>\$873,408</b>

\* Formerly the Save Water Save a Buck - Commercial Rebate Program

\*\* Formerly the Landscape Performance Certification Program

\*\*\* Correction on date and total

Because of our participation in Water Use Efficiency Programs, the District will not be using an estimated 302.5 million gallons of water per year.

# Orange County

## Water Use Efficiency Programs Savings and Implementation Report

### Retrofits and Acre-Feet Water Savings for Program Activity

Program	Program Start Date	Retrofits Installed in	Month Indicated		Current Fiscal Year		Overall Program		
			Interventions	Water Savings	Interventions	Water Savings	Interventions	Annual Water Savings[4]	Cumulative Water Savings[4]
High Efficiency Clothes Washer Program	2001	September-19	256	0.74	557	2.72	119,851	4,135	33,808
Smart Timer Program - Irrigation Timers	2004	September-19	371	4.06	2,456	10.84	25,884	8,572	55,228
Rotating Nozzles Rebate Program	2007	September-19	693	2.77	3,163	12.65	568,174	2,779	21,101
Commercial Plumbing Fixture Rebate Program	2002	September-19	474	1.46	1,636	9.73	106,588	5,295	55,013
Industrial Process/Water Savings Incentive Program (WSIP)	2006	October-19	0	0.00	0	0.00	34	914	4,136
Turf Removal Program <sup>[3]</sup>	2010	September-19	18,159	0.21	67,666	1.50	22,460,719	3,145	16,455
High Efficiency Toilet (HET) Program	2005	September-19	21	0.07	67	2.85	60,444	2,234	21,859
Water Smart Landscape Program [1]	1997						12,677	10,621	72,668
Home Water Certification Program	2013						312	7.339	15.266
Synthetic Turf Rebate Program	2007						685,438	96	469
Ultra-Low-Flush-Toilet Programs <sup>[2]</sup>	1992						363,926	13,452	162,561
Home Water Surveys <sup>[2]</sup>	1995						11,867	160	1,708
Showerhead Replacements <sup>[2]</sup>	1991						270,604	1,667	19,083
<b>Total Water Savings All Programs</b>				<b>9</b>	<b>75,545</b>	<b>40</b>	<b>24,686,518</b>	<b>53,077</b>	<b>464,105</b>

<sup>(1)</sup> Water Smart Landscape Program participation is based on the number of water meters receiving monthly Irrigation Performance Reports.

<sup>(2)</sup> Cumulative Water Savings Program To Date totals are from a previous Water Use Efficiency Program Effort.

<sup>(3)</sup> Turf Removal Interventions are listed as square feet.

<sup>(4)</sup> Cumulative & annual water savings represents both active program savings and passive savings that continues to be realized due to plumbing code changes over time.



# HIGH EFFICIENCY CLOTHES WASHERS INSTALLED BY AGENCY

## through MWDOC and Local Agency Conservation Programs

Agency	FY 12/13	FY13/14	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Total	Current FY Water Savings Ac/Ft (Cumulative)	Cumulative Water Savings across all Fiscal Years	15 yr. Lifecycle Savings Ac/Ft
Brea	93	115	114	76	57	56	54	7	-	1,984	0.03	559.26	1,027
Buena Park	105	106	91	76	54	50	46	3	-	1,617	0.02	444.79	837
East Orange CWD RZ	10	8	8	8	3	1	6	1	-	200	0.00	59.37	103
El Toro WD	134	121	111	65	47	50	40	8	-	1,619	0.05	445.86	838
Fountain Valley	115	102	110	76	65	49	39	8	-	2,496	0.03	733.56	1,292
Garden Grove	190	162	165	251	127	87	71	4	-	3,725	0.02	1,052.80	1,927
Golden State WC	265	283	359	260	138	156	93	15	-	5,279	0.07	1,495.02	2,732
Huntington Beach	334	295	319	225	180	141	93	22	-	8,502	0.10	2,539.56	4,399
Irvine Ranch WD	1,763	1,664	1,882	1,521	1,373	1,203	887	176	-	26,932	0.87	7,234.16	13,935
La Habra	82	114	87	66	53	48	49	12	-	1,436	0.07	391.04	743
La Palma	34	25	34	29	10	14	7	5	-	484	0.03	135.01	250
Laguna Beach CWD	38	37	39	32	19	20	18	3	-	973	0.01	279.25	503
Mesa Water	114	86	89	113	80	54	42	9	-	2,623	0.05	780.74	1,357
Moulton Niguel WD	442	421	790	688	575	527	357	72	-	10,877	0.34	2,870.66	5,628
Newport Beach	116	92	95	66	61	51	41	5	-	2,721	0.03	822.57	1,408
Orange	218	163	160	124	80	74	56	12	-	4,040	0.06	1,212.12	2,090
San Juan Capistrano	76	73	92	63	33	33	23	4	-	1,519	0.02	434.33	786
San Clemente	140	94	141	75	70	85	64	13	-	2,782	0.07	787.65	1,439
Santa Margarita WD	553	662	792	466	367	274	214	68	-	10,072	0.30	2,766.58	5,212
Seal Beach	31	29	38	23	9	17	8	4	-	631	0.01	180.55	326
Serrano WD	13	10	26	8	11	8	2	-	-	367	0.00	109.62	190
South Coast WD	89	79	68	43	44	36	29	11	-	1,660	0.06	468.83	859
Trabuco Canyon WD	30	45	47	34	28	22	13	4	-	837	0.02	235.07	433
Tustin	78	59	80	66	44	49	34	4	-	1,699	0.03	495.02	879
Westminster	121	82	109	149	84	65	46	11	-	2,708	0.05	771.14	1,401
Yorba Linda	181	167	156	123	56	67	43	19	-	3,881	0.10	1,162.38	2,008
<b>MWDOC Totals</b>	<b>5,365</b>	<b>5,094</b>	<b>6,002</b>	<b>4,726</b>	<b>3,668</b>	<b>3,237</b>	<b>2,375</b>	<b>500</b>	<b>-</b>	<b>101,676</b>	<b>2.44</b>	<b>28,471.38</b>	<b>19,643</b>
Anaheim	331	285	295	266	213	173	135	29	-	11,019	0.14	3,322.48	5,702
Fullerton	200	186	211	165	107	99	113	23	-	3,930	0.11	1,110.34	2,033
Santa Ana	163	131	132	259	141	124	128	5	-	3,228	0.02	903.36	1,670
<b>Non-MWDOC Totals</b>	<b>694</b>	<b>602</b>	<b>638</b>	<b>690</b>	<b>461</b>	<b>396</b>	<b>376</b>	<b>57</b>	<b>-</b>	<b>18,177</b>	<b>0.28</b>	<b>5,336.18</b>	<b>3,512</b>
<b>Orange County Totals</b>	<b>6,059</b>	<b>5,696</b>	<b>6,640</b>	<b>5,416</b>	<b>4,129</b>	<b>3,633</b>	<b>2,751</b>	<b>557</b>	<b>-</b>	<b>119,853</b>	<b>2.72</b>	<b>33,807.56</b>	<b>23,155</b>

**SMART TIMERS INSTALLED BY AGENCY**  
through MWDOC and Local Agency Conservation Programs

Agency	FY 12/13		FY 13/14		FY 14/15		FY 15/16		FY16/17		FY17/18		FY18/19		FY19/20		Total Program		Cumulative Water Savings across all Fiscal Years
	Res	Comm	Res	Comm	Res	Comm	Res	Comm	Res	Comm	Res	Comm	Res	Comm	Res	Comm	Res	Comm.	
Brea	9	8	4	0	43	6	20	4	31	4	32	0	33	0	12	0	208	80	585.35
Buena Park	3	0	0	0	4	10	7	4	10	7	15	3	17	7	9	1	72	52	186.72
East Orange CWD RZ	2	0	0	0	2	0	1	0	11	1	6	0	1	0	0	0	32	1	26.86
El Toro WD	7	2	11	0	8	9	9	17	33	8	29	4	34	0	11	0	189	359	2,729.70
Fountain Valley	3	2	4	0	7	10	13	1	33	12	28	12	36	4	14	0	169	56	232.40
Garden Grove	5	2	9	0	10	14	13	11	28	0	27	2	36	3	21	0	185	43	211.61
Golden State WC	9	49	9	25	39	12	35	16	56	37	88	6	85	15	28	0	426	213	980.18
Huntington Beach	18	33	20	35	19	2	42	12	88	94	70	30	105	65	23	0	470	363	1,348.19
Irvine Ranch WD	414	135	71	59	67	310	239	207	344	420	416	78	379	105	93	17	2,657	2,486	13,162.63
La Habra	4	7	2	0	4	7	3	1	12	7	8	0	19	3	8	0	71	47	237.72
La Palma	1	0	2	0	2	0	3	2	1	0	5	0	7	0	4	0	26	2	8.38
Laguna Beach CWD	76	2	71	0	86	0	86	1	27	0	11	0	8	0	4	0	520	20	272.59
Mesa Water	10	2	15	2	17	28	36	12	149	41	49	0	34	55	11	0	412	209	894.01
Moulton Niguel WD	51	74	40	45	46	95	163	100	236	129	284	33	316	64	72	9	1,586	907	4,280.63
Newport Beach	242	26	168	75	11	9	28	43	30	12	24	0	21	0	4	0	1,087	409	2,941.42
Orange	20	24	13	9	18	31	51	13	69	10	61	13	93	26	38	0	477	204	1,095.57
San Juan Capistrano	14	18	6	11	6	19	20	8	22	8	23	5	20	1	6	8	271	139	746.29
San Clemente	26	7	28	2	28	24	26	3	37	13	38	41	36	0	12	0	1,137	415	3,015.67
Santa Margarita WD	53	171	64	93	53	321	189	136	326	221	273	220	222	37	95	5	1,744	1,634	6,936.47
Seal Beach	1	0	1	36	1	12	2	2,446	2	4	5	0	6	31	4	0	22	2,533	6,825.34
Serrano WD	1	0	0	0	4	0	11	2	4	0	8	0	10	0	4	0	60	2	18.26
South Coast WD	13	16	8	4	104	73	9	11	7	0	15	2	7	7	2	0	302	221	1,312.17
Trabuco Canyon WD	6	0	2	0	6	1	16	50	13	3	20	0	33	0	21	0	177	157	1,063.63
Tustin	8	4	9	1	18	14	33	8	33	23	27	1	37	0	13	0	220	81	404.72
Westminster	1	1	2	0	13	17	7	1	17	12	22	0	24	0	8	0	119	44	232.49
Yorba Linda	20	0	12	5	32	2	61	27	72	71	68	10	74	4	42	0	522	197	990.43
<b>MWDOC Totals</b>	<b>1,017</b>	<b>583</b>	<b>571</b>	<b>402</b>	<b>648</b>	<b>1,026</b>	<b>1,123</b>	<b>3,136</b>	<b>1,691</b>	<b>1,137</b>	<b>1,652</b>	<b>460</b>	<b>1,693</b>	<b>427</b>	<b>559</b>	<b>40</b>	<b>13,161</b>	<b>10,874</b>	<b>50,739.42</b>

Anaheim	19	10	9	26	7	52	30	34	87	10	66	0	142	73	31	0	483	530	2,981.41
Fullerton	9	29	8	0	40	26	32	12	53	7	45	0	77	0	29	0	350	199	1,083.63
Santa Ana	8	19	7	8	9	27	22	26	15	3	16	0	24	20	2	43	124	163	423.47
<b>Non-MWDOC Totals</b>	<b>36</b>	<b>58</b>	<b>24</b>	<b>34</b>	<b>56</b>	<b>105</b>	<b>84</b>	<b>72</b>	<b>155</b>	<b>20</b>	<b>127</b>	<b>0</b>	<b>243</b>	<b>93</b>	<b>62</b>	<b>43</b>	<b>957</b>	<b>892</b>	<b>4,488.51</b>

<b>Orange County Totals</b>	<b>1,053</b>	<b>641</b>	<b>595</b>	<b>436</b>	<b>704</b>	<b>1,131</b>	<b>1,207</b>	<b>3,208</b>	<b>1,846</b>	<b>1,157</b>	<b>1,779</b>	<b>460</b>	<b>1,936</b>	<b>520</b>	<b>621</b>	<b>83</b>	<b>14,118</b>	<b>11,766</b>	<b>55,228</b>
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**ROTATING NOZZLES INSTALLED BY AGENCY**  
through MWDOC and Local Agency Conservation Programs

Agency	FY 13/14			FY 14/15			FY 15/16			FY 16/17			FY 17/18			FY 18/19			FY 19/20			Total Program			Cumulative Water Savings across all Fiscal Years	
	Small		Large	Small		Large	Small		Large	Small		Large	Small		Large	Small		Large	Small		Large	Small		Large		
	Res	Comm.	Comm.	Res	Comm.	Comm.	Res	Comm.	Comm.	Res	Comm.	Comm.	Res	Comm.	Comm.	Res	Comm.	Comm.	Res	Comm.	Comm.	Res	Comm.	Comm.		
Brea	84	0	0	157	45	0	74	2,484	0	0	0	0	0	0	0	0	0	0	0	0	0	572	2,749	0	62.74	
Buena Park	53	0	0	248	0	0	45	98	0	0	0	0	0	0	0	0	0	0	49	0	0	558	173	2,535	904.56	
East Orange	30	0	0	221	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	781	0	0	22.41	
El Toro	56	3,288	0	1,741	28,714	0	730	4,457	0	55	242	0	36	0	0	0	0	0	0	0	0	3,405	46,222	890	1,421.25	
Fountain Valley	0	0	0	107	0	0	222	0	0	0	0	0	85	0	0	0	283	0	0	0	0	795	283	0	21.86	
Garden Grove	80	0	0	88	50	0	110	0	0	55	98	0	52	0	0	0	0	0	0	0	0	985	299	0	37.86	
Golden State	192	0	0	583	1,741	0	1,088	0	0	207	6,008	0	161	-495	0	35	259	0	0	0	0	3,644	11,080	0	299.31	
Huntington Beach	120	0	0	798	1,419	0	1,345	2,836	0	149	3,362	0	-37	0	0	0	0	0	30	0	0	3,790	12,526	2,681	1,469.75	
Irvine Ranch	11,010	4,257	0	1,421	632	0	1,989	5,047	0	335	9,511	0	356	-215	0	72	0	0	89	0	0	47,654	94,346	2,004	5,382.59	
La Habra	15	0	0	109	338	0	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	481	1,236	900	404.34	
La Palma	0	0	0	0	0	0	46	505	0	0	2,385	0	33	0	0	0	0	0	0	0	0	89	2,890	0	38.12	
Laguna Beach	2,948	878	0	2,879	1,971	0	1,390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,139	2,896	0	361.30	
Mesa Water	361	0	0	229	0	0	166	0	0	113	0	0	36	0	0	0	0	0	0	0	0	2,066	385	343	217.09	
Moulton Niguel	361	227	0	1,596	4,587	0	5,492	1,441	0	153	5,872	0	893	0	0	713	38	0	182	0	0	13,662	20,553	2,945	1,931.13	
Newport Beach	19,349	6,835	0	460	3,857	0	348	670	0	0	0	0	45	0	0	0	0	0	0	0	0	46,723	21,413	0	1,856.70	
Orange	245	120	0	304	668	0	631	91	0	0	0	0	0	0	0	30	0	0	67	0	0	3,267	1,072	0	126.33	
San Juan Capistrano	370	0	0	495	737	0	310	593	0	75	123	0	59	0	0	40	1,400	0	58	0	0	5,652	10,252	0	509.09	
San Clemente	415	5,074	0	326	0	0	426	0	0	0	0	0	146	0	0	0	0	0	35	0	0	10,170	7,538	1,343	917.84	
Santa Margarita	389	0	0	1,207	1,513	0	1,820	837	0	15	0	0	224	0	0	30	0	0	194	0	0	16,613	6,921	611	939.56	
Seal Beach	0	0	0	40	5,261	0	0	2,300	0	0	0	0	0	0	0	0	0	0	0	0	0	155	7,852	0	159.45	
Serrano	105	0	0	377	0	0	695	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,405	0	0	106.90	
South Coast	70	0	0	4,993	13,717	0	1,421	2,889	0	16	0	0	0	0	0	0	0	0	0	0	0	8,130	18,870	0	580.71	
Trabuco Canyon	0	0	0	56	0	0	130	0	0	0	4,339	0	0	0	0	0	0	0	0	0	0	2,086	5,130	0	160.44	
Tustin	329	0	0	408	0	0	317	386	0	65	-341	0	30	0	0	47	0	0	0	0	0	3,448	1,058	0	138.85	
Westminster	0	0	0	54	0	0	73	0	0	105	0	0	50	0	0	42	0	0	0	0	0	556	0	0	13.41	
Yorba Linda	40	990	0	921	0	0	1,715	0	0	213	0	0	0	0	0	34	0	0	0	0	0	6,115	4,359	500	519.44	
MWDOC Totals	36,622	21,669	0	19,818	65,250	0	20,883	24,634	0	1,556	31,599	0	2,199	-710	0	1,043	1,980	0	704	0	0	196,941	280,103	14,752	18,603.02	
Anaheim	338	0	0	498	712	0	794	5,221	0	147	3,953	0	0	0	0	0	0	0	0	0	0	4,020	49,799	105	1,569.31	
Fullerton	107	0	0	684	1,196	0	521	7,015	0	65	3,034	0	0	0	0	140	0	0	0	0	0	3,050	11,309	1,484	778.09	
Santa Ana	86	2,533	0	310	0	0	0	1,420	0	0	1,106	0	0	0	0	0	0	0	0	0	0	859	5,752	0	150.90	
Non-MWDOC Totals	531	2,533	0	1,492	1,908	0	1,315	13,656	0	212	8,093	0	0	0	0	140	0	0	0	0	0	7,929	66,860	1,589	2,498.29	
Orange County Totals	37,153	24,202	0	21,310	67,158	0	22,198	38,290	0	1,768	39,692	0	2,199	-710	0	1,183	1,980	0	704	0	0	204,870	346,963	16,341	21,101.31	

**COMMERCIAL PLUMBING FIXTURES INSTALLED BY AGENCY<sup>[1]</sup>**  
**through MWD OC and Local Agency Conservation Programs**

Agency	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Totals	Cumulative Water Savings across all Fiscal Years
Brea	234	0	10	91	734	242	0	73	1,680	671
Buena Park	5	23	56	591	133	49	0	0	2,538	1,506
East Orange CWD RZ	0	0	0	0	0	0	0	0	0	0
El Toro WD	0	212	6	268	35	737	717	0	2,516	840
Fountain Valley	0	0	1	249	0	895	0	289	2,056	847
Garden Grove	4	1	167	676	410	0	354	231	3,036	1,988
Golden State WC	0	1	0	1,008	53	93	86	79	3,123	2,479
Huntington Beach	104	144	7	783	641	10	208	0	3,172	2,139
Irvine Ranch WD	1,090	451	725	11,100	5,958	1,599	1,000	0	30,465	11,073
La Habra	0	0	0	340	42	0	0	0	925	723
La Palma	0	0	0	0	509	0	0	0	675	187
Laguna Beach CWD	0	27	0	0	0	0	0	0	446	404
Mesa Water	6	0	79	661	782	0	110	0	4,364	2,791
Moulton Niguel WD	0	0	3	413	281	506	4,392	285	6,460	1,473
Newport Beach	0	0	566	0	0	0	1,596	0	3,430	1,803
Orange	1	271	81	275	2,851	458	532	96	6,116	2,534
San Juan Capistrano	0	14	0	0	0	0	0	0	260	488
San Clemente	0	0	1	0	0	0	0	321	753	487
Santa Margarita WD	0	0	2	90	743	598	699	0	2,247	452
Seal Beach	0	0	0	0	184	278	0	0	816	565
Serrano WD	0	0	0	0	0	0	0	0	0	0
South Coast WD	148	0	382	0	0	0	0	0	1,320	714
Trabuco Canyon WD	0	0	0	0	0	0	0	0	11	19
Tustin	0	0	75	358	212	2	408	177	1,989	1,133
Westminster	1	28	0	146	177	25	0	0	1,163	1,287
Yorba Linda	1	0	0	226	84	338	0	83	1,016	749
<b>MWD OC Totals</b>	<b>1,594</b>	<b>1,172</b>	<b>2,161</b>	<b>17,275</b>	<b>13,829</b>	<b>5,830</b>	<b>10,102</b>	<b>1,634</b>	<b>80,577</b>	<b>37,349</b>
Anaheim	165	342	463	3,072	309	1,808	686	2	16,249	9,304
Fullerton	94	0	178	476	621	274	384	0	3,436	2,238
Santa Ana	16	17	5	1,293	238	582	7	0	6,326	6,122
<b>Non-MWD OC Totals</b>	<b>275</b>	<b>359</b>	<b>646</b>	<b>4,841</b>	<b>1,168</b>	<b>2,664</b>	<b>1,077</b>	<b>2</b>	<b>26,011</b>	<b>17,664</b>
<b>Orange County Totals</b>	<b>1,869</b>	<b>1,531</b>	<b>2,807</b>	<b>22,116</b>	<b>14,997</b>	<b>8,494</b>	<b>11,179</b>	<b>1,636</b>	<b>106,588</b>	<b>55,013</b>

[1] Retrofit devices include ULF Toilets and Urinals, High Efficiency Toilets and Urinals, Multi-Family and Multi-Family 4-Liter HETs, Zero Water Urinals, High Efficiency Clothes Washers, Cooling Tower Conductivity Controllers, Ph Cooling Tower Conductivity Controllers, Flush Valve Retrofit Kits, Pre-rinse Spray heads, Hospital X-Ray Processor Recirculating Systems, Steam Sterilizers, Food Steamers, Water Pressurized Brooms, Laminar Flow Restrictors, and Ice Making Machines.

# INDUSTRIAL PROCESS/WATER SAVINGS INCENTIVE PROGRAM

## Number of Projects by Agency

Agency	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Overall Program Interventions	Annual Water Savings[1]	Cumulative Water Savings across all Fiscal Years[1]
Brea	0	0	0	0	0	0	0	0	0	0	0	0
Buena Park	0	0	0	0	1	0	0	0	0	2	54	587
East Orange	0	0	0	0	0	0	0	0	0	0	0	0
El Toro	0	0	0	0	0	0	0	1	0	1	9	10
Fountain Valley	0	0	0	0	0	1	0	0	0	1	23	61
Garden Grove	0	0	0	0	1	0	0	0	0	1	0	1
Golden State	0	0	0	0	0	0	0	0	0	1	3	34
Huntington Beach	0	2	0	1	2	0	1	0	0	6	180	851
Irvine Ranch	1	1	1	0	2	1	1	0	0	10	119	821
La Habra	0	0	0	0	1	0	0	0	0	1	0	1
La Palma	0	0	0	0	0	0	0	0	0	0	0	0
Laguna Beach	0	0	0	0	0	0	0	0	0	0	0	0
Mesa Water	0	0	0	0	0	0	0	0	0	0	0	0
Moulton Niguel	0	0	0	0	0	0	0	0	0	0	0	0
Newport Beach	0	0	0	1	0	0	0	0	0	1	21	104
Orange	0	0	0	0	1	2	1	0	0	5	97	650
San Juan Capistrano	0	0	0	0	0	0	0	0	0	0	0	0
San Clemente	0	0	0	0	0	0	0	0	0	0	0	0
Santa Margarita	0	0	0	0	0	0	0	0	0	0	0	0
Seal Beach	0	0	0	0	0	0	0	0	0	0	0	0
Serrano	0	0	0	0	0	0	0	0	0	0	0	0
South Coast	0	0	0	0	1	1	0	0	0	2	134	358
Trabuco Canyon	0	0	0	0	0	0	0	0	0	0	0	0
Tustin	0	0	0	0	0	0	0	0	0	0	0	0
Westminster	0	0	0	0	0	0	0	1	0	1	117	59
Yorba Linda	0	0	0	0	0	0	0	1	0	1	20	23
<b>MWDOC Totals</b>	1	3	1	2	9	5	3	3	0	33	779	3562
Anaheim	0	0	0	0	0	0	0	0	0	0	0	0
Fullerton	0	0	0	0	0	0	0	0	0	0	0	0
Santa Ana	0	0	0	0	1	0	0	0	0	1	135	574
<b>OC Totals</b>	1	3	1	2	10	5	3	3	0	34	914	4136

[1] Acre feet of savings determined during a one year monitoring period.

If monitoring data is not available, the savings estimated in agreement is used.



**TURF REMOVAL BY AGENCY<sup>[1]</sup>**  
through MWDOC and Local Agency Conservation Programs

Agency	FY 13/14		FY 14/15		FY 15/16		FY 16/17		FY 17/18		FY 18/19		FY 19/20		Total Program		Cumulative Water Savings across all Fiscal Years
	Res	Comm.	Res	Comm.	Res	Comm.	Res	Comm.	Res	Comm.	Res	Comm.	Res	Comm.	Res	Comm.	
Brea	5,697	0	71,981	30,617	118,930	404,411	8,354	479	9,853	27,234	3,180	44,733	0	0	228,997	516,940	511.56
Buena Park	0	0	11,670	1,626	77,127	16,490	3,741	0	4,586	0	1,230	0	1,922	0	98,354	18,116	80.42
East Orange	1,964	0	18,312	0	27,844	0	0	0	0	0	0	0	0	0	48,120	0	36.80
El Toro	4,582	0	27,046	221,612	63,546	162,548	13,139	48,019	7,273	42,510	12,856	9,895	270	0	137,845	557,302	518.81
Fountain Valley	4,252	0	45,583	5,279	65,232	0	3,679	0	8,631	0	5,764	28,700	734	0	135,123	41,503	117.51
Garden Grove	8,274	0	67,701	22,000	177,408	49,226	11,504	0	4,487	0	0	0	0	0	287,921	117,403	337.17
Golden State	32,725	8,424	164,507	190,738	310,264	112,937	0	0	0	0	0	48,595	0	0	581,902	394,867	780.47
Huntington Beach	20,642	0	165,600	58,942	305,420	270,303	9,560	21,534	14,236	6,032	9,539	40,135	4,132	0	562,647	461,872	775.67
Irvine Ranch	36,584	76,400	234,905	317,999	782,844	2,675,629	231,483	46,725	86,893	61,037	55,346	203,014	10,052	0	1,472,812	3,427,648	3,374.41
La Habra	0	0	14,014	1,818	49,691	72,164	0	0	3,003	0	1,504	0	0	0	68,212	90,019	121.15
La Palma	0	0	4,884	0	10,257	59,760	0	0	0	0	0	0	0	0	15,141	59,760	53.11
Laguna Beach	4,586	226	13,647	46,850	47,614	0	3,059	0	589	0	0	0	0	0	75,670	48,788	100.20
Mesa Water	22,246	0	131,675	33,620	220,815	106,896	4,173	77,033	17,373	77,785	3,023	0	4,453	0	416,749	295,334	483.49
Moulton Niguel	14,739	40,741	314,250	1,612,845	889,748	1,059,279	220,749	0	98,271	0	106,574	0	28,822	0	1,661,308	2,840,054	3,389.00
Newport Beach	894	0	33,995	65,277	76,675	375,404	2,924	0	5,938	6,499	0	90,403	0	0	127,428	539,929	442.10
Orange	11,244	0	120,093	281,402	289,990	106,487	12,847	2,366	11,956	0	13,645	1,798	0	0	488,697	400,776	685.96
San Clemente	18,471	13,908	90,349	1,137	215,249	438,963	4,267	0	33,083	7,098	6,500	0	3,987	3,064	405,483	474,271	641.80
San Juan Capistrano	12,106	0	101,195	32,366	197,290	143,315	2,624	40,748	0	0	0	0	0	0	365,415	347,277	609.46
Santa Margarita	17,778	48,180	211,198	514,198	534,048	550,420	17,010	28,094	62,706	25,000	24,616	23,198	1,273	0	883,954	1,217,651	1,551.53
Seal Beach	0	0	15,178	504	17,349	15,911	1,234	0	752	0	0	0	0	0	38,124	16,415	41.40
Serrano	2,971	0	41,247	0	127,877	4,403	5,450	0	555	0	4,000	0	0	0	182,100	4,403	134.48
South Coast	15,162	116,719	84,282	191,853	181,102	128,290	14,967	0	13,319	7,806	7,574	0	0	0	332,641	465,387	641.09
Trabuco Canyon	2,651	0	14,771	0	42,510	88,272	1,465	0	4,788	0	1,536	0	432	0	69,535	110,712	136.34
Tustin	1,410	0	71,285	14,137	232,697	33,362	11,173	0	16,926	0	13,189	6,894	6,339	0	356,660	54,393	287.17
Westminster	0	0	14,040	34,631	71,833	23,902	11,112	0	10,033	0	5,924	0	0	0	112,942	58,533	118.59
Yorba Linda	0	0	112,136	12,702	360,279	116,985	19,420	0	9,529	3,696	12,590	12,020	2,186	0	525,303	145,403	476.30
<b>MWDOC Totals</b>	<b>238,978</b>	<b>304,598</b>	<b>2,195,544</b>	<b>3,692,153</b>	<b>5,493,639</b>	<b>7,015,357</b>	<b>613,934</b>	<b>264,998</b>	<b>424,780</b>	<b>264,697</b>	<b>288,590</b>	<b>509,385</b>	<b>64,602</b>	<b>3,064</b>	<b>9,679,083</b>	<b>12,704,756</b>	<b>16,445.98</b>

Anaheim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Fullerton	0	9,214	0	0	0	0	0	0	0	0	0	0	0	0	0	9,214	9.03
Santa Ana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
<b>Non-MWDOC Totals</b>	<b>0</b>	<b>9,214</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,214</b>	<b>9.03</b>

<b>Orange County Totals</b>	<b>238,978</b>	<b>313,812</b>	<b>2,195,544</b>	<b>3,692,153</b>	<b>5,493,639</b>	<b>7,015,357</b>	<b>613,934</b>	<b>264,998</b>	<b>424,780</b>	<b>264,697</b>	<b>288,590</b>	<b>509,385</b>	<b>64,602</b>	<b>3,064</b>	<b>9,679,083</b>	<b>12,713,970</b>	<b>16,455</b>
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[1] Installed device numbers are listed as square feet

## HIGH EFFICIENCY TOILETS (HETs) INSTALLED BY AGENCY

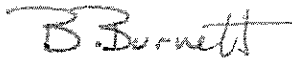
through MWDOC and Local Agency Conservation Programs

Agency	FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	Total	Cumulative Water Savings across all Fiscal Years
Brea	0	38	146	154	4	6	1	0	0	457	135.89
Buena Park	0	96	153	112	13	3	0	0	0	687	244.50
East Orange CWD RZ	0	13	26	24	0	0	0	0	0	86	27.75
El Toro WD	133	218	869	264	12	6	10	0	0	2,053	699.25
Fountain Valley	0	41	132	220	7	9	1	2	0	835	314.38
Garden Grove	0	63	350	363	7	4	5	0	0	1,493	538.63
Golden State WC	2	142	794	512	9	11	5	3	0	2,809	997.37
Huntington Beach	0	163	1,190	628	4	3	4	1	0	2,909	946.00
Irvine Ranch WD	1,449	810	1,777	2,798	638	239	162	37	0	17,347	6,770.47
Laguna Beach CWD	0	45	112	81	1	4	0	0	0	392	134.78
La Habra	0	37	94	83	5	1	0	0	0	591	241.01
La Palma	0	21	59	52	4	2	4	3	0	231	76.14
Mesa Water	0	147	162	162	7	3	3	1	0	1,625	719.42
Moulton Niguel WD	0	400	2,497	1,939	49	40	21	7	0	5,758	1,590.56
Newport Beach	0	49	168	243	11	6	0	0	0	731	239.39
Orange	1	142	978	416	17	10	5	0	0	2,194	702.39
San Juan Capistrano	0	35	140	202	3	9	4	0	0	536	162.75
San Clemente	0	72	225	246	11	6	10	0	0	888	294.08
Santa Margarita WD	0	528	997	1,152	114	34	11	2	0	3,356	937.28
Seal Beach	2	17	50	69	-1	0	0	0	0	857	458.19
Serrano WD	0	2	40	55	3	0	3	0	0	124	34.09
South Coast WD	64	102	398	235	11	7	0	0	0	1,028	310.30
Trabuco Canyon WD	0	10	108	169	2	3	2	0	0	344	92.14
Tustin	0	64	132	201	12	10	4	0	0	1,520	654.64
Westminster	0	35	161	359	3	4	0	0	0	1,335	517.35
Yorba Linda WD	0	40	280	379	12	8	2	0	0	1,261	442.44
<b>MWDOC Totals</b>	1,651	3,330	12,038	11,118	958	428	257	56	0	51,447	18,281.20

Anaheim	0	156	1,188	614	70	19	5	6	0	5,895	2,444.34
Fullerton	0	61	293	286	14	9	8	2	0	1,074	360.05
Santa Ana	0	33	602	293	20	0	4	0	0	2,025	773.89
<b>Non-MWDOC Totals</b>	0	250	2,083	1,193	104	28	17	8	0	8,994	3,578.28

<b>Orange County Totals</b>	1,651	3,580	14,121	12,311	1,062	456	274	64	0	60,441	21,859.49
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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](http://www.socwa.com).



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

## **AGENDA**

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

November 7, 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  
November 7, 2019

4. CONSENT CALENDAR

PAGE NO.

A. Minutes of Board of Directors Meeting (s)

- |   |   |
|---|---|
| 1) Board of Directors Meeting September 5, 2019 ..... | 1 |
| 2) Board of Directors Meeting September 17, 2019..... | 6 |
| 3) Board of Directors Meeting October 3, 2019 .....   | 8 |

ACTION      The Board will be requested to approve subject Minutes.

B. Financial Reports for the Month of July 2019

- |  |    |
|--|----|
| a) Summary of Disbursements for July 2019 ( Exhibit A) .....     | 13 |
| b) Schedule of Funds Available for Reinvestment (Exhibit B)..... | 14 |
| c) Local Agency Investment Fund (LAIF) .....                     | 15 |
| d) Schedule of Cash And Investments (Exhibit C).....             | 16 |

ACTION      Information Item (this item will be reviewed at the Finance  
Committee November 12, 2019 meeting and return for  
action to the December 2019 Board Meeting)

C. Financial Reports for the Month of August 2019

- |  |    |
|--|----|
| a) Summary of Disbursements for August 2019 ( Exhibit A).....    | 18 |
| b) Schedule of Funds Available for Reinvestment (Exhibit B)..... | 19 |
| c) Local Agency Investment Fund (LAIF) .....                     | 20 |
| d) Schedule of Cash And Investments (Exhibit C).....             | 21 |

ACTION      Information Item (this item will be reviewed at the Finance  
Committee November 12, 2019 meeting and return for  
action to the December 2019 Board Meeting)

D. Financial Reports for the Month of September 2019

- |   |    |
|---|----|
| a) Summary of Disbursements for September ( Exhibit A) .....                  | 23 |
| b) Schedule of Funds Available for Reinvestment (Exhibit B).....              | 24 |
| c) Local Agency Investment Fund (LAIF) .....                                  | 25 |
| d) Schedule of Cash And Investments (Exhibit C).....                          | 26 |
| e) Budget vs. Actual Capital Spending Year-to-Date (Exhibit D) .....          | 27 |
| f) Capital Graph-Budget vs. Actual Spending Year -to-Date (Exhibit D-1) ..... | 28 |
| g) Budget vs. Actual Expenses Year to Date                                    |    |
| ➤ Operations and Environmental Summary (Exhibit E-1).....                     | 29 |
| ➤ Operations and Environmental by PC (Exhibit E-1.2) .....                    | 31 |
| ➤ Residual Engineering, after transfer to Capital (Exhibit E-2) .....         | 37 |
| ➤ Administration (Exhibit E-3) .....  | 38 |
| ➤ Information Technology (IT) (Exhibit E-4) .....                             | 39 |



**AGENDA**  
South Orange County Wastewater Authority  
Board of Directors Meeting  
November 7, 2019

ACTION      Information Item (this item will be reviewed at the Finance Committee November 12, 2019 meeting and return for action to the December 2019 Board Meeting)

E. Operational Reports – September 2019

1) Monthly Operations Report – September 2019 .....	41
2) Ocean Outfall Discharges .....	51
3) Quarterly Report on Key Operational Expenses .....	53
4) Beach/Ocean Monitoring Report.....	61
5) Recycled Water Report.....	83
6) Pretreatment Report – September and October 2019.....	88

ACTION      The Board will be requested to receive and file the September 2019 Operations Reports.

F. Capital Improvement Program

1) Status Report(s) .....	92
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ACTION      The Board will be requested to receive and file report(s).

G. SOCWA 457 Plan Adoption Agreement..... 94

ACTION      The Board will be requested to approve the SOCWA 457 Plan Adoption Agreement.

5. GENERAL MANAGER'S REPORTS

A. Update on Advanced Water Treatment & Direct/Indirect Potable Reuse (DPR/IPR) ..... 110

- 1) Opportunities, Challenges & Ideas at JBL/RTP/CTP – SOCWA staff presentation;
- 2) DPR/IPR Framework, CA WateReuse Action Plan and Industry Update – Rich Nagel, Jacobs presentation

ACTION      Information Item

B. Financial Edge NXT Upgrade ..... 117

ACTION      The Board will be requested to authorize the General Manager to contract for the upgrade to FE NXT and select one of two options:

- Upgrade plus 3 years of service      \$56,293 (Yr. 1)\*,  
29,604 (2 more years)\*  
\*\$42,897 in savings
- Or
- Upgrade plus one-year subscription      \$74,600

**AGENDA**  
South Orange County Wastewater Authority  
Board of Directors Meeting  
November 7, 2019

C. San Juan Creek Ocean Outfall NPDES Permit (PC5)..... 120

ACTION      The PC5 Board will be requested to approve the inclusion and update of the San Juan Creek Ocean Outfall Report of Waste Discharge to include the Doheny Desal Project with conditions for updated modeling and monthly monitoring.

D. Chlor Alkali Products 5.25%-12.5% Sodium Hypochlorite (Bleach) and 30%-50% Sodium Hydroxide (Caustic Soda) Contract Awards ..... 123

- ACTIONS    1) Staff recommends the Board authorize the General Manager to enter into a contract with Olin, Inc. for sodium hypochlorite products for two (2) years with pricing as set forth in the staff report with up to three (3) optional annual renewals; and
- 2) Staff recommends the Board authorize the General Manager to enter into a contract with North Star Chemical, Inc. (a DBA of Pacific Star Chemical, LLC.) for sodium hydroxide products for two (2) years with pricing as set forth in the staff report with up to three (3) optional annual renewals.

E. SOCWA Employee Manual Update & Side Letter Agreement to SOCWA Employee Association Memorandum of Understanding for the Period July 1, 2017 to June 30, 2020, and July 1 2020 to June 30, 2023. (Open session items may follow Closed Session). .... 128

- ACTIONS    1) Staff recommends approval of the revised Employee Manual dated November 7, 2019; and
- 2) Staff recommends the approval of Side Letter No. 5 to the SOCWA Employee Association Memorandum of Understanding ("MOU") for the Period July 1, 2017 to June 30, 2020, and Side Letter No. 1 to the MOU for the Period July 1, 2020 to June 30, 2023.

F. General Manager's Status Report ..... 129

ACTION      Information Item

G. Monthly Progress Report on State Audit Recommendations ..... 139

ACTION      Information Item

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**AGENDA**  
South Orange County Wastewater Authority  
Board of Directors Meeting  
November 7, 2019

6. CLOSED SESSION

- A. Closed Session Pursuant to Government Code § 54957.6 Conference with Labor Negotiators:

SOCWA Designated Representative:      Betty Burnett, General Manager;  
   Brad Neufeld, Labor Counsel

Employee Organization: SOCWA Employee's Association

7. OTHER MATTERS

- A. Open discussion or items received too late to be agendized.

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.]

8. ADJOURNMENT

THE NEXT SOCWA BOARD MEETING  
DECEMBER 12, 2019

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

**November 12, 2019  
10:30 a.m.**

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee was called by the Chairman to be held on **November 12, 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 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 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 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 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**

- Finance Committee Meeting Minutes of September 3, 2019

**Recommended Action:**

Staff recommends the Finance Committee to approve minutes as submitted.

**5. Financial Reports for the Month of July 2019**

- a) Summary of Disbursement for July 2019 (Exhibit A)
- b) Schedule of Funds Available for Reinvestment (Exhibit B)
- c) Local Agency Investment Fund (LAIF)
- d) Schedule of Cash and Investments (Exhibit C)

**Recommended Action:**

Staff recommends that the Finance Committee recommend the Board of Directors to ratify the July 2019 disbursements for the period from July 1, 2019, through July 31, 2019, totaling \$3,497,969, and to receive and file the July 2019 Cash Reports as submitted.

**6. Financial Reports for the Month of August 2019**

- a) Summary of Disbursement for August 2019 (Exhibit A)
- b) Schedule of Funds Available for Reinvestment (Exhibit B)
- c) Local Agency Investment Fund (LAIF)
- d) Schedule of Cash and Investments (Exhibit C)

**Recommended Action:**

Staff recommends that the Finance Committee recommend the Board of Directors to ratify the August 2019 disbursements for the period from August 1, 2019, through August 31, 2019, totaling \$2,189,220, and to receive and file the August 2019 Cash Reports as submitted.

**7. Financial Reports for the Month of September 2019**

- a) Summary of Disbursement for September 2019 (Exhibit A)
- b) Schedule of Funds Available for Reinvestment (Exhibit B)
- c) Local Agency Investment Fund (LAIF)
- d) Schedule of Cash and Investments (Exhibit C)
- e) Budget vs. Actual Capital Spending YTD (Exhibit D)
- f) Capital Graph-Budget vs. Actual Spending Year-to Date (Exhibit D-1)
- g) Budget vs. Actual Expenses Year -to Date
  - Operations and Environmental Summary (Exhibit E-1)
  - Operations and Environmental by PC (E-1.2)
  - Residual Engineering, after transfer to Capital (Exhibit E-2)
  - Administration (Exhibit E-3)
  - Information Technology (IT) (Exhibit E-4)



**Recommended Action:**

Staff recommends that the Finance Committee recommend the Board of Directors to ratify the September 2019 disbursements for the period from September 1, 2019, through September 30, 2019, totaling \$1,927,835, and to receive and file the September 2019 Cash Reports as submitted.

**8. Draft Comprehensive Annual Financial Report (CAFR) for the Fiscal Years ended June 30, 2019 (enclosed under separate cover), including:**

- Independent Auditors Report
- Supplemental Financial Statements by Project Committee and Member Agency for Fiscal Year Ended June 30, 2019

**Recommended Action:**

- 1) The Finance Committee to provide comments to the Draft CAFR and recommend to the Board of Directors approval of the CAFR including the Independent Audit Report for Fiscal Year ended June 30, 2019; and
- 2) The Finance Committee recommends to the Board of Directors to receive and file the Supplemental Financial Statements for Fiscal Year ended June 30, 2019.

**9. Draft Use Audit FY 2018-19 Budget vs. Actual including Cash Roll Forward as of June 30, 2019:**

- Management Discussion and Analysis (MD&A) for Use Audit
- Assets Placed in Service FY 2018-19
- Cash Roll Forward Notes
- Large Capital Cash Reconciliation to Net Position
- Cash Roll Forward for Fiscal Year Ended June 30, 2019; Large Capital, Small Capital and Non-Capital

**Recommended Action:**

- 1) The Finance Committee recommends to the Board of Directors approval of the 2018-19 Use Audit and collection from and payments to SOCWA member agencies consistent with the results of the Use Audit as presented; and
- 2) The Finance Committee recommends to the Board of Directors to receive and file the Cash Roll Forward as of June 30, 2019.

**10. Q1 FY 2019-20; Cash Roll Forward as of September 30, 2019 including:**

- Cash Roll Forward Notes
- Large Capital Cash Reconciliation to General Ledger (GL)
- Cash Roll Forward for Large Capital, Small Capital, Non-Capital and Non-Capital Misc.

**Recommended Action:**

Staff recommends the Finance Committee recommend the Board to receive and file the Q1 Fiscal Year 2019-20 Cash Roll Forward as submitted.

**11. Fiscal Year 2018-19 Supplemental Financial Statements**

**Recommended Action:**

Staff recommends to the Finance Committee to review the Supplemental Financial Statements and Management Discussion and Analysis and recommend to the Board of Directors to receive and file.

**12. Uniform Purchasing Policy and Procedures Update**

**Recommended Action:**


Staff recommends Finance Committee recommends to the Board of Directors approval of the updated Uniform Purchasing Policy and Procedures.

**13. Adjournment**

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Finance Committee 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 Finance Committee at the usual agenda posting location of the South Orange County Wastewater Authority and at [www.socwa.com](http://www.socwa.com).

Dated this 7<sup>th</sup> day of November 2019.



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

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

**November 14, 2019**

**8:30 a.m.**

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee has been scheduled to be held on **November 14, 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 (J.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 DISCLOSEABLE 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 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 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.*

**3. Approval of Minutes**

- Engineering Committee Meeting Minutes of September 12, 2019

**Recommended Action:**

Staff recommends the Engineering Committee to approve minutes as submitted.

**4. Operations Status Report**

**Recommended Action:**

Information Item

**5. SOCWA Research Plan Project 3 Update**

**Recommended Action:**

Staff recommends that the Engineering Committee recommend the Board of Directors to receive and file the results of Project 3.

**6. Ocean Acidification and Hypoxia Model Validation Oversight (PC5 & PC24)**

**Recommended Action:**

Information Item; SOCWA staff will provide the Engineering Committee with the technical memorandums associated with the task 3 work.

**7. Project Updates, Contingency, and Change Orders  
(Project Committees 2, 15 & 17)**

**Recommended Action:**

- a) Approve the recommended changes to presenting Change Orders to the Engineering Committee; and
- b) Recommend the contingencies presented previously to the Board of Directors.

**8. Regional Treatment Plant Cogeneration System Update  
(Project Committee 17)**

**Recommended Action:**

Information Item

**9. J.B. Latham Treatment Plant Package B Update  
(Project Committee 2)**

**Recommended Action:**

Staff recommends the Engineering Committee recommend the Board of Directors approve Change Orders 1 for the construction contract of JBLTP Package B, Facility Improvements Solids Area.

**10. Change Order to SS Mechanical Construction Contract for the Coasatal Treatment Plant Tertiary System Upgrades Project**  
**(Project Committee 15)**

**Recommended Action:**

Staff recommends the Engineering Committee recommend the PC15 Board to approve Change Order No. 9 for the construction contract of Applied Water Pump VFD and Electrical.

**11. Coastal Treatment Plant Facility Improvements Update**  
**(Project Committee 15)**

- a) Status Update (generator connection)

**Recommended Action:**

Information Item

**12. Adjournment**

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Engineering Committee at least 24 hours prior to the scheduled time of the Regular 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 Engineering Committee meeting at the usual agenda posting location of the South Orange County Wastewater Authority and at [www.socwa.com](http://www.socwa.com).

Dated this 12<sup>th</sup> day of November 2019.



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



WORKSHOP MEETING OF THE  
BOARD OF DIRECTORS WITH MET DIRECTORS  
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY  
18700 Ward Street, Board Room, Fountain Valley, California  
November 6, 2019, 8:30 a.m.

**AGENDA**

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**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. 2090)**

**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. DISCUSSION SERIES ON METROPOLITAN'S INTEGRATED RESOURCES PLAN: PART 1 - HISTORY AND BACKGROUND**

*Recommendation: Review and discuss the information presented.*

**3. WATER SUPPLY UPDATE AND STORAGE LEVELS**

*Recommendation: Review and discuss the information presented.*

**4. DELTA CONVEYANCE PROJECT ACTIVITIES UPDATE**

*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 October Board Meeting
- b. Review items of significance for MET Board and Committee Agendas

*Recommendation: Review and discuss the information presented.*

**CLOSED SESSION**

**7. PUBLIC EMPLOYEE DISCIPLINE**

**8. PUBLIC EMPLOYEE PERFORMANCE EVALUATION**

Title: General Manager  
Government Code Section 54957

**9. CONFERENCE WITH LABOR NEGOTIATORS**

District Designated Representatives: Joseph Byrne, Legal Counsel  
Unrepresented Employee: General Manager

**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

**PLANNING & OPERATIONS COMMITTEE**

November 12, 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

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

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

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

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

**ACTION ITEMS**

1. AUTHORIZATION TO CONTRACT WITH DISTRIBUTION SYSTEM FLUSHING COMPANIES

**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.)

2. EMERGENCY USE OF MET SYSTEM TO MAKE MEMBER AGENCY DELIVERIES
3. SOLE SOURCE AGREEMENT WITH VALVETEK

4. AGENCIES PARTICIPATING IN METROPOLITAN'S CYCLIC COST OFFSET PROGRAM
5. CADIZ WATER CONSERVATION AND STORAGE PROJECT (CADIZ PROJECT): NEW THREE VALLEYS MWD STUDY ON BONANZA SPRINGS
6. STATE WATER BOARD TRIENNIAL REVIEW OF THE OCEAN PLAN – RE-OPENING THE DESALINATION AMENDMENT
7. STATUS REPORTS
  - a. Ongoing MWDOC Reliability and Engineering/Planning Projects
  - b. WEROC
  - c. Water Use Efficiency Projects
8. 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

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MEETING OF THE BOARD OF DIRECTORS OF THE  
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY  
Jointly with the  
**ADMINISTRATION & FINANCE COMMITTEE**  
November 13, 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

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**PROPOSED BOARD CONSENT CALENDAR ITEMS**

1. TREASURER'S REPORT
  - a. Revenue/Cash Receipt Report – October 2019
  - b. Disbursement Approval Report for the month of November 2019
  - c. Disbursement Ratification Report for the month of October 2019
  - d. GM Approved Disbursement Report for the month of October 2019
  - e. Water Use Efficiency Projects Cash Flow – October 31, 2019
  - f. Consolidated Summary of Cash and Investment – September 2019
  - g. OPEB and Pension Trust Fund monthly statement
2. FINANCIAL REPORT
  - a. Combined Financial Statements and Budget Comparative for the Period ending September 30, 2019
  - b. Quarterly Budget Review
  - c. FY 2018-19 Audit Report and Presentation regarding Audit Report



**ACTION ITEMS**

3. REVISIONS TO DISTRICT ADMINISTRATIVE CODE SECTIONS 7109 & 7110
4. CALIFORNIA WATER, ENERGY, AND EDUCATION ALLIANCE (WEEA) SPONSORSHIP
5. APPROVE ADDITION OF CIVILITY POLICY SECTION 4104 TO THE 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.)

6. FY 2020-21 BUDGET SCHEDULE
7. SOLE SOURCE PROCUREMENT WITH MONSIDO, INC.
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

**CLOSED SESSION ITEMS**

11. PUBLIC EMPLOYEE PERFORMANCE EVALUATION  
Title: General Manager  
*Government Code Section 54957*
12. CONFERENCE WITH LABOR NEGOTIATORS  
District Designated Representatives: Joseph Byrne, Legal Counsel  
Unrepresented Employee: General Manager

**ADJOURNMENT**

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MEETING OF THE  
BOARD OF DIRECTORS OF THE  
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY  
Jointly with the  
**PUBLIC AFFAIRS AND LEGISLATION COMMITTEE**  
November 18, 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, K. Davanaugh, T. Baca

**Ex Officio Member:** Director Barbre

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**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 --**

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**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)
2. MWDOC LEGISLATIVE POLICY PRINCIPLES ANNUAL UPDATE

**ACTION ITEMS**

3. TRAVEL TO WASHINGTON, DC TO COVER FEDERAL ADVOCACY ISSUES
4. TRAVEL TO SACRAMENTO TO COVER STATE ADVOCACY ISSUES

**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.)

5. OC WATER SUMMIT PLANNING UPDATE
6. EDUCATION PROGRAM UPDATE
7. PUBLIC AND GOVERNMENT AFFAIRS ACTIVITIES REPORT

**OTHER ITEMS**

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

**ADJOURNMENT**

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REGULAR MEETING  
OF THE BOARD OF DIRECTORS  
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY  
18700 Ward Street, Board Room, Fountain Valley, California  
November 20, 2019, 8:30 a.m.

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**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**

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**EMPLOYEE RECOGNITION**

**NEXT RESOLUTION NO. 2090**

**CONSENT CALENDAR (Items 1 to 9)**

(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. October 2, 2019 Workshop Board Meeting
- b. October 16, 2019 Regular Board Meeting

*Recommendation: Approve as presented.*

**2. COMMITTEE MEETING REPORTS**

- a. Planning & Operations Committee Meeting: October 14, 2019
- b. Administration & Finance Committee Meeting: October 9, 2019
- c. Public Affairs & Legislation Committee Meeting: October 21, 2019



- d. Executive Committee Meeting: October 17, 2019

*Recommendation: Receive and file as presented.*

**3. TREASURER'S REPORTS**

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

*Recommendation: Ratify and approve as presented.*

- c. Summary of Cash and Investment and Portfolio Master Summary Report (Cash and Investment report) as of September 30, 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 September 30, 2019
- b. Quarterly Budget Review
- c. FY 2018-19 Draft Audit Report

*Recommendation: Receive and file as presented.*

**5. AUTHORIZATION TO CONTRACT WITH DISTRIBUTION SYSTEM FLUSHING COMPANIES**

*Recommendation: Authorize the General Manager to enter into five-year contracts with Reliable Water Solutions, Inc., and ValveTek Utility Services, Inc. to provide Distribution System Flushing Services to retail water agencies throughout Orange County as part of MWDOC's Water Loss Control Shared Services.*

**6. REVISIONS TO DISTRICT ADMINISTRATIVE CODE SECTIONS 7109 & 7110**

*Recommendation: Approve the recommended changes to Administrative Code Sections 7109 and 7110 as presented.*

**7. CALIFORNIA WATER, ENERGY, AND EDUCATION ALLIANCE (WEEA) SPONSORSHIP**

*Recommendation: Authorize sponsorship (membership) in WEEA in the amount of \$2,500 (option 1).*

**8. TRAVEL TO WASHINGTON, DC TO COVER FEDERAL ADVOCACY ISSUES**

*Recommendation: Review the travel expenses and ratify as reported*

**9. TRAVEL TO SACRAMENTO TO COVER STATE ADVOCACY ISSUES**

*Recommendation: Review the travel expenses and ratify as reported*

**End Consent Calendar**

**ACTION ITEMS**

**10-1 CONSIDERATION OF AMENDMENTS TO GENERAL MANAGER CONTRACT**

*Recommendation: Discuss the General Manager's Employment Agreement and take action as appropriate.*

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

**11. GENERAL MANAGER'S REPORT, NOVEMBER 2019 (ORAL AND WRITTEN)**

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

**12. 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 SESSIONS**

**13. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION**

Pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9. One Case: San Diego County Water Authority v. Metropolitan Water District of Southern California; all persons interested in the validity of the rates adopted by the Metropolitan Water District of Southern California on April 13, 2010, et al., former Los Angeles Superior Court, Case No. BS 126888, transferred on October 21, 2010, to San Francisco Superior Court, Case No. CPF-10-510830. [On Remand from Court of Appeal Case No. A146901]

**14. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION**

Pursuant to Paragraph (1) of subdivision (d) of Government Code 54956.9. One Case: San Diego County Water Authority v. Metropolitan Water District of Southern California; all persons interested in the validity of the rates adopted by the Metropolitan Water District of Southern California on April 10, 2012 to be Effective January 1, 2013 and January 1, 2014; and Does 1-10, et al., former Los Angeles Superior Court, Case No. BS137830, transferred on August 23, 2012, to San

Francisco Superior Court, Case No. CPF-12-512466. [On Remand from Court of Appeal Case No. A148266]

**15. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION**

Pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9. One Case: San Diego County Water Authority v. Metropolitan Water District of Southern California; all persons interested in the validity of the rates adopted by the Metropolitan Water of Southern California on April 8, 2014, et al., former Los Angeles Superior Court, Case No. BC547139, transferred on December 2, 2014, to San Francisco Superior Court, Case No. CPF-14-514004.

**16. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION**

Pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9. One Case: San Diego County Water Authority v. Metropolitan Water District of Southern California; all persons interested in the validity of the rates adopted by the Metropolitan Water District of Southern California on April 12, 2016, effective January 1, 2017 and January 1, 2018, et al., former Los Angeles Superior Court, Case No. BS161729, transferred to San Francisco Superior Court, Case CPF-16-515282.

**17. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION**

Pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9. One Case: San Diego County Water Authority v. Metropolitan Water District of Southern California; all persons interested in the validity of the rates adopted by the Metropolitan Water District of Southern California in 2017 to be effective January 1, 2018, et al., Los Angeles Superior Court, Case No. BS 169881, transferred to San Francisco Superior Court Case CGC-17-563350.

**18. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION**

Pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9. One Case: San Diego County Water Authority v. Metropolitan Water District of Southern California; all persons interested in the validity of the rates adopted by the Metropolitan Water District of Southern California on April 10, 2018 to be effective January 1, 2019, and Jan. 1, 2020, et al., Los Angeles Superior Court, Case No. BS 173868, Transferred to San Francisco Superior Court, Case CPF-18-516389.

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## GENERAL MANAGER'S REPORT OF STAFF ACTIVITIES NOVEMBER 2019

### MWDOC Agencies Managers Meeting

MWDOC held its Member Agency Managers' meeting at its office in Fountain Valley on October 17, 2019.

**In attendance were:** Dennis Cafferty – El Toro WD, Mark Sprague – Fountain Valley, Cel Pasillas – Garden Grove, Paul Cook & Paul Weghorst – Irvine Ranch WD, Matt Collings – Moulton Niguel WD, Mark Vukojevic – Newport Beach, Mike Markus & Adam Hutchinson – Orange County WD, Jose Diaz – Orange, Dave Rebensdorf – San Clemente, Dan Ferons – Santa Margarita WD, Joe McDivitt – South Coast WD, Fernando Paludi – Trabuco Canyon WD, Scott Miller – Westminster, Marc Marcantonio & Rosanne Weston – Yorba Linda WD

**MWDOC Staff:** Rob Hunter, Karl Seckel, Harvey De La Torre, Melissa Baum-Haley, Joe Berg, Chris Lingad

- **Discussion Items:**

- Development of Water Loss Performance Standards
- Metropolitan to co-fund dues payments for AWE and Cal WEP
- EPA Lead and Copper Rule Proposal
- Legislative Policy Principles

- **Information Items:**

- Metropolitan Upcoming Shutdowns
- AWIA Update and Contract
- BUC – AQMD Follow-up

**Next meeting will tentatively be held: November 21, 2019**

### Meetings

- Charles Busslinger and Karl Seckel participated in a conference call with IRWD staff on October 9, 2019 to discuss IRWD's perspective on the extension/expansion alternatives identified in the Dudek Study for the South OC Emergency Service Program. The alternatives will be further discussed with all of the south OC agencies at the upcoming regional planning & local water supply integration workshop in November 2019.
- Charles Busslinger attended a October 15, 2019 site visit to service connection OC-3 with staff from the City of Orange and MET regarding pending electrical modifications as part of a MET repair and replacement project to upgrade MET infrastructure. The meeting resulted in a path forward to complete electrical modifications to everyone's satisfaction. Agreements to document the minor changes are currently being prepared for Board consideration in the next month or two.
- Charles Busslinger and Karl Seckel attended a meeting on October 23, 2019 at Santa Margarita WD regarding the San Juan Watershed project. As

**Meetings –  
continued**

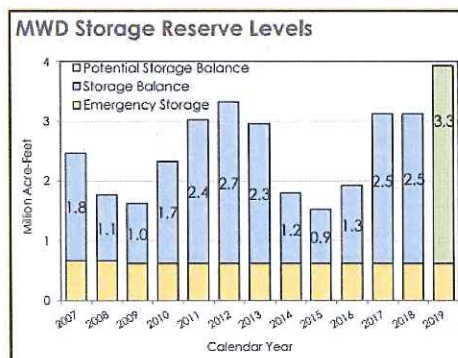
indicated above, some aspects of the project are changing and more information will be provided next month.

- Charles Busslinger and Chris Lingad participated in an October 29, 2019 conference call with MET regarding OC Feeder bulkhead removal and return to service operations; scheduled for November 12-18, 2019. Currently the OC-44 pipeline is down for repairs by Mesa WD and MWD OC is assisting in the coordination of the two projects.
- Karl Seckel, MWD OC Director Yoo-Schneider and myself attended the Laguna Beach County Water District Board meeting to provide a retirement send-off to Renae Hinchey who was the General Manager for the past 19 years.

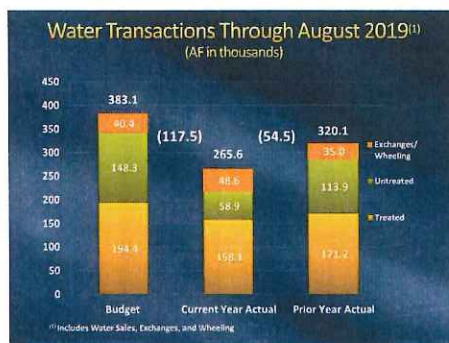
## MET ITEMS CRITICAL TO ORANGE COUNTY

**MET's  
Water  
Supply  
Conditions**

With estimated total demands and losses of 1.50 million acre-feet (MAF), along with 947 thousand acre-feet (TAF) of Colorado River water and a 75% SWP Table A Allocation plus an additional 65 TAF of Article 21 supplies, Metropolitan is projecting that supply will exceed demand levels in Calendar Year (CY) 2019. Based on this, estimated total dry-year storage for Metropolitan at the end of *CY 2019 is projected to go up to 3.3 MAF.*

**MET's  
Finance and  
Rate Issues**

Water transactions through August were 117.5 TAF (7%) lower than budget of 1.75 MAF and 8 TAF (0.06%) lower than the 5-year average. This is primarily due to a reduction in untreated water sales. This results in a water revenue that is \$105.4 million lower than budget.





<b>Colorado River Issues</b>	<p><b><u>Bard Water District Seasonal Fallowing Program – Tentative Agreement</u></b></p> <p>On September 19, Bard Water District voted to approve a draft term sheet outlining a proposal to extend the pilot Metropolitan-Bard seasonal fallowing program. The proposed program would be in place from 2020-2026, concurrent with the interstate agreement that allows Metropolitan to store water generated from the seasonal fallowing program in Lake Mead. The proposal incorporates lessons learned in the two-year pilot program, making the program more efficient and effective. Metropolitan staff is now working on environmental compliance and drafting an agreement for the program. The draft agreement will be brought for Metropolitan's Board consideration later this fall.</p> <p><b><u>Minute 323 Implementation - Hydrology Work Group</u></b></p> <p>In September 2019, Metropolitan attended a U.S. only meeting of the Binational Hydrology Work Group (Hydrology Work Group) in Boulder City, Nevada. The Hydrology Work Group is one of several joint groups with U.S. and Mexico that were tasked with implementing certain aspects of Minute 323. The Hydrology Work Group meets approximately twice a year to discuss how to address matters of hydrology in Minute 323. The meeting focused on development of a preliminary draft scope-of-work for the next one-to-two years of their activity, was discussed with Mexican representatives in Tijuana at a meeting in October 2019. The Hydrology Work Group also discussed the importance of delaying negotiations regarding any controversial binational issues until after the renegotiation of the Interim Guidelines formally begins in 2020 or 2021 within the U.S.</p> <p><b><u>Basin Study – New Pilot Program Authorized</u></b></p> <p>The Bureau of Reclamation's (USBR) Colorado River Basin Water Supply and Demand Study effort included grant funding for qualifying pilot projects. In September 2019, USBR notified Metropolitan, the Central Arizona Water Conservation District (CAWCD), and the Southern Nevada Water Authority (SNWA) that their joint proposal for matching funds was successful and that USBR will provide \$200,000 to investigate methods of quantifying agricultural water conservation in the Lower Colorado River Basin (Lower Basin), focusing on case studies of seasonal fallowing, deficit irrigation, and irrigation equipment conversion (e.g., conversion from flood irrigation to sprinklers). The aim of the proposal is to evaluate existing quantification methods and suggest methodological improvements to better guide investment in Lower Basin agricultural conservation going forward. The project team will consist of Metropolitan, CAWCD, SNWA, USBR Lower Colorado Region, an outside consultant, and a broad stakeholder group.</p>
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<b>Bay Delta/State Water Project Issues</b>	<p><b><u>Science Activities</u></b></p> <p>Metropolitan staff continued participating in the Collaborative Science and Adaptive Management Program (CSAMP), including participation on the Collaborative Adaptive Management Team (CAMT). In September, the CSAMP Steering Committee for the Delta Smelt Structured Decision Making (SDM) project developed a goal statement to provide direction on draft decision objectives and performance measures for Delta smelt as the SDM project moves forward. The steering committee also identified participants for the SDM technical workgroup. CAMT provided input to a presentation on the CAMT Delta smelt entrainment studies that are addressing questions concerning which factors affect Delta smelt entrainment and which are the effects of entrainment on the Delta smelt population. This set of studies is scheduled to be completed this fall. On September 18, Metropolitan staff participated in a kick-off meeting for a new science project to develop a relative risk model for water quality contaminants in the Bay-Delta. The objective of the project is to quantify the relative contributions of groups of water quality contaminants to the reduction in native pelagic fish species and changes in macroinvertebrate community structure in the Delta and Suisun Bay. At the meeting, the group discussed sources of water quality data available for the risk analysis, and identified technical expertise and stakeholder participation needed for the project. This is a three-year project, and the first year of the project is jointly funded by Metropolitan and the California Department of Pesticide Regulation.</p> <p><b><u>Delta Flood Emergency Management Plan</u></b></p> <p>On April 24-25, 2019, DWR conducted a two-day full-scale field exercise for levee repair and recovery in the Delta region. The exercise mobilized DWR and U.S. Army Corps of Engineers (USACE) emergency operations centers in Sacramento, and the DWR emergency warehousing and stockpile facility in Stockton. Workshops were held prior to the exercise to define common data sharing. This month, DWR completed an After-Action Report for the exercise. The exercise focused on operational coordination, communication, and assessment in response to potential breaches at two locations in the Delta region. It improved understanding of contractual responsibilities of shore side operations, efficient mobilization of USACE emergency field support and common communication methods through geographic information systems. DWR and UASCE are evaluating whether joint emergency operations agreements and reports will be updated pursuant to findings of the exercise.</p>
<b>South Orange County Projects</b>	<p><b><u>SMWD Trampas Canyon Recycled Water Reservoir</u></b></p> <p>Trampas Canyon Reservoir and Dam (Trampas Reservoir) is a seasonal recycled water storage reservoir, with a total capacity of 5,000 AF, of which 2,500 AF is available to meet Santa Margarita Water District's projected base recycled water demands, and 2,500 AF to meet future water supply needs. When completed, the Trampas Reservoir will allow SMWD to store recycled water in the winter and draw on that water during the peak summer months.</p> <p>The construction of the Trampas Canyon Recycled Water Seasonal Storage Reservoir consists of three main components:</p> <ol style="list-style-type: none"> <li>1. Trampas Canyon Dam (Dam)</li> </ol>

**South  
Orange  
County  
Projects -  
continued**

2. Conveyance facilities to transport recycled water into and out of the Reservoir (Pipelines)
3. Trampas Canyon Pump Station (Pump Station)

The construction of the facilities is being completed in three phases:

1. Preconstruction/Site Preparation for the Dam and Pump Station Construction
  - a. Project Status - Complete
2. Dam and Pipelines
  - a. Project Status - The Construction Contract was awarded in December 2017 and is approximately 62% complete.
3. Pump Station
  - a. Project Status - The 100% design of the pump station facility was completed in September and the bidding process with contractors has begun. Contract award is anticipated November 22, 2019. Substantial completion of the pump station construction is expected to be in July 2020, about 1 month ahead of the Reservoir and Dam completion.

**San Juan Watershed Project**

Santa Margarita Water District continues to focus on diversifying its water supply portfolio for south Orange County residents, businesses, schools, and visitors. On June 21, 2019, the San Juan Watershed Environmental Impact Report (EIR) was approved.

The San Juan Watershed Project is planned in three-phases and has the potential to develop an additional 4,010 to 8,240 acre-feet per year in addition to making better use of other local supplies from the San Juan Groundwater Basin. At this time, funding is only being developed for the Phase 1 project. With the release of its EIR, the project may break ground in late 2020.

At the same meeting, SMWD also approved two non-binding Memorandums of Understanding (MOU) for ocean water desalination. One is with Orange County Water District related to Poseidon Water in Huntington Beach; the other is with Oceanus Power and Water at Camp Pendleton. The District is also following the progress of the Doheny Desalination project led by South Coast Water District. At this time, SMWD is seeking about 1,000 AF per year from ocean desalination sources.

Karl and Charles met with Santa Margarita WD on October 23, 2019 to discuss the San Juan Watershed project. Some aspects of the project are changing and SMWD was invited to present modifications to the project at a workshop on regional planning & local water supply integration earlier in November. The workshop focused on extension/expansion of the existing South Orange County Emergency Service Program, additional options for emergency water for South OC, and the implications of integrating new local water supply sources into the regional distribution system. We will provide an update to the Board on new information after the workshop.



<b>South Orange County Projects – continued</b>	<p><b><u>South Orange County Emergency Service Program</u></b></p> <p>See Engineering &amp; Planning below.</p> <p><b><u>Other Information on South County Projects</u></b></p> <p>If any agencies would like to have updates included herein on any projects within your service area, please email the updates to Karl Seckel at <a href="mailto:kseckel@mwdoc.com">kseckel@mwdoc.com</a>.</p>
<h2 style="text-align: center;">ENGINEERING &amp; PLANNING</h2>	
<b>Doheny Ocean Desalination Project</b>	<p>In March 2018, South Coast WD (SCWD) was awarded a \$10 million grant from the State Department of Water Resources (DWR) for the Doheny Ocean Desalination Project.</p> <p>In April 2019, U.S. Representative Mike Levin announced that SCWD is set to receive more than \$8.3 million in US Bureau of Reclamation (USBR) WaterSMART Desalination Construction Program grant funding for the Project. The grant is subject to pending federal appropriations. Congressman Levin is acting as the lead office on this request in the House.</p> <p>On June 27, 2019, the SCWD Board certified the Final Environmental Impact Report (FEIR) for the Phase I Local Doheny Ocean Desalination Project, which would produce up to 5 million gallons per day (MGD) of new, drinking water supplies for the area. SCWD subsequently filed its Notice of Determination and is beginning the permitting process with various permitting agencies.</p> <p>On July 11, 2019 SCWD's Board adopted a resolution pursuing a second year (round) of the USBR WaterSMART Desalination Construction Program grant funding. SCWD is eligible to receive a cumulative total of \$20 million for the Project from USBR. Approximately two to six awards are expected to be made by USBR with up to \$12 million available in this round. The recipient must provide at least 75% of the total project costs. Reclamation has recently indicated that an initial \$8.3M is still with Congress and will be part of a Federal budget approval.</p> <p>SCWD has been working on Assembly Bill 1752 to allow SCWD to proceed with a Design-Build-Operate (DBO) Contract while maintaining access to State funding for the Project (both DWR grant money and State Revolving Fund loans). SCWD efforts have been successful and AB 1752 was signed into law on October 3, 2019.</p> <p>On October 23, 2019, the US EPA invited SCWD to submit a loan application for a Water Infrastructure Finance and Innovation Act (WIFIA) low interest loan for \$60 million for the Doheny Ocean Desalination Project.</p> <p>Next Steps:</p> <ol style="list-style-type: none"> <li>1. Project Delivery – SCWD has begun working with Hawkins Delafield and Wood, and GHD on development of several documents for a DBO contract including: Request for Statement of Qualifications (SOQ) for potential bidders, contract documents, and a RFP package.</li> <li>2. Peer Review Cost Estimate – Rich Svindland, of California American Water (CalAm), who helped develop the 6.4 MGD Monterey Ocean Desal Project using slant well technology, completed a peer review cost estimate for the</li> </ol>

<b>Doheny Ocean Desalination Project – continued</b>	<p>Doheny Ocean Desal Project. A workshop was held on October 30, 2019 to present the Peer Review by CalAm based on their experience in developing and <b>bidding</b> a project in Monterey, (that plant has not been constructed due to permitting and legal issues). The CalAm presentation and review of the previous Doheny Desal cost estimate by GHD indicated some differences in capital and operating costs including a higher level of staffing for the plant as suggested by CalAm. Overall the cost differences resulted in estimated increased costs:</p> <ul style="list-style-type: none"> <li>• Capital costs were estimated at 5.4% higher</li> <li>• O&amp;M costs were estimated at 15.8% higher</li> <li>• Overall, the unit cost of water increased from \$1556 per AF to \$1805 per AF, an increase of \$249 per AF, an overall increase of about 16.0%</li> </ul> <p>3. Slant Well Risk Evaluation – A workshop was held on the risks of slant well technology on November 14, 2019. An update to the Board will be provided next month.</p> <p>4. High Level Schedule (has slipped a bit due to the Regional Board schedule)</p> <table border="0"> <tr> <td>a. Environmental permitting</td><td>Late Summer 2020</td></tr> <tr> <td>b. DBOM Contract Develop</td><td>Early 2020</td></tr> <tr> <td>c. DBOM Contract Award</td><td>Early 2021</td></tr> <tr> <td>d. Construction</td><td>Early 2023</td></tr> </table>	a. Environmental permitting	Late Summer 2020	b. DBOM Contract Develop	Early 2020	c. DBOM Contract Award	Early 2021	d. Construction	Early 2023
a. Environmental permitting	Late Summer 2020								
b. DBOM Contract Develop	Early 2020								
c. DBOM Contract Award	Early 2021								
d. Construction	Early 2023								
<b>MET 2019-20 Shutdown Schedule</b>	<p>MWDOC staff have held several meetings with MET and MWDOC member agencies since July 2019 to review the MET 2019-2020 Shutdown Schedule. One of the proposed shutdowns involves the complete shutdown of the Diemer Water Treatment Plant in March 2020 to accommodate four construction projects at the plant. MWDOC staff have been working with potentially affected agencies and MET to see what options are available to accommodate a Diemer shutdown; given the State Water Board's intention to reduce PFOA &amp; PFOS Response Level (RL) triggers, and that action's resulting impacts to groundwater pumping in OC.</p> <p>Karl Seckel participated in a meeting with the City of Anaheim and Metropolitan regarding the Diemer Plant and other shutdowns. As a result of the meeting, the collective input to MET was that the shutdown CAN be accommodated if the new PFAS regulations have not been adopted at the time of the shutdown; if the new regulations are put into place, Orange County cannot sustain a shutdown of the Diemer Plant. MET is examining the ability to juggle various shutdowns to determine if the Diemer Shutdown can be moved into January 2020. MET will be coordinating closely with Anaheim on a shutdown to replace a turnout valve and a leaking venturi meter; this work will require a shutdown of the EOCF#2, which will also be difficult to sustain if the new PFAS regulations are in effect, but the work can probably be accommodated in a 3-day shutdown.</p> <p>Currently, the State Water Board has delayed the lowering of the Response Level triggers for PFAS, but it is unclear when the new regulations will be released. MWDOC is continuing to work with MET to provide information and discuss options as new information is available.</p>								



<b>SMWD Rubber Dams Project (San Juan Watershed Project)</b>	<p>Santa Margarita WD continues to focus on diversifying its water supply portfolio for South Orange County residents, businesses, schools, and visitors. On June 21, 2019, the San Juan Watershed Environmental Impact Report (EIR) was approved.</p> <p>The original project had three Phases; Phase 1 was three rubber dams recovering about 700 AFY; Phase 2 added up to 8 more rubber dams with the introduction of recycled water into the creek to improve replenishment of the basin for up to 6,120 AFY, and Phase 3 added more recycled water topping out at approximately 9,480 AFY. Under this arrangement, most or all of the production and treatment involved the existing San Juan Groundwater Desalter with expansions scheduled along the way to increase production over 5 mgd. Fish passage and regulatory hurdles to satisfy subsurface travel time requirements are presenting some difficulties.</p> <p>SMWD is working with the Ranch on the next phase of development within SMWD and have access to riparian groundwater from the Ranch. Furthermore, they have discovered that the local geology has high vertical percolation rates and sufficient groundwater basin travel time to potentially allow percolation of treated recycled water. SMWD is of opinion that groundwater production and treatment of the groundwater can be initiated in a relatively short time-frame while permitting for percolation augmentation using recycled water from the nearby Trampas reservoir can be added as permitting allows. They believe the new project area may be able to ultimately produce 4,000 to 5,000 AF per year; they believe the original project will continue to be developed for production out of the wells and treatment provided by San Juan Capistrano as the two agencies merge. Ultimate production out of the basin could exceed 10,000 AF per year if all goes well.</p>
<b>MWDOC Workshop with SOC Agencies</b>	<p>MWDOC held a workshop with the SOC Agencies to focus on extension/expansion of the existing South Orange County Emergency Service Program with IRWD and to discuss emergency needs and additional options for emergency water or base-loaded projects for South OC, and to discuss the implications of integrating new local water supply sources into the regional distribution system. The following projects were discussed:</p> <ul style="list-style-type: none"> <li>• Emergency Services Program Extension/Expansion with IRWD</li> <li>• Groundwater from OCWD and/or other OC Basin Producers</li> <li>• Pump-in to the EOCF#2</li> <li>• PFAS and Water Quality expectations</li> <li>• Doheny Desal</li> <li>• Poseidon Desal</li> <li>• San Juan Basin IPR</li> <li>• Irvine Lake Storage</li> <li>• Strand Ranch</li> <li>• Peters Canyon Treatment Plant</li> <li>• Oceanus/Camp Pendleton</li> <li>• Reliance on MET</li> </ul> <p>Black &amp; Veach and Hazen Sawyer provided input on the need for various water quality investigations prior to bringing new supply projects into operations. Black &amp; Veach also discussed the work they are conducting for MWDOC on development of a hydraulic model of the regional water system in Orange County as a tool to assist</p>



<b>MWDOC Workshop with SOC Agencies - continued</b>	<p>future evaluation of operational strategies. There appears to be support from the SOC agencies for such a model that could be accessed by any project proponent.</p> <p>Staff is in the process of distilling information from the meeting and will be bringing back a report to a future P&amp;O meeting.</p>
<b>South Orange County Emergency Service Program</b>	<p>MWDOC, IRWD, and Dudek have completed the initial draft study to determine if the existing IRWD South Orange County Interconnection capacity for providing emergency water to South Orange County can be expanded and/or extended beyond its current time horizon of 2030.</p> <p>Based on the South OC meeting held on April 11, 2019, a spin-off meeting was held with MWDOC, Dudek and operations staff from MNWD and South Coast WD. The purpose was to involve the operators to determine the flexibility of the SOC agencies to deal with variable flows coming from IRWD as outlined in the study. The flows from IRWD to SOC are dependent on the internal demands within IRWD and so will vary from hour to hour and day to day. The discussions indicated that the SOC agencies have considerable flexibility to deal with this situation. The operations group also had several alternatives they thought should be researched by Dudek and MWDOC. Follow-up on these options have been pursued.</p>
<b>EMERGENCY PREPAREDNESS</b>	
<b>Hazard Mitigation Planning</b>	<p>WEROC is completing follow-up with the 19 agencies who participated in the 2018 update of the Orange County Water and Wastewater Multi-Jurisdictional Hazard Mitigation Plan. Once all agencies have adopted the Plans, MWDOC needs to compile and bind all approval resolutions into an Appendix and send it to FEMA. That is the last step for this version of the Hazard Mitigation Plans that are updated every five years.</p>
<b>America's Water Infrastructure Act (AWIA)</b>	<p>Ongoing: WEROC launched an effort to facilitate a joint RFP and contract with participating WEROC member agencies to address the new requirements of America's Water Infrastructure Act (AWIA). On October 23, 2018, Congress signed into law the American Water Infrastructure Act (AWIA) (S.3021, Law 115-270). Per Section 2013 of Title II, the AWIA requires utilities to conduct a Risk and Resilience Assessment (RRA) of their community water systems and develop a corresponding Emergency Response Plan (ERP). March 31, 2020, for systems serving the population of 100,000 or more. New actions:</p> <ul style="list-style-type: none"> <li>• 25 Agencies participated in the Phase 1 Crosswalk Compliance</li> <li>• It now appears that 22 agencies will participate in the Phase 2 Risk and Resilience Assessments and Phase 3 Emergency Response Plans.</li> <li>• All Phase 1 Crosswalks have been developed and provided to agencies. Some discussion and editing is still occurring. The crosswalks remain a draft as agencies work through the Phase 2 and Phase 3 processes.</li> <li>• HSG assistant project managers began conducting the first Risk and Resiliency Assessment Workshops on October 29. The workshops are two-day events with key staff from each of the agencies to complete the asset and threat characterization. A second two-day workshop will complete the consequence</li> </ul>

<b>America's Water Infrastructure Act (AWIA) - continued</b>	<p>and vulnerability analysis. The combination of these workshops will provide the basis for a completed RRA. Work is proceeding with the first workshops for the agencies while scheduling of the second workshops are underway.</p> <p>Karl Seckel is working with the participating agencies to obtain an approved and executed Agreement between MWDOC and Participating Agencies for their participation and costs for Phase 2 &amp; 3.</p>
<b>WEROC Coordination with its member agencies</b>	<p>Daniel attended the California Emergency Services Association conference in Sonoma County. The conference had some great presentations and classes. A few key highlights include FEMA Community Resilience, Geospatial Information Awareness, Early wildfire detection, and notification, etc.</p> <p>Daniel continues to review daily intelligence reports in order to better direct WEROC efforts and inform member agencies to threat trends. WEROC obtained and coordinated an ICS-300 training (intermediate incident command training) on October 15-17<sup>th</sup> for 40 to 50 staff from among our agencies. Janine attended and graduated from this great training furthering her knowledge in FEMA emergency management operational standards. This training was specific to water and wastewater and all member agencies were invited. We are currently working with CalOES and Texas A&amp;M to schedule ICS-400 (advanced incident command) training in July of 2020. WEROC's goal is to secure this at no cost to our member agencies.</p> <p>WEROC continues to focus on retired water and wastewater employees for EOC volunteers. This pool of candidates will have more water-specific knowledge that will pay dividends during disaster recovery. A partnership with OCWA is also currently being discussed as a way to enhance the EOC volunteer roster.</p>
<b>Coordination with the County of Orange</b>	<p>Ongoing: OC OA Alert and Warning Working Group meetings have concluded following the release of the operational area agreement to the executive board. This was a 6-month planning effort. Daniel attended the meetings and worked with the County's Control One to address some of WEROC's concerns. These concerns are associated with emergency notification legal obligations.</p> <p>Completed: WEROC staff participation in the OA Agreement Revision Working Group. Update: The Draft Revised Agreement developed by the working group has been reviewed and approved by the County's Legal Counsel. The OA shared this revised draft to all OC government entities and requested input by October 31. Input was provided by WEROC and about five other agencies. The OA will develop the final agreement that will need to be approved by all agencies.</p>
<b>PSPS Events</b>	<p>On going California Public Utilities Commission (PUC) proceedings regarding the impacts from De-Energization with a Focus on First Responders and Local Government. MWDOC has received party status to the Phase 1 proceedings (covers only this winter period). Party Status ensures that we receive all communications regarding the proceedings and that our comments are included officially for consideration. The Phase 2 (Permanent Program) will be starting soon.</p> <p>Over the past month, a number of PSPS events have been planned by SCE and SDG&amp;E. Work is underway to improve communications. Our belief is that only two circuits were actually de-energized during the recent Red Flag events. WEROC</p>



<b>PSPS Events continued</b>	plugged into the available information and coordinated communications with our agencies.
<b>EOC Readiness</b>	<p>Janine Schunk and Daniel participated in the OA and MET radio tests and WebEOC tests. Janine also facilitated the WEROC monthly radio test.</p> <p>Daniel and Janine have installed all satellite phone cradles and power stations and are currently trouble shooting a radio and satellite phone connectivity issue. WEROC will be picking up the MWDOC emergency generator to install a solar battery maintainer system sometime in November.</p> <p>Janine coordinated the maintenance of the South EOC and is working to register the new MWDOC alt EOC generator. She has also been working on updates to Safety Center, the COOP, and position binders.</p> <p>WEROC has recently obtained a solar panel and charge controller and will be installing this on the new generator to keep the battery ready for emergency service at all times. Fountain Valley public works department has been helpful in providing service and routine maintenance for modest fees.</p>

## WATER USE EFFICIENCY

<b>Metropolitan Water District of Southern California (MET) Water Use Efficiency Workgroup</b>	<p>On October 17, Rachel W. attended Metropolitan's Water Use Efficiency Workgroup meeting held at Metropolitan's Regional Recycled Water Advanced Purification. Approximately 30 member agencies participated in the meeting, which included a presentation and tour of the Regional Recycled Water Advanced Purification Center. Other Agenda items included:</p> <ul style="list-style-type: none"> <li>• Metropolitan Updates <ul style="list-style-type: none"> <li>○ October Board Meeting</li> <li>○ Alliance for Water Efficiency/ California Water Efficiency Partnership Co-Funding Dues</li> <li>○ Conservation Update</li> <li>○ Energy Utility Partnerships</li> <li>○ November Board Meeting: Upcoming Items</li> </ul> </li> <li>• WaterSmart Innovations Conference Roundtable</li> <li>• Member Agency Roundtable</li> </ul> <p>The next meeting will be held on November 21, at Metropolitan.</p>
<b>Water Loss Control Workgroup</b>	<p>On November 12, Joe, Rachel D., and Jason Thorsell attended the Orange County Water Loss Control Workgroup meeting hosted at the City of Anaheim Public Works Offices. Approximately 28 agency staff attended this meeting. The agenda included:</p> <ul style="list-style-type: none"> <li>• Updates on: <ul style="list-style-type: none"> <li>○ Year Four Validation Results</li> <li>○ State Water Loss Standards</li> </ul> </li> <li>• Strategies for Assembling a Water Loss Control Team</li> <li>• Discussion and Questions</li> </ul> <p>The next meeting is scheduled for January 14 at MWDOC.</p>

<b>Aliso Creek Watershed Collaboration Group</b>	On October 16, Rachel Waite attended the Aliso Creek Watershed Collaboration Group organized by the South Orange County Watershed Management Area. Rachel W. presented on MWDOC Water Use Efficiency programs/projects that may be of interest to the Group. The meeting goal and objectives was to gain clarity on project types, implementation barriers that can be resolved, and expected results as the Group begins to move past watershed visioning toward project-specific planning and coordination.
<b>California-Nevada (CA-NV) American Water Works Association (AWWA) Water Loss Control Committee</b>	On October 21, Joe Berg participated in the CA-NV AWWA Water Loss Control Committee meeting held in San Diego in conjunction with the AWWA Annual Fall Conference. Approximately 30 members attended. The meeting focused on establishing new leadership for the Committee and an update on the impending water loss standards for California. Sue Mosburg from Sweetwater Authority stepped down from the committee chair position and was replaced by Amy Talbot from the Regional Water Authority.
<b>Distribution System Flushing</b>	The week of October 21, ValveTech Utility Services, Inc., performed distribution system flushing of the City of Westminster water system. More than seven miles of system adjacent to the 405 freeway were flushed. This flushing pilot was the result of a water quality issue and a discounted weekly rate offered by ValveTech. Westminster has indicated it will access additional flushing services later this fiscal year.
<b>California Water Efficiency Partnership (CalWEP) Research and Evaluation (R&amp;E) Committee</b>	On October 22, Rachel W. participated in the CalWEP R&E Committee meeting via conference call. Agenda items included: <ul style="list-style-type: none"> <li>• WaterSmart Innovations Conference Group Report Back</li> <li>• Alliance for Water Efficiency (AWE) Updates</li> <li>• Evaluation, Metrics, and Verification (EM&amp;V) Workgroup update</li> <li>• Framework Implementation Join Task Force Report Back</li> <li>• Research Committee Workplan Review</li> <li>• Basecamp Platform Demonstration</li> </ul> The next meeting will be held after the first of the year on a date to be determined.
<b>Sustainable Landscape Summit</b>	On October 23, MWDOC hosted the Sustainable Landscape Summit in conjunction with Metropolitan and the California Landscape Contractors Association. The event brought together 60 landscape contractors, water district staff, and landscape industry experts to discuss innovations in sustainable landscaping practices and technology. Rachel Davis provided an introduction on MWDOC's landscape-focused rebate and education programs.



<b>H2O for HOAs</b>	On October 29, Rachel D. participated in the H2O for HOAs event held at the Laguna Hills Community Center. This educational and networking event was designed for HOA board members, property managers, and professional landscape designers to interface with water and storm water agencies. Approximately 120 people attended. Rachel D. hosted a table and distributed materials promoting MWDOC's Turf Removal Rebate Program, Spray to Drip Rebate Program, and Qualified Water Efficient Landscaper Training Courses.
<b>Orange County Aerial Imagery Acquisition Meeting</b>	On October 30, Rachel W. attended a Southern California Association of Governments (SCAG) meeting, hosted at MWDOC, which focused on the acquisition of high quality aerial imagery for Orange County stakeholders. Six agencies participated in the meeting.
<b>California Landscape Contractors Association Orange County Chapter (CLCA-OC) University</b>	On November 6, Rachel D. participated in a CLCA-OC University focusing on California Native Plants. Rachel D. hosted a table and distributed materials promoting MWDOC's Turf Removal Rebate Program, Spray to Drip Rebate Program, and Qualified Water Efficient Landscaper Training Courses. Approximately 20 landscape contractors attended the event.
<b>Orange County Water Use Efficiency Coordinators Workgroup Meeting</b>	<p>On November 7, Joe, Beth Fahl, Steve Hedges, Rachel D., and Rachel W. hosted the Orange County Water Use Efficiency Coordinators Workgroup meeting at MWDOC. Approximately 20 agencies participated in the meeting. Highlights on the agenda included:</p> <ul style="list-style-type: none"> <li>• Discussion Items <ul style="list-style-type: none"> <li>○ MWDOC Updates <ul style="list-style-type: none"> <li>▪ USBR CalFed Grant</li> </ul> </li> <li>○ Agency Roundtable/Problem Solving</li> </ul> </li> <li>• Retail Agency WUE Marketing Surveys</li> <li>• Public Affairs/Marketing</li> <li>• SWRCB Notice of Proposed Rulemaking – Ongoing Monthly Reporting</li> <li>• Metropolitan Update <ul style="list-style-type: none"> <li>○ October Board Update <ul style="list-style-type: none"> <li>▪ Conservation Update</li> <li>▪ CalWEP/AWE Dues</li> </ul> </li> <li>○ November Board Update</li> </ul> </li> <li>• Water Use Efficiency Programs Update <ul style="list-style-type: none"> <li>○ Smart Timer Rebate Update</li> <li>○ Spray to Drip Rebate Update</li> <li>○ Turf Removal Program <ul style="list-style-type: none"> <li>▪ Changes to Droplet Portal</li> </ul> </li> <li>○ Landscape Design and Maintenance Assistance Programs Update</li> <li>○ Pressure Regulating Valve Pilot Program Update</li> <li>○ Recycled Water Program Update</li> <li>○ OC Water Smart Gardens Website</li> </ul> </li> </ul>



<b>Orange County Water Use Efficiency Coordinators Workgroup Meeting - continued</b>	<ul style="list-style-type: none"> <li>• CalWEP Update</li> <li>• Future Agenda Items</li> </ul> <p>The next Workgroup meeting is scheduled for December 5 at MWDOC.</p>
<h2 style="text-align: center;">PUBLIC/GOVERNMENT AFFAIRS</h2>	
<b>Member Agency Relations</b>	<p><b>Public Affairs Staff:</b></p> <ul style="list-style-type: none"> <li>• Designed and prepared award for Laguna Beach County Water District's (LBCWD) Retired General Manager Renae Hinchey</li> <li>• Hosted Public Affairs Workgroup Meeting featuring Scott Summerfield who presented on managing Crisis Communications</li> <li>• Participated in LBCWD's 10<sup>th</sup> Annual SmartScape Expo</li> <li>• Updated Water Use Efficiency Coordinators on MWDOC Public Affairs Activities at the monthly meeting</li> <li>• Participated in Pocket Park site tour and kick-off meeting with City of San Clemente</li> </ul> <p><b>Governmental Affairs Staff:</b></p> <ul style="list-style-type: none"> <li>• Sent reminders for input and feedback on MWDOC's legislative policy and regulatory principles</li> <li>• Organized and hosted a SB 998 (water shutoffs) working group meeting</li> <li>• Sent an inquiry regarding the use of flow restrictors as part of a water shutoff policy to member agencies to share with other interested agencies</li> <li>• Sent out information on an upcoming SWRCB grant workshop in Orange County</li> <li>• Sent completed SB 998 implementation "Policy on Discontinuation of Residential Water Service" translations. MWDOC, through the SAWPA translation services, had them translated into the five additional languages as required by the new law</li> </ul>
<b>Community Relations</b>	<p><b>Public Affairs Staff:</b></p> <ul style="list-style-type: none"> <li>• Promoted, coordinated, and facilitated the Girl Scouts Water Resources and Conservation Patch Program clinic at Bolsa Chica Conservancy on November 9.</li> <li>• Continue to promote and coordinate remaining Girl Scouts Water Resources and Conservation Patch Program clinics on January 11 (El Toro Water District) and April 25 (South Coast Water District)</li> <li>• Planned and developed activity for Girl Scouts of Orange County STEM Expo</li> </ul>

<b>Community Relations - continued</b>	<b>Governmental Affairs Staff:</b> <ul style="list-style-type: none"> <li>Participated in the ACC-OC Energy, Environment and Water Committee and Moulton Niguel Water District</li> </ul>
<b>Education</b>	<b>Public Affairs Staff:</b> <ul style="list-style-type: none"> <li>Participated in multiple conference calls with Metropolitan Water District of Southern California and Orange County Department of Education - includes Inside the Outdoors – (OCDE) regarding Environmental Literacy rollout for Orange County</li> <li>Participated on a conference call with OCDE regarding Biomimicry Workshop</li> <li>Participated in Water Energy Education Alliance Leadership Roundtable meeting</li> <li>Participated in California Environmental Literacy Initiative Leadership Council monthly meeting</li> <li>Provided information to Anaheim regarding the MWDOC Elementary School Program (grades K-2) at Gauer Elementary</li> <li>Coordinated MWDOC Elementary School Program (grades 3-6) observer visit to Walker Elementary with Discovery Cube Orange County and Santa Ana</li> <li>Met with MWDOC High School Program contractor, Bolsa Chica Conservancy, to review school program content and curriculum</li> <li>Worked with Bolsa Chica Conservancy to revise school water audit assignment for the MWDOC High School Program</li> <li>Coordinated approval of MWDOC Elementary School Program (grades 3-6) visit to Killeybrook Elementary with Mesa Water and Discovery Cube Orange County</li> <li>Prepared presentation guidelines and topics with Bolsa Chica Conservancy for student participants of the MWDOC High School Program</li> <li>Working to complete education program flyers for each MWDOC school program offered</li> <li>Provided information and coordinated MWDOC Elementary School Program (K-2) visit with Santa Margarita Water District and Shows That Teach to Oso Grande Elementary</li> <li>Provided MWDOC Elementary School Programs (grades K-2 and grades 3-6) information to San Clemente</li> <li>Provided Ricky Raindrop education booklets to school program contractors for distribution after MWDOC Elementary School Program assemblies</li> <li>Worked with Westminster and Bolsa Chica Conservancy to reach out to La Quinta High School for participation in the MWDOC High School Program</li> <li>Coordinated and scheduled Ricky raindrop school program visits with MWDOC Elementary School Program contractors Shows That Teach (K-2) and Discovery Cube Orange County (3-6)</li> <li>Completed Ricky Raindrop visits to R.H. Dana Elementary School (Dana Point) and Oka Elementary School (Huntington Beach)</li> </ul>



<b>Media Relations</b>	<p><b>Public Affairs Staff:</b></p> <ul style="list-style-type: none"> <li>• Had discussions with several journalists about water related news and future events</li> <li>• Published Press Release on Turf Removal Rebate Incentive</li> <li>• Prepared and distributed October 2019 MWDOC eCurrents Newsletter</li> </ul>
<b>Special Projects</b>	<p><b>Public Affairs Staff:</b></p> <ul style="list-style-type: none"> <li>• Prepared scripts, conducted interviews, and collaborated with Digital Media Consultants – Hashtag Pinpoint on production of <i>"Imagine A Day Without Water"</i> video campaign. Interviewees included:             <ul style="list-style-type: none"> <li>○ William Bordeaux, Executive Vice President, Harris Farms</li> <li>○ Gerald Lieberman, Ph.D., Director, State Education and Environment Roundtable</li> <li>○ Kathy Schaefer, Fire Chief, Cities of Brea and Fullerton</li> </ul> </li> <li>• Arranged for logo placement on new MWDOC Water Loss Control van</li> <li>• Participated in "The Great California Shakeout"</li> <li>• Began preparations for 2020 OC Water Summit reviewing themes, graphic concepts and potential sessions and speakers</li> <li>• Staffed Director Barbre's November 8-10 State Water Project Central Valley Agriculture Inspection trip</li> <li>• Coordinated Director Ackerman's October 18-19 State Water Project Inspection Trip</li> <li>• Developed itineraries, trip logistics, guest and Director requirements for the following inspection trips:             <ul style="list-style-type: none"> <li>○ November 15-17 Hoover Dam and Colorado River Aqueduct   Director McKenney</li> <li>○ December 6 Southern California Infrastructure Tour Co-Hosted with ACC-OC</li> <li>○ January 10-11 Colorado River Aqueduct Inspection Trip   Director Ackerman</li> </ul> </li> <li>• Created bill inserts for the Water Use Efficiency department for winter 2019 distribution</li> <li>• Discussed marketing of ocwatersmartgardens.com with Water Use Efficiency department</li> <li>• Began 6-week course to receive Crisis Communication Certification through Public Relations Society of America</li> <li>• Attended 2019 Public Relations Society of America International Conference</li> <li>• Attended 2019 Wyland Celebration and Gala</li> <li>• Participated in conference call and software demonstration with Monsido and LA Design Studios regarding website accessibility and compliance</li> </ul> <p><b>Governmental Affairs Staff:</b></p> <ul style="list-style-type: none"> <li>• Staffed the WACO Planning meeting</li> <li>• Staffed Director Ackerman's State Water Project trip</li> <li>• Staffed the monthly WACO meeting, "Forests to Faucets" with guest speakers Marie Davis and John Kingsbury</li> </ul>

<b>Special Projects - continued</b>	<ul style="list-style-type: none"><li>• Scheduled a "Form 700" workshop for March 2020 on behalf of ISDOC to be coordinated with CSDA</li><li>• Staffed the ISDOC Executive Committee meeting</li></ul>
<b>Legislative Affairs</b>	<p><b>Governmental Affairs Staff:</b></p> <ul style="list-style-type: none"><li>• Participated in the ACWA/CMUA working group on the Office of Environmental Health Hazard Assessment (OEHHA) Human Right to Water working group</li><li>• Attended the ACWA Regulatory Summit on PFAS in Sacramento</li><li>• Attended and participated in Metropolitan's annual legislative planning meeting</li><li>• Drafted letter, at the Board's request, to ACWA in support of the Public Safety Power Shutoffs: Emergency Generators legislative proposal to be considered by their State Legislative Committee</li><li>• Attended CSDA's annual legislative planning meeting in Sacramento</li><li>• Attended ACWA's annual legislative planning meeting in Sacramento</li><li>• Along with EMWD, IEUA and WMWD, participated in a DC luncheon planning call</li><li>• Participated in an ACWA/CMUA Drinking Water Needs Assessment working group meeting</li><li>• Monitored the PPIC event, "Preparing California for Climate Extremes"</li></ul>



## 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](http://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, November 21, 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. Proposed Urban Water Conservation Reporting Regulations (SWRCB)..... 2  
2-2. Metropolitan Stormwater (Direct Use) Pre-Application Webinar Recap..... 10  
2.3. Legislative Policy Principles ..... 12

#### 3. Information and Follow-up Items:

- 3-1. Metropolitan Upcoming Shutdowns  
3-2. AWIA Update and Contract  
3-3. BUC – AQMD Follow-up

#### 4. Report Items:

- 4-1. Monthly GM Report ..... 28  
4-2. Legislative Reports ..... 45  
4-3. WEROC Matrix ..... 63  
4-4. Grant Funding Opportunities ..... Provided at Mtg.

#### 5. Next meeting will tentatively be held December 19, 2019.

**Lunch will be provided immediately following the meeting.**



**LOCAL AGENCY FORMATION COMMISSION  
ORANGE COUNTY**

2677 North Main Street, Suite 1050  
Santa Ana, CA 92705  
(714) 640-5100 ♦ FAX (714) 640-5139

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**REGULAR MEETING AGENDA**

**Wednesday, November 13, 2019  
8:15 a.m.**

**Planning Commission Hearing Room  
Hall of Administration  
333 W. Santa Ana Blvd  
10 Civic Center Plaza, Santa Ana, CA 92701**

*Any member of the public may request to speak on any agenda item at the time that item is being considered by the Commission.*

- 1. CALL THE MEETING TO ORDER**
- 2. PLEDGE OF ALLEGIANCE – COMMISSIONER WENDY BUCKNUM**
- 3. ROLL CALL**
- 4. ANNOUNCEMENT OF SUPPLEMENTAL COMMUNICATIONS  
(Received After Agenda Distribution)**
- 5. APPROVAL OF MINUTES**

**a.) October 9, 2019 – Regular Commission Meeting**

**6. PUBLIC COMMENT**

This is an opportunity for members of the public to address the Commission on items not on the agenda, provided that the subject matter is within the jurisdiction of the Commission and that no action may be taken on an off-agenda item(s) unless authorized by law.

**7. CONSENT CALENDAR**

**a.) City of Yorba Linda Annexation of Cielo Vista Development (CA 19-03)**

The Commission will consider the proposed annexation of approximately 84 acres of uninhabited territory identified as the Cielo Vista Development to the City of Yorba Linda.

**b.) Fiscal Year 2019-20 Comprehensive Quarterly Report - First Quarter**

The Commission will receive the first quarter comprehensive report for Fiscal Year 2019-20.

## **8. PUBLIC HEARING**

### **a.) Reorganization of the 17<sup>th</sup> Street and Tustin Unincorporated Island to the City of Santa Ana and Municipal Water District of Orange County (RO 19-07)**

The Commission will consider the proposed reorganization of the 17<sup>th</sup> Street and Tustin Unincorporated Island to the City of Santa Ana and Municipal Water District of Orange County. Pursuant to the California Environmental Quality Act (CEQA), the Commission, as the responsible agency, will review the Mitigated Negative Declaration prepared by the County of Orange as the lead agency, and consider adoption of the Notice of Determination for the reorganization.

## **9. COMMISSION DISCUSSION AND ACTION**

### **a.) Fiscal Year 2018-19 OC LAFCO Annual Audit**

The Commission will receive a report on OC LAFCO's audited financial statements for Fiscal Year 2018-19 prepared by independent auditor, Davis Farr LLP.

### **b.) Second Amendment to the Office Lease Agreement with OC Main Street Owner, LLC**

The Commission will consider approval of the second amendment to the office lease agreement with OC Main Street Owner, LLC for the OC LAFCO office at 2677 N. Main Street, Suite 1050 in Santa Ana.

### **c.) OC LAFCO Amendments to Accounting and Financial Policies**

The Commission will consider proposed amendments to the agency's Accounting and Financial Policies.

### **d.) OC LAFCO 2020 Meeting Calendar**

The Commission will consider adoption of the 2020 OC LAFCO Meeting Calendar.

## **10. COMMISSIONER COMMENTS**

This is an opportunity for Commissioners to comment on issues not listed on the agenda, provided that the subject matter is within the jurisdiction of the Commission. No discussion or action may occur or be taken, except to place the item on a future agenda if approved by Commission majority.

## **11. EXECUTIVE OFFICER'S REPORT**

Executive Officer's report on upcoming events and activities of the Executive Officer since last meeting.

## **12. INFORMATIONAL ITEMS & ANNOUNCEMENTS**

### **a.) CALAFCO Board Update**

The Commission will receive an oral update on the structure of CALAFCO dues.

## **13. CLOSED SESSION**

No closed session items scheduled.

## **14. ADJOURNMENT OF REGULAR COMMISSION MEETING**

**NOTICE REGARDING ITEMS DISTRIBUTED TO THE COMMISSION LESS THAN 72 HOURS PRIOR TO THE LAFCO REGULAR MEETING:**

*Pursuant to Government Code Section 54957.5 public records that relate to open session agenda items that are distributed to a majority of the Commission less than seventy-two (72) hours prior to the meeting will be available to the public at Orange County LAFCO offices at 2677 North Main Street, Suite 1050, Santa Ana, CA 92705 during regular business hours. These records, when possible, will also be made available on the OC LAFCO website at <http://www.oclafco.org>.*

**NOTICE:** *State law requires that a participant in a LAFCO proceeding who has a financial interest in a decision and who has made a campaign contribution of more than \$250 to any commissioner in the past year must disclose the contribution. If you are affected, please notify the Commission's staff before the hearing.*

*OC LAFCO agendas and supporting documentation are available on the Internet at <http://oclafco.org>.*

# **SOUTH ORANGE COUNTY WATERSHED MANAGEMENT AREA MANAGEMENT COMMITTEE**

**AGENDA**  
**November 4, 2019**  
**1:30 PM – 3:30 PM**

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City of Laguna Hills, City Hall – Council Chambers  
24035 El Toro Road  
Laguna Hills, CA 92653

[Map](#)



**Shaun Pelletier**

City of Aliso Viejo

**Lisa Zawaski**

City of Dana Point

**Mary Vondrak**

City of Laguna Beach

**Ken Rosenfield**

City of Laguna Hills

**Hal Ghafari**

City of Laguna Niguel

**Rebecca Pennington**

City of Laguna Woods

**Devin Slaven**

City of Lake Forest

**Joe Ames**

City of Mission Viejo

**Hazel McIntosh**

City of Rancho Santa Margarita

**David Rebensdorf**

City of San Clemente

**Norris Brandt**

San Juan Basin Authority

**Joe Parco**

City of San Juan Capistrano

**Grant Sharp**

County of Orange

**Dennis Cafferty**

El Toro Water District

**Mark Tettermer**

Irvine Ranch Water District

**Rodney Woods**

Moulton Niguel Water District

**Charles Busslinger**

Municipal Water District of OC

**Dan Ferons**

Santa Margarita Water District

**Rick Shintaku**

South Coast Water District

**Betty Burnett**

South OC Wastewater Authority

**Michael Perea**

Trabuco Canyon Water District

**David Youngblood**

Laguna Beach County Water District

1. **Welcome & Introductions**
2. **Updates & Discussion: Water Quality Improvement Plan (WQIP)**  
*Grant Sharp, County of Orange*
  - a) **Comprehensive Human Waste Source Reduction Strategy (CHWSRS) Work Plan Finalization & Next Steps – Grant Sharp**
  - b) **Flow Ecology Study – Cindy Rivers, County of Orange**
  - c) **Data Resources for Project Planning – Bryan Pastor, County of Orange**
3. **Discussion: South OC WMA IRWM Hubsite & Potential Uses**  
*Jenna Voss & Andrew McGuire, County of Orange*
4. **Update: Aliso Creek Watershed Collaboration Group**  
*Jenna Voss, County of Orange*
5. **Updates: Water Resilience Portfolio & Roundtable of Regions**  
*Jenna Voss*
6. **Update: Proposition 1 IRWM Grant – Round 1 Application Process**  
*Jenna Voss*
7. **Update: IRWM Plan Component Document Updates – OC Stormwater Resource Plan & Salt and Nutrient Management Plan**  
*Jenna Voss & Committee*
8. **MC Member Roundtable**  
*Committee*
9. **Next Executive Committee Meeting: February 2020 (TBD)**  
**Next Management Committee Meeting: December 2, 2019 (If Needed)**
10. **Closing and Adjourn**



**AGENDA**  
**SOUTH ORANGE COUNTY WATERSHED MANAGEMENT AREA**  
**EXECUTIVE COMMITTEE**



**November 7, 2019**

2:30 – 4:30 p.m.

Laguna Niguel Council Chambers  
30111 Crown Valley Parkway  
Laguna Niguel, CA 92677

[Map](#)

**Debbie Neev, Chair**

Laguna Beach County Water District

**Saundra Jacobs**

Santa Margarita Water District

**Elaine Gennawey**

City of Laguna Niguel

**Paul Wyatt**

City of Dana Point

**Kay Havens**

El Toro Water District

**Mary Aileen Matheis**

Irvine Ranch Water District

**Bob Whalen**

City of Laguna Beach

**Erica Pezold**

City of Laguna Hills

**Carol Moore**

City of Laguna Woods

**Trish Kelley**

City of Mission Viejo

**Scott Voigts**

City of Lake Forest

**Tiffany Ackley, Vice Chair**

City of Aliso Viejo

**Bill Moorhead**

Moulton Niguel Water District

**Megan Yoo Schneider**

Municipal Water District of OC

**Lisa Bartlett**

County of Orange

**Brad McGirr**

City of Rancho Santa Margarita

**TBD**

City of San Clemente

**Derek Reeve**

San Juan Basin Authority

**Doug Erdman**

South Coast Water District

**Rick Erkeneff**

South OC Wastewater Authority

**Ed Mandich**

Trabuco Canyon Water District

**Jack Hunt**

City of San Juan Capistrano

*The Watershed Management Area Executive Committee welcomes you to this meeting and encourages your participation.*

*This agenda contains a brief general description of each item to be considered. Except as otherwise provided by law, no action shall be taken on any items not appearing in the following agenda. However, items may be taken up in a different sequence.*

*Any member of the public wishing to speak on non-agenda items under the jurisdiction of the Executive Committee may do so during Public Comments (Item 2) after completing a speaker request card. Those wishing to speak on agenda items may do so following the item by completing a speaker request card.*

*All persons addressing the Executive Committee are requested to limit their comments to three minutes.*

*Agenda Materials: [www.ocwatersheds.com](http://www.ocwatersheds.com)*

## **WELCOME AND PLEDGE OF ALLEGIANCE**

### **ITEM # 1 INTRODUCTIONS**

### **ITEM # 2 PUBLIC COMMENTS (NON-AGENDA ITEMS)**

### **ITEM # 3 APPROVAL OF MINUTES**

**Recommended Action:** Approve the minutes of the August 8, 2019 meeting.

### **ITEM # 4 2020 MEETING DATES**

**Recommended Action:** Approve the proposed 2020 meeting dates of February 6, May 14, August 6 and November 5.

### **ITEM # 5 PROPOSITION 1 IRWM IMPLEMENTATION GRANT PROJECT SLATE FINAL APPROVAL *JENNA VOSS, COUNTY OF ORANGE***

**Recommended Action:** Re-approve project slate for submittal of a \$2.33 million Proposition 1 Integrated Regional Water Management (IRWM) Implementation Grant Final Application Package to the California Department of Water Resources for the four projects recommended for funding consideration from the IRWM Plan.

### **ITEM # 6 DATA MANAGEMENT SYSTEM WEBSITE UPDATE *JENNA VOSS & ANDREW MCGUIRE, COUNTY OF ORANGE***

**Recommended Action:** Receive and file.

### **ITEM #7 WATER QUALITY IMPROVEMENT PLAN STUDIES & UPDATES *GRANT SHARP, COUNTY OF ORANGE***

**a) COMPREHENSIVE HUMAN WASTE SOURCE REDUCTION STRATEGY WORK PLAN  
*CINDY RIVERS, COUNTY OF ORANGE & CLINT BOSSCHEN, TETRA TECH***

**b) SOUTH ORANGE COUNTY FLOW ECOLOGY SPECIAL STUDY  
*KRIS TANIGUCHI-QUAN, SCCWRP & AARON PORESKEY, GEOSYNTEC***

**Recommended Action:** Receive and file.

### **ITEM # 8 EXECUTIVE OFFICER'S REPORT**

### **ITEM # 9 EXECUTIVE COMMITTEE MEMBER COMMENTS**

### **ITEM # 10 ADJOURNMENT – NEXT MEETING DATE: TBD**



## AGENDA STAFF REPORTS

### ITEM # 1. INTRODUCTIONS

### ITEM # 2. PUBLIC COMMENTS, NON-AGENDA TOPICS

*Any member of the public wishing to speak on non-agenda items under the jurisdiction of the Executive Committee may do so during Public Comments by submitting a completed speaker request card to the Committee staff. Those wishing to speak on agenda items may do so following the item by completing a speaker request card.*

*All persons addressing the Executive Committee are requested to limit their comments to three minutes.*

### ITEM # 3. APPROVAL OF MINUTES

#### MINUTES OF AUGUST 8, 2019 FOR APPROVAL

**Date and Location:** August 8, 2019 2:30 – 4:30 p.m.  
Laguna Niguel Council Chambers  
30111 Crown Valley Parkway  
Laguna Niguel, CA 92677

***\*\*Audio recording for the June 6, 2019 meeting is available [here](#). Recording times noted in the minutes correspond to that item on the recording. Please note that due to technical difficulties, the recording times start at Item #3\*\****

#### ITEM # 1 Roll Call/Self-Introductions

Debbie Neev, Chair, Laguna Beach County Water District  
Tiffany Ackley, Vice Chair, City of Aliso Viejo  
Megan Yoo Schneider, Municipal Water District of OC  
Bill Moorhead, Moulton Niguel Water District  
Dave Schissler, for Bob Whalen, City of Laguna Beach  
Jack Hunt, City of San Juan Capistrano  
Paul Wyatt, City of Dana Point  
Norris Brandt, for Derek Reeves, San Juan Basin Authority  
Saundra Jacobs, Santa Margarita Water District  
Elaine Gennawey, City of Laguna Niguel  
Mark Tettermmer, for Mary Aileen Matheis, Irvine Ranch Water District  
Dave Wheeler, for Erica Pezold, City of Laguna Hills  
Carol Moore, City of Laguna Woods  
Brendan Dugan, for Brad McGirr, City of Rancho Santa Margarita  
Betty Burnett, for Rick Erkeneff, South OC Wastewater Authority  
Don Chadd, for Ed Mandich, Trabuco Canyon Water District

## **ITEM # 2      Public Comments (Non-Agenda Items)**

There were no public comments on non-agenda items.

## **ITEM # 3      Approval of Minutes**

The minutes of the June 6, 2019 meeting were presented to the Executive Committee for approval.

Recommended Action: Approve the minutes of the June 6, 2019 meeting

*Motion:*                      *Approve minutes*  
*First/Second:*            *Carol Moore/Betty Burnett*  
*Abstained:*                *None*  
*Outcome:*                 *Approved unanimously*

## **ITEM # 4      Proposition 1 IRWM Implementation Grant Project Selection (Recording: 00:00:01)** ***Jenna Voss, County of Orange***

Ms. Jenna Voss, County of Orange provided an overview of the grant process. Ms. Voss summarized the projects recommended for inclusion in a grant package to the state Department of Water Resources (DWR), and the selection criteria utilized in their ranking. After a considerable process and public review, the four projects selected by stakeholders for committee approval provide a balanced portfolio, and meet the requirements of the Proposition 1 IRWM Grant Guidelines.

Ms. Saundra Jacobs, Santa Margarita Water District asked if one of the selected projects was unable to meet the requirement, would the next highest-ranking project be able to take their place. Ms. Voss informed her that could be the case, but only if it balances the portfolio, otherwise the funding would be carried over to Round 2.

Ms. Voss provided an overview of each of the projects, the amount of funding each agency requested, and the recommended allocations based on the type of project and benefits they provide.

Recommended Action: Approve recommended project slate for submittal of a \$2.33 million Proposition 1 Integrated Regional Water Management (IRWM) Implementation Grant Pre-Application Package to the California Department of Water Resources for the four projects recommended for funding consideration from the IRWM Plan.

*Motion:*                      *Approve the staff recommendation, approving submittal of a pre-application to the State Department of Water Resources requesting \$2.33 million Proposition 1 funds for the projects as outlined.*  
*First/Second:*            *Saundra Jacobs/Megan Yoo Schneider*  
*Abstained:*                *None*  
*Outcome:*                 *Approved unanimously*

## **ITEM # 5      North/Central Orange County Proposition 1 IRWM Implementation Grant Project Selection (Recording: 00:14:13)** ***Christy Suppes, County of Orange County***

Ms. Christy Suppes provided an overview of The OC Plan and how its six goals look to enhance life in North and Central Orange County. The OC Plan is not approved by DWR, but it was incorporated into the Santa Ana Watershed Project Authority (SAWPA) One Water One Watershed Plan (OWOW) recognized by DWR. Ms. Suppes explained the advantages of having a Cooperative Agreement between the County of Orange



and SAWPA, which allows for 30% of total IRWM grant funding allocated to the Santa Ana Funding Area to fund priority projects identified through the OC Plan.

Various committee members commented on the projects selected for grant funding by the North/Central IRWM and pointed out how the priorities differ between North/Central and South OC.

Recommended Action: Receive and file.

**ITEM # 6      Regional Project Planning Update: Aliso Creek Watershed (Recording: 00:34:34)**  
*Jenna Voss & Andrew McGuire, County of Orange*

Ms. Voss and Mr. Andrew McGuire provided an update on the Aliso Creek Watershed Project Collaboration Group. Following the inaugural project planning workshop in May 2019, the first meeting focused on the Aliso Creek Watershed was held July 18, 2019. Meeting attendees consisted of forty-five representatives from cities, water and wastewater agencies, transportation agencies, environmental non-profits, regulatory and resource agencies, residents and other non-governmental organizations. The planning phase will consist of three meetings, the first one helped establish the project goals, the second and third meetings will focus on strategies and quantifiable metrics. The intent of the group is to support the Executive Committee Strategic Visioning priority to foster regional collaboration and projects in the WMA. Staff will continue to update the Committee of group progress.

Recommended Action: Receive and file.

**ITEM # 7      Updates on Legislative Activities & Water Resiliency Portfolio (Recording: 00:48:23)**  
*Jenna Voss, County of Orange*

Ms. Voss provided an update on the development of the Water Resiliency Portfolio and the three agencies that oversee carrying out the Executive Order. The Natural Resources Agency, the Environmental Protection Agency, and the Department of Food and Agriculture will develop a portfolio that will guarantee safe water supplies, flood protection, and healthy waterways for the state.

Committee Members agreed that everyone needs to collaborate to put a spotlight in areas of the State that already have regulatory drivers in place. Agencies will collaborate in providing comments to reflect how DWR has recognized their efforts in developing projects that have resulted in many benefits to the community. It was agreed that a working group would provide recommendations to write a comment letter to DWR for the Water Resiliency Portfolio.

Recommended Action: Provide input on the Portfolio development process to staff for further participation in the Roundtable discussions with State representatives.

*Motion:                      Utilize the Management Committee Ad Hoc as a working group to write and submit a comment letter on behalf of the SOCWMA IRWM Group to the California Natural Resource Agency regarding the Water Resiliency Portfolio Initiative.*

*First/Second:            Betty Burnett/Megan Yoo Schneider*

*Abstained:                None*

*Outcome:                 Approved unanimously*

**ITEM # 8      Executive Officer's Report (Recording: 01:31:18)**  
*Grant Sharp, County of Orange*





Mr. Grant Sharp, County of Orange provided updates regarding the South OC Water Quality Improvement Plan, the 2018 IRWM Plan, a Data Management System (DMS)/website update, and the 4<sup>th</sup> Annual CA Water Data Summit.

**ITEM # 9 Executive Committee Member Comments (Recording: 01:51:50)**

Ms. Schneider asked the agencies to share that there is a contest in which the public can send a picture of their front yard and win an irrigation system upgrade.

**ITEM #10 Adjournment (Recording: 01:53:32)**

**Non-Committee Attendees:**

Moy Yahya	City of Aliso Viejo
Devin Slaven	City of Lake Forest
Lisa Zawaski	City of Dana Point
Jeremy Hohnbaum	City of San Juan Capistrano
Jenifer Nevius	Nevius Consulting
Joey Soto	Soto Resources
Paul Hartman	LWA
Rachel Waite	Municipal Water District of OC
Hal Ghafari	City of Laguna Niguel
William Griffin	City of Laguna Woods
Shawn Pelleffier	City of Aliso Viejo
Steve Dishon	South Coast Water District
Mary Vondrak	City of Laguna Beach
Hanna Johnson	City of Laguna Beach
Peter Chang	Pacific Marine Mammal Center
Mark Mountford	Moulton Niguel Water District
Ken Rosenfield	City of Laguna Hills
Karl Seckel	Municipal Water District of OC
Jeff Meberg	Pacific Marine Mammal Center
Dennis Cafferty	El Toro Water District
Don Bunts	Santa Margarita Water District

**County Staff:**

Grant Sharp, Jenna Voss, Christy Suppes, Andrew McGuire

**END MINUTES OF AUGUST 8, 2019 FOR APPROVAL**

**Recommended Action:** Approve the minutes of the August 8, 2019 meeting.

**ITEM # 4. 2020 MEETING DATES**

The Executive Committee meetings occur on a quarterly basis. The proposed dates for 2020 are as follows: February 6, May 14, August 6, and November 5. In order to ensure a quorum at each meeting, Executive Committee members will be asked to provide input on availability for these dates. Please note that the spring and fall Association of California Water Agencies (ACWA) conferences are scheduled for May 5-8, 2020 and December 1-4, 2020, respectively, and do not conflict with the proposed 2020 Committee dates.



**Recommended Action:** Approve the proposed 2020 meeting dates of February 6, May 14, August 6 and November 5.

## **ITEM # 5. PROPOSITION 1 IRWM IMPLEMENTATION GRANT PROJECT SLATE FINAL APPROVAL**

The SOCWMA Executive Committee has the authority to select projects prioritized through a local stakeholder-driven process for inclusion in IRWM Grant applications to the State Department of Water Resources (DWR) in accordance with the 2018 IRWM Plan and the Cooperative Agreement. Ms. Jenna Voss, County of Orange, summarized this responsibility, and presented on the slate of projects recommended for funding by the stakeholders at the August 8, 2019 meeting.

Summarizing the presentation from August 8 for reference, the application process includes three grant material submittal steps versus one combined submittal, these steps include: 1) preparation and submittal of Pre-Application Materials for each project and the project slate overall; 2) a workshop to present the proposed project information to DWR and other State agency staff to receive feedback on the application before a final application is submitted; and 3) submittal of a final, full application. The proposed project slate was approved by the Committee, and presented to DWR at a September 18, 2019 workshop. After receiving and considering feedback on the project slate by DWR, the projects approved previously by the Committee are still recommended for inclusion in the final application due to DWR in December.

### **Project Summary**

Ms. Jenna Voss presented to the Committee a summary of each of the four projects comprising the recommended project slate; these are submitted for your re-approval as the final project slate:

Project Title	Grant Amount Requested	Recommendations		
		(A) Ad Hoc	(B) Management Committee	(C) Stakeholders
MWDOC: South Orange County Irrigation Water Use Efficiency Program	\$916,927	\$833,002	\$833,002	\$833,002
Laguna Beach: Bluebird Canyon and Diversion Structure Rehab	\$500,000	\$500,000	\$500,000	\$500,000
Pacific Marine Mammal Center: Water Treatment/Recycling System	\$2,950,000	\$500,000	\$500,000	\$500,000
Santa Margarita Water District: Las Flores Enhanced Water Reliability Project	\$500,000	\$500,000	\$500,000	\$500,000

**Recommended Action:** Re-approve recommended project slate for submittal of a \$2.33 million Proposition 1 Integrated Regional Water Management (IRWM) Implementation Grant Final Application Package to the California Department of Water Resources for the four projects recommended for funding consideration from the IRWM Plan.



## ITEM # 6. DATA MANAGEMENT SYSTEM WEBSITE UPDATE

Ms. Jenna Voss and Mr. Andrew McGuire, County of Orange, will provide an update on the South Orange County Data Management System (DMS) website. As was expressed at the August 8, 2019 Committee meeting, staff are continually examining the best options for displaying data and information to both comply with DWR standards, and to provide stakeholders access to project information and data. To best serve our stakeholders, staff have compiled feedback from users of the current DMS website, and identified improvements to site functionality to remedy challenges with using the online project submittal process.

Similar to the previous format, the underlying structure of the revised website is geospatial data displayed in a user-friendly webpage. The ESRI Hub Site format has been developed to function like a traditional website, while still providing the geographic and data input services needed to manage the IRWM program. With discreet pages regarding topics such as projects, stakeholder engagement opportunities, regional planning, and documents and data, the site is easier to navigate and more streamlined than the ESRI Story Map format. The site will act as a clearinghouse of information regarding the SOCWMA IRWM Region, and will be updated as needed.

Ms. Jenna Voss and Mr. Andrew McGuire will provide a brief demonstration of the new ESRI Hub Site format and functionality. Please visit [southocirwm.org](http://southocirwm.org) to learn more and to experience the new site capabilities.

**Recommended Action:** Receive and file.

## ITEM # 7. WATER QUALITY IMPROVEMENT PLAN STUDIES & UPDATES

Grant Sharp, County of Orange, will provide an overview of the South Orange County Watershed Management Area (WMA) Water Quality Improvement Plan (WQIP) and update the Committee on implementation status on the Comprehensive Human Waste Source Reduction Strategy (CHWSRS) Work Plan and the Flow Ecology Special Study.

### **a) Comprehensive Human Waste Source Reduction Strategy Work Plan**

The South OC WMA Permittees (cities) identified pathogen health risk as a high priority water quality condition (HPWQC) in the San Diego Regional Water Quality Control Board accepted WQIP. The development of a CHWSRS Work Plan is the first step in addressing pathogen health risk. Pathogens from human waste found in recreational waters can increase the risk of gastrointestinal illness through exposure during activities such as swimming and surfing.

The Work Plan focuses on reducing human health risks by identifying and eliminating sources of human waste to the municipal storm drain system through targeted monitoring investigations and abatement actions. The tiered monitoring and assessment framework outline a step-by-step process for assessing current conditions in the WMA and prioritizing areas for investigation and abatement activities. Tier 1 focuses on assessing beach water quality conditions to determine if upstream monitoring and/or abatement is necessary. Tier 2 focuses on determining contributing drainage areas and performing upstream assessments, Tier 3 represents the source identification phase of the process, and Tier 4 addresses performance monitoring needs to verify that identified sources have been effectively eliminated.

Given the large scale of the WMA and the likely need for detailed source identification studies in many areas, a catchment prioritization approach was developed to help target monitoring/abatement efforts and focus resources. Catchments within the WMA were delineated then prioritized based on historical



monitoring data under Tier 1 and Tier 2, as well as available human source data. Catchment prioritization was conducted for dry and wet weather conditions separately, as the predominant sources, and fate and transport differ during dry or wet conditions. Higher priority areas will be the subject of more thorough source identification monitoring, beginning with downstream areas near recreational beaches. Overall the approach utilizes a source composite score, water quality conditions, and other factors that likely influence a catchment's impact on beneficial uses and human health risk. The source composite score identifies catchments with a higher number of potential sources based on available data. Water quality conditions were assessed based on the percent exceedance of reference benchmark values in receiving waters and outfalls. In select locations human marker (HF183) data were available. If these data indicated a low risk to human health, the associated catchments were deprioritized. Additionally, connectivity evaluations, based on the presence of low flow diversions and outfall observations were used to deprioritize catchments for the dry weather results.

Cindy Rivers, OC Environmental Resources and Clint Boschen, Tetra Tech Inc., will provide a thorough overview of the CHWSRS Work Plan development.

#### **b) South Orange County Flow Ecology Special Study<sup>1</sup>**

Flow regime is one of the foundations of the function-based hierarchy for stream assessment and restoration projects<sup>2</sup>. Disruption in the natural flow regime of a stream system is considered one of the key stressors associated with "urban stream syndrome."<sup>3</sup> Stream ecosystems that are subject to unnatural inputs tend to be vulnerable to changes in the quality or quantity of these inputs over time. In moderate to high-stress urban streams, perennialization of urban streams is associated with lower biological integrity.<sup>4</sup> For these reasons, the WMA Permittees (cities) identified unnatural water balance and flow regime for inland receiving waters as an HPWQC and determining environmental flow needs is a critical first step in inform the WMA Permittees on how to manage water to promote streamflow enhancement and environmental restoration, while balancing the needs of the communities of South Orange County.

To aid in the data-driven implementation of dry weather discharge control strategies for individual receiving waters and/or stream reaches within the WMA, the Permittees committed to a special study to assess the degree of hydrologic alteration within water bodies across the WMA. The primary goal of this Flow Ecology Special Study is to develop an ecologically-based environmental flow database to guide and inform stream restoration efforts for water bodies across the WMA. The information gained through this study will assist jurisdictional actions to be supportive of overall restoration and management efforts.

##### **Models Involved in the Study**

During the hydrologic assessment, two models will be created: a dry weather water balance and conceptual model and a watershed hydrologic model in Loading Simulation Program in C++ (LSPC). The objective of the former is to improve understanding of the various sources of flow in streams; the objective of the latter is to characterize watershed hydrology. During the subsequent flow ecology assessment and synthesis, a flow ecology model will be created to link changes in flow with expected biological response. The objective of the flow ecology model is to determine flow-ecology relationships for key habitats or species of management concern.

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<sup>1</sup> The Flow Ecology Study refers to the best available science – technical citations for the information included in the first paragraph of this staff report are in the footnotes below, can be made available in full upon request. For more information about the study, please visit the study [webpage](#).

<sup>2</sup> Harman et. al. (2012)

<sup>3</sup> Walsh et. al. (2005)

<sup>4</sup> Mazor et. al. (2012)



### Advisory Groups

Communication with and participation of regional stakeholders have been critical to the implementation of the special study. A Technical Advisory Group and Stakeholder Advisory Group have been formed and have assisted with further refining the study scope, objectives, and methods as well as identifying potential management strategies for analysis.

Aaron Poresky, Geosyntec Consultants, and Kris Taniguchi-Quan, Southern California Coastal Water Research Project (SCCWRP), will provide an overview of the current efforts in the special study, and summarize potential applications for the study results in watershed project planning.

**Recommended Action: Receive and file.**

## **ITEM # 8. EXECUTIVE OFFICER'S REPORT**

Ms. Amanda Carr, County of Orange, will provide an update on several ongoing projects and efforts within the South Orange County Watershed Management Area.

**Recommended Action: Receive and file.**

## **ITEM # 9. EXECUTIVE COMMITTEE MEMBER COMMENTS**

## **ITEM # 10. ADJOURNMENT**

Next meeting date: TBD







## Executive Committee Meeting

Tuesday, November 5, 2019

7:30 a.m.

Municipal Water District of Orange County, Conference Room 101

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

#### Executive Committee

President  
Hon. Sandra Jacobs  
*Santa Margarita Water District*

1<sup>st</sup> Vice President  
Hon. Mark Monin  
*El Toro Water District*

2<sup>nd</sup> Vice President  
Hon. Arlene Schafer  
*Costa Mesa Sanitary District*

3<sup>rd</sup> Vice President  
Hon. Mary Aileen Mathews  
*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 October 1, 2019 meeting.

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

#### **IV. New Business – 7:45 am**

##### **A. Consideration and action of uses for reserve funds**

- i. ISDOC/CSDA Complimentary Workshop – Form 700 (Handout)

##### **B. Consideration and action of Criteria for Scholarship (handout)**

##### **C. Dues Formula for LAFCO**

#### **V. Treasurer's Report – 7:55 am**

- October report of former and new accounts.

#### **VI. CSDA Report – 8:00 am**

- Receive, discuss and file the CSDA Report

#### **VII. LAFCO Report – 8:05 am**

- Receive, discuss and file the LAFCO report

#### **VIII. ACWA Report – 8:10 am**

- Receive, discuss and file the ACWA report.

#### **IX. OCCOG Report – 8:15 am**

- A. Receive, discuss and file OCCOG report

#### **X. Orange County Operational Area Report - 8:20 am**

- B. Receive, discuss and file OCOA report

#### **X. Subcommittee Reports – 8:25 am**

- Programs
  - Review of October 24, 2019 Quarterly Luncheon.
  - 2020 Quarterly Luncheons
- Membership
- Legislative
  - Discuss and consider taking action on proposed legislation of interest to Special Districts.

#### **XI. Adjourn – 8:35 am**

Next Executive Committee Meeting: Tuesday, December 3, 2019



## **ISDOC Executive Committee**

October 1, 2019

### **Minutes**

#### **I. Welcome**

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

Sandra Jacobs, President (SMWD)  
Mark Monin, 1<sup>st</sup> Vice President (ETWD)  
Arlene Schafer, 2<sup>nd</sup> Vice President (CMSD)  
Mary Aileen Matheis, 3<sup>rd</sup> Vice President (IRWD)  
Bill Green, Secretary (SCWD)  
Joan Finnegan, Treasurer (MWDOC)  
Jim Fisler, Past President (Mesa WD/LAFCO)

#### **Others Present:**

Gavin Centeno (OC LAFCO)  
Bill Nelson, (OCCD/CSDA)  
Greg Mills (Serrano WD)  
Jerry Vilander (Serrano WD)  
Larry Dick (MWDOC)  
Chris Palmer (CSDA)  
Al Nederhood (YLWD)  
Stacy Taylor (Mesa WD)  
Heather Baez (MWDOC)  
Christina Hernandez (MWDOC)  
Jody Brennan (SCWD)

#### **II. Minutes**

The minutes of the September 3, 2019 meeting were reviewed. Upon a motion by Joan Finnegan and second by Jim Fisler, the minutes were unanimously approved.

#### **III. Public Comments**

Al Nederhood reintroduced the LAFCO dues structure topic preferring a revenue-based formula. President Sandra Jacobs will meet with Al and then present options and alternatives to the Executive Committee. The LAFCO Dues Formula will be agendized in November as New Business.

IV. New Business

A. There was discussion on the consideration of uses for reserve funds. The current reserve balance is approximately \$12,000. 4 options were considered as follows:

- A “Dues Holiday” for a year (or more)
- ISDOC/CSDA Complimentary Workshop – Form 700
- Complimentary Quarterly Luncheon
- Scholarship to CSDA Conference

A motion was made by Jim Fisler for a dues holiday for one year; seconded by Joan Finnegan. Motion passed unanimously.

Chris Palmer will get a cost for a CSDA Form 700 workshop. The CSDA Form 700 workshop will be agendized in November as new business.

B. A motion was made by Arlene Schafer to approve the 2020 calendar as presented; seconded by Joan Finnegan. Motion passed unanimously.

V. Treasurer’s Report

Joan Finnegan reported a balance of \$12,930.27.

VI. OA Update

An update will be provided by email from Karl Seckel to obtain comments prior to the next committee meeting.

VII. CSDA Report

Arlene Schafer reported the 2019 CSDA Annual Conference was outstanding with great speakers, a large number of legislative items to address, new CSDA Board announced with Seat B filled by Kathleen Tiegs and the 50<sup>th</sup> anniversary celebration. Chris Palmer announced that Streamline will create Chapter websites at no cost. Last week was Special Districts Week.

VIII. LAFCO Report

Jim Fisler reported the next meeting will be October 9 at 8:15 at the Hall of Administration. Agenda items include a proposed Professional Consultant Service Agreement for

development of a Communication Plan, a proposed agreement to change property insurance providers, a legislative update, and an OCERS update. The Cal LAFCO conference will be held Oct. 30 – Nov. 1 in Sacramento.

IX. ACWA Report

Saundra Jacobs reported on SB1 that did not pass. Region 10 had reissued the ballots for voting on the proposed Region 10 board member slate.

X. OCCOG Report

Mike Schaefer will provide an update at the November Executive Committee meeting.

XI. Subcommittee Reports

- Programs: Mark Monin reported that Supervisor Bartlett is confirmed as the speaker for the October 24, 2019 ISDOC Quarterly Luncheons. There will also be a brief presentation by the OC Sherriff's Department on Emergency Management.
- Membership: None
- Legislative Update: All bills are on the Governor's desk with a deadline of October 13, 2019 for signature.
- Scholarship Committee – Saundra Jacobs reviewed the criteria for the scholarship which is primarily based on revenue. It will be agendized as New Business for the November Executive Committee meeting.

XII. Adjourn

The meeting adjourned at 8:37.



## AGENDA

Friday, November 1, 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](http://www.ocwd.com/news-events/events/waco)  
[www.mwdoc.com/waco](http://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*

### **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: Forests to Faucets**

- John Kingsbury, Executive Director, Mountain County Water Resources Association
- Marie Davis, Geologist and Consultant, Placer County Water Agency

### **Adjourn**

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### **Next WACO Meeting**

Friday, December 13, 7:30 a.m. @ OCWD/MWDOC Joint Boardroom  
**\*\*Second Friday of the month\*\***

### **Next WACO Planning Committee Meeting**

Tuesday, November 19, 7:30 a.m. @ MWDOC 101

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Facebook, Twitter, and YouTube!



/orangecountywater



@waco\_h2o



/orangecountywater





**WACO Planning Committee**  
**Tuesday, November 19, 2019**  
**7:30 A.M.**

### **AGENDA**

#### **ACTION ITEMS**

1. December 13: Legislative Update
  - Confirm meeting title
  - Confirm questions you'd like speaker to answer and topics you'd like addressed
    - Speaker: Eric Saperstein, ENS Resources
    - Dinner: Eric has declined our dinner invite

#### **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](http://www.mwdoc.com/waco)  
[www.ocwd.com/news-events/events/waco](http://www.ocwd.com/news-events/events/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*

#### **DISCUSSION ITEMS**

1. January 10 or February 7: Ducks Unlimited
  - Speaker: TBD
2. January 10 or February 7: Water additives/fluoride
  - Speaker: TBD
3. March 6: Resiliency Plan
  - Speaker: Nancy Vogel, Director of the Governor's Water Portfolio Program (invited and possibly available)
  - Back up topic and speaker if Nancy is not available
4. Additional topic to consider (topic originator listed if known)
  - Assign meeting date and speaker or remove from topics list
    - Affordability of water (Stacy Taylor)
    - Homeless impact on water quality
    - Human right to water (Stacy Taylor)
    - International view of water (Ahmad Zahra)
    - Mandated housing and infrastructure needs (Stacy Taylor)
    - Species in the river - Dept. of Fish & Wildlife (Peer Swan)
    - The challenges of wholesalers (Jim Atkinson)
    - The future of power – Tri Alpha Energy (Howard Hull)
    - Women in water
5. Feedback of November 1 meeting
  - Forests to Faucets - John Kingsbury and Marie Davis

#### **INFORMATIONAL ITEMS**

1. December WACO meeting held on second Friday (12/13) due to ACWA Fall conference
2. January WACO meeting held on second Friday (1/10) due to proximity to New Year's holiday

#### **ADJOURN**



Stay Connected with WACO  
on Facebook, Twitter and YouTube!

**DATES TO REMEMBER**  
**NOVEMBER/DECEMBER 2019**

1. Nov 26 – 12:00 noon – South County Agencies Meeting
2. Nov 27 – 10:00 a.m. – LF Quarterly Utility Meeting
3. Nov 28 – Thanksgiving Holiday – DISTRICT OFFICE CLOSED
4. Nov 29 – DISTRICT OFFICE CLOSED
5. Dec 2-6 – ACWA Fall Conference (San Diego)
6. Dec 2 – 8:30 a.m. – MWDOC Planning/Operations Meeting
7. Dec 2 – 1:30 p.m. – SOCWMA Management Committee Meeting
8. Dec 3 – 7:30 a.m. – ISDOC Executive Committee Meeting
9. Dec 4 – 8:30 a.m. – MWDOC/MET Directors Workshop
10. Dec 6 – DISTRICT OFFICE CLOSED
11. Dec 9 – 7:30 a.m. – Agenda Review
12. Dec 10 – 7:30 a.m. – Audit Committee Meeting
13. Dec 10 – 10:00 a.m. – RRC Meeting
14. Dec 10 – 10:30 a.m. – SOCWA Finance Committee Meeting
15. Dec 11 – 8:30 a.m. – MWDOC Admin/Finance Committee Meeting
16. Dec 11 – 11:30 a.m. – ETWD Holiday Event (Field Office)
17. Dec 12 – 8:30 a.m. – SOCWA Board Meeting
18. Dec 13 – 7:30 a.m. – WACO
19. Dec 13 – 12 noon – Chair/GM Meeting
20. Dec 16 – 8:30 a.m. – MWDOC Public Affairs Meeting
21. Dec 17 – 7:30 a.m. – Regular Engineering Committee Meeting
22. Dec 17 – 7:30 a.m. – WACO Planning Committee Meeting
23. Dec 18 – 8:30 a.m. – MWDOC Board Meeting
24. Dec 19 – 7:30 a.m. – Regular Board Meeting
25. Dec 19 – 8:00 a.m. – SAC Meeting (IRWD)

- 26. Dec 20 – DISTRICT OFFICE CLOSED
- 27. Dec 25 – Christmas Holiday – DISTRICT OFFICE CLOSED
- 28. Dec 27 – 8:00 a.m. – TV-6 (Monin)\*

\*May be canceled due to Holiday

# 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.

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**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.

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**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.

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**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.

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**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.

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**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.

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**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

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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 30<sup>th</sup> 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.