

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.



ROBERT R. HILL, 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 MEETING

January 23, 2018
7:30 a.m.

CALL MEETING TO ORDER – President Goldman

PLEDGE OF ALLEGIANCE – Director Adjarian

ORAL COMMUNICATIONS/PUBLIC COMMENTS

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

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Determine need and take action to agendize items(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.)

PRESENTATION OF AWARDS, RECOGNITIONS AND INTRODUCTIONS

a. Service Awards

No acknowledgement this month.

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

1. Mr. Hill will recognize and congratulate Vinnie Coppola, Maintenance Worker II, for achieving the Water Distribution Operator Grade D4 Certification from the State of California State Water Resources Control Board.

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

No acknowledgement this month.

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)

Approve minutes of the December 11, 2017 Special Board meeting, the December 19, 2017 Board meeting, and the minutes of the January 11, 2018 Special Board meeting.

2. **Attendance at Conferences and Meetings**

- a. There were no requests.

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

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

GENERAL MANAGER ACTION ITEMS

4. **ETWD Director Compensation** (Oral Report)

The Board will perform a review regarding whether or not to schedule a Public Hearing for the purpose of modifying the compensation of each member of the Board. General Counsel will comment on the legal procedures required to modify the compensation of each member of the Board.

Recommended Action: The Board will decide whether or not they wish to modify the compensation of Board members and if so, will (1) authorize General Counsel to prepare an appropriate Ordinance setting forth the desired increase, (2) schedule a Public Hearing for February 22, 2018 to receive and consider public comments regarding proposed adoption of said Ordinance, and (3) authorize General Counsel to publish the required legal notices concerning the proposed adoption of said Ordinance.

GENERAL MANAGER INFORMATION ITEMS

5. **General Manager's Monthly Report** (Report Included)

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

6. **State Drought Regulations – Monthly Report** (Reference Material Included)

Staff will review and comment on reporting of monthly and cumulative water production compared to actual water production in 2013.

7. **Legislative Reports** (Reference Materials Included)

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

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

9. **SOCWA Reports** (Reference Material Included)

- a. SOCWA Finance Committee Meeting – December 21, 2017
- b. SOCWA Board Meeting – December 28, 2017
- c. SOCWA Engineering Committee Meeting – January 11, 2018
- d. SOCWA Special Board Meeting – January 11, 2018

10. **Municipal Water District Of Orange County (MWDOC) Report**
(Reference Material Included)
 - a. MWDOC Planning/Operations Committee – January 2, 2018
 - b. MWDOC/MET Directors Workshop – January 3, 2018
 - c. MWDOC Administration & Finance Committee – January 10, 2018
 - d. MWDOC Public Affairs & Legislation Committee – January 15, 2018
 - e. MWDOC Board Meeting – January 17, 2018
 - f. MWDOC Managers Meeting – January 18, 2018

11. **Local Agency Formation Commission (LAFCO) Report**
 - a. Report on the January 10, 2018 LAFCO meeting

12. **South Orange County Watershed Management Area (SOCWMA) Management and/or Executive Committee Report**
 - a. Report on the January 8, 2018 meeting

13. **ISDOC Meetings** (Reference Material Included)
 - a. Report on the January 9, 2018 ISDOC Executive Committee meeting

14. **WACO Meetings** (Reference Material Included)
 - a. Report on the January 5, 2018 WACO Meeting
 - b. Report on the January 16, 2018 WACO Planning Committee meeting

15. **City Coordination Efforts**

There was no Meeting.

COMMITTEE AND GENERAL INFORMATION

16. **Dates to Remember for January/February 2018** (Reference Material Included)

17. **Carry-Over Pending Matters** (Staff will provide status reports as appropriate)

Strategic Plan Goals with specific timelines for completion:

Goal 1.1 Taking into consideration projected long-term customer demands, conservation, recycled water expansion opportunities (local and regional), Baker WTP base-loaded capacity commitment, other projects under review such as water banking opportunities and information from the Orange County Water Reliability Study, Staff will develop a long-range water resources plan to increase the diversity, reliability and sustainability of the District's water supply under normal and emergency conditions. (December 2018)

Goal 5.1 Annually self-assess Board effectiveness and take any appropriate actions. As part of this effort, determine if changes should be made to agendas, meeting times, meeting structure and content, committees, the relationship between Board members and between the Board and General Manager, and any other relevant topics. (January/February)

Goal 6.1 Update District policies for contracting and purchasing. The goal is to document defensible, transparent, justifiable contracting and purchasing practices that are practical to implement. (April 2018)

DIRECTOR COMMENTS/NON-AGENDA ITEMS

ATTORNEY REPORT - Technological Conferencing (Brown Act Requirements)

18. **Excerpts from League of Cities Open & Public V** (Reference Material Included)

CLOSED SESSION

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

1. In accordance with Government Code Section 54956.8 to consult with the District's Negotiator (Dennis Cafferty, Assistant General Manager) regarding the terms and conditions concerning the potential sale/disposition of the following property: Property and Easements within Assessor Parcel Number 613-011-01 (District's existing Pump Station site).
2. In accordance with Government Code Section 54956.96 in order to receive, discuss, and/or take action concerning information obtained by the District's representative pertaining to a closed session of the

South Orange County Wastewater Authority ("SOCWA"), a joint powers agency.

3. To consult with General Counsel – in accordance with Government Code Section 54956.9 (potential litigation-one matter).
4. In accordance with Government Code Section 54957 to review the General Manager's Employment Agreement.
5. 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.

19. 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, February 22, 2018 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 SPECIAL MEETING
OF THE
BOARD OF DIRECTORS
OF THE
EL TORO WATER DISTRICT
December 11, 2017

President Goldman called the meeting of the Board of Directors of the ELTORO WATER DISTRICT to order at 7:30 o'clock a.m. on December 11, 2017 at the El Toro Water District Administrative Offices, 24251 Los Alisos Boulevard, Lake Forest, California.

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

Directors M. SCOTT GOLDMAN, WILLIAM H. KAHN, JOSE F. VERGARA, MARK MONIN, and FRED ADJARIAN were present.

NEELY SHAHBAKHTI, Finance Manager/Controller was absent.

Also present were ROBERT R. HILL, General Manager/Assistant Secretary, DENNIS P. CAFFERTY, Assistant General Manager/District Engineer, GILBERT J. GRANITO, General Counsel, POLLY WELSCH, Recording Secretary, and JON UPHAM, Sageview Representative.

Oral Communications - Public Comments

President Goldman 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 was no public, and there were no comments.

Items Received Too Late to be Agendized

President Goldman asked if there were any items received too late to be agendaized. Mr. Hill replied no.

HighMark Capital Management (HCM) Response to the Sageview Advisory (Sageview) Report Recommendations

Mr. Hill stated that included in the package is a letter from HighMark responding to Sageview's recommendations.

Mr. Hill introduced Mr. Jon Upham, Principal at SageView to the Board. Mr. Upham stated that the current four age based portfolios were reviewed for a possible slower transition rate every 5 years instead of 10 years.

Mr. Upham stated that HighMark is willing to work on additional portfolios to lessen the stair step of age groups.

Mr. Upham stated that Prudential has a cost structure associated with the setup of these portfolios. Ms. Cimorell stated that she discussed this with Prudential and they indicated that adding portfolios would not increase Prudential's fees.

President Goldman asked how much we would break down the current four portfolios. Mr. Hill replied that instead of the current four portfolios, the proposal would result in five to six portfolios with 5-year increments. Vice President Kahn asked if it would be a smoother transition. Mr. Upham replied that it would be smoother.

President Goldman asked if there would be an under 40 portfolio, then 45, 50, 55, 60, and over 65 Mr. Hill replied that is one option to consider.

President Goldman asked if we are talking about adding a 45 and 55 age group. Mr. Hill replied yes, with the greater than 60 would be 65 and older.

Mr. Upham stated that ages 50-60 there is an increase in the equity allocation. He further stated that the equity allocation is a discussion for the Board to have.

Mr. Upham stated that in reviewing the Management Fee, it is their opinion that it is a little on the high end being between 40-45 basis points. He further stated that this equates to approximately \$80,000 a year.

Mr. Upham stated that the District should consider negotiating this down to approximately 35 basis points.

Director Monin anticipates that rates will come down, and bond returns should increase slightly. He further stated that portfolio increases will be slow during the next 5 years, so we should consider lowering fees.

Mr. Upham stated that rather than having a primary and a secondary benchmark, we should consider retaining only the more appropriate benchmark as a primary.

Mr. Upham stated that some of the Fixed Income funds have High Yield exposure that appears more than normal, but HighMark states that they are moving away from those funds.

Mr. Upham stated that he has no problem with HighMark's reasoning for continuing to use the Artisan Mid Cap Managers.

Director Adjarian asked on the Small Cap and Artisan funds, would the District be better off changing to another fund. Mr. Upham replied that the Board

has engaged HighMark to be the Investment Manager for the portfolios, and it is the Board's job to do due diligence to make sure the choices made by HighMark are prudent and questions are answered.

Director Monin asked if we have a time schedule for a response. Mr. Upham replied that the next step would be for staff to schedule a meeting with HighMark and Staff and then with the Board.

Mr. Hill stated that there are risks associated with making changes to the portfolios, and Participants would need to be educated on any changes.

Director Vergara asked how the younger staff is doing with contributions to their retirement plans. Mr. Cafferty replied that it depends on each staff members personal situation as to whether they can contribute and how much. He further stated that staff and Prudential meet with Participants annually to discuss their investment options for the 457 self-directed plan.

President Goldman asked if the employees choose their investments. Mr. Cafferty stated that the 457 Plan allows employees to choose their investments, or let the Plan choose for them. However, they have no control over the 401(k) Plan investments, which is managed by HighMark.

Mr. Cafferty stated that all of the employers match goes into the 401(k) Plan.

Mr. Hill stated that we need to negotiate with HighMark and commit to Prudential to continue being the Administrator and Record Keeper.

Director Vergara asked if there is a process should the Board choose to replace to HighMark. Mr. Hill further replied it would be through an RFP

process. Mr. Hill further replied that the previous selection of Highmark was based on an RFP process with assistance from an independent consultant. Mr. Hill indicated that it is not SageView or Staff's recommendation at this time to replace HighMark.

President Goldman asked what our expectations would be when we meet with HighMark. Mr. Upham stated that the discussion should center around whether or not to increase the number of age based portfolios, the conservative nature of the portfolios, the HighMark Management Fee, going to a single appropriate benchmark in the IPS and possible use of Index funds.

Vice President Kahn stated that he would like to see if there is a benefit to having two additional portfolios.

President Goldman asked if staff agrees with HighMark's detailed performance on the secondary benchmark. Mr. Hill replied yes.

President Goldman suggested seeing if we have earned more in the portfolios since we have been with HighMark, or would we have earned more using a passive investment philosophy while possibly paying lower fees.

Mr. Upham stated that this information is in the report he provided, and is pretty much flat with the benchmarks provided.

President Goldman asked where the investment list came from for the 457 Plan. Mr. Hill replied that Prudential provides the list of investments for the 457 Plan. Mr. Hill further stated that the investment list should be reviewed periodically to see if any changes need to be made. Mr. Upham stated that they could assist in evaluating the investment options in the portfolio.

Mr. Hill stated that staff will pursue a two-step negotiation process with HighMark first with Staff and second with the Board. Mr. Hill further stated that an Employee Meeting will be scheduled to explain any changes to the participants, and then a Special Board meeting to adopt the changes.

Director Comments/Non-agenda Items

There were no comments.

Adjournment

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

Motion: Director Adjarian moved, seconded by Director Monin and unanimously carried across the Board that today's meeting be hereby adjourned at 8:18 o'clock a.m.

Roll Call Vote

Director Monin	aye
Director Adjarian	aye
President Goldman	aye
Vice President Kahn	aye
Director Vergara	aye

Respectfully submitted,

POLLY WELSCH
Recording Secretary

APPROVED:

M. SCOTT GOLDMAN, President of
the El Toro Water District and the
Board of Directors thereof

ROBERT R. HILL, Secretary
of the El Toro Water District and
the Board of Directors thereof

MINUTES OF THE REGULAR MEETING
OF THE
BOARD OF DIRECTORS
OF THE
EL TORO WATER DISTRICT
December 19, 2017

President Goldman called the meeting of the Board of Directors of the ELTORO WATER DISTRICT to order at 7:30 o'clock a.m. on December 19, 2017 at the El Toro Water District Administrative Offices, 24251 Los Alisos Boulevard, Lake Forest, California.

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

Directors M. SCOTT GOLDMAN, JOSE F. VERGARA, FRED ADJARIAN, and MARK MONIN were present.

Director WILLIAM H. KAHN was absent.

Also present were ROBERT R. HILL, General Manager/Secretary, DENNIS P. CAFFERTY, Assistant General Manager/District Engineer, NEELY SHAHBAKHTI, Finance Manager/Controller, JUDY CIMORELL, Human Resources Manager, SHERRI SEITZ (arrived at 8:09 a.m.), GILBERT J. GRANITO, General Counsel, POLLY WELSCH, Recording Secretary, ROMAN KOCIBAN, Employee, and KATHRYN FRESHLEY, Customer.

Oral Communications - Public Comments

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

There were no comments.

Items Received Too Late To Be Agendized

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

Presentation of Awards, Recognitions and Introductions

There were no acknowledgements.

Continuing Education & Training, Degree and Certification Program

Acknowledgement

Mr. Hill recognized and congratulated on behalf of the Board Roman Kociban, Maintenance Worker III, for obtaining his Grade 4 Water Distribution Operator Certification from the State of California State Water Resources Control Board.

At approximately 7:32 o'clock a.m. Mr. Kociban left the meeting.

Consent Calendar

There being no further comments, President Goldman asked for a Motion to approve the Consent Calendar.

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

Roll Call Vote:

Director Adjarian	aye
Director Monin	aye

President Goldman aye
Director Vergara aye

Approval of Items Removed from Today's Consent Calendar

There were no items removed from today's Consent Calendar.

Director/Committee Reporting

Director Adjarian stated that he attended the ACWA conference, the SOCWA Finance Committee meetings, the SOCWA Board meetings, WACO, LAFCO, SAC, and will be presenting on TV-6 this month.

Director Vergara stated that he attended the ACWA conference, the MWDOC Planning/Operations meeting, the MWDOC/MET Directors workshop, the City of Lake Forest Business recognition meeting, WACO, WACO Planning Committee meeting, and he plans to attend the WateReuse meeting.

Director Monin stated that he attended WACO, ISDOC Executive Committee meeting, MWDOC Admin/Finance meeting, MWDOC/MET Directors workshop, and several breakout sessions at the ACWA conference.

President Goldman stated that he attended the ACWA conference, several SOCWA meetings, CASA State Legislature meeting, and he plans to attend the WateReuse meeting next week.

General Manager Action Items

Resolution No. 17-12-1 Re-establishing Date, Time, and Place of Regular Meetings of the Board of Directors for the Calendar Year 2018

Mr. Hill stated that this item was previously approved by the Board, and this item today is to accommodate the change to the January 2018 meetings which originally conflicted with the CASA conference.

President Goldman asked for a Motion.

Motion: Director Adjarian made a Motion, seconded by Director Monin, and unanimously carried across the Board to approve Resolution No. 17-12-1 which re-establishes dates, times, and places of the regular meetings of the Board of Directors for calendar year 2018.

Roll Call Vote:

Director Vergara	aye
President Goldman	aye
Director Monin	aye
Director Adjarian	aye

General Manager Information Items

Director Compensation

Mr. Hill stated that this item is a discussion whether an increase to the Board's stipend is appropriate, and if so, discuss the statutory process to adopt an Ordinance to implement same. He further stated that the ETWD Director's compensation was last increased in 2007.

Mr. Hill stated that this is a two-step process, which requires discussion today, and could include an action item on a future Board meeting agenda. He further stated that should an increase be desired, we would need to publish for two weeks in the newspaper notifying of a Public Hearing.

Mr. Hill stated that any effective date of an increase would become operative 60 days after approval. He further stated that this could be an action

item next month to determine what any increase would be, and to authorize General Counsel to prepare an Ordinance and schedule a Public Hearing.

Director Vergara stated that the Board should consider an increase and whether it is warranted at that time. Director Adjarian agreed with Director Vergara's comment. Director Monin stated that the Board does prepare and spend time for meetings that they attend.

President Goldman stated that the Board suggests scheduling this item for an action item at next month's Board meeting.

Ms. Freshley stated that while she is not saying that an increase is not warranted, the directors should consider whether any compensation for voluntary public service is appropriate.

General Manager's Monthly Report

Mr. Hill stated that the Weekly Water Quality System Status report from MET shows what's happening at the Diemer plant compared to the Colorado River Water. He further stated that the current blend is 72% State Project Water which reduces the TDS in the Recycled Water System as well.

Mr. Hill stated that there is also a chart showing the amount of water that MET is getting from the Colorado River and the State Water Project, which is slightly more than a million acre feet from the Colorado River, and approximately 1.6 million acre feet from the State Water Project.

President Goldman stated that the water charts are showing that we are below normal in all of the Reservoirs. Mr. Hill replied that is correct for this time of year.

Director Monin stated that on the Customer Service report we are providing more assistance to customers via emails. Ms. Shahbakhti replied that we are promoting more on-line bill payments and as a result the phone calls have increased. She further stated that we are also promoting email inquiries and responses.

Director Adjarian asked why the Leaks and Breaks is high. Mr. Cafferty replied that staff has not observed a significant increase in leaks or breaks in the District facilities and these calls could refer to leaks within residences.

State Drought Regulations – Monthly Report

There were no comments.

Legislative Reports

President Goldman stated that a potential Water Tax by the State is being proposed.

Mr. Hill stated that included in the Board package is a side by side comparison of the House and Senate Tax bills.

Public Education and Outreach/Water Conservation Reports

Ms. Seitz stated that there was one water waste complaint in November. She further stated that bill messaging this month is preventing sewer backups by keeping fats, oils, and grease out of the drain, and scraping leftover food and grease into the trash.

Ms. Seitz stated that construction alerts will show at the end of the LWV TV-6 commercial this week. Mr. Cafferty presented the commercial.

Ms. Seitz stated that the demo garden signs are in production, and estimated delivery is mid-January with installation in February. She further stated that staff is working with Communications Lab on invitations and speaker lists for the Demo Garden dedication. Ms. Seitz stated that dates to be considered are March 2, March 16, and March 30 at 10:00 am.

President Goldman stated that March 2 is WACO, so that date doesn't work.

Ms. Seitz stated that staff is working with Communications Lab on congratulatory letters to the newly elected city council members of Laguna Woods, Lake Forest, Laguna Hills, Mission Viejo, and Aliso Viejo.

Ms. Seitz stated that staff is working with Discovery Science Center on a letter from ETWD that invites the schools in our area to participate in the elementary school program in Spring 2018. She further stated that the Inside the Outdoors High School program will be including a component this year called "Where's my Water?" This program will include resource materials to high school teachers for use in their classroom.

Ms. Seitz also stated that Inside the Outdoors is promoting a "Voice for Water" video contest for high school students in January 2018, and will provide a tool kit for agencies to use and promote the program.

At approximately 8:18 o'clock a.m. Ms. Seitz left the meeting.

SOCWA Reports

President Goldman stated that there were several SOCWA meetings in December.

Director Adjarian stated that he attended several SOCWA Finance Committee meetings, and they discussed draft audit reports.

Mr. Cafferty stated that at the SOCWA Engineering Committee meeting they discussed engineering contract proposals for the PC-17 project.

MWDOC

Director Vergara stated that he attended the MWDOC Planning/Operations meeting where they had an update on the Doheny Desal project. He further stated that they also discussed Water Use Efficiency projects, and Conservation.

Director Monin stated that at the MWDOC/MET Directors workshop they discussed MET's Water Use Efficiency & Integrated Resources targets. He further stated that they discussed unfunded liability, and the bond act initiative at the MWDOC Admin/Finance Committee meeting.

Mr. Hill stated that at the MWDOC Admin/Finance Committee meeting there were two action items; one was options for funding CALPERS unfunded liability, and one was the Bond Act Initiative. Director Monin stated that the measure will appear on the 2018 ballot and invests nearly \$9 billion in infrastructure investments.

LAFCO

Director Adjarian stated that at the LAFCO meeting they discussed infrastructure assessment, and the day before the LAFCO meeting, there were three City Council members recalled.

SOCWMA

There were no meetings in December.

ISDOC Meetings

Director Monin stated that they discussed future topics and speakers.

WACO Meetings

Director Vergara stated that Jennifer West spoke about what is happening at WaterReuse. He further stated that the next speaker will discuss Hepatitis A and the homeless issue.

City Coordination Efforts

There were no comments.

Committee and General Information

There were no comments.

Schedule of Appearances LWV TV-6 for Calendar Year 2018

There were no comments.

Dates to Remember

There were no comments.

Carry-Over Pending Matters

There were no carry-over pending matters.

Director Comments/Non-Agenda Items

Director Vergara clarified that the meetings will return to Tuesday and Thursday's.

Director Adjarian stated that he attended the SAC meeting on December 14th and Jim Reed has resigned, and Don Chadd is now President, with Mary

Eileen Matheis replacing Jim Reed. He further stated that they discussed selling 2 cfs capacity in the pipeline, and IRWD is providing a tax analysis.

At approximately 8:40 o'clock a.m. the Board took a short recess.

At approximately 8:45 o'clock a.m. the Board returned to Regular Session.

Attorney Report

Mr. Granito reported that there is a need for a Closed Session at today's meeting regarding items #3 & #4 of today's Closed Session agenda.

Closed Session

At approximately 8:50 o'clock a.m. President Goldman called for a Closed Session regarding items #3 & #4. Also at this time, Mr. Hill, Mr. Cafferty, Ms. Shahbakhti, Ms. Welsch, Ms. Cimorell, and Ms. Freshley left the meeting.

At approximately 9:10 o'clock a.m. Mr. Hill was asked to return to the meeting.

Open Session

At approximately 9:20 o'clock a.m. the Board returned to Open Session. Also at this time Ms. Welsch returned to the meeting.

Report on Closed Session

Mr. Granito reported that the Board did go into Closed Session to resume discussion with regard to items #3 and #4 of today's Closed Session agenda. This subject matter will continue at a future Board meeting. No further reportable action was taken.

Following the report on Closed Session by Mr. Granito, President Goldman stated that item #21 of today's agenda will be continued to a future meeting.

Adjournment

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

Motion: Director Adjarian moved, seconded by Director Monin and unanimously carried that today's meeting be hereby adjourned at 9:22 o'clock a.m. to Tuesday, January 23, 2018 at 7:30 o'clock a.m. at the District's Administrative Offices, 24251 Los Alisos Blvd., Lake Forest, California.

Roll Call Vote:

Director Monin	aye
Director Vergara	aye
Director Adjarian	aye
President Goldman	aye

Respectfully submitted,

POLLY WELSCH
Recording Secretary

APPROVED:

M. SCOTT GOLDMAN, President of
the El Toro Water District and the
Board of Directors thereof

ROBERT R. HILL, Secretary
of the El Toro Water District and
the Board of Directors thereof

MINUTES OF THE SPECIAL MEETING
OF THE
BOARD OF DIRECTORS
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EL TORO WATER DISTRICT
January 11, 2018

President Goldman called the meeting of the Board of Directors of the ELTORO WATER DISTRICT to order at 7:30 o'clock a.m. on January 11, 2018 at the El Toro Water District Administrative Offices, 24251 Los Alisos Boulevard, Lake Forest, California.

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

Directors M. SCOTT GOLDMAN, WILLIAM H. KAHN, JOSE F. VERGARA, MARK MONIN, and FRED ADJARIAN were present.

Also present were ROBERT R. HILL, General Manager/Secretary, DENNIS P. CAFFERTY, Assistant General Manager/District Engineer, GILBERT J. GRANITO, General Counsel, MARTIN RAUCH (Rauch Communication Consultant, Inc.) and KATHRYN FRESHLEY, Customer.

Oral Communications - Public Comments

President Goldman 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.

Action Items

ETWD 2017 Strategic Plan

Mr. Rauch facilitated a detailed review and discussion of the final draft ETWD 2017 Strategic Plan (Plan) which incorporated the Board of Directors final policy-level direction to complete the Plan inclusive of Monitoring, Reporting and Implementation Plan.

President Goldman raised several questions about the intent of certain Objectives and Goals. Mr. Rauch clarified the intent/purpose of the Objectives and Goals in question. Vice President Kahn inquired about whether a detailed work plan would be incorporated. Mr. Hill indicated with regards to the detailed work plan, the Board is approving the specific completion date for certain goals and delegating the granular work plan activities to the General Manager.

President Goldman requested that Goal 1.1 (Develop a long-range water resources plan to increase the diversity, reliability and sustainability of the District's water supplies) and Goal 6.1 (Update District policies for contracting and purchasing) be added to the regular Board of Director's monthly Board agenda under Carry Over matters to facilitate status of same as appropriate.

Director Vergara shared his relative strategic planning experience and integrated resource planning as a staff member of the Metropolitan Water District

The Board Directors concurred that an annual meeting to conduct an open forum amongst Board Members would be of value tentatively in January/February year.

President Goldman asked for a Motion.

Motion: Director Adjarian made a Motion, seconded by Director Monin and unanimously carried across the Board, to revise and add to the final draft Plan, approve the ETWD 2017 Strategic Plan, and authorize staff to implement same.

Roll Call Vote:

Director Vergara	aye
Vice President Kahn	aye
President Goldman	aye
Director Monin	aye
Director Adjarian	aye

Resolution No. 18-1-1 Commemorating the Retirement and Service of Marilyn Thoms from the County of Orange, Watershed Management Division

Mr. Hill commented on Resolution No. 18-1-1 which commemorates Ms. Thoms for her faithful service and sound resource stewardship to the County of Orange and in particular to South Orange County. Mr. Hill further stated that the resolution would be presented to Ms. Thoms by Director Monin at the January 17, 2018 City of Laguna Woods Council Meeting.

President Goldman asked for a Motion.

Motion: Director Monin made a Motion, seconded by Director Adjarian, and unanimously carried across the Board, to adopt Resolution No. 18-1-1 commemorating the retirement and service of Marilyn Thoms from the County of Orange, Watershed Management Division.

Roll Call Vote:

Director Vergara	aye
Vice President Kahn	aye
President Goldman	aye

Director Monin	aye
Director Adjarian	aye

Director Comments/Non-agenda Items

Director Vergara took this opportunity to comment on the devastating mudslides in Montecito County and the impact on its water supply and infrastructure.

Attorney Report

Mr. Granito reported that a Closed Session is not needed at today's meeting, so regular session continued.

Adjournment

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

Motion: Director Adjarian moved, seconded by Director Monin and unanimously carried across the Board that today's meeting be hereby adjourned at 9:00 o'clock a.m.

President Goldman called for a Roll Call vote.

Roll Call Vote

Director Monin	aye
Director Adjarian	aye
President Goldman	aye
Vice President Kahn	aye
Director Vergara	aye

Respectfully submitted,

ROBERT R. HILL, Secretary
Of the El Toro Water District and
The Board of Directors thereof

APPROVED:

M. SCOTT GOLDMAN, President of
the El Toro Water District and the
Board of Directors thereof

ROBERT R. HILL, Secretary
of the El Toro Water District and
the Board of Directors thereof

GENERAL MANAGER'S REPORT

January 2018

I. OFFICE OF THE GENERAL MANAGER

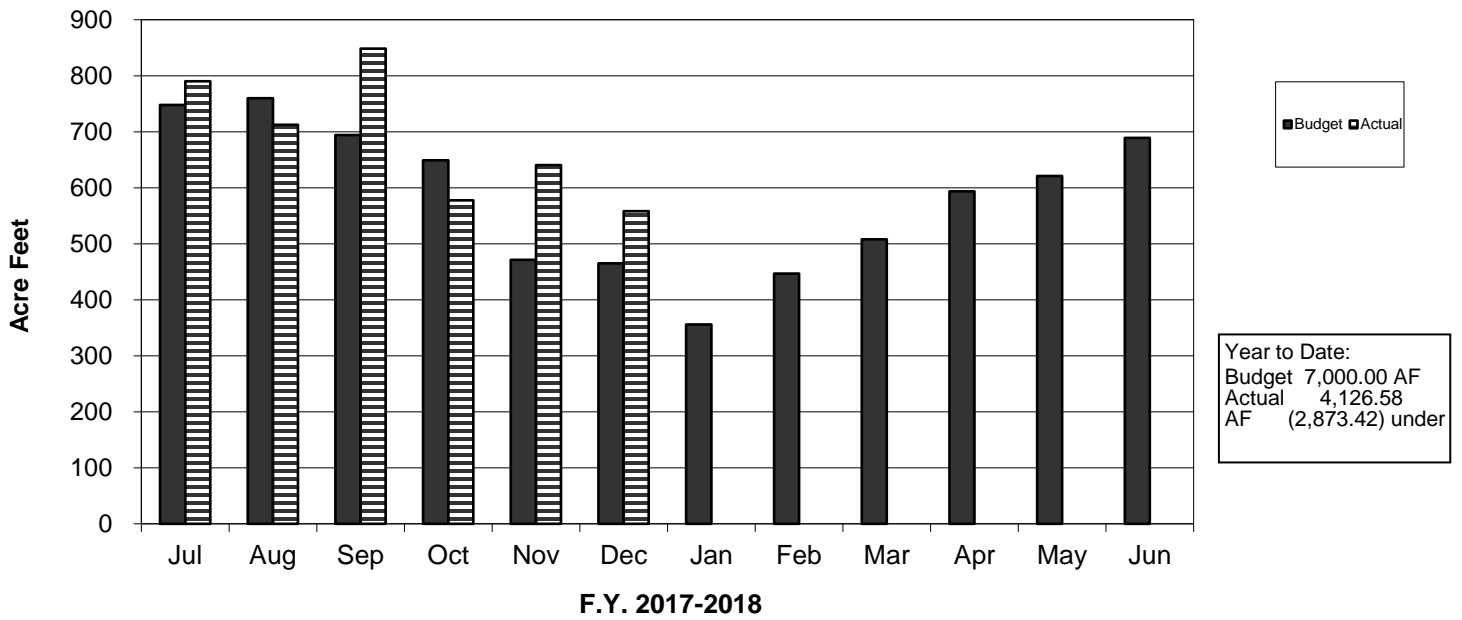
- Attended Chair/GM Meetings
- Attended Special Board Meeting Regarding Strategic Planning
- Attended Agenda Review Meeting
- Attended RRC Meeting
- Attended Conference Call with Jon Upham of Sageview

II. DOMESTIC AND RECLAIMED WATER SALES

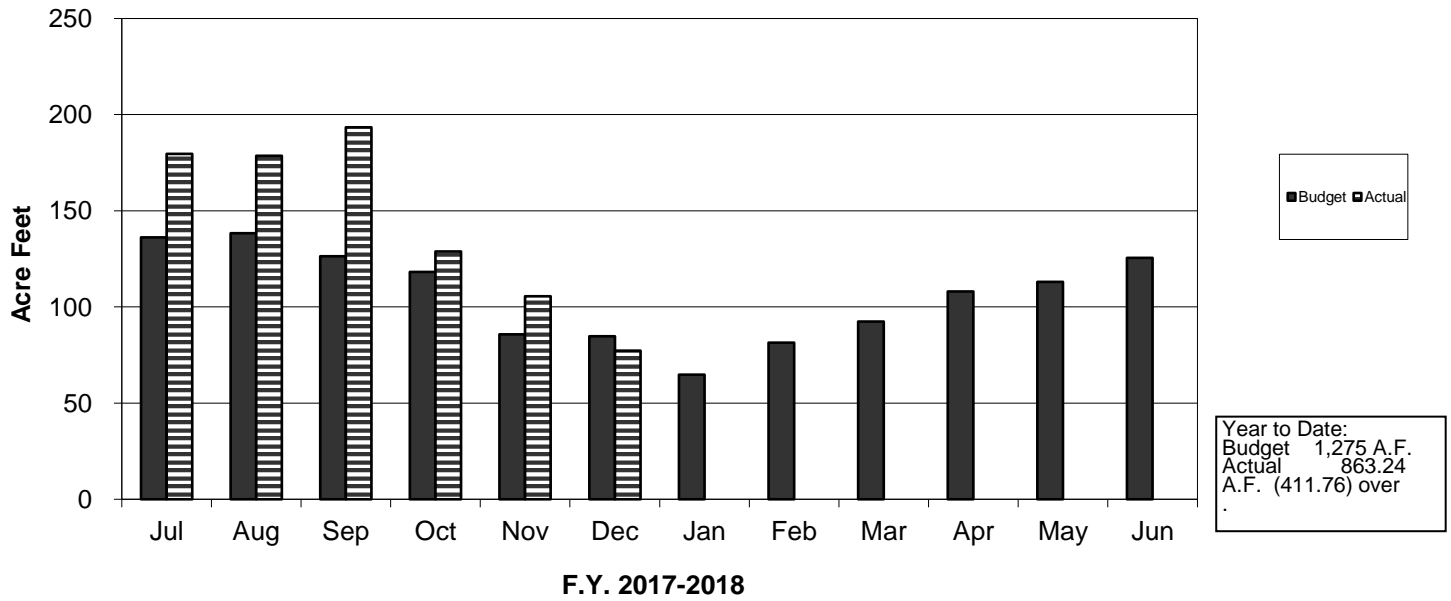
Actual domestic sales for the year-to-date as of December 31, 2017 are 3,568.45 acre-feet. This compares to year-to-date budgeted domestic sales of 3,321.32 acre-feet. The year-to-date variation in actual to budgeted sales reflects an increase of 247.13 acre-feet. Actual sales are 222.66 acre-feet higher than last year-to-date actual sales for the same period.

Recycled water sales for the year-to-date are 786.02 acre-feet, compared to 604.95 acre-feet budgeted for the same period.

DOMESTIC WATER SALES



RECLAIMED WATER SALES



Customer Service Activity Report

December-17

Regular Service Calls	DEC 2017	DEC 2016	Telephone Calls	DEC 2017	DEC 2016
Serviceman Dispatched to Read, Connect/Disconnect Service	54	59	Change of Service: (CR / DR within and/or outside of ETWD service area)	195	220
Field Investigations:			Billing / Payment & Graph Inquires	356	398
Check for leaks-calls to CS			Assistance with online payments and ETWD's portal (cc, echecks)	131	174
Office:(irrigation,meter,street leaks)			Variance / Waiver Inquiries	92	102
Customer Responsible	21	19	Variance / Waiver Requests Processed	16	36
District Responsible	6	9	Ordinance Infraction / Water Waste Complaints	0	2
None found/other	18	8			
High Reads Checked - High Consumption (Billing Dept.)	34	18	Other Districts	111	134
Cust Leaks: 15 No Leaks: 19			Phone Transfers to other Departments within ETWD	141	126
Check Stopped Slowed Meters-Low Consumption (Billing)	9	32	Calls for the Board of Directors	3	2
Re-Check Read	3	5	Recycled Water	4	0
Ordinance Infraction	0	2	Water Quality Taste - Odor - Color	2	0
Recycled Water	0	0	Leaks / Breaks	58	92
Water Quality: Taste / Odor / Color	2	0	Flooding (Hydrant) Meter calls	4	3
Phone response: 0 Field response: 2			Sewer Problems (odor / spill)	4	5
Flooding (Hydrant) Meters issued	0	1	Backflow / Cross Connection (questions or yearly testing forms)	5	4
Sewer - Odor/Stoppage/ Manhole Covers	4	8	ETWD facilities inquiries:		
Meter Box: Lids / Covers Replaced	13	46	Boxes/Covers/Lids/Hydrants/Pump Stations/Graffiti/ "Gen. Maint"	4	1
Meter Box Clean, Digout	10	10	Tyco (ADT) Calls (Alarms to ETWD facilities)	0	0
Raised Meter Box	4	1	ATT Calls (access to tower sites)	3	0
Trim Bushes / Meter Obstruction	12	1	SCE Calls (access to tower sites)	1	0
General Maintenance Response	1	2	Pager Calls specifically for Pump Stations - SCADA	4	0
Fire Hydrants: Hit / Leaks / Caps	3	6	Payment Extensions	93	163
Pressure(psi) Checks / Reads	1	6	Delinquent Payment Calls to Customer 's (automatic dialer)	0	0
CSSOV (Angle Meter/Ball Valve/Gate Valve/Globe Valve) chk,repair,replaced	11	4	Return Calls from customers left on our voice mail system.	29	64
Bees Removed	2	0	Email Correspondence	108	139
Backflow / Cross Connection	1	0	Maintenance Service Order Requests (bees, psi, fogged-dirty registers)	6	17
Fogged Registers	3	0	**Misc.. (other: employment, deliveries, sales calls)	26	0
OMCOP: Old Meter Change - Out Program	17	5			
Other: (uncommon non-maintenance calls)	9	3			
On-Call After Hrs. CS Response	27	28			
# 48/24 Hr. Door Hangers Hung	191	207			
# Locked Off For Non-Pay (Disconnect)	2	12			
Removed Meter	3	*			
New Meter	2	*			
Unread Meters	16	*			
Total Field Investigations	479	492	Total Telephone Calls	1396	1682

Uncollectible Accounts:

			Credit Card Payments	DEC 2017	DEC 2016
Budget YTD	\$10,000.00	\$0	REGULAR	574 \$64,581.63	486 \$48,579.36
Actual YTD	\$ 8,407.00	\$12,500	DISCONNECTS		

* = New Code

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

MONTH ENDING: December 2017

ODOR COMPLAINTS	NUMBER	LOCATION, ORIGIN, ACTION:		
Outside Laguna Woods Village				
Outside Laguna Woods Village				
Laguna Woods Village				
New World				
Private System	2	Chalked around Manhole was loose put on manhole replacement list. Cust. Reported odor ,cust informed to call plumber there side.		
Other: WRP				
TOTAL	2			
ROOT FOAMING	FOOTAGE	CHEMICAL USED	CHEMICAL COST	COMMENTS:
Outside Laguna Woods Village	15,486			DUKES
Laguna Woods Village	4,185			DUKES
New World				
Other				
TOTAL	19,671			
ROOT CUTTING	FOOTAGE	COMMENTS:		
Outside Laguna Woods Village	2,434			
Laguna Woods Village	9,035.00			
New World				
TOTAL	11,469			
HYDRO-CLEANING	FOOTAGE	COMMENTS:		
Outside Laguna Woods Village				
Laguna Woods Village				
New World				
Private System				
Hot Spots	13,878			
ETWD TOTALS:	13,878			
SANTA MARGARITA TOTALS:				
COMBINED TOTALS:	13,878			
TV INSPECTIONS	FOOTAGE	COMMENTS:		
Outside Laguna Woods Village				
Laguna Woods Village	5,976			
New World				
Private System				
Other				
TOTAL	5,976			
Wet Wells	Number	3	MATHIS-LAPAZ-VEEH	
Flow Meter/Sampling	Number			
WATER TANK FILLS	26	26,000		

**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.

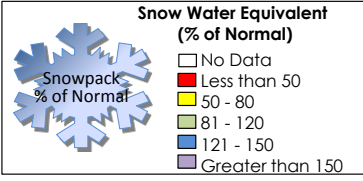
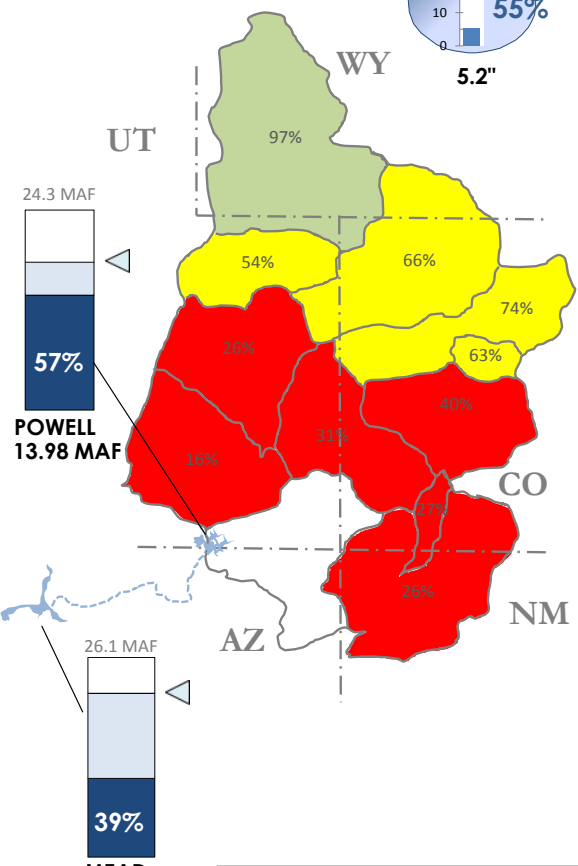
EL TORO WATER DISTRICT MONTHLY POTABLE WATER QUALITY ANALYSIS					
MONTH:		December		YEAR : 2017	
CONSTITUENT ANALYSIS	MCL	INSIDE LAB		OUTSIDE LAB	
		NO.	RESULTS	NO.	RESULTS
1 Microbiological	Pres/Absence	153(A)	Pres/Absence	0	Average
2 Chlorine (ppm)	Detectable Resid	225	Average = 1.37 ppm	0	
3 TTHM (ppb) (Stage 2)	0.080 ppb		N/A	0	29.5 ppb
3 HAA5 (ppb) (Stage 2)	0.060 ppb		N/A	0	13.9 ppb
4 Physical Quality:			RANGE		
Turbidity (ppm)	5 NTU	20	0.00 to 0.17	0	
Odor	3 Units	20	ND<1	0	
Color	15 Units	20	ND<5	0	
Temperature	No standard	20	61.1°F To 74°F	0	
5 Nitrite (Alert/Action level)ppm	0.015 to 0.030 ppm	84	0.001 to 0.012 Res.	0	

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

Abbreviations:

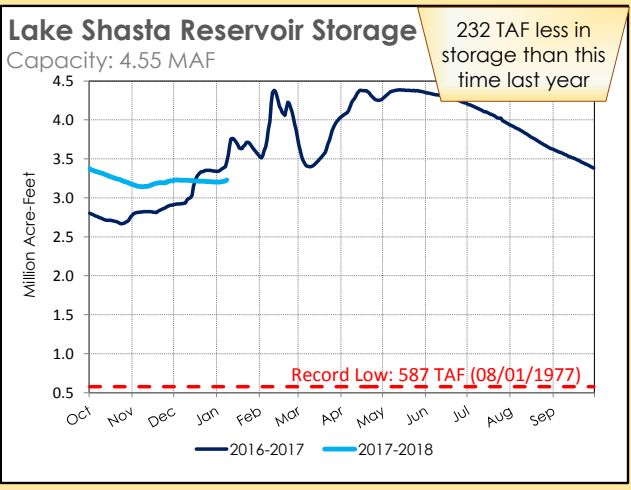
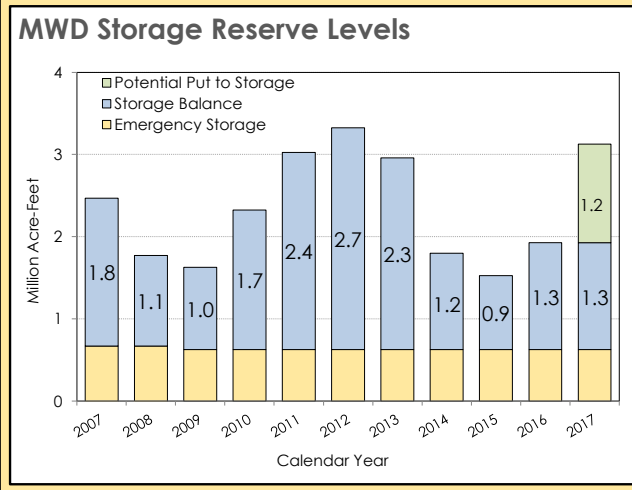
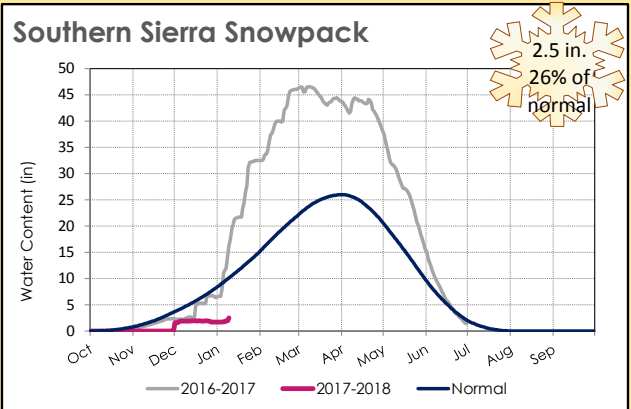
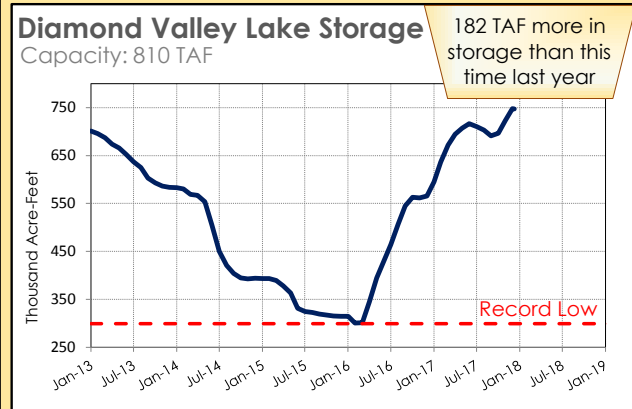
RES	Indicates that the nitrification was isolated to a reservoir and treated
ND	None detected
Pres/Absence	Presence (P) or Absence (A) related to a positive or negative bacteriological result
MCL	Maximum Contaminant Level
NTU	Nephelometric Turbidity Units, a measure of the suspended material in the water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

2017 Colorado River
Upper Colorado River Basin
56%
1,026,350 AF
82% of full CRA
Does not include storage withdrawals



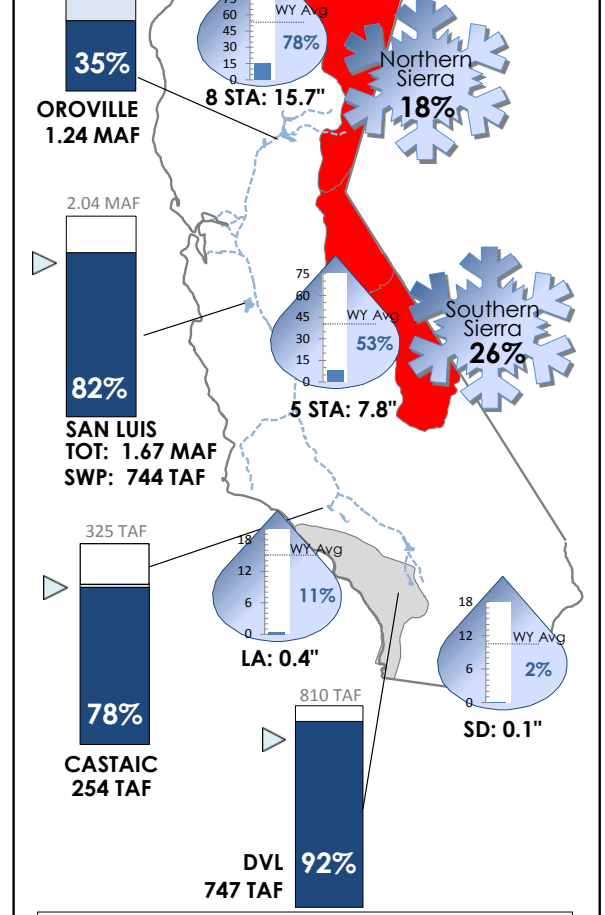
Highlights

- ◆ Snowpack in the Upper Colorado River Basin is at 56% of normal
- ◆ Snowpack in the Sierra is at 26% of normal.
- ◆ Sacramento River Runoff forecast is 89% of normal.



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

2018 SWP Allocation
286,725 AF
15% of Table A
Statewide **26%**



WY Avg
% Normal
WY to Date
Rainfall to Date (in)

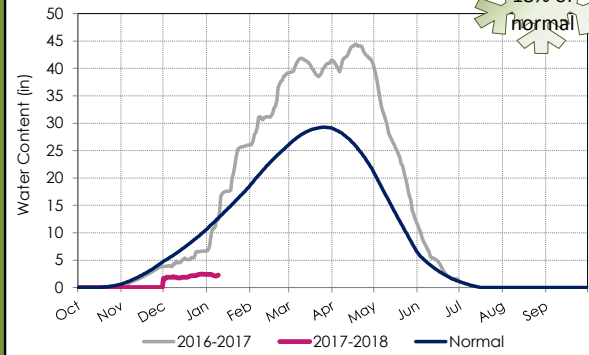
Capacity
Average EOM
Current Storage (% Capacity)

Flip Over for CRA Data Turn page for more SWP Data

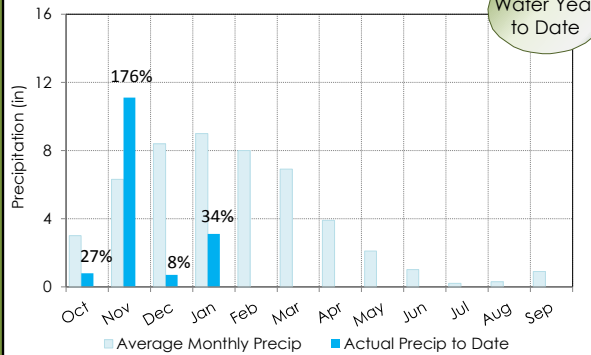
As of: 01/08/2018

State Water Project Resources

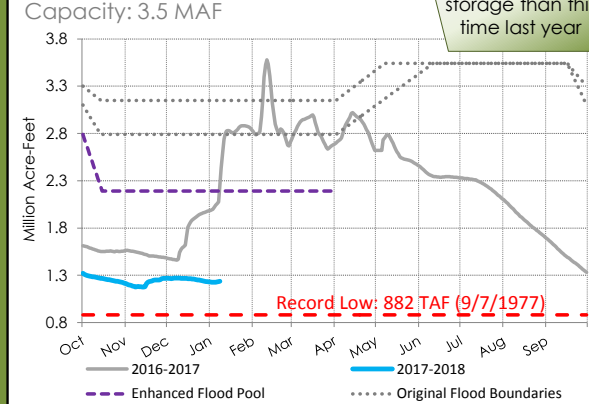
Northern Sierra Snowpack



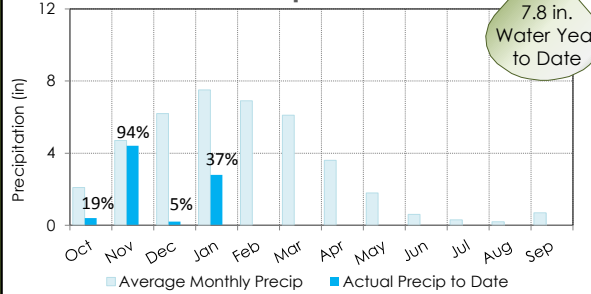
8 Station Index Precip



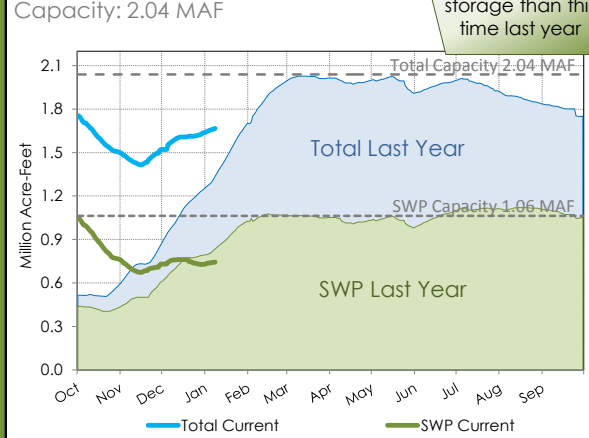
Oroville Reservoir Storage



5 Station Index Precip



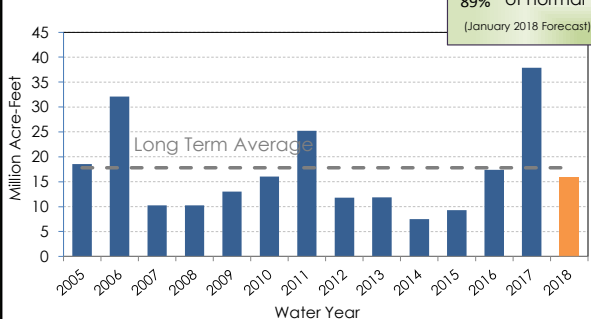
San Luis Reservoir Storage



Other SWP Contract Supplies for 2017 (AF)

Transfer/Exchanges	19,000
Article 21	124,000
Pool A/B (Purchased)	0
Carryover Supplies	210,000

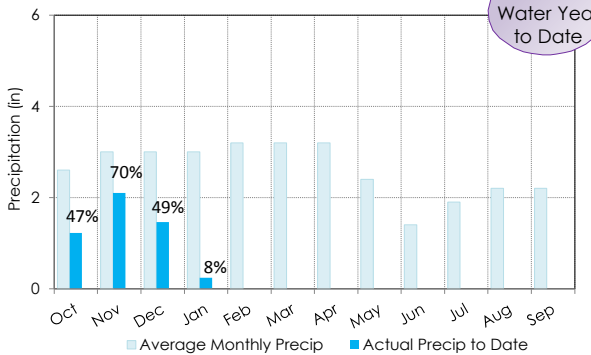
Sacramento River Runoff



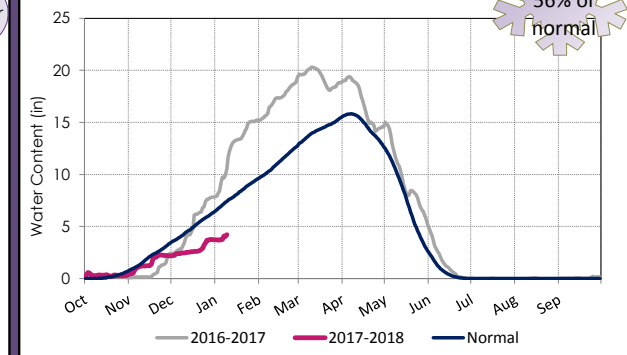
Colorado River Resources

As of: 01/08/2018

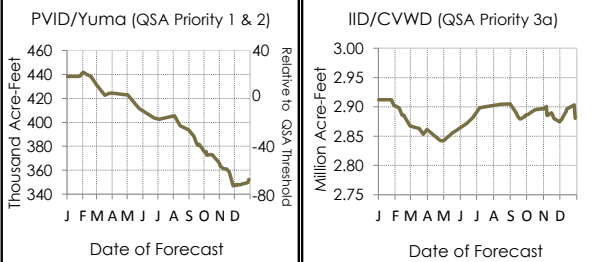
Upper Colorado Basin Precip



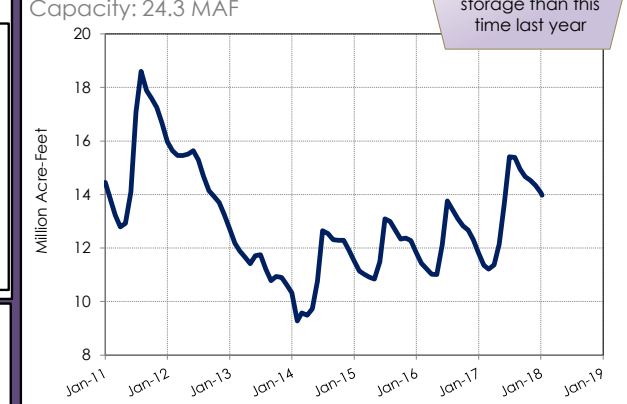
Upper Colorado Basin Snowpack



2017 Colorado River Ag Use



Lake Powell Storage

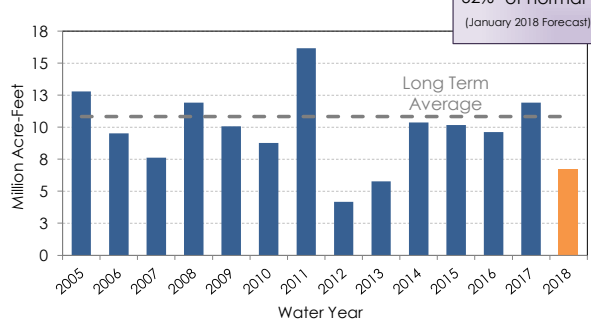


Lake Mead Shortage/Surplus Outlook

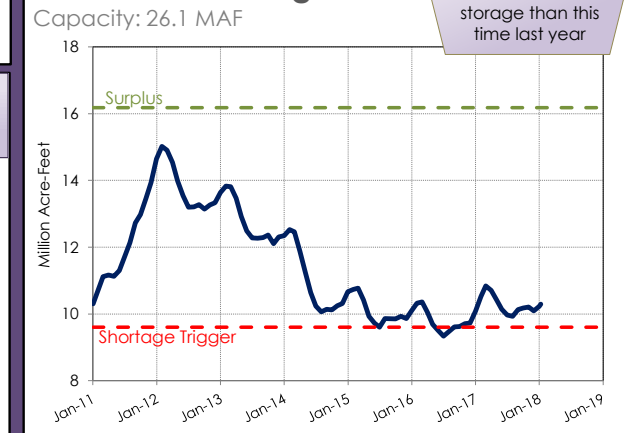
	2018	2019	2020	2021	2022
Shortage	0%	15%	42%	45%	52%
Surplus	0%	0%	7%	12%	17%

Likelihood based on results from the August 2017 USBR CRSS model run.

Powell Unregulated Inflow



Lake Mead Storage



Weekly Water Quality System Status

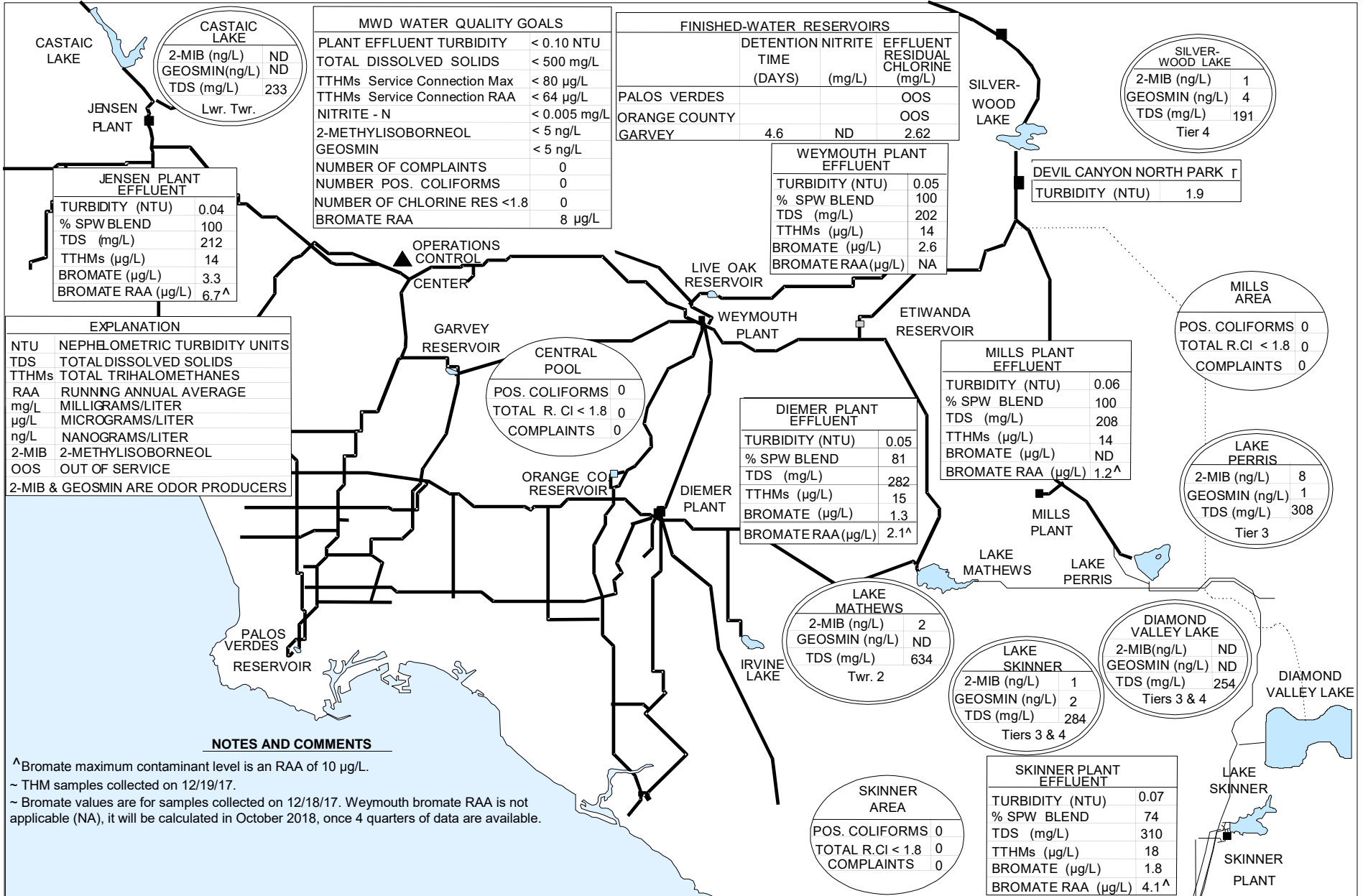
Wednesday, January 10, 2018

Printed On: 1/10/2018 3:21:30 PM



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>

MICROBIOLOGICAL MONITORING

DECEMBER 2017

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

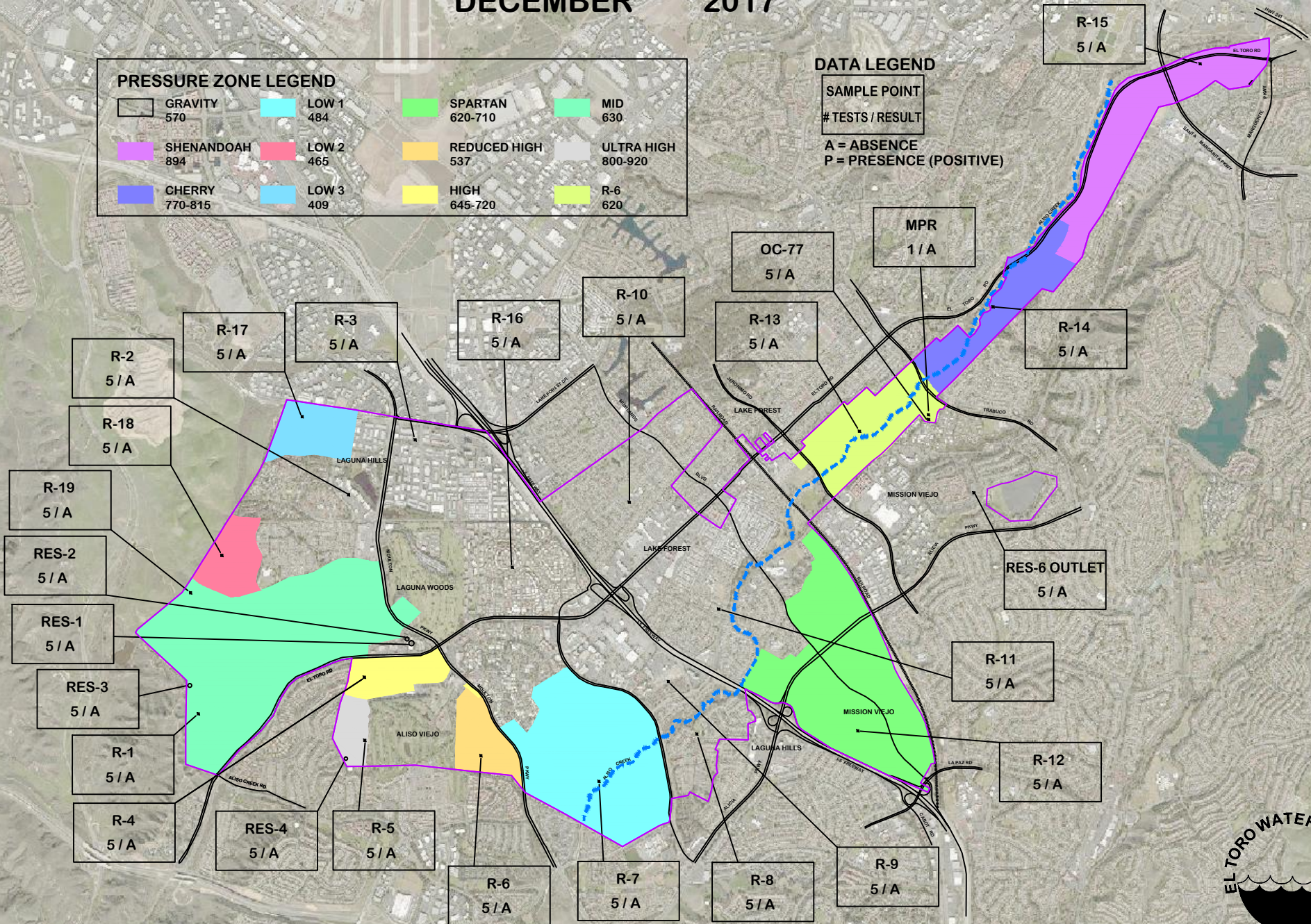
DATA LEGEND

SAMPLE POINT

TESTS / RESULT

A = ABSENCE

P = PRESENCE (POSITIVE)

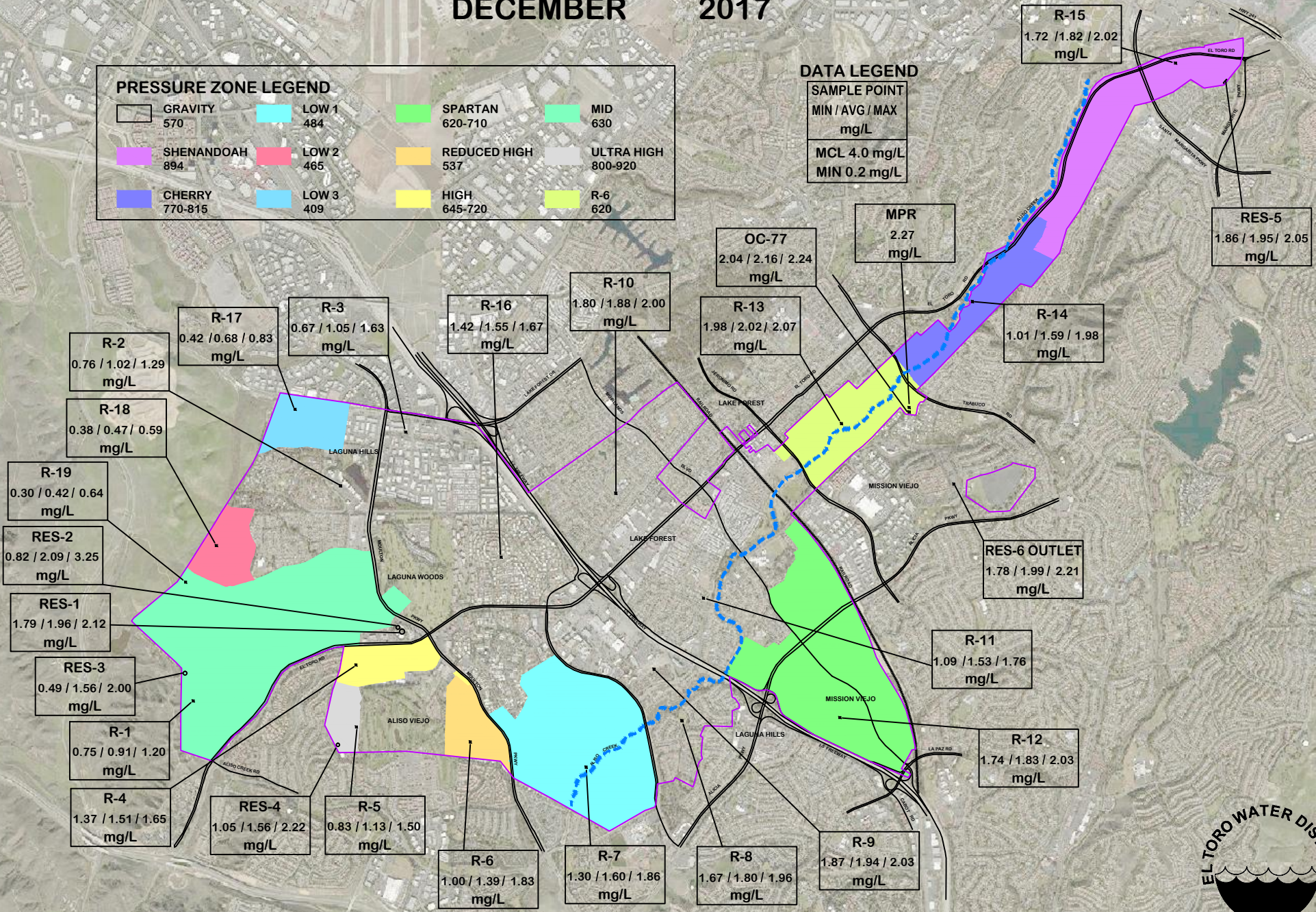


CHLORINE RESIDUAL MONITORING

DECEMBER 2017

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



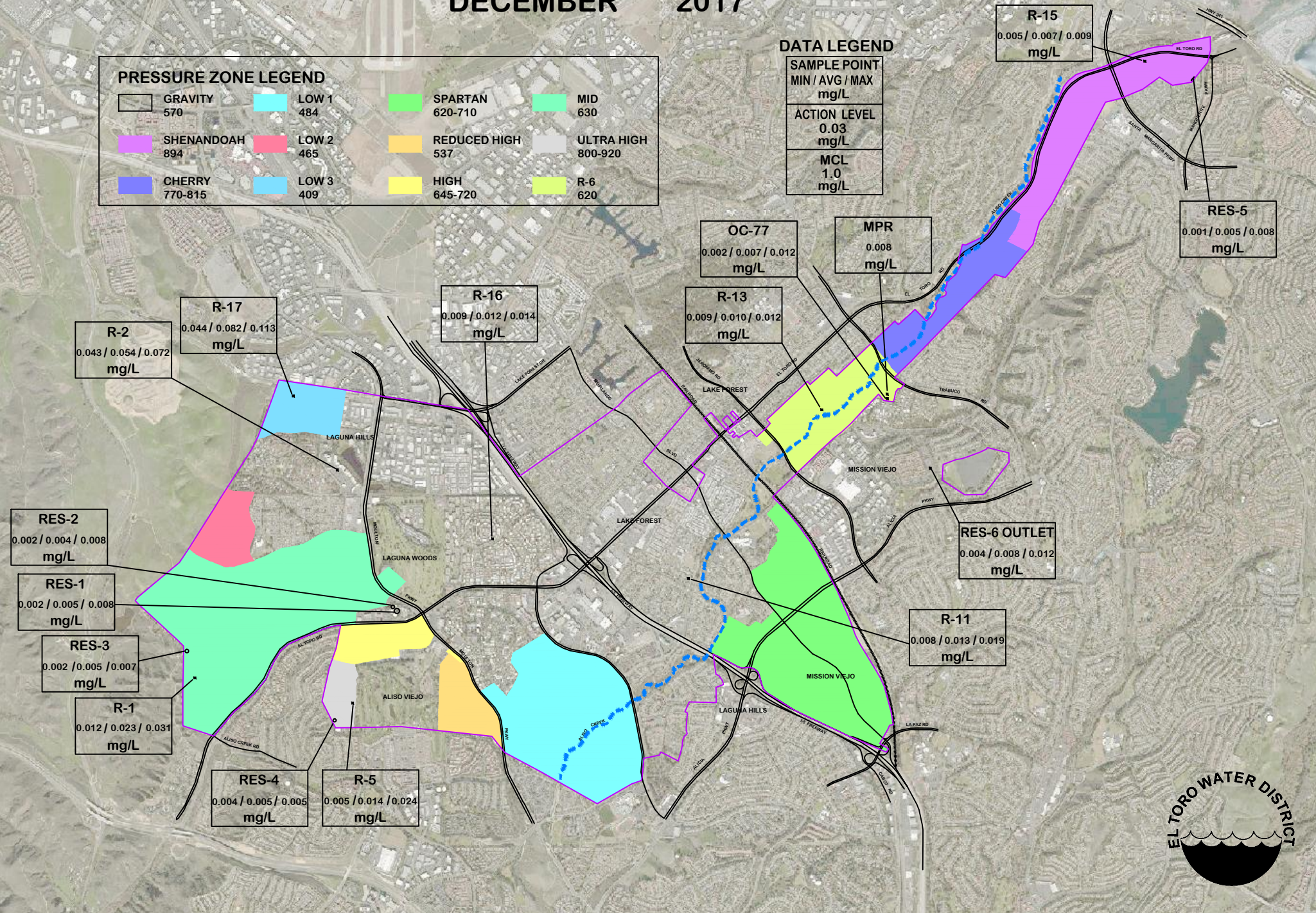
NITRITE MONITORING

DECEMBER 2017

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

DATA LEGEND

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



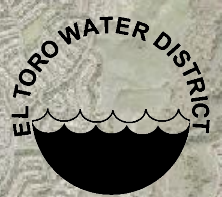
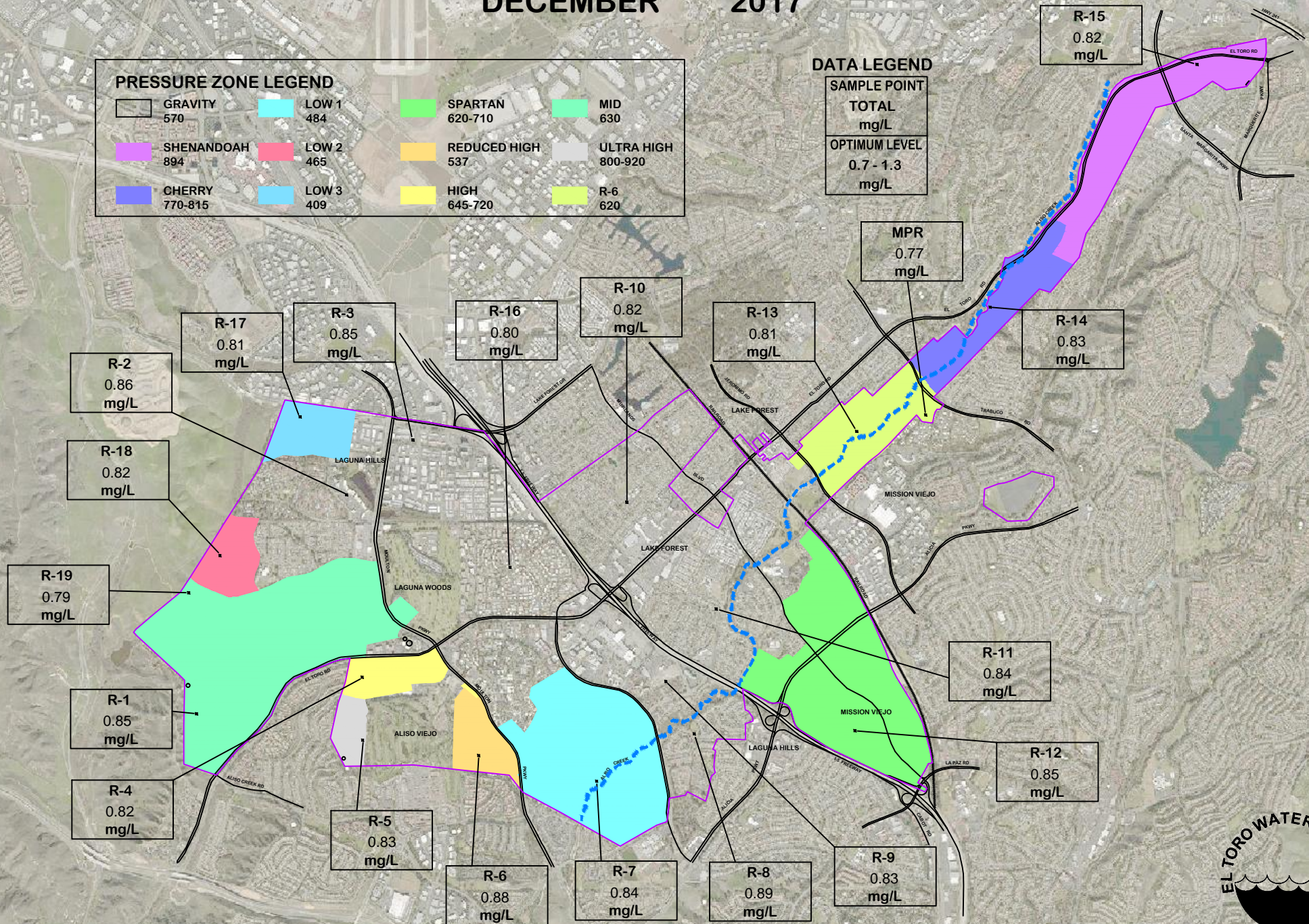
FLUORIDE MONITORING

DECEMBER 2017

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

DATA LEGEND

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





Memorandum

DATE: January 8, 2018
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 Tier 2 volume for MWD OC, and selected water supply information.

- Fig. 1 OC Water Usage, Monthly by Supply MWD imported water was the main supply in November, imported usage has increased due to the In Lieu program.
- Fig. 2 OC Water Usage, Monthly, Comparison to Previous Years Water usage in November 2017 was slightly above average compared to the last 5 years with the months of November 2015 and November 2016 showing lower usage. We are seeing a slight increase in overall water usage compared to the previous Fiscal Year. In June 2016, all water conservation became voluntary for MWD OC agencies and the Great California Drought was declared over by the Governor in April 2017.
- Fig. 3 Historical OC Water Consumption OC water consumption is projected to be 544,000 AF in FY 2017-18 (*this includes ~15 TAF of agricultural usage and non-retail water agency usage*). This is about 25,000 AF more than FY 2016-17 and is about 53,000 AF more than FY 2015-16 (During the SWRCB mandatory water restrictions). Water usage per person is projected to be slightly higher than in FY 2017-18 for Orange County at 152 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.

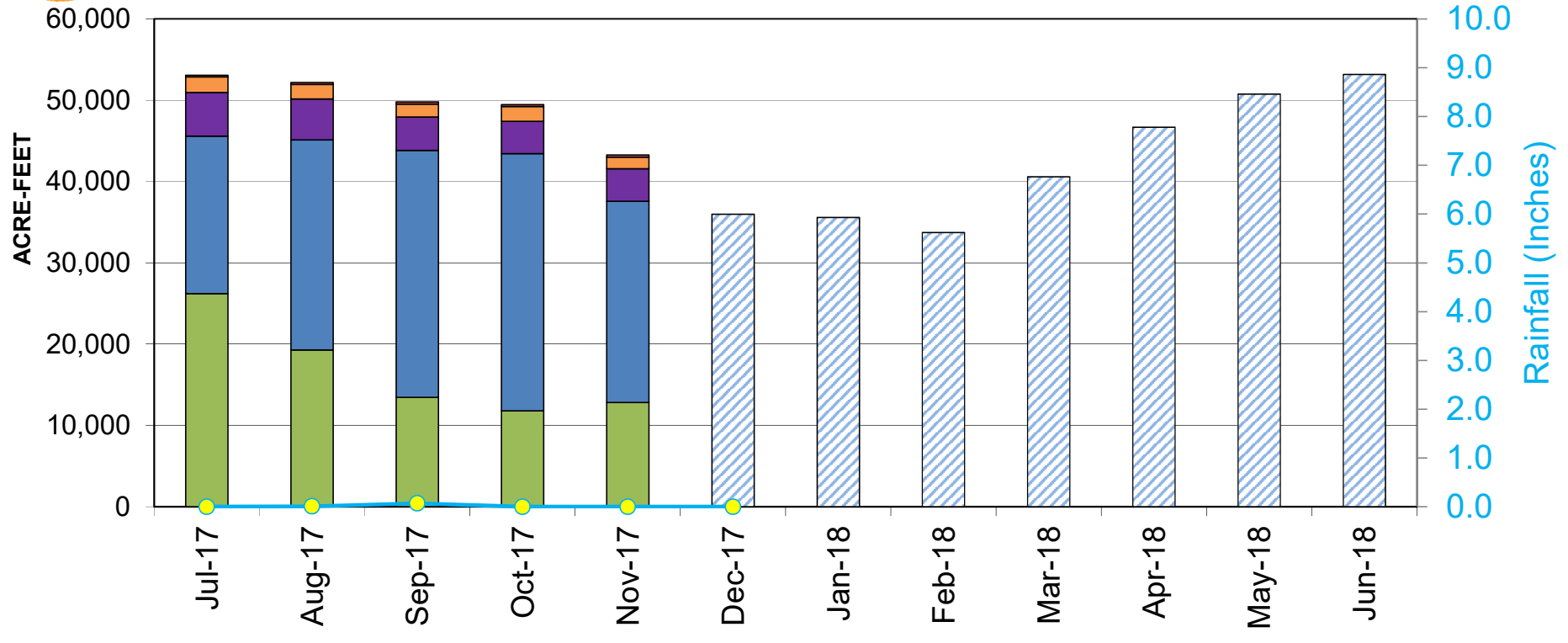
MWD OC “Firm” Water Purchases, 2016 “Firm” water above the Tier 1 limit will be charged at the higher Tier 2 rate. Tier 2 purchases are zero in 2017.

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

- Orange County's accumulated rainfall through Early December was well below average for this period. Orange County saw rainfall 8 inches above normal in WY 2017.
- Northern California accumulated precipitation through Early January was around 68% of normal for this period. Water Year 2017 was the wettest water year on record. The Northern California snowpack was 21% of normal as of January 3rd. The State of California was in a declared Drought Emergency that started January 2014 and just recently ended in April of 2017. As of early January, only 12.7% of California is experiencing moderate drought conditions while 44% of the state is experiencing abnormally dry conditions. The State Water Project Contractors initial Table A Allocation was set at 15% as of the end of November.
- Colorado River Basin accumulated precipitation through early December was 56% average for this period. The Upper Colorado Basin snowpack was 57% of normal as of January 2nd. The Colorado River Basin saw above average conditions in WY 2017 but the region has been still trying to rebound from the previous long term drought. Lake Mead and Lake Powell combined have about 68% of their average storage volume for this time of year. 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 December, Lake Mead levels were 5.9' above the "trigger" limit. The USBR predicts that the end of 2017 or the end of 2018 will not hit the "trigger" level.



Fig. 1A 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, "Barrier Replenishment" deliveries, 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 '16-17 is 75%.
- [3] MWDOC's estimate of monthly demand is based on the projected FY 15-16 "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. 1B O.C. Historical Water Usage

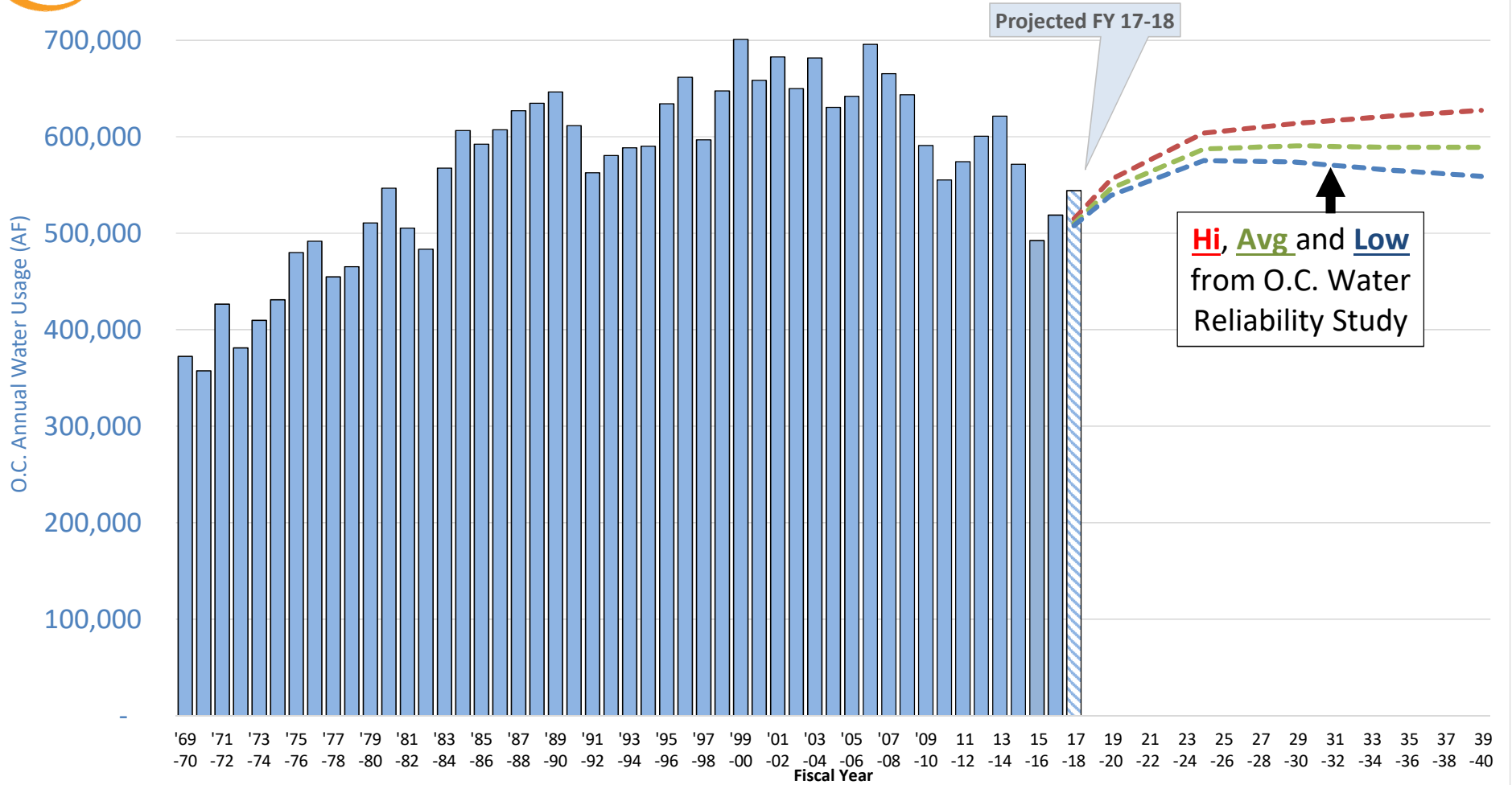
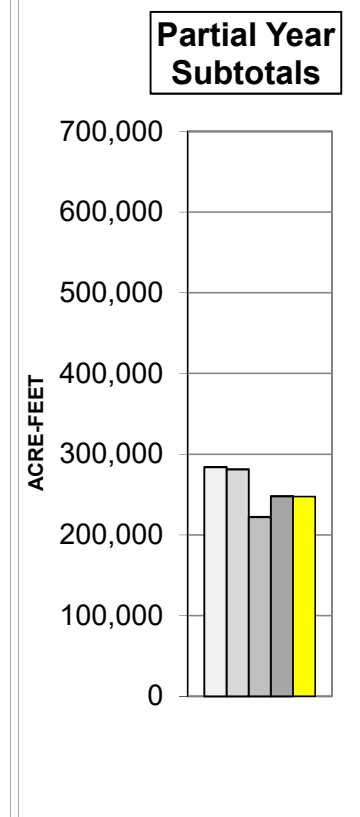
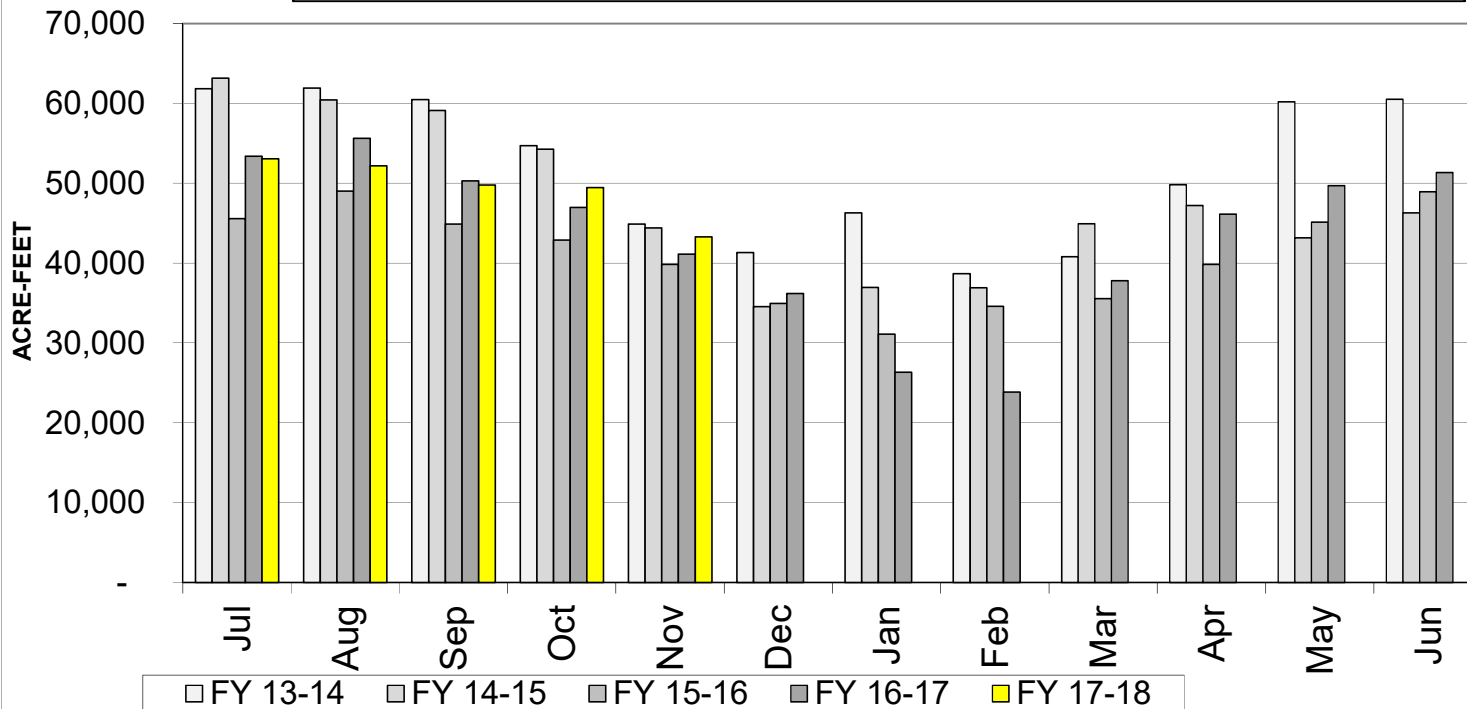


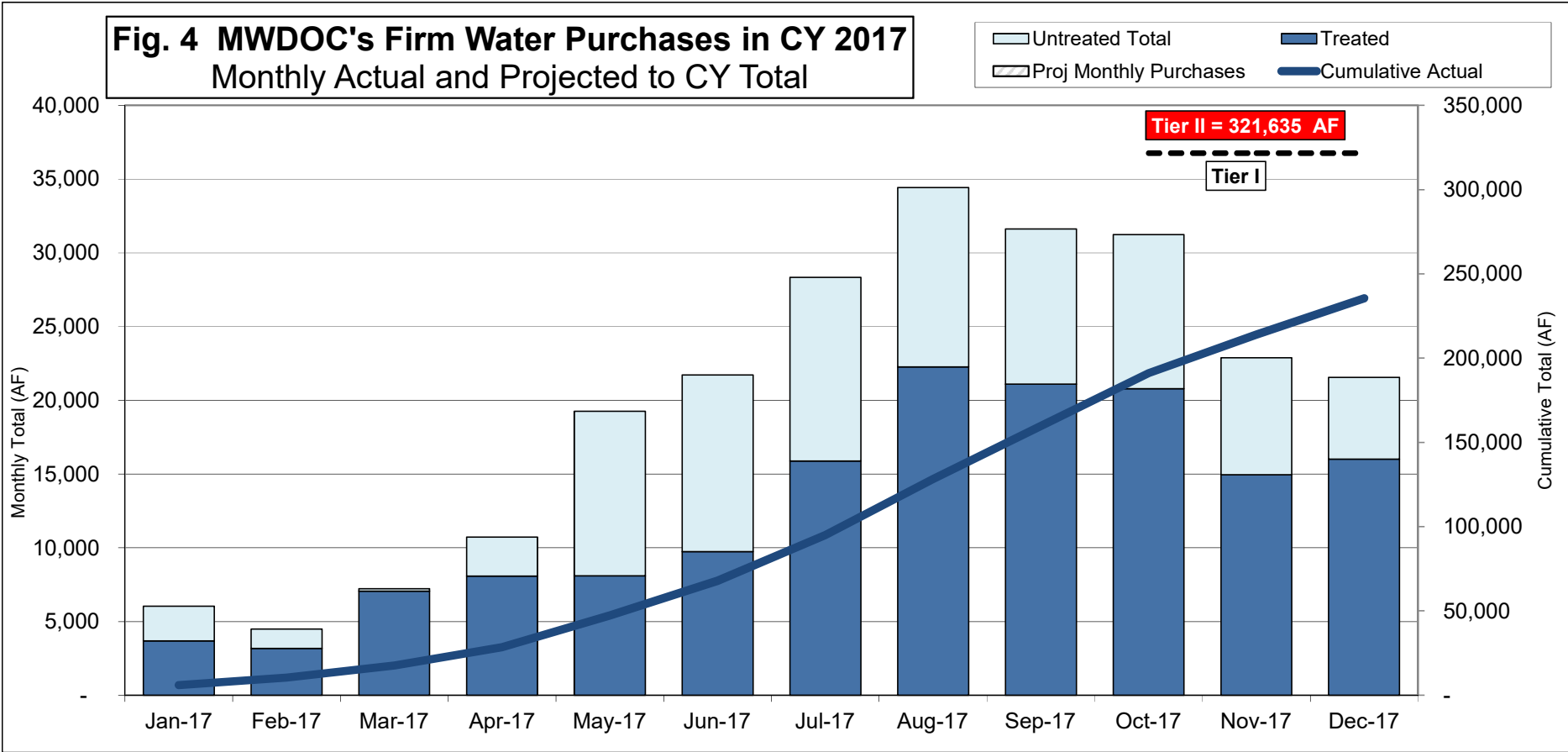


Fig. 2A OC Monthly Water Usage [1]: Comparison to Last 4 Fiscal Years



[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; excludes GWRS production, groundwater pumped to waste, and waste brine from water treatment projects.) Recent months numbers include some estimation.

Fig. 4 MWDOC's Firm Water Purchases in CY 2017
Monthly Actual and Projected to CY Total



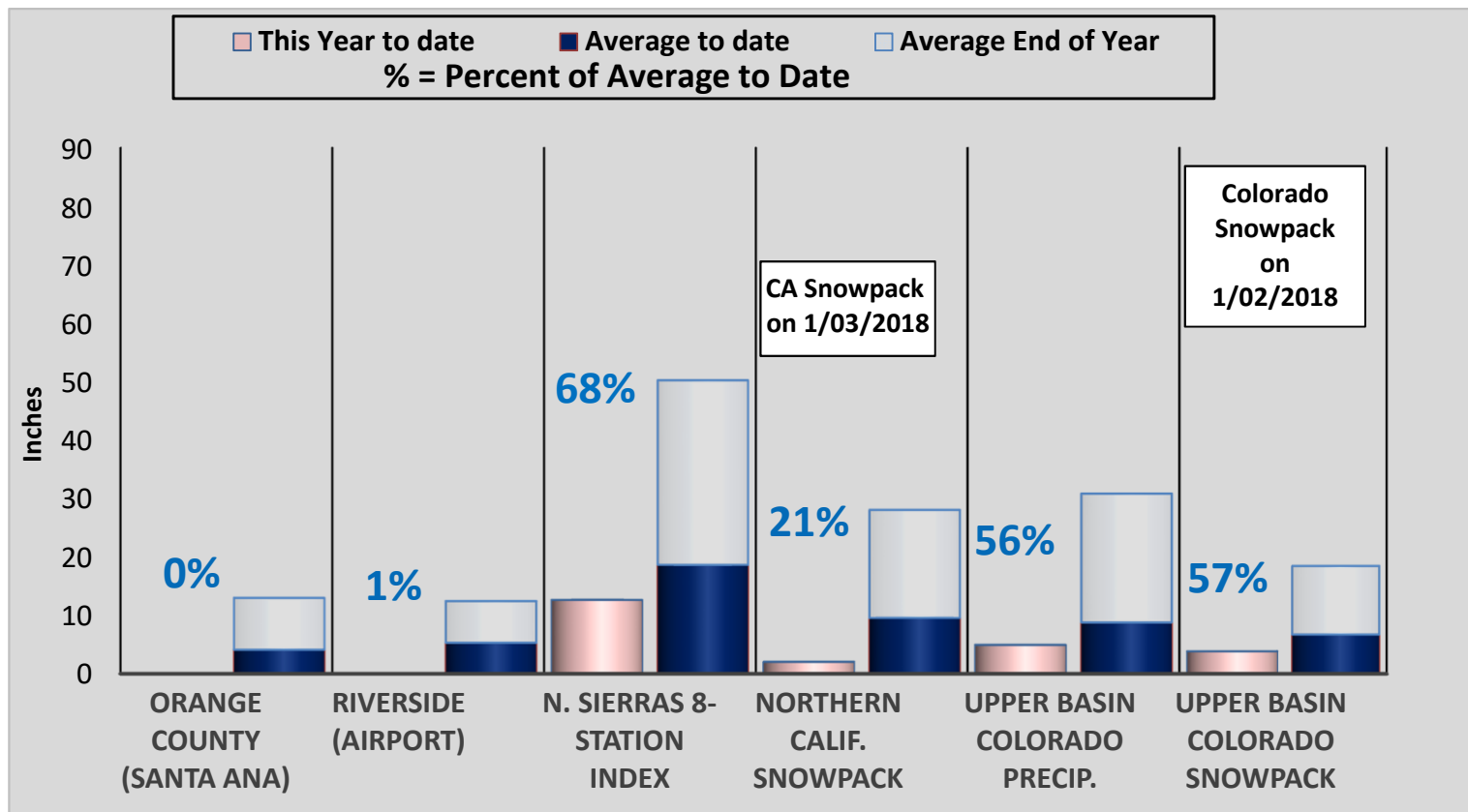
Notes

1. "Firm" includes Full Service (both Treated and Untreated) and Barrier water.
2. Basin Pumping Percentage (BPP) is the percentage of a retail water agency's total water demand that they are limited to pump from the OCWD-managed groundwater basin. BPP pertains to Basin agencies only. For example, if a Basin agency's total demand is 10,000 AF/yr and OCWD sets the BPP at 72%, then the agency is limited to 7,200 AF of groundwater that year. There may be certain exceptions and/or adjustments to that simple calculation. OCWD sets the BPP for the Basin agencies, usually as of July 1st.



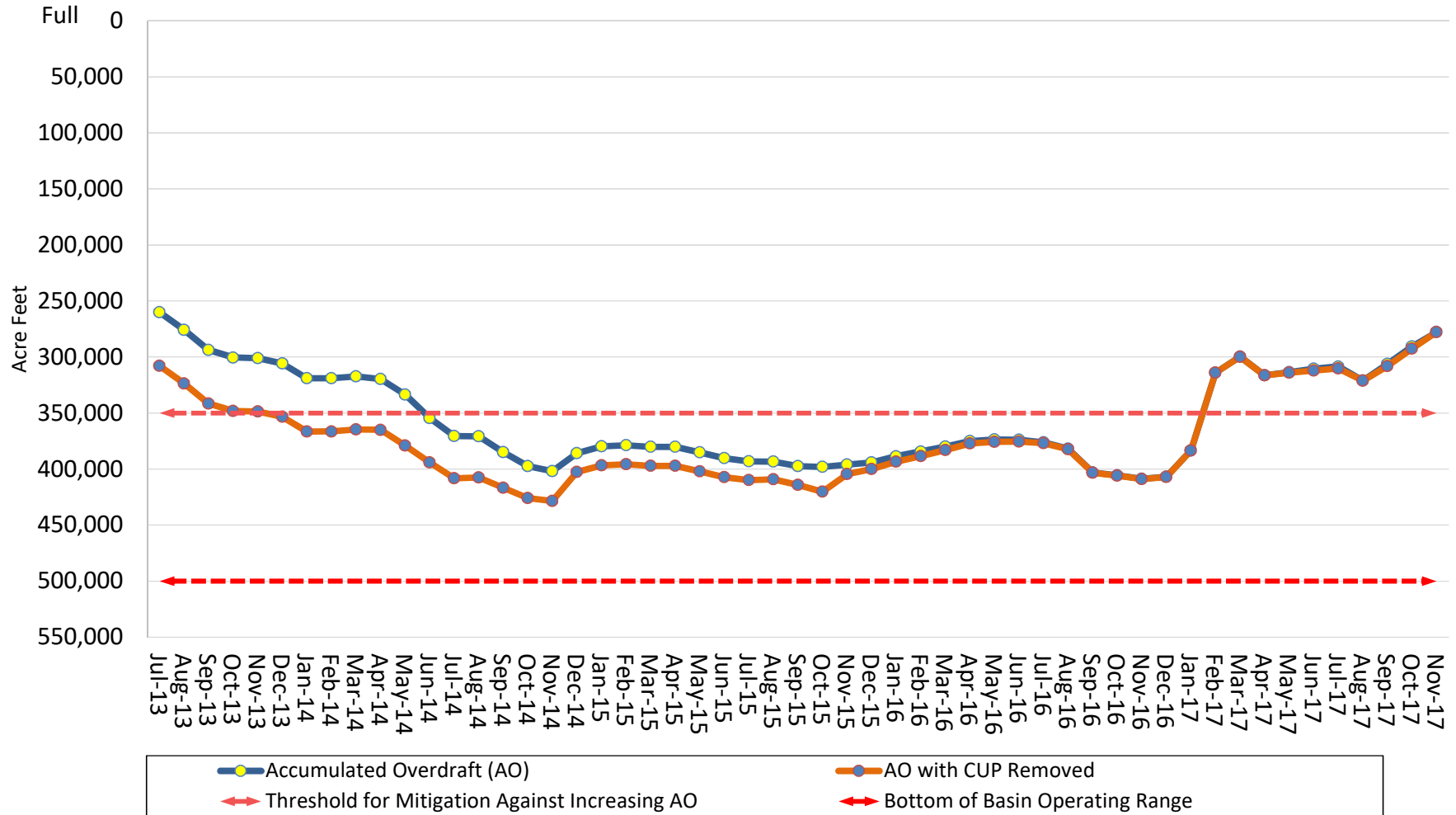
Accumulated Precipitation

for the Oct.-Sep. water year, through Early January 2018



* 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.

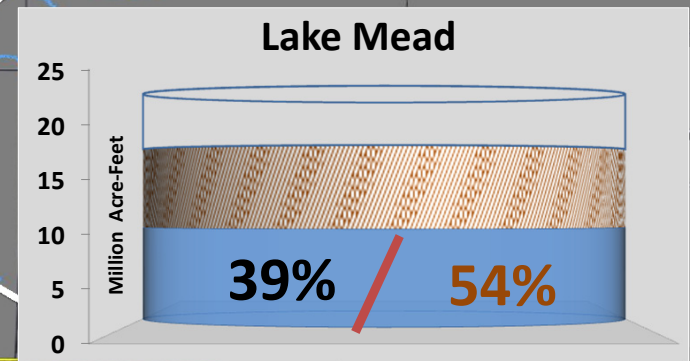
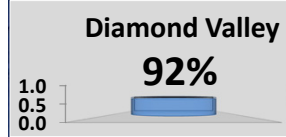
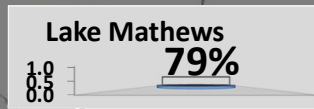
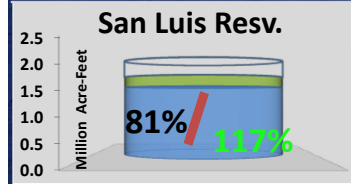
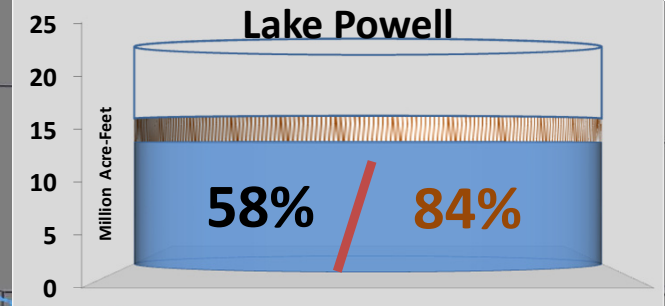
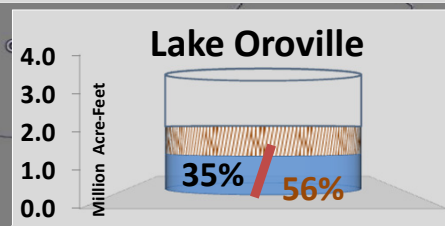
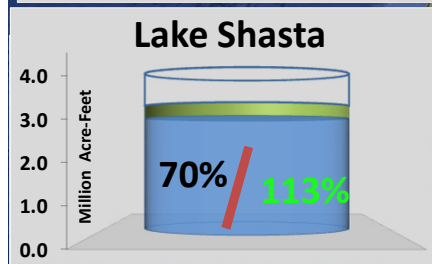
Accumulated Overdraft of the OCWD Groundwater Basin as of November 2017



	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
AO (AF)	376,310	381,800	403,047	405,635	408,729	406,832	383,548	314,004	299,755	316,286	313,468	310,434
AO w/CUP removed (AF)	376,864	382,340	403,223	405,811	408,906	407,009	383,548	314,004	299,931	316,462	314,009	312,164
	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
AO (AF)	308,488	321,131	306,280	290,800	277,691							
AO w/CUP removed (AF)	310,216	321,131	308,007	292,522	277,691							



State Water Project, Colorado River, and MWD Reservoir Storage
as of January, 3rd 2018



© 2015 INEGI



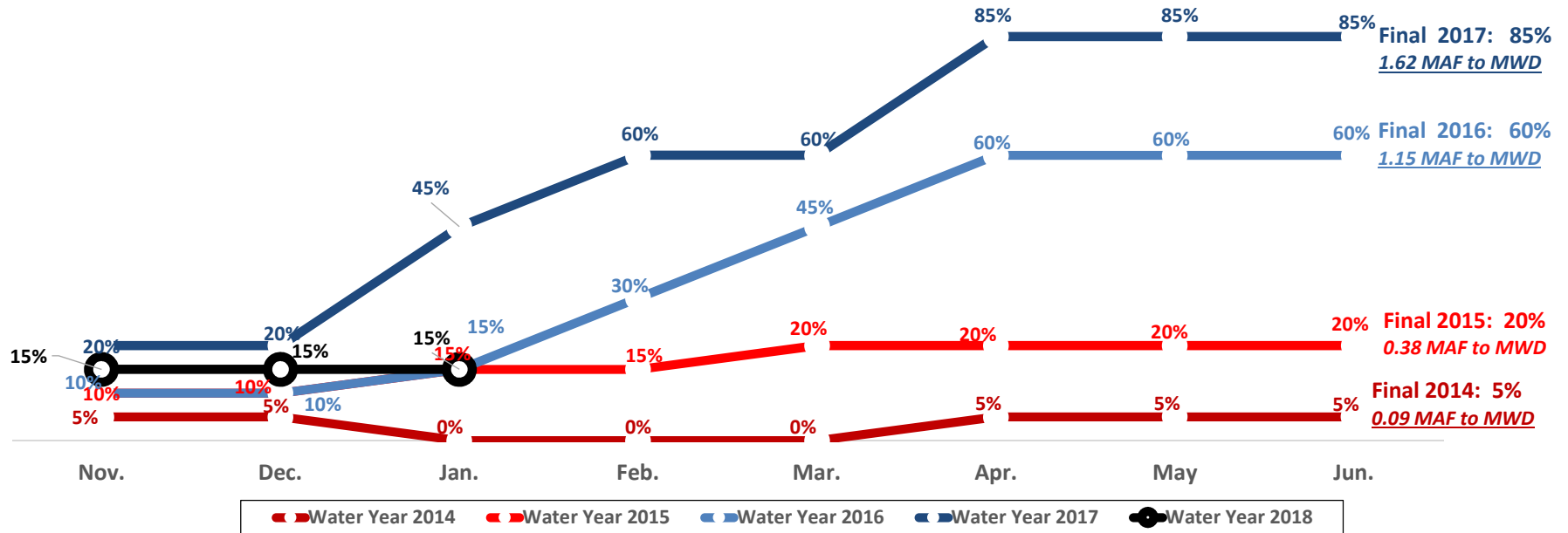
prepared by the Municipal Water District of Orange County
*Number are Subject to Change



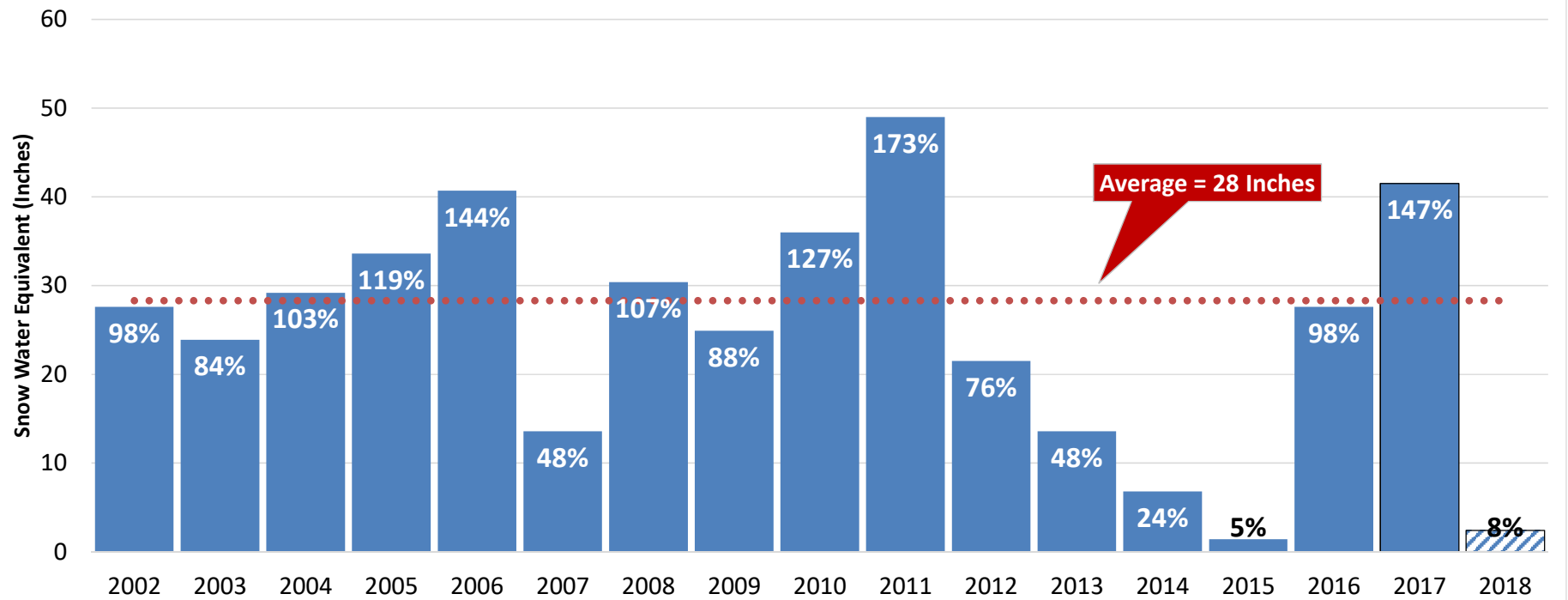
SWP TABLE A ALLOCATION

FOR STATE WATER PROJECT CONTRACTORS

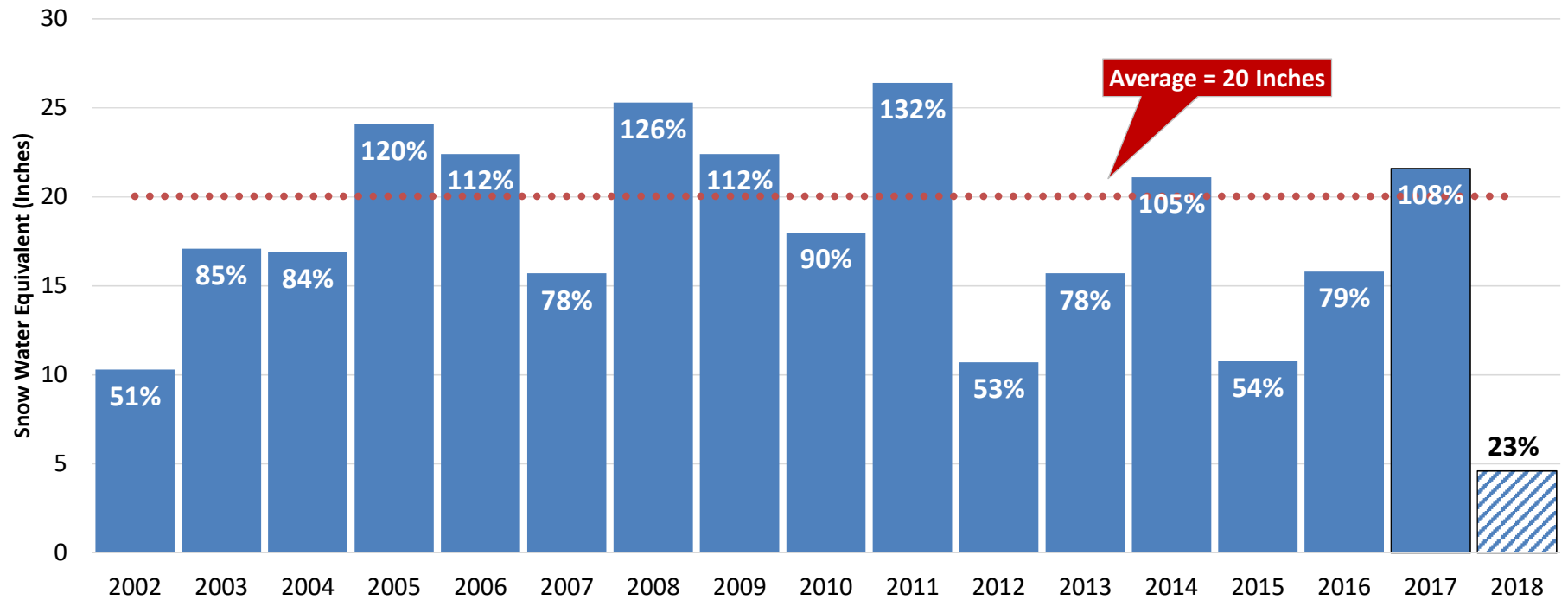
Final 2018: ???



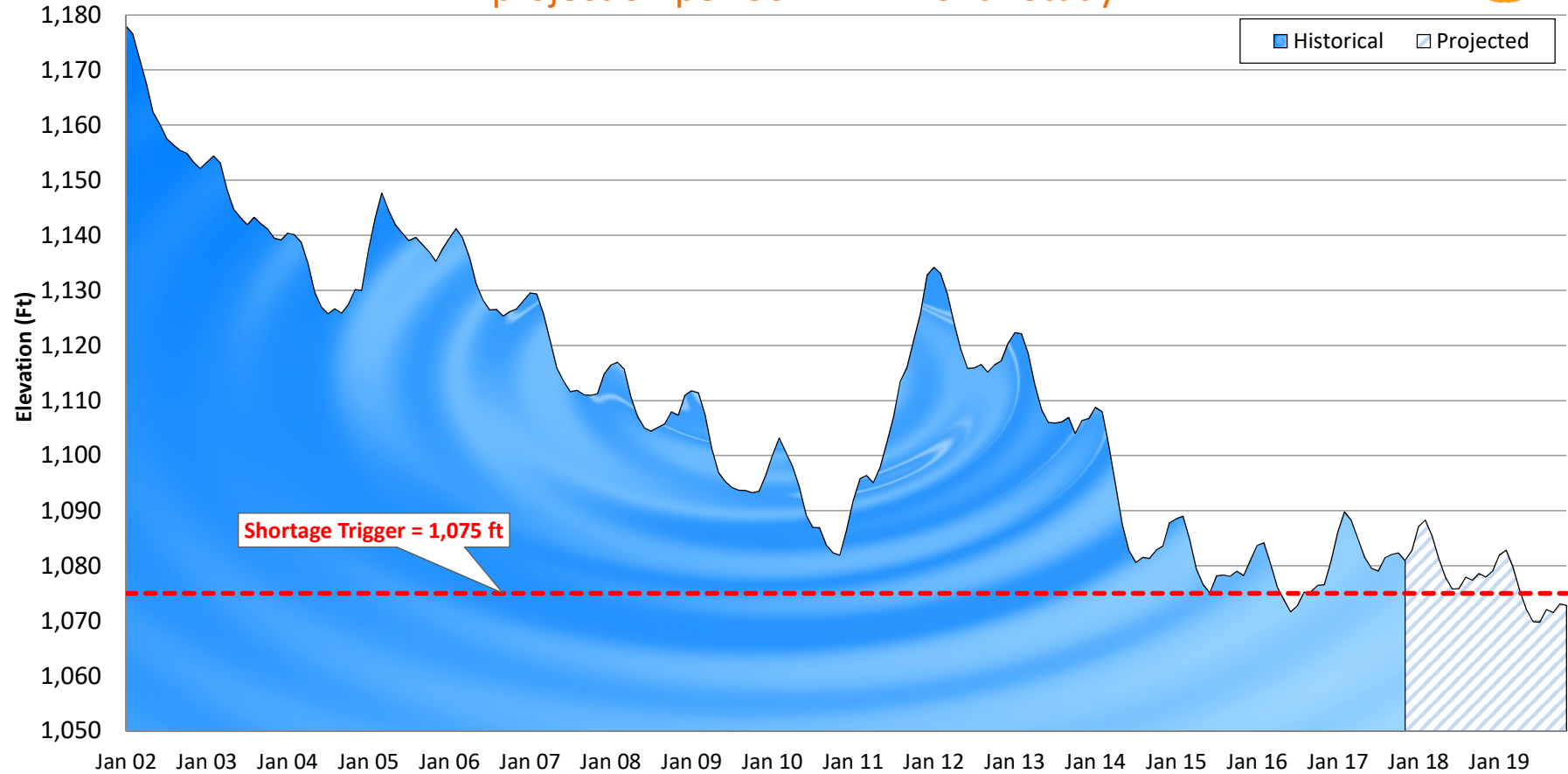
Historical Northern California April 1st Peak Snow Water Equivalent



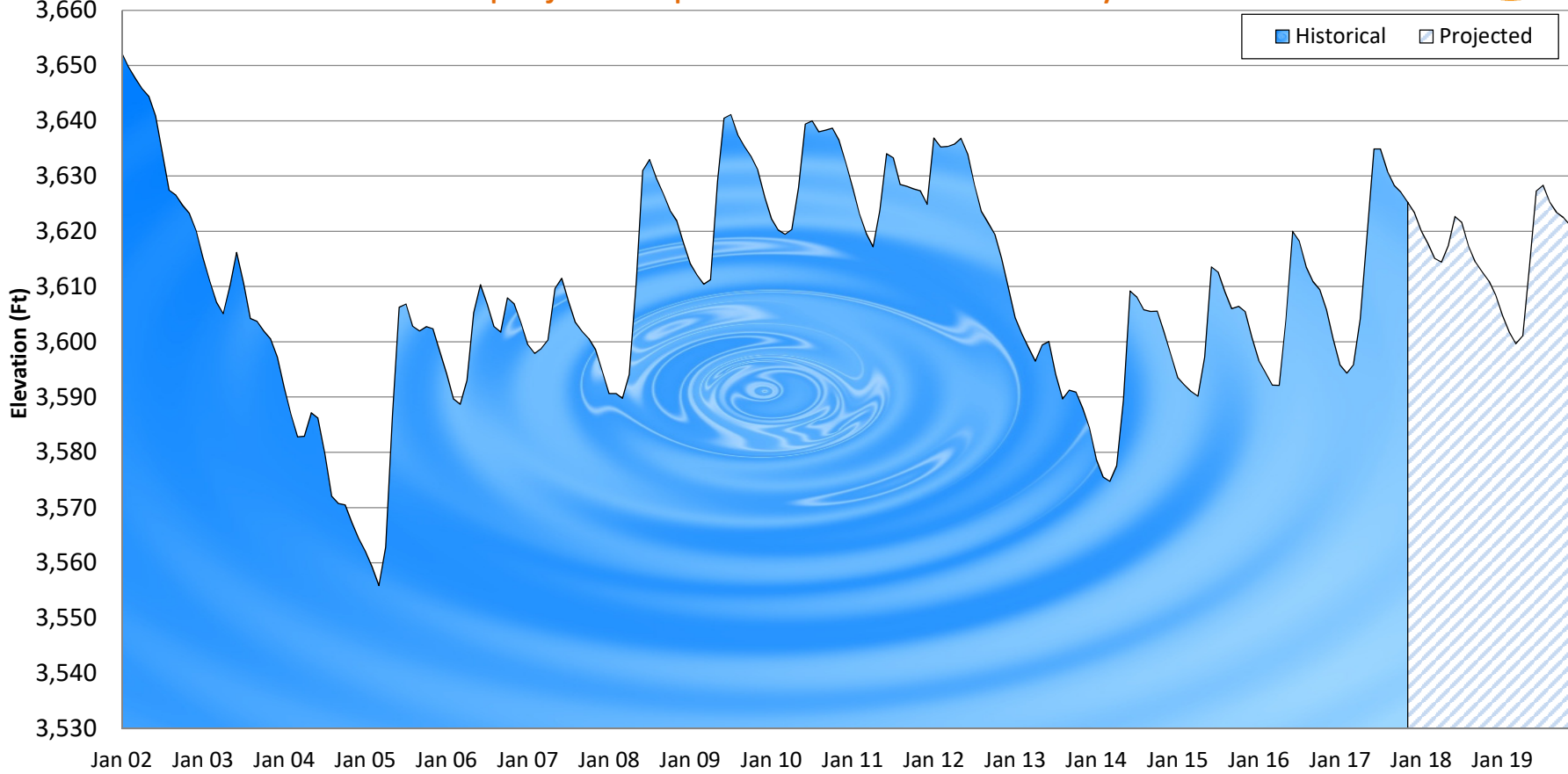
Historical Colorado Basin April 15th Peak Snow Water Equivalent



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



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



WILL SERVE REQUEST STATUS REPORT

(December 2017)

**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
12/12/16	Adams-Voit, LLC	23402 South Pointe Dr. Fire Service	ND	23402 South Pointe Dr.	Issued	1/11/17
1/18/17	Laguna Hills Restaurants, LLC	Farmer Boys Restaurant	ND	23952 Avenida De La Carlota	Issued	1/19/17
6/21/17	23961 Calle De La Magdalena Investors, LLC	Calle De La Magdalena Fire Service	ND	23961 Calle De La Magdalena	Issued	6/28/17
6/22/17	Precision Hospitality & Development, LLC	Dunkin Donuts	ND	23771 El Toro Rd.	Issued	7/24/17
9/14/17	Elite Hospitality, Inc.	Home 2 Suites	ND	23061 Ave. de la Carlota	Issued	9/14/17
11/14/17	Laguna Hills Investment Company	Oakbrook Village Bldg. D	ND	24231 Ave. de la Carlota	Issued	12/19/17

ND = New Development

**EL TORO WATER DISTRICT
UNAUTHORIZED DISCHARGE SUMMARY
YEAR OF 2017**

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 28, 2017	PRIVATE	RECYCLED	22182 Barbera, LH	Broken Irrigation Pipe	Shut-off meter and valve, took chlorine read at the storm drain (.03 mg/L)	N/A	N/A		8	San Diego Creek				600	CL2 residual at storm drain was <0.1 mg/L, will send notification in RW monthly SMR.
February 1, 2017	PUBLIC	SEWER	23472 Los Adornos, LH	UNKNOWN	Clean out full, ran lateral and cleared stoppage	N/A	N/A	Washed down grass area around clean out	8	N/A					No unauthorized sewage discharge to report.
MARCH	NO		SPILL	TO	REPORT										
APRIL	NO		SPILL	TO	REPORT										
May 23, 2017	PRIVATE	SEWER	23501 El Toro Rd, LF	Grease Blockage	ETWD arrived spill had stopped, City set up traffic control	N/A	N/A	Washed down streets, curbs and collected rinse water	8	UNKNOWN				1,500	Notification to OES, SARWQCB, OCEH and LF, Reported to CIWQS
June 9, 2017	PRIVATE	SEWER	23592 Ave De la Carlota, LH	UNKNOWN	Set up sand bags in curb area, sucked out grease interceptor and line cleaned	N/A	N/A	Restuarnt to hire plumber	8	N/A			15		Notification to OES, SARWQCB, OCEH and LH, Reported to CIWQS
June 16, 2017	PUBLIC	RECYCLED	5489 W. Paseo Del Lago, LW	Broken Meter Gasket	Laid sand bags in the gutter, dechlorinated, shut meter to stop leak	N/A	N/A	Made repairs and placed meter back in service.	8					1,220	CL2 residual at storm drain was <0.1 mg/L, will send notification in RW monthly SMR.
July 1, 2017	PRIVATE	RECYCLED	23201 Ridge Route Dr., LW	Broken 2" Sprinkler Line	stopped flow, LW ground Forman was notified	N/A	N/A	City to make repairs	8	Storm Drain				20,000	CL2 residual at storm drain was <0.1 mg/L, will send notification in RW monthly SMR.
July 2, 2017	PRIVATE	RECYCLED	22535 Caminito Pacifico, LH	Broken Angel Valve	Stopped flow	N/A	N/A	Fixed the broken valve and cleaned up mud	8	Storm Drain				2,220	CL2 residual at storm drain was <0.1 mg/L, will send notification in RW monthly SMR.
July 13, 2017	PRIVATE	RECYCLED	24402 Ridge Route Dr., LW	Irrigation Control Malfuntion	Turned off angle meter stop, made dam to stop flow	N/A	N/A	Contacted ground management for repairs, cleaned up area	8	Storm Drain				90	CL2 residual at storm drain was <0.1 mg/L, will send notification in RW monthly SMR.
AUGUST	NO		SPILL	TO	REPORT										
September 19, 2017	PUBLIC	SEWER	Westline Forced Main, LW	Contactora Hit Line	Turned off pumps at LS. 2-ETWD and 3-MNWD vactors located at LS and MH to redirect flow	N/A	N/A	Repaired 8' of AC pipe, installed PVC with two couplings and slowly loaded line and ran LS under normal flow conditions	8	N/A	40				Notification to SARWQCB, OCEH and LW, Reported to CIWQS
October 1, 2017	PUBLIC	SEWER	23516 El Reposo, AV	Roots	Set up containment downstream of clean out, ran snake to break blockage	12/6/2016	12/6/2016	Ran the line again, removed containment structure and cleaned up area	9	N/A	5				Notification to SDRWQCB, OCEH and AV, Reported to CIWQS
October 30,2017	PUBLIC	SEWER	24521 Moulton Pkwy.	Asphalt Debris	Vacuumed up spill along curb and cleared all asphalt debris out of sewer	9/19/2017	3/11/2014	Washed down streets, curbs and collected rinse water	9	N/A	62	0			Notification to OCEH, RWQCB and City of L.H
NOVEMBER	NO		SPILL	TO	REPORT										
DECEMBER	NO		SPILL	TO	REPORT										
LEGEND											107	0	15	25,630	
S.DC = San Diego Creek									RES. = Residential			R.S. = Rocks			
S.D. = Storm Drain									C. = Commercial			C.W.D. = Calcium Water Deposits			
A.C. = Aliso Creek									S.B. = Siphon			B.P. = Broken Pipe			
G.B. = Grease Blockage									P.F. = Power Failure			U.W. = Untreated Water			
S. = Sticks									P. = Paper			R. = Roots			

EI Toro Water District
SWRCB Emergency Drought Regulations
Monthly Urban Water Supplier Reporting/ Tracking

Month	Total Purchases		Total Purchases		Delta (AF)	Delta %	Residential % of Total 2015/16/17	Residential Usage		RW 2013 (AF)	RW 2015/16/17 (AF)
	2013 (AF)	ET 2013	2015/16/17 (AF)	ET 2015/16/17				2015/16/17 (AF)	GPCD 2015/16/17		
June	996.66	6.00	773.57	5.73	-223.09	-22%	61.75%	477.68	107	62.62	55.65
July	1,016.80	5.80	723.00	5.95	-293.8	-29%	60.26%	435.68	94	56.51	87.87
August	1,042.70	6.55	790.17	6.24	-252.53	-24%	61.06%	482.48	104	49.34	124.29
September	963.00	5.26	663.40	4.96	-299.6	-31%	63.32%	420.06	94	46.06	101.44
October	811.60	3.92	613.70	3.86	-197.9	-24%	61.46%	377.18	82	25.45	90.39
November	684.20	2.51	528.90	3.26	-155.3	-23%	64.97%	343.63	77	16.87	58.30
December	593.20	2.49	430.70	2.36	-162.5	-27%	67.92%	292.53	63	15.55	32.44
January	543.15	2.53	417.00	1.89	-126.15	-23%	75.41%	314.46	68	13.00	23.43
February	502.41	2.89	455.20	3.83	-47.21	-9%	74.80%	340.50	79	18.35	55.08
March	736.34	4.06	474.45	3.99	-261.89	-36%	70.86%	336.20	73	35.55	52.33
April	825.00	4.82	526.00	5.15	-299	-36%	71.43%	375.72	84	53.97	105.24
May	874.56	5.97	621.70	4.65	-252.86	-29%	67.21%	417.84	90	62.80	133.64
June	996.66	6.00	731.50	5.81	-265.16	-27%	66.57%	486.96	109	62.62	172.45
July	1,016.80	5.80	770.10	6.78	-246.7	-24%	67.21%	517.56	112	56.51	195.68
August	1,042.70	6.55	753.50	5.96	-289.2	-28%	64.76%	488.00	105	49.34	198.34
September	963.00	5.26	672.80	4.50	-290.2	-30%	65.56%	441.09	99	46.06	160.69
October	811.60	3.92	600.30	3.23	-211.3	-26%	65.59%	393.77	85	25.45	110.38
November	684.20	2.51	524.60	2.76	-159.6	-23%	69.16%	362.81	81	16.87	80.81
December	593.20	2.49	429.60	1.91	-163.6	-28%	71.19%	305.82	66	15.55	49.90
January	543.15	2.53	357.22	1.99	-185.93	-34%	78.25%	279.51	60	13.00	27.75
February	502.41	2.89	341.84	1.77	-160.57	-32%	79.10%	270.39	65	18.35	21.00
March	736.34	4.06	544.19	4.27	-192.15	-26%	77.34%	420.88	91	35.55	88.91
April	825.00	4.82	634.95	5.17	-190.05	-23%	69.72%	442.66	99	53.97	146.88
May	874.56	5.97	669.86	4.70	-204.7	-23%	67.16%	449.91	97	62.80	170.35
June	996.66	6.00	734.87	5.25	-261.79	-26%	67.01%	492.44	110	62.62	168.67
July	1,016.80	5.80	849.65	6.34	-167.15	-16%	65.31%	554.91	120	56.51	206.55
August	1,042.70	6.55	829.15	6.13	-213.55	-20%	64.21%	532.43	115	49.34	201.74
September	963.00	5.26	684.25	4.80	-278.75	-29%	64.06%	438.35	98	46.06	157.58
October	811.60	3.92	731.30	3.57	(80.30)	-10%	66.20%	484.11	105	25.45	144.70
November	684.20	2.51	548.66	2.36	-135.54	-20%	66.12%	362.75	81	16.87	79.64
December	593.20	2.49	646.24	3.26	53.04	9%	69.45%	448.82	97	15.55	105.69
Total	25,287.40	138.13	19,072.37	132.43	-6215.03	-25%	67.89%	12,787.14	91	1,184.54	3,407.81

(WRP) Tertiary Treatment Plant

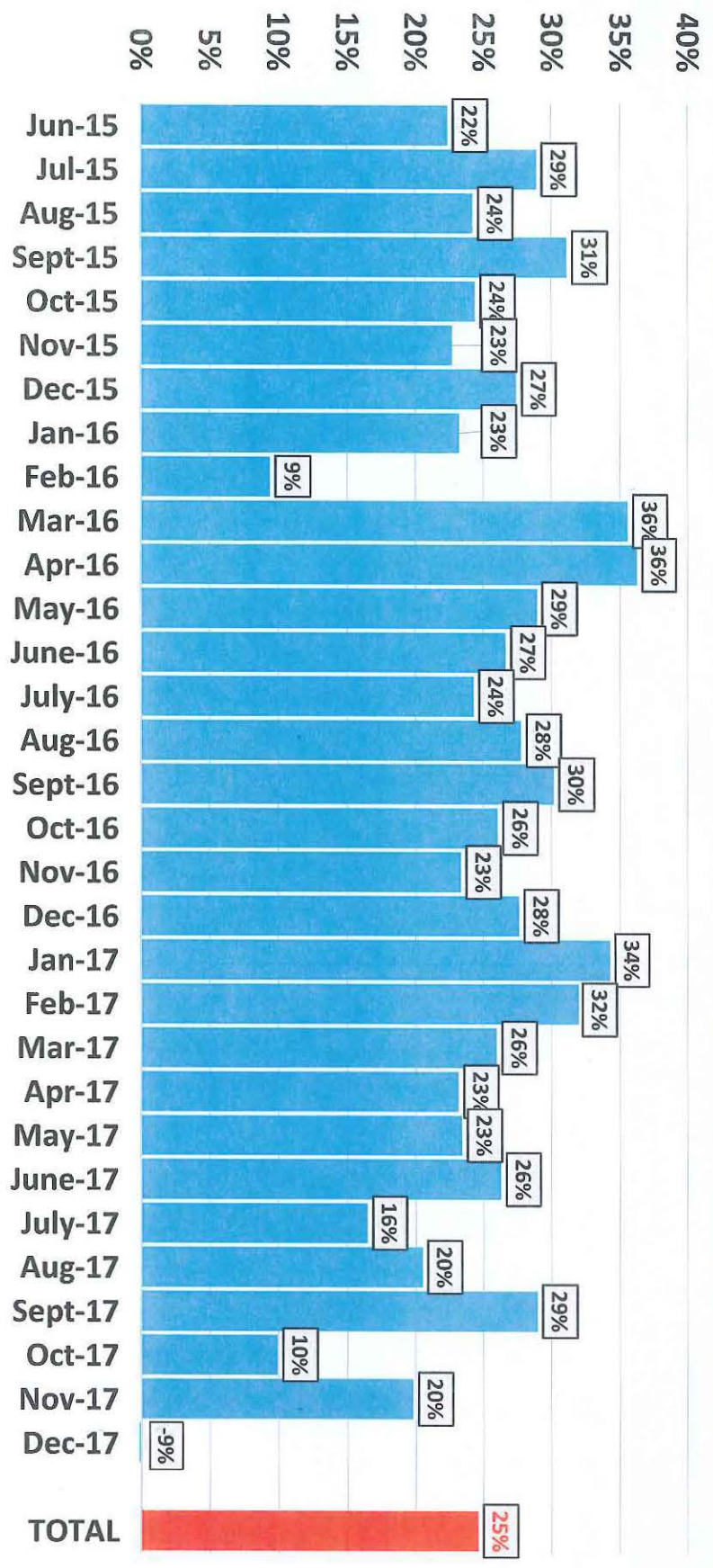
Dec-17

Total Recycled Water Production

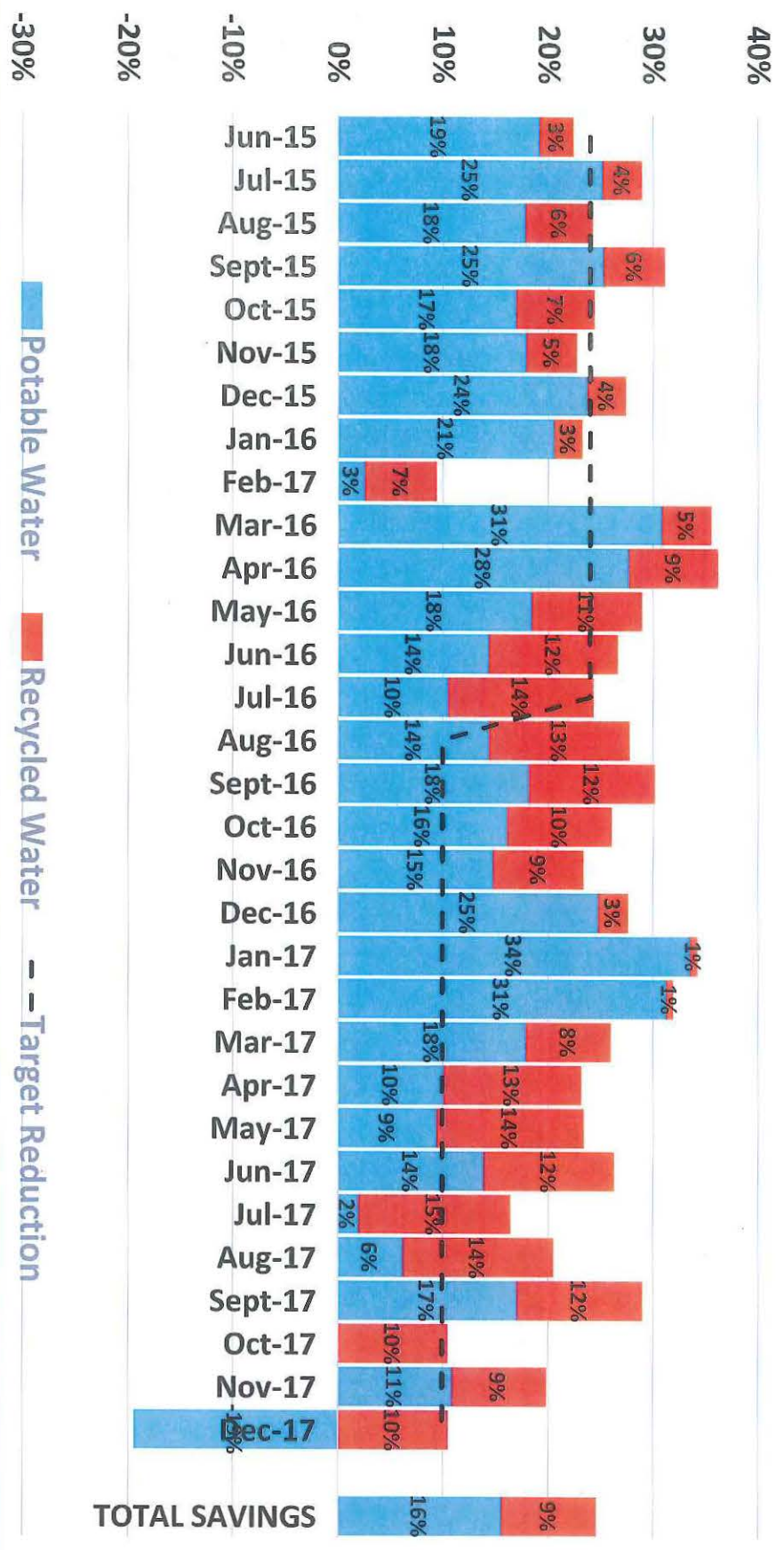
Flow, Units	G.C. Irrigation	Main Distribution	WRP Irrigation/Utility	Total, Production
Avg. Daily Q MGD	0.214	0.838	0.058	1.155
Total Q MG	6.648	25.988	1.803	35.814
Total Acre Feet	20.402	79.754	5.533	105.689

Note: 5,715,930 gals. or 17.542 Ac. Ft. of the RW Total Production was from Potable Make-Up Water

ETWWD WATER SAVINGS COMPARED TO 2013



ETWWD WATER SAVINGS COMPARED TO 2013



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Nicholas Crockett
 Alia Cardwell

Municipal Water District of Orange County, California
Washington Update
January 9, 2018

After a flurry of Congressional activity relating primarily to the Tax Reform Bill in December, both the House and the Senate are returning to Washington this week after a holiday break.

At the top of the agenda for Congress is the passage of the Appropriations bills for FY2018. The current funding authority expires on Friday, January 19, 2018.

Funding the Federal Government:

House and Senate Leaders are seeking agreement on a two year budget deal—for the balance of the 2018 Fiscal Year for the 2019 Fiscal Year. With this strategy, the Congress will avoid fighting over a spending bill next fall in the middle of the fall elections.

As noted in previous reports, the fight has been over how much spending to allocate to our national security (defense spending) versus how much to allocate for discretionary spending (non-defense spending).

One of the key additional issues that has arisen deals with the Dreamers Issue. The legal status of the children of illegal immigrants. The status of these children is protected until March 2018 under a Trump Administration Executive Order. There are ongoing attempts to fashion a permanent solution to their status in this current Appropriations Package. The sticking point has been the desire by the Administration to receive some funding for a border wall in exchange for the resolution for the Dreamers.

Last week key Congressional Leaders met with key White House Officials. There was no agreement reached. At press time, there are ongoing efforts to fashion some kind of an agreement before January 19th. Leadership staff have advised me that they are assuming we will see another Continuing Resolution (CR) that will continue to fund the federal government until the funding levels and the Dreamers related issues have been resolved.

Infrastructure Bill:

There continues to be discussion about a One Trillion Dollar Infrastructure Program. Last weekend the President stated on Friday that he wasn't sure the Private Public Partnership (PP3)

Models would work...and this comment was followed on the next day by Gary Cohn, the President's Chief Economic Adviser's comment that the plan that the White House would be unveiling later this month did include PP3's. An example of a PP3 would be an investor or local government owned "toll road" where the revenues of the tolling pays back the cost of the infrastructure.

Of significance, there has been little seen or heard about how the President's Infrastructure Program will deal with water infrastructure. Repeatedly, we have seen comments dealing with roads, bridges, highways and airports but water is rarely mentioned. The Administration has said its Infrastructure Plan would: 1) provide regulatory relief; and, 2) provide some \$200 Billion in federal dollars that would be coupled with state and local government dollars. The plan remains fluid, according to the White House, and the rollout of the bill is expected within the next month. We are tracking this process very closely and will provide updates as we receive them.

Federal Water Appropriations:

Again, we wait. The current versions of the House and Senate Energy and Water Spending Bills funded water programs at approximately last year's levels. We are still waiting to see if the appropriations bills will fund the many grant programs which were passed as part of the California Drought Relief bill which passed in December 2016 as part of the WIIN Act (2016 version of the Army Corps Water Resources Development Act or WRDA). We are tracking this process closely and will report on developments.

Bureau of Reclamation WATERSMART "Water" Grants:

Four WaterSMART grants have recently posted. There is still ample time left for agencies to apply if they are interested.

1. [WaterSMART Drought Response Program: Drought Resiliency Projects](#)

OFFICIAL DESCRIPTION: The objective of this Funding Opportunity Announcement (FOA) is to invite states, tribes, irrigation districts, water districts, and other organizations with water or power delivery authority to leverage their money and resources by cost sharing with Reclamation on Drought Resiliency Projects that will increase the reliability of water supplies; improve water management; and provide benefits for fish, wildlife, and the environment to mitigate impacts caused by drought.

Grant Closes: February 13, 2018.

2. [WaterSMART Cooperative Watershed Management Program Phase I Grants](#)

OFFICIAL DESCRIPTION: New Watershed Group: States, Indian tribes, local and special districts (e.g., irrigation and water districts, etc.), local governmental entities, interstate organizations, and non-profit organizations. Existing Watershed Groups: In order to be eligible to receive an award for funding as an Existing Watershed Group, the applicant must be an

eligible entity as described immediately above for New Watershed Groups, and must be either be: (1) An existing watershed group, (i.e., a grassroots, non-regulatory legal entity that otherwise meets the definition of a watershed group as described in Section A.2., Objective of this Funding Opportunity Announcement; or (2) a participant in an existing watershed group

Grant Closes: January 31, 2018

3. [WaterSMART Drought Response Program: Drought Contingency Planning Grants](#)

OFFICIAL DESCRIPTION: The objective of this FOA is to invite states, Indian tribes, irrigation districts, water districts, and other organizations with water or power delivery authority to leverage their money and resources by cost sharing Drought Contingency Planning with Reclamation to build resilience to drought in advance of a crisis. Applicants under this FOA may request funding to develop a new drought plan or to update an existing drought plan (collectively, Drought Contingency Plans). Applicants may also request technical assistance from Reclamation for the development of elements of the Drought Contingency Plan (Project).

Grant Closes: February 7, 2018

4. [WaterSMART: Reservoir Operations Alternatives— Calculating Economic Effects](#)

OFFICIAL DESCRIPTION: The objective of this Funding Opportunity Announcement (FOA) is to invite states, Indian tribes, irrigation districts, water districts, universities, nonprofit research institutions and organizations with water or power delivery authority to leverage their money and resources by cost sharing with Reclamation to develop a methodology for analyzing the economic effects of reservoir operating alternatives. Applicants under this FOA may request funding for projects that include both (i) a technical study that develops a methodology for analyzing the economic effects of reservoir operating alternatives and potential improvements and (ii) a transferable tool for reservoir operators to use to estimate the benefits of specific reservoir operating alternatives and potential improvements.

Grant Closes: February 27, 2018

February 28, 2018 Washington, DC Briefing and Luncheon:

We are actively coordinating with other water districts and Congressional Offices to insure excellent participation for this annual gathering.

JCB 1/9/2018



Memorandum

To: Municipal Water District of Orange County
 From: Syrus Devers, Best Best & Krieger
 Date: January 15, 2018
 Re: Monthly State Political Report

Legislative Report

The Legislature returned on January 3rd and the Senate Democrats immediately went into caucus to debate the allegations of misconduct against Senator Tony Mendoza. He is under pressure to resign, but has refused asserting his innocence and his cooperation with investigators. After the caucus Mendoza agreed under protest to take a leave of absence for a month, but vowed to return in February. The Democrats will have lost their supermajorities in both houses during Mendoza's absence.

In the seats vacated by Assembly Members Bocanegra and Dababneh, the primaries will be on April 3, and the general elections will coincide with the primaries on June 5th. The special election for the 29th Senate District (Newman) will also be on June 5th, which is an initial victory for the Democrats who hope to benefit from higher voter turnout than would otherwise be the case.

SB 623 (Monning—public goods charge on drinking water.) While there has been no change to the status of SB 623 since the last PAL report, ACWA did convene the first lobbyist meeting of the year and discussed strategy for opposition. It was mentioned that the administration is delaying implementation of the Low-Income Water Rate Assistance Act (a.k.a. SB 401 program). The stated reason was technical challenges, but more cynical observers suggested that SWRCB didn't want to distract from the SB 623 campaign by working on two assistance programs at the same time.

Water use efficiency legislation (SB 606/AB 1668): There has also been no change to the status of the two conservation bills and no amendments have been made public since the last PAL Committee meeting. A set of amendments was delivered to the authors the week before Christmas but as yet there has been no response from either office.

Governor Brown will unveil his final budget on January 10th, followed by his last State of the State address on January 25th. Both events will be at 10:00 a.m. and available on www.calchannel.com. BB&K will provide budget highlights during oral testimony at the PAL Committee meeting.

The County of Orange Report

January 9, 2018
by Lewis Consulting Group



The January 10th LAFCO meeting was held after our print deadline, so anything of interest will be reported orally at PAL.

The January 10, 2018 agenda includes:

Item 8 - a minor border adjustment between the cities of Orange and Garden Grove effecting a little less then 1 acre along Lewis Street. Appears to be non-controversial.

Item 9A - Election of New OC LAFCO Officers

Item 9B - Appointment Process for OC LAFCO Seats

In 2018, the terms of office expire for the following OC LAFCO board members:

COMMISSIONER	MEMBER SEAT	CURRENT TERM
Todd Spitzer	Regular County Member	2014 - 2018
Cheryl Brothers	Regular City Member	2014 - 2018
John Withers	Regular Special District Member	2014 - 2018
James Fislser	Alternate Special District Member	2014 - 2018
Derek J. McGregor	Regular Public Member	2014 - 2018

County OC LAFCO Seat

County seats on OC LAFCO are appointed at the discretion of the Chair of the Board of Supervisors (BOS) with final approval by the County BOS. Committee appointments are expected to be considered by the BOS in January.

City Regular and Alternate Member Seats

The City Selection Committee (comprised of 34 Orange County City Mayors) is

responsible for appointing the upcoming Regular and Alternate City Member OC LAFCO seats. The Orange County Clerk of the Board (COB) is responsible for administering the appointment process for these seats. OC LAFCO will provide formal notification of the upcoming expired term for the Regular City Member seat currently held by Commissioner Cheryl Brothers to the COB in February. Submittal of this notification letter satisfies OC LAFCO's responsibility with respect to expiring terms. The appointment to this seat will take place at the City Selection Committee's meeting in May.

Special District Regular and Alternate Member Seats

OC LAFCO staff has a more prominent role in the appointment process for Special District Members, which is governed by Government Code Section 56332, and the Special District Selection Committee Bylaws. A schedule of key appointment events and responsibilities for one of the Regular Special District seats and the Alternate Special District seat expiring June 30, 2018 is outlined below:

Appointment Process Schedule for OC LAFCO Regular and Alternate Special District Seats Expiring June 30, 2018

DATE	EVENT
March 5, 2018	OC LAFCO Executive Officer emails notification letters with nomination forms and Declaration of Qualification to Vote to independent special district presiding officers, and special district general managers.
April 9, 2018 (3 PM)	Deadline for submitting nominations and Declaration of Qualification to Vote for the regular and alternate special district member are due to OC LAFCO by 3:00p.m.*
April 9 – 16, 2018	OC LAFCO develops ballot form.
April 17, 2018	Ballots emailed to all special district presiding officers/designees.
May 25, 2018 (3 PM)	Ballots due to OC LAFCO by 3:00 p.m.
June 4, 2018	OC LAFCO staff (or designee) tabulates ballots and announces results.

* Pursuant to Government Code Section 56332(c)(1), if only one candidate is nominated for a vacant seat, that candidate shall be deemed selected with no further proceedings.

Public Member Seat

For the Regular Public Member appointment, the Commission policy requires that the Chair direct the Executive Officer to prepare and distribute a special notice advertising the position and soliciting resumes from interested persons.

Upon receipt of the applications, the OC LAFCO Executive Committee screens all applications and selects finalists to interview with the full Commission. For 2018, there is one term expiring for the regular public member seat.

Appointment Process Schedule for OC LAFCO Regular Public Member Seat Expiring June 30, 2018

DATE	EVENT
April 11, 2018	Announcement of Regular Public Member Seat vacancy distributed to city clerks, special district board secretaries, clerk of the BOS, and published in the <i>OC Register</i> .
May 11 – June 11, 2018 (3 PM)	Application period for interested candidates to submit resumes to OC LAFCO.
June 12 – June 22, 2018	Application screening by OC LAFCO Executive Committee
July 11, 2018	Commission interviews and selects OC LAFCO Regular Public Member (Commission Hearing).
August 8, 2018	Oath of Office Administered (Commission Hearing)

Item 9C - Review of annual OC LAFCO Audit

Item 9D - Review of Comprehensive Organization Assessment conducted by Kelly Associates Management Group, LLC



Update - Still Holiday Life Agenda

The Tuesday, January 9th County Board of Supervisors meeting had an extremely light agenda. The meeting featured tributes to outgoing Board Chair Michelle Steel and the election of new officers. Supervisor Andrew Do was unanimously elected the new Board Chairman and Shawn Nelson was unanimously elected Vice Chair.

Adjourned until January 23, 2018

January 22nd Moving-Day for Riverbed Homeless

Just weeks after the county spent nearly \$8 million to purchase a 45,000 sq. ft. building in Orange to provide mental health and drug treatment services for homeless, the county is also embarking on a “get tough” policy for the hundreds of homeless encamped along the Santa Ana River.



The county has begun to post notices along the riverbed urging the campers to leave now. Earlier, the county was intimidated by the fear of litigation. However, after conducting a survey of 1,093 riverbed homeless people, they discovered 83% of those interviewed declined both public services and housing.

County spokesperson Carrie Braun stated the area needs to be closed for an “environmental remediation project” and because the river channel isn’t safe for human habitation.



POLITICAL TIDBITS

Ed Royce Announcement Roils Orange County Politics

U.S. Representative Ed Royce announced decision to not seek re-election has stunned political observers in Orange County and Washington, D.C.

His decision has also triggered an avalanche of initial interest from prospective congressional candidates.

On the Democratic side, former Democrat congressional nominee, Jay Chen immediately jumped into the race. Chen was a surprisingly aggressive opponent to Royce in 2012 and should still have some residual name identification.

The Republican side is far more confusing as jockeying has just begun. The National Republican Congressional Campaign Committee is immediately polling and will try to use the results to winnow the field.

Among those showing initial interest are Los Angeles County Assemblyman Philip Chen and Orange County Supervisor Shawn Nelson. Other potential names include former State Senator Bob Huff, State Senator Janet Nguyen, former Assemblywoman Young Kim and former Assemblywoman Ling Ling Chang.



STAYED TUNED . . .

Ose Runs for Governor - Complicates Local Legislative Landscape

Former Northern California Republican Congressman Doug Ose has just entered the race for Governor changing the calculus and lowering the odds that one of the three G.O.P. candidates can survive to be a top two finalist in November.

For months, Orange County Assemblyman Travis Allen and San Diego businessman John Cox have battled, hoping that votes would split just right allowing one of them into the top two finish. With Ose's entrance, it will be a futile effort if all three Republicans remain in the race.

The pressure is on local Assemblyman Allen because he has the most to lose. Allen has seven years remaining in his potential legislative term limit. However, if Allen drops out of the race and seeks re-election, it stymies the plans of two major G.O.P. candidates who have already launched campaigns to succeed him. Long time Republican activist, Greg Haskins, is actively campaigning and Westminster Councilman Tyler Diep has raised an amazing \$425,00 for the effort.

Senator Josh Newman Recall Qualifies for Ballot

California Secretary of State has confirmed that more than 64,000 valid signatures were submitted, forcing a recall election vote for Orange County freshman State Senator Josh Newman.

Newman became a target of Republican ire when he cast a vote in favor of California's unpopular gas tax hike.

California gas tax

A law passed last year to repair roads and bridges over the next 10 years raises gasoline taxes by 12 cents, diesel by 20 cents and raises registration fees. If a vote were being held today, how would you vote?

(Among all registered voters)



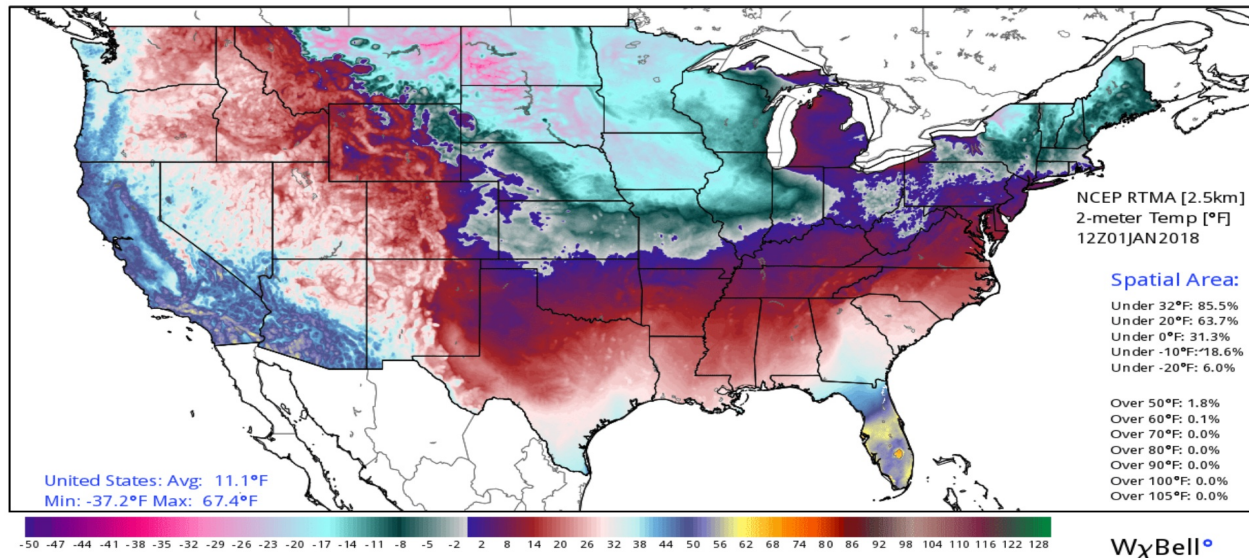
Source: USC Dornsife/L.A. Times California Poll

@latimesgraphics

The recall election will be consolidated with California's regularly scheduled June 5, 2018 statewide primary election. In doing so, the election costs will be minimized, but also Newman's chance to survive should be enhanced by a greater voter turnout.

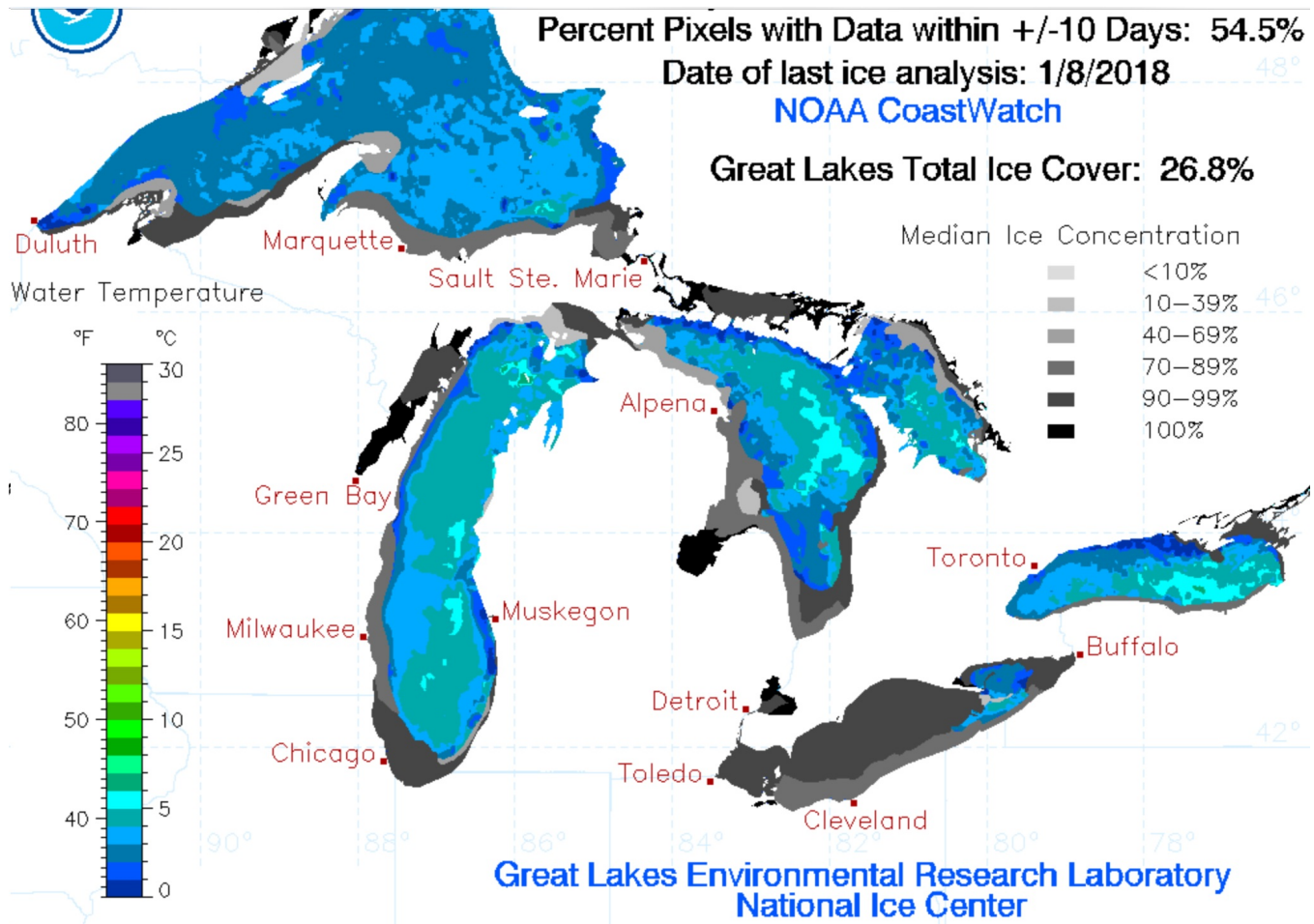
Baby It's Cold Out There

The New Year was ushered in with an amazing cold snap. At 7:00AM EST on January 1st the average temperature of the 48 contiguous states was 11 degrees Fahrenheit.



Surface temperature analysis at 7 a.m. EST January 1, 2018.

The prolonged cold has led to an early Great Lakes freeze.

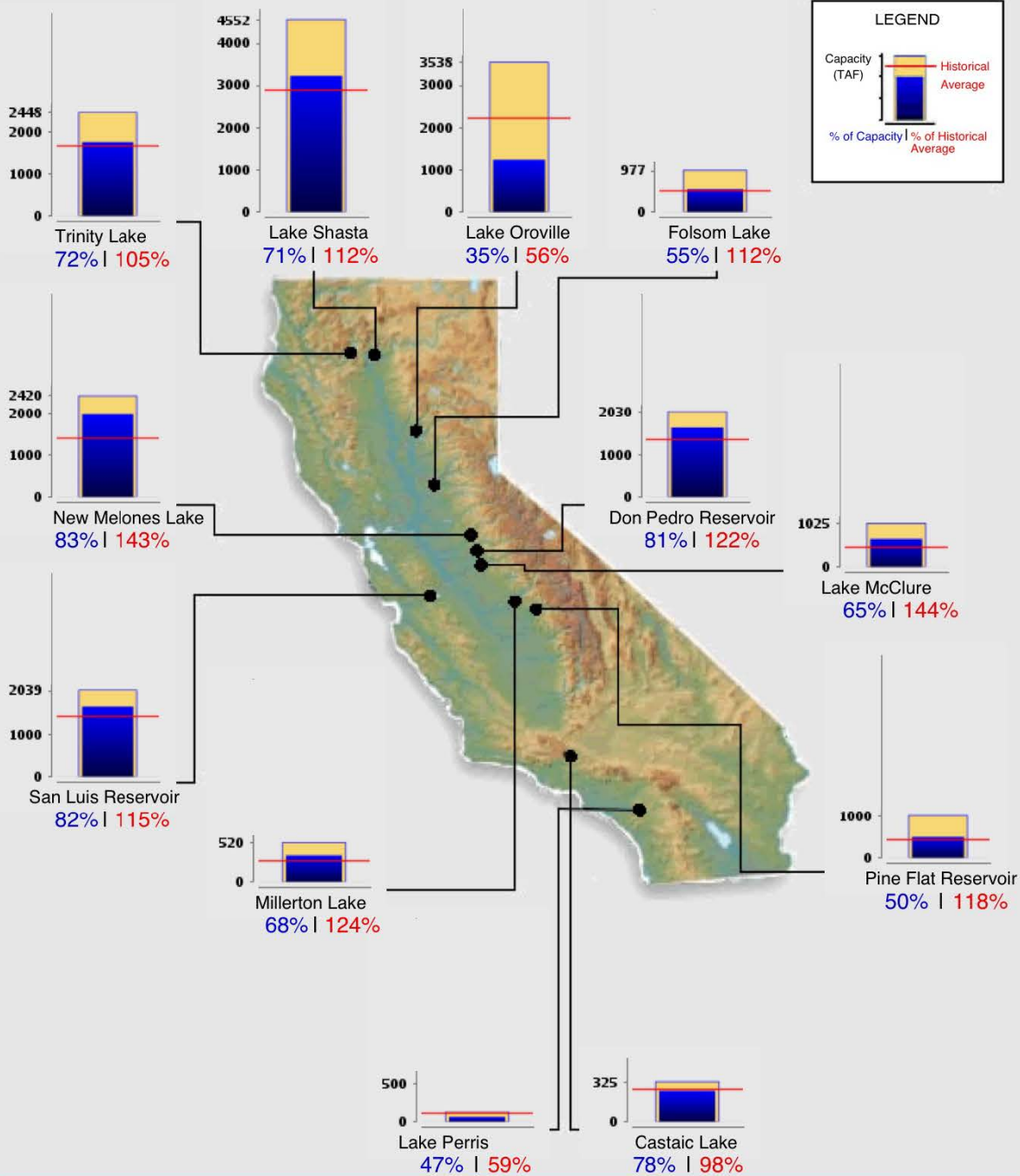


California Reservoirs Are Still Historically Full



Ending At Midnight - January 8, 2018

CURRENT RESERVOIR CONDITIONS



Graph Updated 01/09/2018 02:15 PM

MWDOC

PAL Committee

Prepared by, Best Best & Krieger, 1/15/2018

A. Priority Support/Oppose

Measure	Author	Topic	Brief Summary	Position	Priority	Notes 1
AB 1668	Friedman D	Water management planning.	Current law requires the state to achieve a 20% reduction in urban per capita water use in California by December 31, 2020. Current law requires each urban retail water supplier to develop urban water use targets and an interim urban water use target, as specified. This bill would require the State Water Resources Control Board, in coordination with the Department of Water Resources, to adopt long-term standards for the efficient use of water, as provided, and performance measures for commercial, industrial, and institutional water use on or before June 30, 2021.	Support	A. Priority Support/Oppose	
SB 606	Skinner D	Water management planning.	Current law requires the state to achieve a 20% reduction in urban per capita water use in California by December 31, 2020. Current law requires each urban retail water supplier to develop urban water use targets and an interim urban water use target, as specified. The bill would require an urban retail water supplier to calculate an urban water use objective no later than July 1, 2022, and by July 1 every year thereafter, and its actual urban water use by those same dates.	Support	A. Priority Support/Oppose	
SB 623	Monning D	Water quality: Safe and Affordable Drinking Water Fund.	Would establish the Safe and Affordable Drinking Water Fund in the State Treasury and would provide that moneys in the fund are continuously appropriated to the State Water Resources Control Board. The bill would require the board to administer the fund to secure access to safe drinking water for all Californians, while also ensuring the long-term sustainability of drinking water service and infrastructure. The bill would authorize the state board to provide for the deposit into the fund of federal contributions, voluntary contributions, gifts, grants, bequests, and settlements from parties responsible for contamination of drinking water supplies.	Opposition	A. Priority Support/Oppose	The public goods charge bill.

B. Watch

Measure	Author	Topic	Brief Summary	Position	Priority	Notes 1
AB 272	Gipson D	Water utility service: sale of water utility property by	Would permit a city that owns and operates a public utility for furnishing water service to sell the public utility for the purpose of	Watch	B. Watch	Addresses water district consolidation

		a city.	consolidating its public water system with another public water system pursuant to the procedures that are generally applicable to the sale of real property by a city, only if the city determines that it is uneconomical and not in the public interest to own and operate the public utility and if certain requirements are met.			in urban areas. Tracked because it may impact SB 623 debate.
AB 732	Frazier D	Delta levee maintenance.	Current law establishes a delta levee maintenance program pursuant to which a local agency may request reimbursement for costs incurred in connection with the maintenance or improvement of project or nonproject levees in the Sacramento-San Joaquin Delta. Current law declares legislative intent to reimburse eligible local agencies under this program, until July 1, 2018, in an amount not to exceed 75% of those costs that are incurred in excess of \$1,000 per mile of levee. Current law, until July 1, 2018, authorizes the board to provide funds to an eligible local agency under this program in the form of an advance in an amount that does not exceed 75% of the estimated state share. This bill would extend until July 1, 2020, the operation of that declaration of legislative intent and the authorization to advance funds.	Watch	B. Watch	Oppose to Watch. Amended to extended the sunset consistent with past practice.
SB 146	Wilk R	Water resources: permit to appropriate: protected species.	Under current law, the State Water Resources Control Board administers a water rights program pursuant to which the board grants permits and licenses to appropriate water. Current law prohibits the taking or possession of a fully protected fish, except as provided, and designates the unarmored threespine stickleback as a fully protected fish. This bill would prohibit the board from issuing on or after January 1, 2018, a new permit to appropriate water from any river or stream that has, or is reasonably expected to have, a population of unarmored threespine stickleback.	Watch	B. Watch	ACWA opposed. Aimed at one company. Not moving.
SB 740	Wiener D	Onsite treated water.	Would, on or before December 1, 2018, require the State Water Resources Control Board, in consultation with other state agencies, to adopt regulations, consistent with federal and state law in effect on January 1, 2018, to provide comprehensive risk-based standards for local jurisdictions permitting programs for onsite recycling of water in multifamily residential, commercial, and mixed-use buildings for nonpotable use. The bill would require the regulations to address specified issues and practices relating to the management, monitoring, and treatment of recycled water for nonpotable use.		B. Watch	

Total Measures: 7

Total Tracking Forms: 7

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
<p style="text-align: center;">AB 18 E. Garcia (D)</p> <p>Sponsor: Author</p>	<p style="text-align: center;">Amended 8/30/17</p> <p style="text-align: center;">Senate Appropriations Committee</p>	<p>California Clean Water, Climate, Coastal Protection and Outdoor Access for All Act of 2018: Enacts the California Clean Water, Climate, Coastal Protection and Outdoor Access for All Act of 2018, which places a general obligation bond of \$3.470 billion before voters at the June 5, 2018, statewide primary election.</p>	<p style="text-align: center;">SUPPORT AND SEEK AMENDMENTS based upon Board- adopted policy principles dated June 2003</p>	<p>Recognizes the need for additional state funding for water infrastructure at time when significant water investments are acutely necessary. Requested amendments include: state support for voluntary settlements with upstream water users, both for habitat improvement and flow enhancements; additional funding for development of local water supplies; increased funding for new water treatment systems, extensions of service or consolidations for non-compliant water systems located in disadvantaged communities; flood protection; and Salton Sea restoration, consistent with CNRA Salton Sea Management Plan.</p>
<p style="text-align: center;">AB 472 Frazier (D)</p> <p>Sponsor: Author</p>	<p style="text-align: center;">Amended 9/7/17</p> <p style="text-align: center;">Senate Rules Committee</p>	<p>Employer Liability: Prior amendment would have required the Department of Water Resources (DWR) to allow cover crops to remain on fallowed land, unless DWR met certain conditions. Bill now pertains to enforcement for non-serious violations by small business or microbusinesses.</p>	<p style="text-align: center;">NO LONGER OF INTEREST (9/7/17)</p>	<p>Amended bill is no longer of interest to Metropolitan.</p>

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
<p>AB 574 Quirk (D)</p> <p>Sponsor: WateReuse California and California Coastkeeper Alliance</p>	<p>Amended 9/1/17</p> <p>Signed by Governor on 10/6/17; Chapter 528, Statutes of 2017</p>	<p>Potable Reuse: Promotes water recycling by categorizing potable reuse alternatives and by establishing a clear regulatory pathway and time frame for raw water augmentation.</p>	<p>SUPPORT (3/14/17)</p>	<p>By advancing regulatory criteria that are protective of public health, AB 574 may accelerate the deployment of recycled water projects throughout California.</p>
<p>AB 732 Frazier (D)</p> <p>Sponsor: Author</p>	<p>Amended 5/30/17</p> <p>Senate Appropriations Committee</p> <p>Two-Year Bill</p>	<p>Delta Levee Maintenance: Delta levee maintenance program was established for reimbursement of costs incurred in connection with maintenance or improvement of projects or non-project levees in the Sacramento-San Joaquin Delta. AB 732 extends the current 75% state reimbursement rate for Delta levee maintenance costs in excess of \$1,000 per mile, until July 1, 2020.</p>	<p>WATCH based upon prior position on SB 554 (Wolk) from 2016</p>	<p>Metropolitan dropped its opposition to AB 732 after the Delta Stewardship Council directed staff to enter into a Memorandum of Understanding with the Central Valley Flood Protection Board (CVFPB) and DWR to develop and recommend a new set of guidelines, including a methodology and local agency requirements for evaluating a local agency's ability to pay for cost of levee maintenance or improvements under the Delta Levee Subventions Program.</p>

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
<p style="text-align: center;">AB 791 Frazier (D)</p> <p>Sponsor: Author</p>	<p>Amended 3/21/17</p> <p>Assembly Appropriations Committee</p> <p>Two-Year Bill</p>	<p>New Conveyance Facility: Would impose new and unnecessary requirements on “lead agency” (presumably DWR) to provide certain information about costs and benefits of new water delivery system improvements on a water-contractor-by-water-contractor basis <i>before</i> any water contractor could enter any contracts to fund design, construction and mitigation.</p>	<p style="text-align: center;">OPPOSE</p> <p>based upon June 2007 Board-adopted Delta Action Plan</p>	<p>Could delay construction of California WaterFix, with no added benefit to the public process or environment.</p>
<p style="text-align: center;">AB 792 Frazier (D)</p> <p>Sponsor: Author</p>	<p>Amended 1/3/18</p> <p>Assembly Water, Parks and Wildlife Committee; hearing canceled at request of author</p> <p>Two-Year Bill</p>	<p>Delta Plan: Seeks to alter the composition of the Delta Stewardship Council (DSC) so that it is dominated by in-Delta interests.</p>	<p style="text-align: center;">OPPOSE</p> <p>based upon June 2007 Board-adopted Delta Action Plan</p>	<p>Altering the composition of the DSC, as proposed in AB 792, could create a potential bias against projects that have a statewide benefit or, in contrast, in support of proposed land development within the Delta, which was identified by the DSC in the Delta Plan as among the threats to the region. A disproportionate representation of local jurisdictions that have been opposed to the DSC and Delta Plan risk the state achieving the co-equal goals of a restored Delta and a reliable water supply for California.</p>

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
<p style="text-align: center;">AB 793 Frazier (D)</p> <p>Sponsor: Author</p>	<p style="text-align: center;">Amended 3/27/17</p> <p style="text-align: center;">Assembly Water, Parks and Wildlife Committee</p> <p style="text-align: center;">Two-Year Bill</p>	<p>Sacramento-San Joaquin Delta – Financing: Would declare it state policy that the <u>existing</u> Sacramento-San Joaquin Delta be recognized and defined as an integral component of California's water infrastructure. Would state also that the maintenance and repair of Delta are eligible for same forms of financing as other water collection and treatment infrastructure and specifies that eligible maintenance and repair activities be limited to certain cleanup-and-abatement-related restoration and conservation activities.</p>	<p style="text-align: center;">OPPOSE based upon June 2007 Board-adopted Delta Action Plan</p>	<p> Ignores the fact that the Delta, in its <u>current</u> state, has not been developed as a “water collection or treatment facility.” The current configuration of levees was largely completed in the early 20th century to reclaim swamp and overflow land for farming or other uses. Thus, the declaration of intent is contrary to reality and is not a sound basis for infrastructure financing.</p>
<p style="text-align: center;">AB 869 Rubio (D)</p> <p>Sponsor: Author</p>	<p style="text-align: center;">Amended 8/24/17</p> <p style="text-align: center;">Senate Natural Resources and Water Committee</p> <p style="text-align: center;">Two-Year Bill</p>	<p>Recycled Water: Would require long-term standards for urban water use conservation and water use to include credit for recycled water, as specified. Would state that water conservation does not include curtailment of use of recycled water. Would prohibit urban retail water supplier from being required to reduce amount of recycled water it produces, sells or distributes for beneficial potable or nonpotable uses during period when water conservation measures are in effect.</p>	<p style="text-align: center;">SUPPORT IF AMENDED based upon Board-adopted legislative policy priorities dated 5/8/17</p>	<p>AB 869 is consistent with provisions found in SB 606 (Skinner/Hertzberg) and AB 1668 (Friedman) Metropolitan, with a few distinctions. Recognizes that recycled water is an efficient use and should be treated as such in any new water use efficiency targets, although expands credit specified in SB 606 and AB 1668 to include nonpotable recycled water. Attempts to override authority extended to Governor under Emergency Services Act regarding curtailment of potable and nonpotable recycled water.</p>

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
<p align="center">AB 968 Rubio (D)</p> <p>Sponsor: Regional Water Authority and Irvine Ranch Water District</p>	<p align="center">Amended 4/17/17</p> <p align="center">Assembly Appropriations Committee</p> <p align="center">Two-Year Bill</p>	<p>Water Use Efficiency Targets: Defines “water efficiency target” as a target developed by an urban retail water supplier for 2025 water efficiency in its 2020 urban water management plan. Requires each urban retail water supplier to adopt one of three methods for determining water efficiency targets. Maintains the existing exclusion of recycled water from the calculation of base daily per capita water use. Requires Dept. of Water Resources, in consultation with the State Water Resources Control Board, to, by July 1, 2018, convene a task force for the purposes of recommending appropriate performance measures for the commercial, industrial and institutional sectors.</p>	<p align="center">SUPPORT based upon Board-adopted legislative policy priorities dated 5/8/17</p>	<p>Preserves the legislative process for setting water-use efficiency goals and recognizes the role of state agencies to implement a detailed framework consistent with the goals. Supports multiple compliance methods that includes a water-budget based target-setting approach in addition to other methods that could be customized to unique local conditions and could be equally effective in reducing water use.</p>
<p align="center">AB 1270 Gallagher (R)</p> <p>Sponsor: Author</p>	<p align="center">Amended 9/12/17</p> <p align="center">Senate Inactive File</p>	<p>Dams and Reservoirs – Inspections and Reporting: Completely rewritten to require inspection of dams, reservoirs and critical appurtenant structures within jurisdiction of Division of Safety of Dams (DSOD) once per fiscal year, except for low hazard dams that would require inspections at least every two fiscal years. Dam inspection reports would be subject to California Public Records Act. Also requires DSOD, in consultation with independent, national dam safety and dam safety risk management organizations to, on or before January 1, 2019, and every ten years thereafter propose amendments to existing dam safety regulations to incorporate updated best practices.</p>	<p align="center">WATCH (9/8/17)</p>	<p>Bill was recently amended. Still contains language to address concerns regarding the posting and protection of sensitive information.</p>

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
<p>AB 1323 Weber (D)</p> <p>Sponsor: San Diego County Water Authority</p>	<p>Amended 5/30/17</p> <p>Senate Appropriations Committee</p> <p>Two-Year Bill</p>	<p>Water Efficiency Targets: Provides that if a statute is not chaptered during 2017-18 legislative session to establish water conservation targets and long-term drought contingency planning, DWR shall convene stakeholder workgroup by February 1, 2019, to develop, evaluate and recommend proposals for establishing new water use targets for urban retail water suppliers.</p>	<p>SUPPORT based upon Board-adopted legislative policy priorities dated 5/8/17</p>	<p>Metropolitan supports state agency implementation of a framework consistent with the water use efficiency goals set by the Legislature by working through a stakeholder process to ensure the goals are met in a way that recognizes the unique challenges of agencies throughout California.</p>
<p>AB 1427 Eggman (D)</p> <p>Sponsor: Stockton-East Water District</p>	<p>Amended 3/21/17</p> <p>Assembly Appropriations Committee</p> <p>Two-Year Bill</p>	<p>Water – Underground Storage: Amends Water Code Section 1242 to declare that storing water underground, including diverting surface water for storage, for purposes including, but not limited to, protection of water quality or recovery of groundwater levels, are beneficial uses. Also states that existing forfeiture provisions for non-use of water for a period of longer than five years would not apply.</p>	<p>OPPOSE UNLESS AMENDED based upon prior opposition to AB 647 (Eggman) from 2015</p>	<p>Must include safeguards to ensure that permanent underground storage is implemented in reasonable manner. SWRCB must confirm that flows are not already otherwise appropriated or diverted at times when federal Central Valley Project and State Water Project are required to release supplemental project water to meet water quality objectives in Delta watershed. Additional amendments are necessary to ensure alignment with Groundwater Management Sustainability Act of 2014.</p>

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
<p>AB 1654 Rubio (D)</p> <p>Sponsor: Regional Water Authority and Irvine Ranch Water District</p>	<p>Amended 7/12/17</p> <p>Senate Rules Committee</p>	<p>Drought Contingency Planning: As a step towards developing a single legislative proposal, the bill was amended in the Senate Natural Resources and Water Committee to state the intent of the Legislature to enact legislation necessary to help make water conservation a California way of life.</p>	<p>WATCH based upon Board-adopted legislative policy priorities dated 5/8/17</p>	<p>Author declined to incorporate work product stemming from legislative negotiations during summer recess [see summary of SB 606 (Skinner/Hertzberg) and AB 1668 (Friedman)].</p>
<p>AB 1667 Friedman (D)</p> <p>Sponsor: Author</p>	<p>Amended 7/3/17</p> <p>Senate Natural Resources and Water Committee</p> <p>Two-Year Bill</p>	<p>Water Management Planning: Reflects the Brown Administration’s June 2017 proposal to implement Executive Order B-37-16 and the framework contained in the report Making Water Conservation a California Way of Life for urban and agricultural water usage and drought planning.</p>	<p>SUPPORT IF AMENDED based upon Board-adopted legislative policy priorities dated 5/8/17</p>	<p>AB 1667 is consistent, in part, with the policy priorities adopted by Metropolitan’s board. There are specific provisions, however, that require revisions to merit full support.</p>

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
<p style="text-align: center;">AB 1668 Friedman (D)</p> <p style="text-align: center;">Sponsor: Author</p>	<p style="text-align: center;">Amended 9/8/17</p> <p style="text-align: center;">Senate Rules Committee</p>	<p>Water Management Planning: Proposes targets for indoor residential water use and performance measures for CII water. References the Model Water Efficient Landscape Ordinance for outdoor water use. Also clarifies SWRCB enforcement authority for non-compliance; updates agricultural water use efficient requirements; and provides for countywide and small system drought planning.</p>	<p style="text-align: center;">SUPPORT based upon Board-adopted legislative policy priorities dated 5/8/17</p>	<p>AB 1668 recognizes the Legislature’s critical role in providing appropriate oversight to implementation of water conservation efforts by the Department of Water Resources and the State Water Resources Control Board, while preserving local decision making. Bill includes a water-budget based target-setting approach that could be customized to unique location conditions and could be equally effective in reducing water use.</p>
<p style="text-align: center;">AB 1669 Friedman (D)</p> <p style="text-align: center;">Sponsor: Author</p>	<p style="text-align: center;">Amended 4/18/17</p> <p style="text-align: center;">Assembly Appropriations Committee</p> <p style="text-align: center;">Two-Year Bill</p>	<p>Water Use Efficiency Targets: Requires the State Water Resources Control Board (SWRCB), in consultation with the Department of Water Resources (DWR), to adopt long-term standards for urban water conservation and water use by May 20, 2021. Specifically, this bill requires the long-term standard to include indoor residential water use, outdoor irrigation water use, as specified, and industrial, institutional and commercial water use. Allows the SWRCB, in consultation with DWR, to adopt and update interim standards for urban water conservation and water use.</p>	<p style="text-align: center;">OPPOSE UNLESS AMENDED based upon Board-adopted legislative policy priorities dated 5/8/17</p>	<p>AB 1669, in many areas, conflicts with the policy priorities adopted by Metropolitan’s board. The bill grants authority to a state agency to issue interim standards through emergency regulations outside of a Governor-declared emergency. The bill does not protect existing water rights; provides for only one compliance path; fails to recognize recycled water as an efficient use of water; and proposes water use reduction targets for the commercial, industrial and institutional sector rather than pursuing a performance-based approach.</p>

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
<p align="center">SB 5 DeLeon (D)</p> <p>Sponsor: Author</p>	<p>Amended 9/10/17</p> <p>Signed by Governor on 10/15/17</p>	<p>California Drought, Water, Parks, Climate, Coastal Protection and Outdoor Access for All Act of 2018: Enacts the Drought, Water, Parks, Climate, Coastal Protection and Outdoor Access for All Act of 2018, which places a general obligation bond of \$3.5 billion before voters at the June 5, 2018, statewide primary election.</p>	<p align="center">SUPPORT</p> <p>based upon Board-adopted policy principles dated June 2003</p>	<p>Recognizes the need for additional state funding for water infrastructure at time when significant water investments are acutely necessary. Program funding includes state support for voluntary settlements with upstream water users, both for habitat improvement and flow enhancements; additional funding for development of local water supplies; increased funding for new water treatment systems, extensions of service or consolidations for non-compliant water systems located in disadvantaged communities; flood protection; and Salton Sea restoration, consistent with CNRA Salton Sea Management Plan.</p>
<p align="center">SB 80 Wieckowski (D)</p> <p>Sponsor: Author</p>	<p>Amended 6/21/17</p> <p>Vetoed on 10/16/17</p>	<p>California Environmental Quality Act: Would have required the preparation, filing and posting on the internet of Notices of Exemption that the California Natural Resources Agency has categorically exempted from CEQA because said actions have no significant adverse impact.</p>	<p align="center">OPPOSE</p> <p>based upon January 2017 Board-adopted State Legislative Priorities</p>	<p>Would have required public agencies to prepare, file and post on the internet dozens, if not hundreds, of additional Notices of Exemption every month for every discretionary action that would cause any change in the physical environment, regardless how insignificant. Although the Governor agreed with the author's desire to provide greater transparency, he vetoed the bill as he felt the current CEQA process already is very detailed and requires an incredible amount of notice.</p>

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
SB 92 Senate Budget and Fiscal Review Committee Budget Trailer Bill	Chapter 26, Statutes of 2017 Signed by Governor on 6/27/17; Chapter 26, Statutes of 2017	Resources Trailer Bill: Sections 60-61, 64, 84-94 and 102 provide the Department of Water Resources (DWR) with new authorities that are in alignment with recommended best practices for dams and appurtenant structures from the Federal Emergency Management Agency and the Association of State Dam Safety Officials.	SUPPORT (6/13/17)	SB 92 strengthens DWR’s regulatory powers and oversight. Further, the requirement for regularly updated inundation maps and emergency action plans will improve emergency planning for neighboring communities.
SB 224 Jackson (D) Sponsor: Author	Amended 1/3/18 Senate Judiciary Committee Date of Hearing: 1/9/18	Personal Rights: Sexual Harassment: Would include an investor, elected official, lobbyist, director and producer among those listed persons who may be liable to a plaintiff for sexual harassment.	PENDING	Metropolitan staff reviewing and analyzing current version of bill.

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
<p align="center">SB 231 Hertzberg (D)</p> <p>Sponsor: Water Foundation</p>	<p align="center">Amended 4/19/17</p> <p align="center">Signed by Governor on 10/6/17; Chapter 536, Statutes of 2017</p>	<p>Local Government - Fees and Charges: Provides a definition of "sewer" that predates Proposition 218 and treats fees for stormwater like all other water and sewer fees. Seeks to clarify where stormwater and flood control systems may overlap with water and sewer systems for which Proposition 218 requires a lower approval threshold. SB 231 does not change the CA Constitution's mandate for rigorous oversight of water and sewer fees, including reports, hearings and protest votes.</p>	<p align="center">SUPPORT (4/11/17)</p>	<p>Stormwater is an important source of local water supply and careful management is necessary to reduce pollution. Currently, property-related fees to fund stormwater and flood control programs, not associated with water supply, require a higher approval standard than property-related fees for other water services.</p>
<p align="center">SB 606 Skinner (D) and Hertzberg (D)</p> <p>Sponsor: Authors</p>	<p align="center">Amended 9/6/17</p> <p align="center">Assembly Floor</p> <p align="center">Two-Year Bill</p>	<p>Water Management Planning: Provides for the calculation of water use objectives by urban retail water supplies. Specifies SWRCB enforcement tools and timelines. Contains revisions to UWMP reporting and filing requirements. Provides for preparation of Water Shortage Contingency Plans and annual water supply and demand assessment by urban wholesale and retailer water suppliers. Measure also recognizes that recycled water is an efficient use and should be treated as such in the calculation for new water-use efficiency targets.</p>	<p align="center">SUPPORT based upon Board-adopted legislative policy priorities dated 5/8/17</p>	<p>Preserves the legislative process for setting water-use efficiency goals yet recognizes the role of state agencies to implement a detailed framework consistent with those goals. Bill contains numerous opportunities for stakeholder engagement to ensure requirements of the measure are met in a way that recognizes the unique challenges of water agencies throughout California. SB 606 preserves local and regional decision-making and control in determining actions to avoid shortage or mitigate shortage impacts.</p>

**Metropolitan Water District of Southern California
State Legislation Matrix 1/8/2018**

Bill Number Author	Amended Date; Location	Title-Summary	MWD Position	Effects on Metropolitan
<p style="text-align: center;">SB 623 Monning (D)</p> <p>Sponsor: Community Water Center and Western Growers Association</p>	<p style="text-align: center;">Amended 8/21/17</p> <p style="text-align: center;">Assembly Rules Committee</p> <p style="text-align: center;">Two-Year Bill</p>	<p>Safe and Affordable Drinking Water Fund: Would establish the Safe and Affordable Drinking Water Fund to assist communities and individual domestic well owners who lack access to safe drinking water, particularly those in small, rural disadvantaged communities. Fund may pay for replacement water; domestic well testing and investigations; planning, construction, operation and maintenance costs for system improvements; and outreach to eligible communities. Revenue for the Fund would come from an agricultural fee on fertilizer sales and dairy operations and a permanent tax on ratepayers of urban retail water systems.</p>	<p style="text-align: center;">OPPOSE UNLESS AMENDED based upon December 2017 Board-adopted State Legislative Priorities</p>	<p>Generally speaking, the water industry agrees with the intent of SB 623. The lack of access to safe drinking water in certain disadvantaged communities is a public health and social issue that the state must address. Potential revenue sources identified for the Fund should reflect the “beneficiary pays” principle, as opposed to a fee or assessment levied on water agencies for funding the broader public benefits.</p>

ETWD Education Outreach January 23, 2018

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

Drought Log

Lupe and Maria continue to update the drought response log for customer service. This includes phone calls, walk-ins and emails regarding water waste complaints and ETWD's permanent mandatory conservation measure inquiries. There were no waste complaints for the month of December.

Messaging/Materials

January/February bill message: "Take advantage of the recent rains by turning off your sprinklers for at least a week after the rains and adjust your irrigation timers during these cooler months."

RWEP Phase II

Construction street alerts and the LWV TV-6 commercial continue. Dennis is scheduled to filming a second commercial with Media 55 on February 1, 2018. The new commercial is estimated to be airing mid-February.

Demonstration Garden

Staff is working on having the interpretive garden signs installed. The Demonstration Garden dedication is scheduled for March 30, 2018 at 10:30 a.m. Staff is working on the details of the event. Staff is also working with Communications Lab on an invitation list and inviting local electeds.

City Councils

Staff has distributed congratulatory letters to all newly elected city council members for City of Laguna Woods, City of Laguna Hills, City of Mission Viejo and the City of Aliso Viejo. Once the City of Lake Forest has reorganized, letters will be sent to those newly electeds.

Director Monin presented an ETWD resolution to Marilyn Thoms at the City of Laguna Woods Council meeting on January 17, 2018.

Education Program Update

Abiding Savior Lutheran Elementary school water education presentation is scheduled for February 6, 2018.

The “What About Water?” Inside the Outdoors high school program for El Toro High School are scheduled for March 7 and March 22, 2018 during the day. The high school expo is scheduled the evening of April 11, 2018.

**EL TORO WATER DISTRICT
CONSERVATION PROGRAM
Monthly
Status Report
January 23, 2018**

REBATE PROGRAMS

The following tables are the current device rebate amounts for MET, MWDOC and ETWD for the fiscal year 2017/18.

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

1) Residential Rebate Program:

Device	MET Rebate	MWDOC Grant	ETWD Rebate	Total Rebate (up to)
High Efficiency Clothes Washer (WF-water factor 4.0 or less)	\$85		\$65	\$150
Premium High Efficiency Toilet (1.08 gpf or less)	\$40		\$35	\$75
Rotating Sprinkler Nozzles	\$2 ea		\$1	\$3
Smart Irrigation Timer	\$80	\$100	\$70	\$250
Turf Removal (up to 2,000 sq ft)*		\$1 sq. ft.	\$1 sq. ft.	\$2 sq. ft.
Soil Moisture Sensor System <1 Acre >1 Acre	\$80 \$35/station	\$100	\$70	\$250 \$35/station
Rain Barrels – 1/1 – 6/30/17 Cisterns (200 -500 gallon) (501-999 gallon) (1,000 gallon or more)	\$35 \$250 \$300 \$350		\$15	\$50 \$250 \$300 \$350
Drip Irrigation (up to 3 kits)	Up to \$175 per kit			\$175

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

2) Commercial Plumbing/Irrigation Devices Rebate Program:

Device	MET Rebate	MWDOC Grant	ETWD Rebate	Total Rebate (up to)
Premium High Efficiency Toilet (4 liter)	\$40			\$40
Multi-family Premium High Efficiency Toilet (4 liter)	\$40			\$40
Zero Water/Ultra Low Water Urinal	\$200			\$200
Plumbing Flow Control Valve (min. 10)	\$5			\$5
Smart Irrigation Timer (weather based or central computer)	\$35/station			\$35/station
Rotating Sprinkler Nozzles (minimum quantity of 15)	\$2		\$1	\$3
Rotating Nozzles – Large Rotary	\$13			\$13
Turf Removal (up to 25,000 sq ft)*		\$1 sq. ft.		\$1 sq. ft.
Soil Moisture Sensor System	\$35/station			\$35/station

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

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 December 2017 year-to-date sales, residential accounted for 59% of the overall Tier 3 usage and dedicated irrigation accounted for 61% of Tier 4 usage.](#)

TOTAL CONSUMPTION COMPARISON TO EVAPOTRANSPIRATION (ET) FACTOR

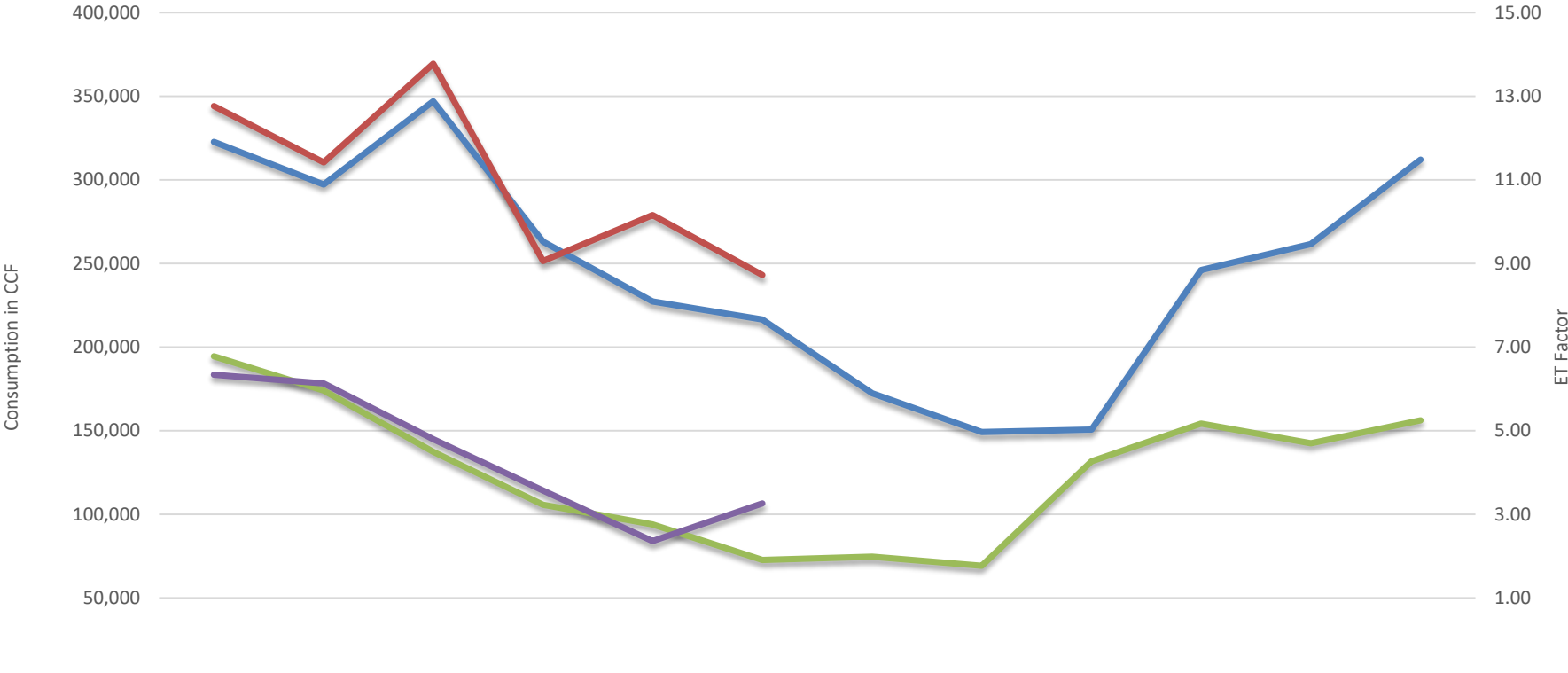
Included in this month's Conservation Report is a chart comparing the current fiscal year 2017/18 consumption and ET factor to the fiscal 2016/17 consumption and ET factor. [The ET factor increased 70.7% from December 2016 when compared to December 2017. There was a 12% increase in consumption reflected in December 2017.](#)

**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.

**By: Sherri Seitz
Date: January 17, 2018**

Total Consumption Comparison



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
2016-2017	322,764	297,273	346,995	263,120	227,277	216,478	172,428	149,232	150,697	246,036	261,524	312,014
2017-2018	344,078	310,451	369,472	251,478	278,939	243,123						
16/17 ET	6.78	5.96	4.50	3.23	2.76	1.91	1.99	1.77	4.27	5.17	4.70	5.25
17/18 ET	6.34	6.13	4.80	3.57	2.36	3.26						
%	107%	104%	106%	96%	123%	112%	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	13	40.3	13.1	\$37,955
High Efficiency Clothes Washers--Residential	2001	17	20.8	6.8	\$19,575
*SoCal Water Smart Commercial Plumbing Fixtures Rebate Program (ULFT's, HET's, Urinals, HECW, Cooling Tower Conductivity Controllers)	2002	16	40.9	13.3	\$38,491
**Water Smart Landscape Program - Ended 2016	1997	20	242.9	79.2	\$228,594
SmarTimer Program--Irrigation Timers	2004	14	176.9	57.7	\$166,481
Synthetic Turf Rebate Program-Ended 2011	2007	8	0.9	0.3	\$847
Rotating Nozzles Rebate Program	2007	11	108.3	35.3	\$101,921
Turf Removal Program	2010	8	40.6	13.2	\$38,209
Computer Controlled Irrigation System--Gate 11--Ended 2006	2001	6	8.9	2.9	\$8,357
***Ultra Low Flush Toilets (ULFT)--Ended 2009	1992	16	193.2	58.0	\$167,487
Totals			873.7	284.7	\$822,250

* 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 284.7 million gallons of water per year.

Rain Barrels by Agency

Agency	Jul-17		Aug-17		Sep-17		Oct-17		Total Program		FY 13/14		FY 14/15		FY 15/16	
	Res	CII	Res	CII	Res	CII	Res	CII	Res	CII	Res	CII	Res	CII	Res	CII
Brea			2		-		0		86	-	-	-	15	-	61	-
Buena Park	1		2		-		0		189	-	5	-	9	-	148	-
East Orange			-		-		0		39	-	8	-	8	-	23	-
El Toro			-		-		1		101	-	5	-	4	-	78	-
Fountain Valley	3		1		-		3		383	-	8	-	22	-	210	-
Garden Grove	2		3		2		3		335	-	16	-	34	-	237	-
Golden State WC			2		-		3		508	-	14	-	43	-	239	-
Huntington Beach	4		3		-		2		1,200	-	147	-	294	-	700	-
Irvine Ranch	3		9		-		0		994	-	21	-	101	-	778	-
La Habra			-		-		0		70	-	12	-	15	-	39	-
La Palma			-		-		0		8	-	-	-	-	-	4	-
Laguna Beach			-		1		0		439	-	67	-	279	-	85	-
Mesa Water	5		-		-		1		339	-	8	-	64	-	229	-
Moulton Niguel			4		-		0		402	-	2	-	74	-	259	-
Newport Beach	1		1		-		0		66	-	3	-	4	-	52	-
Orange	5		2		-		3		374	-	8	-	41	-	284	-
San Juan Cap			2		-		1		289	-	20	-	70	-	192	-
San Clemente			1		-		0		163	-	7	-	54	-	95	-
Santa Margarita	3		-		-		3		348	-	30	-	29	-	237	-
Santiago			-		-		0		-	-	-	-	-	-	-	-
Seal Beach			-		-		0		69	-	8	-	20	-	37	-
Serrano			-		-		0		40	-	-	-	11	-	21	-
South Coast	1		-		-		0		181	-	14	-	97	-	55	-
Trabuco Canyon			-		-		0		57	-	-	-	11	-	44	-
Tustin			1		-		0		235	-	9	-	23	-	175	-
Westminster			10		-		0		204	-	5	-	8	-	118	-
Yorba Linda			-		-		0		228	-	5	-	20	-	185	-
MWDOC Totals	28	-	43	-	3	-	20	-	7,347	-	422	-	1,350	-	4,585	-
Anaheim			-		-		0		292	-	12	-	27	-	235	-
Fullerton			-		-		0		219	-	16	-	13	-	171	-
Santa Ana			-		-		0		239	-	8	-	46	-	154	-
Non-MWDOC Totals	-	-	-	-	-	-	0	-	750	-	36	-	86	-	560	-
OC Totals	28	-	43	-	3	-	20	-	8,097	-	458	-	1,436	-	5,145	-

Orange County

Water Use Efficiency Programs Savings and Implementation Report

Retrofits and Acre-Foot 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	October-17	290	0.83	1,347	10.94	114,259	3,942	26,910
Smart Timer Program - Irrigation Timers	2004	October-17	169	1.22	911	44.83	21,396	7,825	46,482
Rotating Nozzles Rebate Program	2007	October-17	108	0.43	607	2.43	563,425	2,760	18,322
SoCal WaterSmart Commercial Plumbing Fixture Rebate Program	2002	October-17	239	0.74	1,996	17.89	87,275	4,752	44,186
Industrial Process Water Use Reduction Program	2006	October-17	0	0.00	0	0.00	28	582	2,529
Turf Removal Program ^[3]	2010	October-17	103,767	1.21	241,614	5.94	21,147,215	2,961	10,219
High Efficiency Toilet (HET) Program	2005	October-17	44	0.16	219	3.13	59,866	2,213	16,713
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 ^[2]	1992						363,926	13,452	162,561
Home Water Surveys ^[2]	1995						11,867	160	1,708
Showerhead Replacements ^[2]	1991						270,604	1,667	19,083
Total Water Savings All Programs			5	246,694	85	23,338,288	51,038	421,865	

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

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

(3) Turf Removal Interventions are listed as square feet.

(4) 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 11/12	FY 12/13	FY13/14	FY14/15	FY15/16	FY16/17	FY17/18	Total	Current FY Water Savings Ac/Ft (Cumulative)	Cumulative Water Savings across all Fiscal Years	15 yr. Lifecycle Savings Ac/Ft
Brea	144	93	115	114	76	57	13	1,880	0.09	448.98	973
Buena Park	145	105	106	91	76	54	16	1,534	0.15	351.08	794
East Orange CWD RZ	10	10	8	8	8	3	-	192	0.00	48.55	99
El Toro WD	112	134	121	111	65	47	14	1,535	0.11	353.39	794
Fountain Valley	158	115	102	110	76	65	17	2,417	0.16	597.52	1,251
Garden Grove	236	190	162	165	251	127	25	3,588	0.24	844.67	1,857
Golden State WC	485	265	283	359	260	138	60	5,075	0.47	1,194.84	2,626
Huntington Beach	582	334	295	319	225	180	54	8,300	0.43	2,087.00	4,295
Irvine Ranch WD	2,170	1,763	1,664	1,882	1,521	1,373	483	25,149	3.91	5,627.01	13,013
La Habra	128	82	114	87	66	53	16	1,343	0.16	307.12	695
La Palma	46	34	25	34	29	10	8	466	0.05	106.34	241
Laguna Beach CWD	57	38	37	39	32	19	9	941	0.08	228.79	487
Mesa Water	176	114	86	89	113	80	20	2,538	0.17	637.17	1,313
Moulton Niguel WD	679	442	421	790	688	575	183	10,104	1.48	2,250.26	5,228
Newport Beach	142	116	92	95	66	61	20	2,644	0.16	678.63	1,368
Orange	262	218	163	160	124	80	26	3,924	0.22	992.65	2,030
Orange Park Acres	-	-	-	-	-	-	-	12	0.00	3.76	6
San Juan Capistrano	110	76	73	92	63	33	15	1,474	0.12	351.02	763
San Clemente	206	140	94	141	75	70	35	2,655	0.29	635.66	1,374
Santa Margarita WD	679	553	662	792	466	367	101	9,617	0.79	2,196.28	4,976
Seal Beach	51	31	29	38	23	9	7	609	0.05	145.92	315
Serrano WD	20	13	10	26	8	11	2	359	0.01	90.40	186
South Coast WD	112	89	79	68	43	44	14	1,598	0.14	380.47	827
Trabuco Canyon WD	62	30	45	47	34	28	7	805	0.06	189.51	417
Tustin	97	78	59	80	66	44	16	1,628	0.12	401.92	842
Westminster	208	121	82	109	149	84	23	2,609	0.19	623.26	1,350
Yorba Linda	273	181	167	156	123	56	21	3,773	0.15	952.04	1,952
MWDOC Totals	7,350	5,365	5,094	6,002	4,726	3,668	1,205	96,769	9.81	22,724.26	18,695
Anaheim	477	331	285	295	266	213	71	10,753	0.56	2,605.75	5,564
Fullerton	270	200	186	211	165	107	34	3,729	0.28	808.19	1,929
Santa Ana	190	163	131	132	259	141	37	3,008	0.29	771.53	1,556
Non-MWDOC Totals	937	694	602	638	690	461	142	17,490	1.13	4,185.48	3,379
Orange County Totals	8,287	6,059	5,696	6,640	5,416	4,129	1,347	114,259	10.94	26,909.73	22,074

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

Agency	FY 11/12		FY 12/13		FY 13/14		FY 14/15		FY 15/16		FY16/17		FY17/18		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	8	0	9	8	4	0	43	6	20	4	31	4	13	0	144	80	521.72
Buena Park	4	19	3	0	0	0	4	10	7	4	10	7	9	1	40	42	147.67
East Orange CWD RZ	5	0	2	0	0	0	2	0	1	0	11	1	4	0	29	1	18.80
El Toro WD	26	2	7	2	11	0	8	9	9	17	33	8	13	0	128	355	2,476.50
Fountain Valley	8	2	3	2	4	0	7	10	13	1	33	12	10	0	101	40	178.65
Garden Grove	7	0	5	2	9	0	10	14	13	11	28	0	15	0	116	38	173.20
Golden State WC	13	3	9	49	9	25	39	12	35	16	56	37	40	5	265	197	812.43
Huntington Beach	15	4	18	33	20	35	19	2	42	12	88	94	29	30	301	298	1,061.60
Irvine Ranch WD	267	71	414	135	71	59	67	310	239	207	344	420	127	56	1,896	2,342	11,330.93
La Habra	3	0	4	7	2	0	4	7	3	1	12	7	4	0	40	44	203.18
La Palma	1	0	1	0	2	0	2	0	3	2	1	0	2	0	12	2	5.98
Laguna Beach CWD	109	2	76	2	71	0	86	0	86	1	27	0	5	0	502	20	235.04
Mesa Water	21	0	10	2	15	2	17	28	36	12	149	41	13	0	331	154	733.07
Moulton Niguel WD	179	31	51	74	40	45	46	95	163	100	236	129	131	9	1,045	810	3,577.28
Newport Beach	275	12	242	26	168	75	11	9	28	43	30	12	13	0	1,051	409	2,615.40
Orange	25	0	20	24	13	9	18	31	51	13	69	10	28	12	313	177	936.09
San Juan Capistrano	103	2	14	18	6	11	6	19	20	8	22	8	12	0	234	125	642.45
San Clemente	212	17	26	7	28	2	28	24	26	3	37	13	17	0	1,068	374	2,655.49
Santa Margarita WD	262	7	53	171	64	93	53	321	189	136	326	221	110	86	1,264	1,458	5,671.10
Santiago CWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Seal Beach	0	3	1	0	1	36	1	12	2	2,446	2	4	5	0	12	2,502	5,119.58
Serrano WD	3	0	1	0	0	0	4	0	11	2	4	0	3	0	41	2	13.96
South Coast WD	78	10	13	16	8	4	104	73	9	11	7	0	7	0	285	212	1,147.62
Trabuco Canyon WD	12	0	6	0	2	0	6	1	16	50	13	3	11	0	114	157	950.38
Tustin	11	0	8	4	9	1	18	14	33	8	33	23	11	1	154	81	339.47
Westminster	2	0	1	1	2	0	13	17	7	1	17	12	9	0	74	44	197.20
Yorba Linda	22	0	20	0	12	5	32	2	61	27	72	71	27	2	365	185	827.01
MWDOC Totals	1,671	185	1,017	583	571	402	648	1,026	1,123	3,136	1,691	1,137	668	202	9,925	10,149	42,591.78

Anaheim	23	60	19	10	9	26	7	52	30	34	87	10	22	0	266	457	2,606.44
Fullerton	22	51	9	29	8	0	40	26	32	12	53	7	16	0	215	199	933.90
Santa Ana	6	5	8	19	7	8	9	27	22	26	15	3	3	0	85	100	350.07
Non-MWDOC Totals	51	116	36	58	24	34	56	105	84	72	155	20	41	0	566	756	3,890.41

Orange County Totals	1,722	301	1,053	641	595	436	704	1,131	1,207	3,208	1,846	1,157	709	202	10,491	10,905	46,482
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ROTATING NOZZLES INSTALLED BY AGENCY
through MWDOC and Local Agency Conservation Programs

Agency	FY 11/12			FY 12/13			FY 13/14			FY 14/15			FY 15/16			FY 16/17			FY 17/18			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	130	0	0	65	120	0	84	0	0	157	45	0	74	2,484	0	0	0	0	0	0	0	572	2,749	0	49.46
Buena Park	32	0	0	65	0	0	53	0	0	248	0	0	45	98	0	0	0	0	0	0	0	509	173	2,535	813.11
East Orange	340	0	0	55	0	0	30	0	0	221	0	0	0	0	0	0	0	0	30	0	0	781	0	0	19.29
El Toro	357	76	0	23	6,281	0	56	3,288	0	1,741	28,714	0	730	4,457	0	55	242	0	0	0	0	3,369	46,222	890	1,191.53
Fountain Valley	108	0	0	35	0	0	0	0	0	107	0	0	222	0	0	0	0	0	0	0	0	710	0	0	17.21
Garden Grove	119	0	0	95	0	0	80	0	0	88	50	0	110	0	0	55	98	0	0	0	0	933	299	0	32.52
Golden State	294	0	0	257	2,595	0	192	0	0	583	1,741	0	1,088	0	0	207	6,008	0	33	0	0	3,481	11,316	0	241.91
Huntington Beach	458	0	0	270	0	0	120	0	0	798	1,419	0	1,345	2,836	0	149	3,362	0	0	0	0	3,797	12,526	2,681	1,310.95
Irvine Ranch	1,715	4,255	0	25,018	1,014	0	11,010	4,257	0	1,421	632	0	1,989	5,047	0	335	9,511	0	98	0	0	47,235	94,561	2,004	4,744.87
La Habra	33	90	0	0	0	0	15	0	0	109	338	0	300	0	0	0	0	0	0	0	0	481	1,236	900	365.97
La Palma	0	0	0	0	0	0	0	0	0	0	0	0	46	505	0	0	2,385	0	0	0	0	56	2,890	0	26.08
Laguna Beach	763	0	0	3,596	0	0	2,948	878	0	2,879	1,971	0	1,390	0	0	0	0	0	0	0	0	12,139	2,896	0	301.19
Mesa Water	297	277	0	270	0	0	361	0	0	229	0	0	166	0	0	113	0	0	0	0	0	2,030	385	343	195.15
Moulton Niguel	1,225	0	0	512	1,385	0	361	227	0	1,596	4,587	0	5,492	1,441	0	153	5,872	0	185	0	0	12,059	20,515	2,945	1,689.15
Newport Beach	640	3,273	0	25,365	50	0	19,349	6,835	0	460	3,857	0	348	670	0	0	0	0	45	0	0	46,723	21,413	0	1,584.28
Orange	343	0	0	264	0	0	245	120	0	304	668	0	631	91	0	0	0	0	0	0	0	3,170	1,072	0	109.25
San Juan Capistrano	949	0	0	684	30	0	370	0	0	495	737	0	310	593	0	75	123	0	0	0	0	5,495	8,852	0	445.50
San Clemente	4,266	117	1,343	631	172	0	415	5,074	0	326	0	0	426	0	0	0	0	0	82	0	0	10,071	7,538	1,343	799.92
Santa Margarita	4,817	0	0	983	0	0	389	0	0	1,207	1,513	0	1,820	837	0	15	0	0	104	0	0	16,269	6,921	611	824.37
Seal Beach	0	0	0	0	0	0	0	0	0	40	5,261	0	0	2,300	0	0	0	0	0	0	0	155	7,852	0	127.44
Serrano	58	0	0	190	0	0	105	0	0	377	0	0	695	0	0	0	0	0	0	0	0	3,405	0	0	93.29
South Coast	688	359	0	435	0	0	70	0	0	4,993	13,717	0	1,421	2,889	0	16	0	0	0	0	0	8,130	18,870	0	472.75
Trabuco Canyon	379	0	0	34	0	0	0	0	0	56	0	0	130	0	0	0	4,339	0	0	0	0	2,086	5,130	0	131.59
Tustin	476	1,013	0	378	0	0	329	0	0	408	0	0	317	386	0	65	-341	0	30	0	0	3,401	1,058	0	120.83
Westminster	26	0	0	15	0	0	0	0	0	54	0	0	73	0	0	105	0	0	0	0	0	464	0	0	10.98
Yorba Linda	559	0	0	730	0	0	40	990	0	921	0	0	1,715	0	0	213	0	0	0	0	0	6,081	4,359	500	460.06
MWDOC Totals	19,072	9,460	1,343	59,970	11,647	0	36,622	21,669	0	19,818	65,250	0	20,883	24,634	0	1,556	31,599	0	607	0	0	193,602	278,833	14,752	16,178.62

Anaheim	742	38,554	0	459	813	0	338	0	0	498	712	0	794	5,221	0	147	3,953	0	0	0	0	4,020	49,799	105	1,350.45
Fullerton	409	0	0	119	0	0	107	0	0	684	1,196	0	521	7,015	0	65	3,034	0	0	0	0	2,910	11,309	1,484	668.74
Santa Ana	22	65	0	99	0	0	86	2,533	0	310	0	0	0	1,420	0	0	1,106	0	0	0	0	859	5,752	0	124.46
Non-MWDOC Totals	1,173	38,619	0	677	813	0	531	2,533	0	1,492	1,908	0	1,315	13,656	0	212	8,093	0	0	0	0	7,789	66,860	1,589	2,143.65

Orange County Totals	20,245	48,079	1,343	60,647	12,460	0	37,153	24,202	0	21,310	67,158	0	22,198	38,290	0	1,768	39,692	0	607	0	0	201,391	345,693	16,341	18,322.27
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SOCAL WATER\$MART COMMERCIAL PLUMBING FIXTURES REBATE PROGRAM^[1]
INSTALLED BY AGENCY
through MWDOC and Local Agency Conservation Programs

Agency	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	Totals	Cumulative Water Savings across all Fiscal Years
Brea	1	234	0	10	91	734	0	1,365	494
Buena Park	290	5	23	56	591	133	0	2,489	1,217
East Orange CWD RZ	0	0	0	0	0	0	0	0	0
El Toro WD	137	0	212	6	268	35	0	1,062	655
Fountain Valley	314	0	0	1	249	0	357	1,229	657
Garden Grove	0	4	1	167	676	410	0	2,451	1,644
Golden State WC	135	0	1	0	1,008	53	0	2,865	2,083
Huntington Beach	156	104	144	7	783	641	0	2,954	1,753
Irvine Ranch WD	646	1,090	451	725	11,100	5,958	993	28,859	8,538
La Habra	0	0	0	0	340	42	0	925	605
La Palma	0	0	0	0	0	509	0	675	131
Laguna Beach CWD	0	0	27	0	0	0	0	446	342
Mesa Water	41	6	0	79	661	782	0	4,254	2,307
Moulton Niguel WD	0	0	0	3	413	281	0	1,277	908
Newport Beach	35	0	0	566	0	0	0	1,834	1,414
Orange	73	1	271	81	275	2,851	0	5,030	2,035
San Juan Capistrano	0	0	14	0	0	0	0	260	427
San Clemente	19	0	0	1	0	0	0	432	412
Santa Margarita WD	0	0	0	2	90	743	0	950	283
Santiago CWD	0	0	0	0	0	0	0	0	0
Seal Beach	0	0	0	0	0	184	0	538	471
Serrano WD	0	0	0	0	0	0	0	0	0
South Coast WD	84	148	0	382	0	0	0	1,320	577
Trabuco Canyon WD	0	0	0	0	0	0	0	11	16
Tustin	0	0	0	75	358	212	0	1,402	913
Westminster	35	1	28	0	146	177	0	1,138	1,093
Yorba Linda	0	1	0	0	226	84	0	595	616
MWDOC Totals	1,966	1,594	1,172	2,161	17,275	13,829	1,350	64,361	29,594
Anaheim	48	165	342	463	3,072	309	646	14,399	7,649
Fullerton	0	94	0	178	476	621	0	2,778	1,811
Santa Ana	12	16	17	5	1,293	238	0	5,737	5,131
Non-MWDOC Totals	60	275	359	646	4,841	1,168	646	22,914	14,591
Orange County Totals	2,026	1,869	1,531	2,807	22,116	14,997	1,996	87,275	44,186

[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 USE REDUCTION PROGRAM

Number of Process Changes by Agency

Agency	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	Overall Program Interventions	Annual Water Savings[1]
Brea	0	0	0	0	0	0	0	0	0
Buena Park	0	0	0	0	1	0	0	2	54
East Orange	0	0	0	0	0	0	0	0	0
El Toro	0	0	0	0	0	0	0	0	0
Fountain Valley	0	0	0	0	0	1	0	1	23
Garden Grove	0	0	0	0	1	0	0	1	0
Golden State	0	0	0	0	0	0	0	1	3
Huntington Beach	0	2	0	1	2	0	0	5	132
Irvine Ranch	1	1	1	0	2	1	0	9	115
La Habra	0	0	0	0	1	0	0	1	0
La Palma	0	0	0	0	0	0	0	0	0
Laguna Beach	0	0	0	0	0	0	0	0	0
Mesa Water	0	0	0	0	0	0	0	0	0
Moulton Niguel	0	0	0	0	0	0	0	0	0
Newport Beach	0	0	0	1	0	0	0	1	21
Orange	0	0	0	0	1	2	0	4	88
San Juan Capistrano	0	0	0	0	0	0	0	0	0
San Clemente	0	0	0	0	0	0	0	0	0
Santa Margarita	0	0	0	0	0	0	0	0	0
Seal Beach	0	0	0	0	0	0	0	0	0
Serrano	0	0	0	0	0	0	0	0	0
South Coast	0	0	0	0	1	1	0	2	134
Trabuco Canyon	0	0	0	0	0	0	0	0	0
Tustin	0	0	0	0	0	0	0	0	0
Westminster	0	0	0	0	0	0	0	0	0
Yorba Linda	0	0	0	0	0	0	0	0	0
MWDOC Totals	1	3	1	2	9	5	0	27	571
Anaheim	0	0	0	0	0	0	0	0	0
Fullerton	0	0	0	0	0	0	0	0	0
Santa Ana	0	0	0	0	1	0	0	1	11
OC Totals	1	3	1	2	10	5	0	28	582

[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^[1]
through MWDOC and Local Agency Conservation Programs

Agency	FY 11/12		FY 12/13		FY 13/14		FY 14/15		FY 15/16		FY 16/17		FY 17/18		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	3,397	9,466	7,605	0	5,697	0	71,981	30,617	118,930	404,411	8,354	479	502	26,214	216,466	471,187	306.45
Buena Park	0	0	0	0	0	0	11,670	1,626	77,127	16,490	3,741	0	2,996	0	95,534	18,116	48.23
East Orange	0	0	0	0	1,964	0	18,312	0	27,844	0	0	0	0	0	48,120	0	23.32
El Toro	4,723	0	4,680	72,718	4,582	0	27,046	221,612	63,546	162,548	13,139	48,019	5,465	0	123,181	504,897	324.94
Fountain Valley	1,300	0	682	7,524	4,252	0	45,583	5,279	65,232	0	3,679	0	3,024	0	123,752	12,803	68.48
Garden Grove	14,013	0	4,534	0	8,274	0	67,701	22,000	177,408	49,226	11,504	0	4,487	0	287,921	117,403	224.31
Golden State	42,593	30,973	31,813	3,200	32,725	8,424	164,507	190,738	310,264	112,937	0	0	0	581,902	346,272	506.98	
Huntington Beach	27,630	48,838	9,219	12,437	20,642	0	165,600	58,942	305,420	270,303	9,560	21,534	5,508	6,032	544,380	421,737	490.42
Irvine Ranch	6,450	1,666	32,884	32,384	36,584	76,400	234,905	317,999	782,844	2,675,629	231,483	46,725	32,472	22,467	1,363,045	3,186,064	2,010.00
La Habra	0	8,262	0	0	0	0	14,014	1,818	49,691	72,164	0	0	1,450	0	65,155	90,019	77.05
La Palma	0	0	0	0	0	0	4,884	0	10,257	59,760	0	0	0	0	15,141	59,760	32.14
Laguna Beach	2,533	0	2,664	1,712	4,586	226	13,647	46,850	47,614	0	3,059	0	220	0	75,301	48,788	65.38
Mesa Water	6,777	0	10,667	0	22,246	0	131,675	33,620	220,815	106,896	4,173	77,033	5,940	0	402,293	217,549	284.94
Moulton Niguel	4,483	26,927	11,538	84,123	14,739	40,741	314,250	1,612,845	889,748	1,059,279	220,749	0	31,461	0	1,487,924	2,840,054	2,133.05
Newport Beach	3,454	0	3,548	2,346	894	0	33,995	65,277	76,675	375,404	2,924	0	0	6,499	121,490	449,526	256.15
Orange	12,971	0	15,951	8,723	11,244	0	120,093	281,402	289,990	106,487	12,847	2,366	5,893	0	468,989	398,978	437.74
San Clemente	21,502	0	16,062	13,165	18,471	13,908	90,349	1,137	215,249	438,963	4,267	0	16,301	0	382,201	467,173	397.76
San Juan Capistrano	22,656	103,692	29,544	27,156	12,106	0	101,195	32,366	197,290	143,315	2,624	40,748	0	0	365,415	347,277	409.91
Santa Margarita	1,964	11,400	10,151	11,600	17,778	48,180	211,198	514,198	534,048	550,420	17,010	28,094	19,335	25,000	815,967	1,194,453	969.30
Santiago	0	0	0	0	0	0	0	0	0	0	0	0	502	0	0	0	-
Seal Beach	0	0	3,611	0	0	0	15,178	504	17,349	15,911	1,234	0	0	0	37,372	16,415	26.13
Serrano	0	0	0	0	2,971	0	41,247	0	127,877	4,403	5,450	0	0	0	177,545	4,403	82.26
South Coast	6,806	0	9,429	4,395	15,162	116,719	84,282	191,853	181,102	128,290	14,967	0	5,068	2,682	316,816	460,263	418.73
Trabuco Canyon	272	0	1,542	22,440	2,651	0	14,771	0	42,510	88,272	1,465	0	768	0	63,979	110,712	85.98
Tustin	0	0	9,980	0	1,410	0	71,285	14,137	232,697	33,362	11,173	0	2,872	0	329,417	47,499	172.48
Westminster	0	0	0	0	0	0	14,040	34,631	71,833	23,902	11,112	0	4,635	0	101,620	58,533	71.22
Yorba Linda	0	0	0	0	0	0	112,136	12,702	360,279	116,985	19,420	0	4,323	0	507,507	129,687	289.11
MWDOC Totals	183,524	241,224	216,104	303,923	238,978	304,598	2,195,544	3,692,153	5,493,639	7,015,357	613,934	264,998	153,222	88,894	9,118,433	12,019,568	10,212.47

Anaheim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Fullerton	0	0	0	0	0	9,214	0	0	0	0	0	0	0	0	0	9,214	6.45
Santa Ana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Non-MWDOC Totals	0	0	0	0	0	9,214	0	0	0	0	0	0	0	0	0	9,214	6.45

Orange County Totals	183,524	241,224	216,104	303,923	238,978	313,812	2,195,544	3,692,153	5,493,639	7,015,357	613,934	264,998	153,222	88,894	9,118,433	12,028,782	10,219
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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 11-12	FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17	FY 17-18	Total	Cumulative Water Savings across all Fiscal Years
Brea	0	0	38	146	154	4	0	450	96.65
Buena Park	0	0	96	153	112	13	0	684	185.90
East Orange CWD RZ	0	0	13	26	24	0	0	86	20.43
El Toro WD	0	133	218	869	264	12	1	2,038	524.33
Fountain Valley	0	0	41	132	220	7	8	831	243.61
Garden Grove	0	0	63	350	363	7	1	1,485	411.46
Golden State WC	80	2	142	794	512	9	7	2,797	758.40
Huntington Beach	0	0	163	1,190	628	4	3	2,904	698.52
Irvine Ranch WD	0	1,449	810	1,777	2,798	638	117	17,026	5,293.71
Laguna Beach CWD	0	0	45	112	81	1	0	388	101.25
La Habra	0	0	37	94	83	5	1	591	190.75
La Palma	0	0	21	59	52	4	0	222	56.39
Mesa Water	0	0	147	162	162	7	2	1,620	581.14
Moulton Niguel WD	0	0	400	2,497	1,939	49	25	5,715	1,100.88
Newport Beach	0	0	49	168	243	11	5	730	177.34
Orange	0	1	142	978	416	17	2	2,181	515.39
San Juan Capistrano	0	0	35	140	202	3	2	525	116.91
San Clemente	0	0	72	225	246	11	1	873	218.33
Santa Margarita WD	0	0	528	997	1,152	114	19	3,328	651.79
Seal Beach	0	2	17	50	69	-1	0	857	385.24
Serrano WD	0	0	2	40	55	3	0	121	23.54
South Coast WD	23	64	102	398	235	11	3	1,024	222.75
Trabuco Canyon WD	0	0	10	108	169	2	0	339	62.73
Tustin	0	0	64	132	201	12	2	1,508	525.01
Westminster	0	0	35	161	359	3	1	1,332	403.46
Yorba Linda WD	0	0	40	280	379	12	4	1,255	335.11
MWDOC Totals	103	1,651	3,330	12,038	11,118	958	204	50,910	13,901.03

Anaheim	0	0	156	1,188	614	70	9	5,874	1,941.76
Fullerton	0	0	61	293	286	14	6	1,061	268.25
Santa Ana	0	0	33	602	293	20	0	2,021	601.53
Non-MWDOC Totals	0	0	250	2,083	1,193	104	15	8,956	2,811.54

Orange County Totals	103	1,651	3,580	14,121	12,311	1,062	219	59,866	16,712.56
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Water Smart Landscape Program

Total Number of Meters in Program by Agency

Agency	FY 07-08	FY 08-09	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14	FY 14-15	FY 15-16	Overall Water Savings To Date (AF)
Brea	0	0	0	0	22	22	22	22	22	64.37
Buena Park	0	0	17	103	101	101	101	101	101	462.69
East Orange CWD RZ	0	0	0	0	0	0	0	0	0	0.00
El Toro WD	352	384	371	820	810	812	812	812	812	4,856.93
Fountain Valley	0	0	0	0	0	0	0	0	0	0.00
Garden Grove	0	0	0	0	0	0	0	0	0	0.00
Golden State WC	14	34	32	34	32	32	32	32	32	200.59
Huntington Beach	0	0	31	33	31	31	31	31	31	148.43
Irvine Ranch WD	708	1,008	6,297	6,347	6,368	6,795	6,797	6,769	6,780	38,304.89
Laguna Beach CWD	0	57	141	143	141	124	124	124	124	733.07
La Habra	0	23	22	24	22	22	22	22	22	136.72
La Palma	0	0	0	0	0	0	0	0	0	0.00
Mesa Water	165	286	285	288	450	504	511	514	515	2,943.57
Moulton Niguel WD	180	473	571	595	643	640	675	673	661	4,120.71
Newport Beach	58	142	171	191	226	262	300	300	300	1,501.19
Orange	0	0	0	0	0	0	0	0	0	0.00
San Clemente	227	233	247	271	269	269	299	407	459	2,368.77
San Juan Capistrano	0	0	0	0	0	0	0	0	0	0.00
Santa Margarita WD	945	1,571	1,666	1,746	1,962	1,956	2,274	2,386	2,386	14,178.10
Seal Beach	0	0	0	0	0	0	0	0	0	0.00
Serrano WD	0	0	0	0	0	0	0	0	0	0.00
South Coast WD	62	117	108	110	118	118	118	164	164	829.91
Trabuco Canyon WD	12	49	48	62	60	60	60	60	60	350.52
Tustin	0	0	0	0	0	0	0	0	0	0.00
Westminster	10	18	18	20	18	18	18	18	18	116.46
Yorba Linda WD	0	0	0	0	0	0	0	0	0	0.00
MWDOC Totals	2,733	4,395	10,025	10,787	11,273	11,766	12,196	12,435	12,487	71,316.9
Anaheim	0	0	142	146	144	190	190	190	190	1,351.53
Fullerton	0	0	0	0	0	0	0	0	0	0.00
Santa Ana	0	0	0	0	0	0	0	0	0	0.00
Non-MWDOC Totals	0	0	142	146	144	190	190	190	190	1,351.53
Orange Co. Totals	2,733	4,395	10,167	10,933	11,417	11,956	12,386	12,625	12,677	72,668.45

HOME WATER SURVEYS PERFORMED BY AGENCY

through MWDOC and Local Agency Conservation Programs

Agency	FY 13/14		FY 14/15		FY 15/16		Total		Cumulative Water Savings
	Surveys	Cert Homes	Surveys	Cert Homes	Surveys	Cert Homes	Surveys	Cert Homes	
Brea	1	0	2	0	0	0	3	0	0.16
Buena Park	0	0	1	0	0	0	1	0	0.05
East Orange	19	0	1	0	0	0	20	0	1.39
El Toro	0	0	3	0	0	0	3	0	0.14
Fountain Valley	3	0	4	0	1	0	8	0	0.42
Garden Grove	0	0	6	0	1	0	7	0	0.31
Golden State	0	0	0	0	0	0	0	0	0.00
Huntington Beach	2	0	5	0	2	0	9	0	0.42
Irvine Ranch	1	0	3	0	6	0	10	0	0.35
La Habra	0	0	1	0	0	0	1	0	0.05
La Palma	0	0	0	0	0	0	0	0	0.00
Laguna Beach	4	0	8	0	1	0	13	0	0.68
Mesa Water	0	0	0	0	0	0	0	0	0.00
Moulton Niguel	4	0	4	0	0	0	8	0	0.47
Newport Beach	2	0	8	0	6	0	16	0	0.66
Orange	2	0	18	0	1	0	21	0	1.01
San Clemente	15	0	13	0	0	0	28	0	1.67
San Juan Capistrano	4	0	13	0	2	0	19	0	0.94
Santa Margarita	15	0	40	1	14	0	69	1	3.27
Seal Beach	0	0	1	0	2	0	3	0	0.09
Serrano	0	0	2	0	0	0	2	0	0.09
South Coast	6	0	4	0	1	0	11	0	0.64
Trabuco Canyon	0	0	4	0	0	0	4	0	0.19
Tustin	0	0	10	0	5	0	15	0	0.59
Westminster	0	0	0	0	0	0	0	0	0.00
Yorba Linda	0	0	13	0	10	0	23	0	0.85
MWDOC Totals	78	0	164	1	52	0	294	1	14.44

Anaheim	0	0	0	0	0	0	0	0	0.00
Fullerton	0	0	17	0	1	0	18	0	0.82
Santa Ana	0	0	0	0	0	0	0	0	0.00
Non-MWDOC Totals	0	0	17	0	1	0	18	0	0.82

Orange County Totals	78	0	181	1	53	0	312	1	15.266
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SYNTHETIC TURF INSTALLED BY AGENCY^[1]
through MWDOC and Local Agency Conservation Programs

Agency	FY 07/08		FY 08/09		FY 09/10		FY 10/11		Total Program		Cumulative Water Savings across all Fiscal Years
	Res	Comm.	Res	Comm.	Res	Comm.	Res	Comm.	Res	Comm.	
Brea	0	0	2,153	2,160	500	0	0	0	2,653	2,160	3.30
Buena Park	0	0	1,566	5,850	0	0	0	0	1,566	5,850	5.19
East Orange	0	0	0	0	983	0	0	0	983	0	0.55
El Toro	3,183	0	2,974	0	3,308	0	895	0	10,360	0	6.98
Fountain Valley	11,674	0	1,163	0	2,767	0	684	0	16,288	0	12.46
Garden Grove	1,860	0	0	0	3,197	0	274	0	5,331	0	3.47
Golden State	6,786	0	13,990	0	15,215	0	2,056	0	38,047	0	24.88
Huntington Beach	15,192	591	12,512	0	4,343	1,504	0	0	32,047	2,095	25.29
Irvine Ranch	11,009	876	13,669	0	2,585	0	0	0	27,263	876	21.00
La Habra	0	0	0	0	0	0	0	0	0	0	-
La Palma	429	0	0	0	0	0	0	0	429	0	0.36
Laguna Beach	3,950	0	3,026	0	725	0	0	0	7,701	0	5.84
Mesa Water	4,114	0	3,005	78,118	4,106	0	2,198	0	13,423	78,118	63.46
Moulton Niguel	14,151	0	25,635	2,420	7,432	0	0	0	47,218	2,420	35.69
Newport Beach	2,530	0	6,628	0	270	0	0	0	9,428	0	6.92
Orange	4,169	0	7,191	0	635	0	0	0	11,995	0	8.89
San Clemente	9,328	0	11,250	455	2,514	1,285	500	0	23,592	1,740	18.37
San Juan Capistrano	0	0	7,297	639	2,730	0	4,607	0	14,634	639	9.02
Santa Margarita	12,922	0	26,069	0	21,875	0	7,926	0	68,792	0	44.68
Seal Beach	0	0	817	0	0	0	0	0	817	0	0.57
Serrano	7,347	0	1,145	0	0	0	0	0	8,492	0	6.97
South Coast	2,311	0	6,316	0	17,200	0	1,044	0	26,871	0	16.43
Trabuco Canyon	1,202	0	9,827	0	0	0	0	0	11,029	0	7.89
Tustin	6,123	0	4,717	0	2,190	0	0	0	13,030	0	9.67
Westminster	2,748	16,566	8,215	0	890	0	0	0	11,853	16,566	22.47
Yorba Linda	11,792	0	12,683	0	4,341	5,835	0	0	28,816	5,835	24.48
MWDOC Totals	132,820	18,033	181,848	89,642	97,806	8,624	20,184	0	432,658	116,299	384.83

Anaheim	4,535	0	7,735	20,093	13,555	65,300	4,122	0	29,947	85,393	69.18
Fullerton	4,865	876	5,727	0	6,223	0	105	0	16,920	876	12.36
Santa Ana	0	0	2,820	0	525	0	0	0	3,345	0	2.27
Non-MWDOC Totals	9,400	876	16,282	20,093	20,303	65,300	4,227	0	50,212	86,269	83.81

Orange County Totals	142,220	18,909	198,130	109,735	118,109	73,924	24,411	0	482,870	202,568	468.63
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[1] Installed device numbers are calculated in square feet

ULF TOILETS INSTALLED BY AGENCY
through MWDOC and Local Agency Conservation Programs

Agency	Previous Years	FY 95-96	FY 96-97	FY 97-98	FY 98-99	FY 99-00	FY 00-01	FY 01-02	FY 02-03	FY 03-04	FY 04-05	FY 05-06	FY 06-07	FY 07-08	FY 08-09	Total	Cumulative Water Savings across all Fiscal Years
Brea	378	189	299	299	122	144	867	585	341	401	26	48	17	4	0	3,720	1,692.64
Buena Park	361	147	331	802	520	469	524	1,229	2,325	1,522	50	40	18	9	0	8,347	3,498.37
East Orange CWD RZ	2	0	33	63	15	17	15	50	41	44	19	18	13	2	0	332	138.23
El Toro WD	1,169	511	678	889	711	171	310	564	472	324	176	205	61	40	0	6,281	3,091.16
Fountain Valley	638	454	635	858	1,289	2,355	1,697	1,406	1,400	802	176	111	58	32	0	11,911	5,383.10
Garden Grove	1,563	1,871	1,956	2,620	2,801	3,556	2,423	3,855	3,148	2,117	176	106	67	39	0	26,298	12,155.41
Golden State WC	3,535	1,396	3,141	1,113	3,024	2,957	1,379	2,143	3,222	1,870	167	116	501	43	0	24,607	11,731.47
Huntington Beach	3,963	1,779	2,600	2,522	2,319	3,492	3,281	2,698	3,752	1,901	367	308	143	121	0	29,246	13,854.70
Irvine Ranch WD	4,016	841	1,674	1,726	1,089	3,256	1,534	1,902	2,263	6,741	593	626	310	129	0	26,700	11,849.23
Laguna Beach CWD	283	93	118	74	149	306	220	85	271	118	32	26	29	6	0	1,810	845.69
La Habra	594	146	254	775	703	105	582	645	1,697	1,225	12	31	6	7	0	6,782	2,957.73
La Palma	65	180	222	125	44	132	518	173	343	193	31	27	20	17	0	2,090	927.52
Mesa Water	1,610	851	1,052	2,046	2,114	1,956	1,393	1,505	2,387	988	192	124	56	14	0	16,288	7,654.27
Moulton Niguel WD	744	309	761	698	523	475	716	891	728	684	410	381	187	100	0	7,607	3,371.14
Newport Beach	369	293	390	571	912	1,223	438	463	396	1,883	153	76	36	16	0	7,219	3,166.77
Orange	683	1,252	1,155	1,355	533	2,263	1,778	2,444	2,682	1,899	193	218	88	53	4	16,600	7,347.93
San Juan Capistrano	1,234	284	193	168	323	1,319	347	152	201	151	85	125	42	39	0	4,663	2,324.42
San Clemente	225	113	191	65	158	198	667	483	201	547	91	66	37	34	0	3,076	1,314.64
Santa Margarita WD	577	324	553	843	345	456	1,258	790	664	260	179	143	101	29	0	6,522	3,001.01
Seal Beach	74	66	312	609	47	155	132	81	134	729	29	10	6	12	0	2,396	1,073.80
Serrano WD	81	56	68	41	19	52	95	73	123	98	20	15	14	2	0	757	338.66
South Coast WD	110	176	177	114	182	181	133	358	191	469	88	72	32	22	0	2,305	990.05
Trabuco Canyon WD	10	78	42	42	25	21	40	181	102	30	17	20	12	14	0	634	273.02
Tustin	968	668	557	824	429	1,292	1,508	1,206	1,096	827	69	89	26	12	0	9,571	4,423.88
Westminster	747	493	969	1,066	2,336	2,291	2,304	1,523	2,492	1,118	145	105	70	24	0	15,683	7,064.28
Yorba Linda WD	257	309	417	457	404	1,400	759	1,690	1,155	627	158	136	81	41	0	7,891	3,409.49
MWDOC Totals	24,256	12,879	18,778	20,765	21,136	30,242	24,918	27,175	31,827	27,568	3,654	3,242	2,031	861	4	249,336	113,878.61

Anaheim	447	1,054	1,788	3,661	1,755	7,551	4,593	6,346	9,707	5,075	473	371	462	341	1	43,625	18,359.52
Fullerton	1,453	1,143	694	1,193	1,364	2,138	1,926	2,130	2,213	1,749	172	77	44	23	2	16,321	7,435.23
Santa Ana	1,111	1,964	1,205	2,729	2,088	8,788	5,614	10,822	10,716	9,164	279	134	25	5	0	54,644	22,887.95
Non-MWDOC Totals	3,011	4,161	3,687	7,583	5,207	18,477	12,133	19,298	22,636	15,988	924	582	531	369	3	114,590	48,682.70

Orange County Totals	27,267	17,040	22,465	28,348	26,343	48,719	37,051	46,473	54,463	43,556	4,578	3,824	2,562	1,230	7	363,926	162,561.30
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**NOTICE OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
FINANCE COMMITTEE**

December 21, 2017

8:30 a.m.

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee has been called by the Chairperson to be held on **December 21, 2017**, at **8:30 a.m.** at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California.

THE SOCWA MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.) PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5421 AT LEAST 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) 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. 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.

3. Infrastructure Valuation Services - Presentation

- Review of Draft Valuation Report

NOTICE OF SPECIAL MEETING – FINANCE COMMITTEE

December 21, 2017

Page 2 of 2

Recommendation

Committee questions, comments and direction. Finance Committee recommends to the Board of Directors that the final Valuation Report be received and filed.

4. Financial Statements and Independent Auditors Report FY Ending 6-30-17

Recommendation

Presentation and Discussion Item. Direct staff to adenzize for Board of Directors 12-28-17 meeting to consider approval.

5. General Manager Report on Open Items

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.

Dated this 19th day of December 2017 by



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

I hereby certify that the following Agenda was posted at least 24 hours prior to the time of the Board Meeting so noticed below, at the usual agenda posting location of the South Orange County Wastewater Authority [SOCWA] and at www.socwa.com.



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

Revised

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

AND

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

December 28, 2017

8:30 a.m.

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors is called by the Chairperson of the SOCWA Board of Directors to be held on **December 28, 2017**, at **8:30 a.m.** at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California.

NOTICE IS HEREBY GIVEN that concurrent with the Board of Directors meeting, a Special Meeting of the Finance Committee of South Orange County Wastewater Authority (SOCWA) is called by the Chairperson of the SOCWA Finance Committee for the purpose of allowing a quorum or more of the Finance Committee to attend the SOCWA Board Meeting and to participate, the same being held at **8:30 a.m.** on **December 28, 2017**, at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California.

All meeting business will be conducted by the Members of the Board of Directors with comment or participation of the Finance Committee members in attendance.

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 BOARD OF DIRECTORS/FINANCE COMMITTEE IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS/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 BOARD OF DIRECTORS/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 BOARD OF DIRECTORS/FINANCE COMMITTEE, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED TO THE BOARD OF DIRECTORS/FINANCE COMMITTEE IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE MEETING ROOM.

AGENDA

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 item is discussed by the Board. There will be a three-minute limit for public comments.

4. CONSENT CALENDAR

A. None.....

5. ENGINEERING MATTERS

A. Award of Engineering Services – Dudek [PC15]1

ACTION The Board will be requested to approve the engineering services contract to Dudek at a fee of \$139,710.

B. Award of Engineering Services – Lee & Ro [PC17].....7

ACTION The Board will be requested to approve the engineering services contract to Lee & Ro at a fee of \$139,818.

6. GENERAL MANAGER’S REPORT

A. Carollo Infrastructure Valuation Report.....13

ACTION
The Board will be requested to receive and file the final Valuation Report.

B. Financial Statements and Independent Auditors’ Report FY Ended June 30, 2017.....36

- 1. Report of Finance Committee for consideration of the FY Ended June 30, 2017 Audit
- 2. Presentation and Q&A with The Pun Group.

ACTION
The Board will be requested to receive and file the Financial Statements and Independent Auditors’ Report for the Year Ended June 30, 2017, including the Governance Letter and the Auditors’ Report on Internal Controls as prepared by The Pun Group.

C. Clarification of Uniform Purchasing Policy and Procedures100

ACTION
The Board of Directors to approve revisions to the Uniform Purchasing Policy and Procedures dated March 5, 2015 as follows:

1. Page 2, Definition of Board of Directors:

“BOARD” – Shall mean the Board of Directors when taking action as the full Board, or the participating members of a Project Committee when the expenditure of obligation to be approved pertains to a project committee and is funded by members of the Project Committee approving the expenditure.

2. Appendix 1, change reference to “Board of Directors and Project Committees”

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

NOTE - THE NEXT REGULAR SOCWA BOARD MEETING WILL BE HELD AT
8:30 A.M. ON JANUARY 11, 2018

obtain guaranteed price proposal for the filter valves and appurtenances from Evoqua. FIRM shall review proposed pricing based on recent projects. FIRM shall review with SOCWA staff. Upon agreement of SOCWA staff, FIRM shall integrate guaranteed price proposal into bidding documents.

- VIII. 100% Submittal. The 100% submittal shall address all SOCWA's comments from the 90% submittal. This submittal shall also include the same elements as the 90% submittal with the completed plans, specifications and cost estimate. FIRM shall provide specifications in electronic form (in *.doc format) and drawings in electronic form (in *.pdf format). SOCWA will take two weeks to review the submittal and return comments.
- IX. Final Submittal. FIRM shall provide one set of specifications on 8-12 x 11 paper, one copy of the final drawings on full size (22 x 34) paper and one copy of the final drawings on 1/2 size bond paper. FIRM shall also provide specifications in electronic form (in *.doc format) and drawings in electronic form (in *.dwg and *.pdf format).
- X. Divisions 0 and 1. SOCWA will provide the FIRM with the listing of standard specifications Divisions 0 and 1 to be used for the project after the 35% submittals review. FIRM is responsible for preparing Section 01010, Summary of Work and Section 01014, Work Restrictions and Sequence. FIRM shall meet with SOCWA to discuss coordination of specifications sections referenced in the technical specifications. FIRM shall submit required information for review at the 90% submittal.

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

January 11, 2018

8:30a.m.

NOTICE IS HEREBY GIVEN that a Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee has called by the Chairman to be held on January 11, 2018 at 8:30 a.m. at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California.

THE SOCWA MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.) PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY CLERK OF THE BOARD 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 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 TWENTY-FOUR (24) 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

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. Review/Approval of Meeting Minutes (August '17, October '17 and December '17)
4. Operations Report

NOTICE OF SPECIAL MEETING - ENGINEERING COMMITTEE

January 11, 2018

Page 2 of 2

5. Consideration of Biosolids Handling Demonstration Project at SOCWA Treatment Facility (Project Committees 2 and 17)
6. Consideration of Asset Management Program Development for Fiscal Year 2018/2019 (All Project Committee)
7. Regional Treatment Plant Co-Generation and Switchgear Project Construction Project Status Update (Project Committee 17)
8. Regional Treatment Plant Miscellaneous Improvements 2016 Notice of Completion (Project Committee 17)
9. Regional Treatment Plant Capital Improvements Budget Fiscal Year 2018/2019 Review (Project Committee 17)
10. Coastal Treatment Plant Miscellaneous Improvements Construction Project Status Update (Project Committee 15)

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 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 Engineering Committee at the usual agenda posting location of the South Orange County Wastewater Authority and at www.socwa.com.

Dated this 4th day of January 2018.

 FOR

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

I hereby certify that the following Agenda was posted at least 24 hours prior to the time of the Board Meeting so noticed below, at the usual agenda posting location of the South Orange County Wastewater Authority [SOCWA] and at www.socwa.com.



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

AGENDA

*Special Meeting of The
South Orange County Wastewater Authority
Board of Directors*

January 11, 2018
10:30 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 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 SECRETARY AT LEAST TWENTY-FOUR (24) 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 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 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 item is discussed by the board. There will be a three-minute limit for public comments.

4. CONSENT CALENDAR

Page
Number

A. Operations Reports.....1

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

- 1) Monthly Operations Report – November 2017
- 2) Ocean Outfall Discharges
- 3) Beach/Ocean Monitoring Report
- 4) Recycled Water Report

5) Pretreatment Report

5. ENGINEERING MATTERS

A. None

6. GENERAL MANAGER'S REPORTS

A. Janitorial Contract.....42

ACTION Staff recommends that the Board award the janitorial contract to Crown Facility Solutions for a period of one year with the option to renew each year for four years not to exceed \$75,000 per year.

B. General Manager's Status Report.....54

ACTION The Board will review the General Manager's Status Report:
 • Board Questions
 • Receive and file

7. CLOSED SESSION

1) Public Employee Performance Evaluation: General Manager Pursuant to Government Code Section 54957(b)(1):

2) Evaluation of Contractor Serving in an Executive Position Pursuant to Government Code Section 54957(b)(1):

Performance Evaluation of General Counsel

8. OTHER MATTERS

1) Board Chair Comments on Open Items

2) General Manager Comments on Open Items

3) Open discussion or items received too late to be agendaized.

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

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

9. ADJOURNMENT

THE NEXT REGULAR SOCWA BOARD MEETING WILL BE HELD ON
FEBRUARY 1, 2018 AT 8:30 A.M.

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

Jointly with the

PLANNING & OPERATIONS COMMITTEE

January 2, 2018, 8:30 a.m.

MWDOC Conference Room 101

P&O Committee:

Director Dick, Chair

Director Tamaribuchi

Director Yoo Schneider

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

Ex Officio Member: Director Barbre

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

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

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

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

DISCUSSION ITEM

1. RELIABILITY STUDY STATUS UPDATE AND DRAFT REVIEW OF SYSTEM (EMERGENCY) RELIABILITY WORKING ANALYSIS FOR SOUTH ORANGE COUNTY (SOC)

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. STATUS OF ORANGE COUNTY'S CYCLIC IN-LIEU PROGRAM

3. STATUS REPORTS

- a. Ongoing MWDOC Reliability and Engineering/Planning Projects
- b. WEROC
- c. Water Use Efficiency Projects
- d. Water Use Efficiency Programs Savings and Implementation Report

4. REVIEW OF ISSUES RELATED TO CONSTRUCTION PROGRAMS, WATER USE EFFICIENCY, FACILITY AND EQUIPMENT MAINTENANCE, WATER STORAGE, WATER QUALITY, CONJUNCTIVE USE PROGRAMS, EDUCATION, DISTRICT FACILITIES, and MEMBER-AGENCY RELATIONS

ADJOURNMENT

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

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

WORKSHOP MEETING OF THE
BOARD OF DIRECTORS WITH MET DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
18700 Ward Street, Board Room, Fountain Valley, California
January 3, 2018, 8:30 a.m.

AGENDA

PLEDGE OF ALLEGIANCE

ROLL CALL

PUBLIC PARTICIPATION/COMMENTS

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

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

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

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

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING

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

(NEXT RESOLUTION NO. 2062)

ACTION ITEMS

1. STANDING COMMITTEE AND AD HOC COMMITTEE APPOINTMENTS FOR 2018; SCHEDULE OF COMMITTEE MEETING DATES FOR 2018

Recommendation: (1) Ratify the list of Standing Committee and Ad Hoc Committee Appointments as presented by the President of the Board; and (2) ratify Committee meeting dates/times for 2018.

2. ASSOCIATION AND COMMISSION APPOINTMENTS FOR 2018 RES. NO. ____

Recommendation: (1) Ratify the appointment of Representatives and Alternates to Associations as presented by the President of the Board; and (2) Adopt Resolution approving the appointment of one Representative and two Alternates to the Santiago Aqueduct Commission (SAC), for submission to SAC.

PRESENTATION/DISCUSSION/INFORMATION ITEMS

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

Recommendation: Receive input and discuss the information.

4. METROPOLITAN'S PROPOSED BIENNIAL BUDGET SCHEDULE FOR FISCAL YEARS 2018/19 AND 2019/20

Recommendation: Review and discuss the information presented.

5. WATER SUPPLY CONDITIONS UPDATE

Recommendation: Review and discuss the information presented.

6. 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 by MET in the Doheny Desalination Project and in the Huntington Beach Ocean Desalination Project (Poseidon Desalination Project)
- f. Orange County Reliability Projects
- g. East Orange County Feeder No. 2
- h. South County Projects

Recommendation: Discuss and provide input on information relative to the MET items of critical interest to Orange County.

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

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

Recommendation: Review and discuss the information presented.

ADJOURNMENT

Note: Accommodations for the Disabled. Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning Maribeth Goldsby, District Secretary, at (714) 963-3058, or writing to Municipal Water District of Orange County at P.O. Box 20895, Fountain Valley, CA 92728. Requests must specify the nature of the disability and the type of

accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

**MEETING OF THE
BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY**
Jointly with the
ADMINISTRATION & FINANCE COMMITTEE
January 10, 2018, 8:30 a.m.
MWDOC Conference Room 101

Committee:

Director Thomas, Chairman
Director Dick
Director Finnegan

Staff: R. Hunter, K. Seckel, C. Harris,
K. Davanaugh, H. Chumpitazi

Ex Officio Member: Director Barbre

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

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

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

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING --
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PROPOSED BOARD CONSENT CALENDAR ITEMS

1. TREASURER'S REPORT
 - a. Revenue/Cash Receipt Report – December 2017
 - b. Disbursement Approval Report for the month of January 2018
 - c. Disbursement Ratification Report for the month of December 2017
 - d. GM Approved Disbursement Report for the month of December 2017
 - e. Water Use Efficiency Projects Cash Flow – December 31, 2017
 - f. Consolidated Summary of Cash and Investment – November 2017
 - g. OPEB Trust Fund monthly statement

2. FINANCIAL REPORT
 - a. Combined Financial Statements and Budget Comparative for the Period ending November 30, 2017

ACTION ITEMS

- 3. ACWA DC CONFERENCE – FEBRUARY 27-MARCH 1, 2018

DISCUSSION ITEM

- 4. FY 2018-19 BUDGET

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. DEPARTMENT ACTIVITIES REPORTS
 - a. Administration
 - b. Finance and Information Technology
- 6. MONTHLY WATER USAGE DATA, TIER 2 PROJECTION, AND WATER SUPPLY INFORMATION

OTHER ITEMS

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

ADJOURNMENT

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

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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
January 15, 2018, 8:30 a.m.
Conference Room 101

Committee:

Director Dick, Chairman
Director Thomas
Director Tamaribuchi

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

Ex Officio Member: Director Barbre

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

PUBLIC PARTICIPATION

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

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

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING --

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

DISCUSSION ITEMS

1. LEGISLATIVE ACTIVITIES
 - a. Federal Legislative Report (Barker)
 - b. State Legislative Report (BBK)
 - c. County Legislative Report (Lewis)
 - d. Legal and Regulatory Report (Ackerman)
 - e. MWDOC Legislative Matrix
 - f. Metropolitan Legislative Matrix

2. SOUTHERN CALIFORNIA WATER ISSUES CONGRESSIONAL DELEGATION BRIEFING LUNCHEON (DC)

3. CENTRAL BASIN MUNICIPAL WATER DISTRICT LEGISLATIVE PROPOSAL ON METROPOLITAN BOARD GOVERNANCE

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.)

4. UPDATE ON 2018 OC WATER SUMMIT (JUNE 1, 2018)
5. MWDOC.COM LAUNCH AND SOCIAL MEDIA UPDATE
6. EDUCATION PROGRAM UPDATE
7. PUBLIC AFFAIRS ACTIVITIES REPORT

OTHER ITEMS

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

ADJOURNMENT

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

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REGULAR MEETING
OF THE BOARD OF DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
18700 Ward Street, Board Room, Fountain Valley, California
January 17, 2018, 8:30 a.m.

AGENDA

PLEDGE OF ALLEGIANCE

ROLL CALL

PUBLIC COMMENTS/PARTICIPATION

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

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

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

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

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING

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

EMPLOYEE SERVICE AWARDS

NEXT RESOLUTION NO. 2062

CONSENT CALENDAR (Items 1 to 5)

(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. December 6, 2017 Workshop Board Meeting
- b. December 20, 2017 Regular Board Meeting

Recommendation: Approve as presented.

2. COMMITTEE MEETING REPORTS

- a. Planning & Operations Committee Meeting: December 4, 2017
- b. Administration & Finance Committee Meeting: December 13, 2017

- c. Public Affairs & Legislation Committee: December 18, 2017
- d. Executive Committee Meeting: December 21, 2017

Recommendation: Receive and file as presented.

3. TREASURER'S REPORTS

- a. MWDOC Revenue/Cash Receipt Register as of December 31, 2017
- b. MWDOC Disbursement Registers (December/January)

Recommendation: Ratify and approve as presented.

- c. Summary of Cash and Investment and Portfolio Master Summary Report (Cash and Investment report) as of November 30, 2017
- 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 November 30, 2017

Recommendation: Receive and file as presented.

5. ACWA DC CONFERENCE – FEBRUARY 27- MARCH 1, 2018

Recommendation: Approve an additional attendee (Board) to the ACWA DC Conference.

– End Consent Calendar –

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

6. GENERAL MANAGER'S REPORT, JANUARY 2018 (ORAL AND WRITTEN)

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

7. 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.

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

GENERAL MANAGER'S REPORT OF STAFF ACTIVITIES JANUARY 2018

<p>Managers' Meeting</p>	<p>MWDOC held its Member Agency Managers' meeting at its office in Fountain Valley on December 21, 2017. In attendance were Samuel Kim (Garden Grove); David Spitz (Seal Beach); Hector Ruiz (Trabuco Canyon); Steve Conklin (Yorba Linda); Mike Grisso (Buena Park); Lisa Ohlund (EOCWD); Mark Sprague (Fountain Valley); Paul Cook and Paul Weghorst (IRWD); David Spitz (Seal Beach); Jerry Vilander (Serrano Water); and Karl Seckel; Charles Busslinger; Kevin Hostert; Melissa Baum-Haley; Heather Baez; Joe Berg; Chris Lingad; Damon Micalizzi; and myself of staff.</p> <p>The agenda included the following:</p> <ol style="list-style-type: none"> 1. MWDOC Budget Process 2. School Program Choice Commitments due February 2018 3. Federal and State Funding Request for Projects 4. SWRCB "Wasteful Water Use" Regulations 5. Conservation Legislation AB 1668 and SB 606; and SB 623 Update <p>The next meeting is tentatively scheduled for January 18, 2018.</p>
<p>WaterFix - Habitat Restoration</p>	<p>Several discussions and conference calls were held with Director Sat Tamaribuchi; OC Coastkeeper Garry Brown; Steve Arakawa from MET; Dr. Peter Moyle from UC Davis Watershed Sciences; and Karl and I to discuss habitat restoration relative to the California WaterFix and EcoRestore and other efforts. Dr. Moyle is preparing a white paper on the subject for OC Coastkeeper.</p>

MET ITEMS CRITICAL TO ORANGE COUNTY

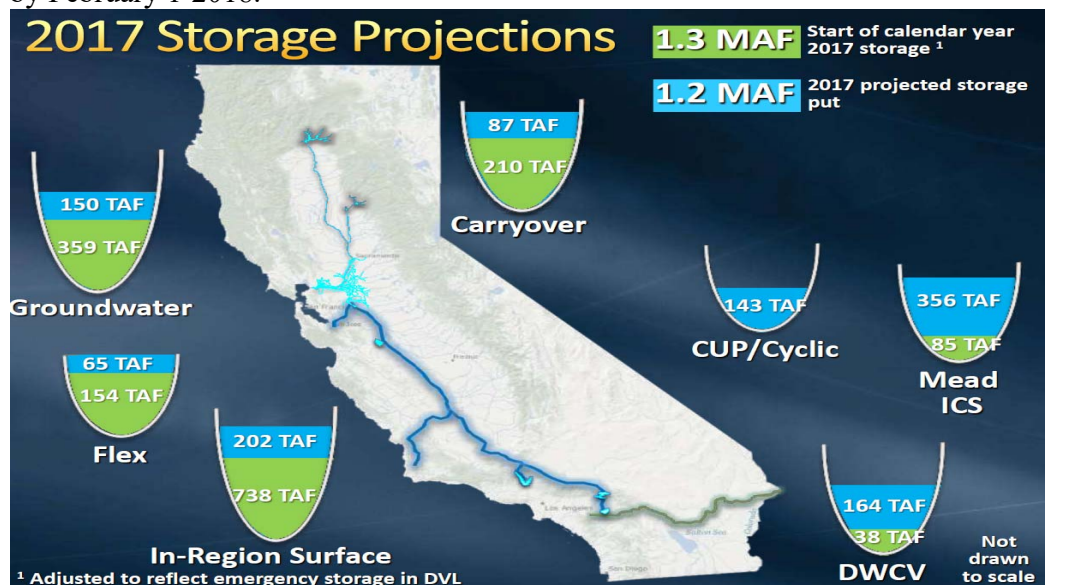
**MET’s
Water
Supply
Conditions**

2017 Water Supply Balance

With the Department of Water Resources (DWR) setting the State Water Project (SWP) “Table A” allocation at 85%, Metropolitan will have approximately 1.624 million acre-feet (MAF) in SWP deliveries this water year. In addition, Metropolitan has received approximately 124 TAF of Article 21 supplies through September. On the Colorado River system, MET estimates a total delivery of 960 TAF.

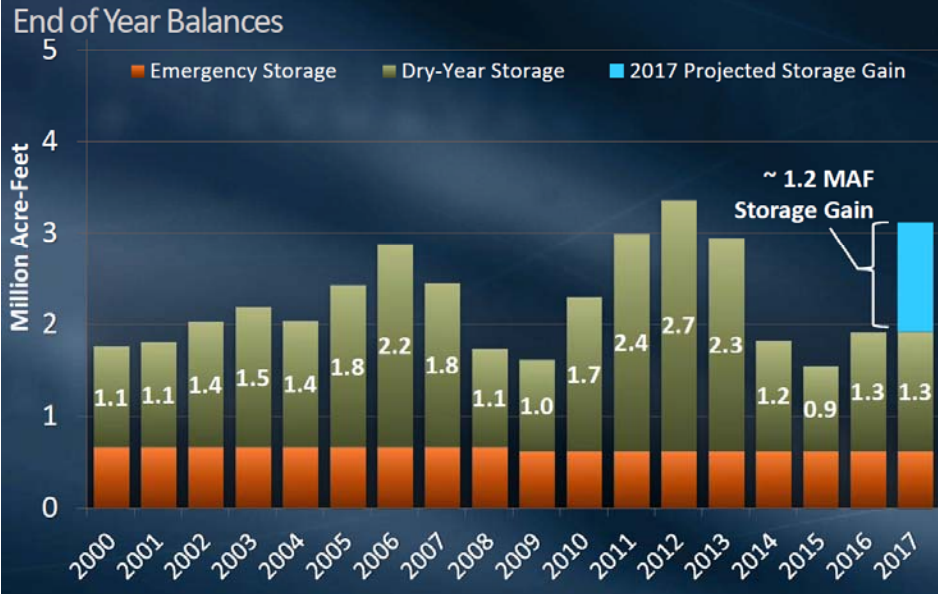
MET is projecting that supplies will exceed demand levels in CY 2017. With a current demand trend of 1.46 MAF, MET is expected to increase their dry-year supplies by 1.2 MAF, which is the highest they have ever stored. Based on this estimated recovery and a beginning dry-year storage balance of 1.3 MAF, this will bring MET’s total dry-year storage to 2.5 MAF.

Limitations with recharging groundwater basins due to the “suspect” of quagga mussels and to secure all of the available imported water supplies for 2017, the MET Board approved last month a one-year In-Lieu storage program. The purpose of this program is to store additional imported water locally that would have been otherwise been lost if no action was taken. For November 2017, MWDOC (along with Anaheim, Fullerton and Santa Ana) have requested that MET certify 11,264 AF of imported treated deliveries as In-Lieu. In-Lieu deliveries for December 2017 are estimated to be around 7,000 AF to 10,000 AF. Due to abnormally dry conditions throughout the state in December there is a possibility the In Lieu program could end by February 1, 2018.



MET’s Water Supply Conditions (Cont’d.)

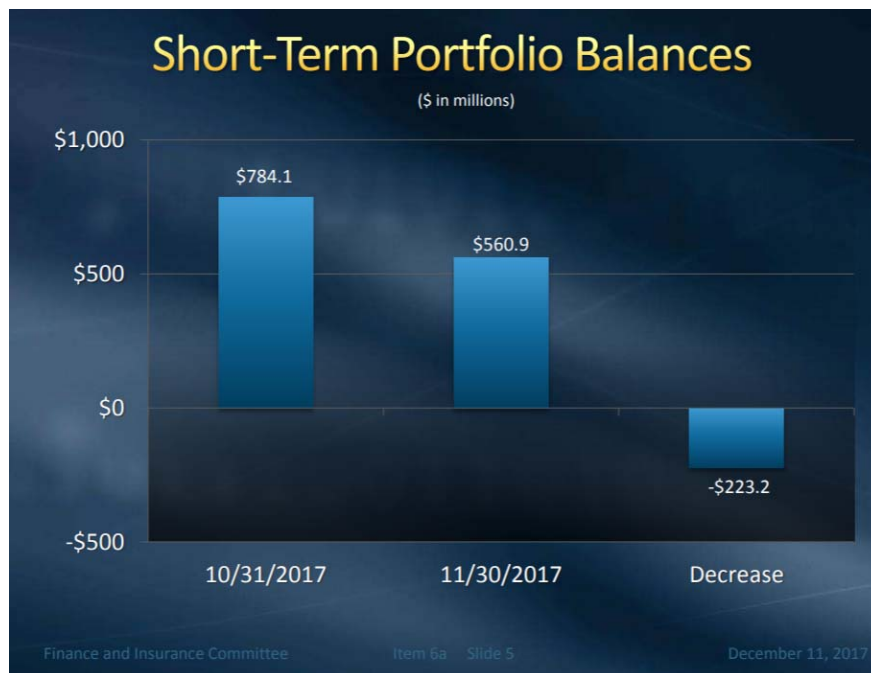
Metropolitan is Forecasting an Increase in Storage Reserves this Year



MET’s Finance and Rate Issues

MET Financial Report

The financial portfolio performance report through November 30, 2017 resulted in a short-term portfolio with a market value of \$560.9 million, a decrease of \$223.2 million since October 31, 2017. From inception, the short-term portfolio has outperformed the benchmark by 0.56%.



<p>MET’s Finance and Rate Issues</p>	<p>For November, the total return of the long-term portfolio resulted in a \$0.7 million decrease from October 2017; although for the month of November, the long-term portfolio outperformed the benchmark by 0.09%. From inception, the long term portfolio has outperformed the benchmark by 0.30%.</p> <p>Water transactions through November 30, 2017 were 163.0 TAF lower than budgeted and 170.2 TAF lower than the 5-year average. Low sales in November remain due to decreased untreated water sales, in comparison to both the budget and prior year actual sales. While sales through November 2017 are \$107.1 million lower than budgeted, they are only \$37.1 million lower than November 2016.</p>
<p>Colorado River Issues</p>	<p><u>State Water Resources Control Board Modifies WRO 2002-0013</u></p> <p>The State Water Resources Control Board (SWRCB) voted in favor of the Salton Sea Management Program and the Stipulated Order for Future Action by the State Water Board on Tuesday, November 7, 2017. At its meeting, the SWRCB received additional input regarding the Salton Sea Management Program and the Draft Stipulated Order and asked Imperial Irrigation District (IID) and the other stipulating parties to make some additional edits before the vote. Metropolitan submitted written comments and the General Manager provided oral comments at the meeting to convey Metropolitan’s support for the draft stipulated order, while reserving all rights and prior positions. The SWRCB voted unanimously in favor of the Stipulated Order.</p> <p>The Order notes that delivery of mitigation water to the Salton Sea will end on December 21, 2017 and that the mitigation measures identified in IID’s EIR on the Water Conservation and Transfer Project, which includes a four-step air quality plan, will continue to be implemented.</p> <p>New provisions added to WRO 2002-0013:</p> <ul style="list-style-type: none"> • Find that restoration of a smaller Salton Sea is feasible. • Provide that the State of California lead and coordinate management efforts and implementation of projects for human health and the environment. • Note that successful management of the Salton Sea will require participation by a range of state, local and federal governmental entities, as well as non-governmental organizations. • Find that cooperation of non-governmental land owners will be needed to secure rights of way for conveyance structures. • Establish restoration milestones to address human health and environmental concerns which set annual targets for habitat and dust-suppression projects on a specified number of acres of exposed playa from 2019 – 2029. • State that no less than 50 percent of those acres will provide habitat benefits for fish and wildlife.

<p>Colorado River Issues (Cont’d.)</p>	<ul style="list-style-type: none"> • Provide that the California Natural Resources Agency will develop subsequent 10-year restoration management plans, with stakeholder coordination, beginning no later than midway through the current plan. • Require the Board to hold an annual public meeting, no later than March 31, to receive oral and written comments on the status of the Salton Sea Restoration. • Reserve the Board’s jurisdiction to make further amendments to WRO 2002-0013 “to ensure Salton Sea Restoration throughout the term of the QSA through its continuing jurisdiction under this Order.” <p><u>MWD Approves IID’s Requests to Store Conserved Water</u> In response to IID’s October 27, 2017 request for MET to store conserved water in 2017, on November 28 MET approved storing up to 69,000 acre-feet of conserved water on behalf of IID, provided Metropolitan can modify its operations to manage or store all of its Colorado River supplies this year. IID would store water with MET in the final year of a three-year agreement in which MET agreed to store increased amounts of conserved water generated by IID. The water is subject to a 5 to 10 percent storage loss that would be provided to MET, and would be returned at IID’s request in a future year. The exact amount of water IID would store with MET will not be known until May of 2019 when the conservation numbers have been reviewed and agreed to by MET staff.</p>
<p>Bay Delta/State Water Project Issues</p>	<p><u>California WaterFix</u> Since Metropolitan’s Board action in October to approve participation in the CA WaterFix project, support continues from State Water Project contractors for CA WaterFix. Metropolitan staff is continuing its engagement with DWR and other public water agencies on the best strategy for optimizing implementation, possible financing structures, and other cost/benefit tools, such as long-term transfers.</p> <p>The California WaterFix Petition proceedings before the SWRCB are ongoing. Part 2 of the hearings will address the effects of the proposed project on fish and wildlife, including consideration of appropriate Delta flow criteria. Opening briefs for Part 2 were due November 30, and Part 2 of the California WaterFix hearing will commence January 18, 2018.</p> <p><u>State Water Resources Control Board</u> In October 2017, the State Water Resources Control Board (SWRCB) issued a notice to solicit stakeholder input to the development of the program of implementation for the Phase II Update to the Bay-Delta Water Quality Control Plan, and released their final Phase II Scientific Basis Report. The Phase II update addresses inflows to the Sacramento River and Delta, and Delta outflows, and it is focused on protection of fish and wildlife beneficial uses. MET staff worked with the State Water Contractors (SWC) to submit written comments to the SWRCB on November 9. The comments address the SWRCB’s request</p>

<p>Bay Delta/State Water Project Issues (Cont’d.)</p>	<p>for input on the program of implementation and state that it is premature to discuss implementation since the description of the Metropolitan staff proposal lacks sufficient detail. The SWC comments also address remaining concerns with the Phase II report including the need to address scientific uncertainty and incorporate more recent relevant scientific literature</p> <p><u>Science Activities</u></p> <p>MET staff continued participation in the Collaborative Science and Adaptive Management Program (CSAMP), including participation on the Collaborative Adaptive Management Team. November meetings focused on salmon issues. MET staff participated in workshops addressing the winter run salmon life cycle model developed for the National Marine Fisheries Service and provided input on technical and scientific information needed to improve the model. MET staff also provided input to developing salmon science projects for CSAMP addressing Delta habitat needs for salmon and factors affecting salmon survival.</p> <p>MET staff also participated in the Delta Smelt Scoping Team process to develop a decision support tool for the Delta smelt Resiliency Strategy, and develop management questions that would guide development of a long-term monitoring program to inform management actions for Delta smelt.</p> <p>MET staff initiated a study with researchers from the U.S. Forest Service to investigate the rate at which fish species are misidentified by expert observers in fish survey programs. The results of the study could inform the accuracy of fish survey data through the 1990’s.</p> <p>Field work for the third phase of the longfin smelt vertical distribution study, funded by a Proposition 1 grant, was conducted in November. Two sets of day night trawling were conducted over two weeks. Data and samples are being analyzed. Initial results suggest that longfin smelt in the Bay-Delta estuary behave similarly to the landlocked version in Lake Washington, in the state of Washington. The use of bioacoustics was deployed during the survey and initial results suggest that significant portions of the fish are not being detected by the nets.</p> <p>MET staff participated in the first Central Valley Salmon Habitat Partnership meeting. The mission of the Central Valley Salmon Habitat Partnership is to protect, restore, and enhance salmon and steelhead populations, habitats, and ecosystem conditions by working collaboratively through diverse partnerships to achieve the conservation objectives identified in the Salmon Partnership’s Implementation Plan. MET will participate in the science development committee, which will work as a group to identify projects for the partnership to implement. The first meeting to brainstorm projects will take place in early 2018.</p>
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<p>Bay Delta/State Water Project Issues (Cont’d.)</p>	<p><u>Delta Flood Emergency Management Plan</u> DWR has stated that the final Delta Flood Emergency Management Plan will be delayed to 2018 because of Metropolitan staff deployments to assist in potential flood and erosion remediation efforts from the Napa and Sonoma fires, and to allow sufficient time for briefing processes for substantial executive management changes at DWR. The California Office of Emergency Services has also indicated that significant personnel have been deployed to the Napa and Sonoma regions.</p> <p>An updated seismic response model will be developed to estimate strong ground motion predictions affecting Delta levees using most recent Napa earthquake data, new data from other faults in the region, and current ground motion prediction techniques through the California Earthquake Authority and academic researchers.</p> <p>DWR is evaluating the sequence and scale of flood fight activities to assess restoration of pathway features to restore water export operations in the event of weather or seismic related flood events in the Delta. This process would help determine what activities may warrant federal reimbursement, typically including immediate response to major flood and earthquake emergencies and levee damages. Metropolitan and DWR have jointly determined that pathway implementation and export startup would be preceded by a water pulse from north of Delta reservoirs to initiate pathway operations, and from San Joaquin sources to initially clear high salinity concentrations from the pathway.</p>
<p>ENGINEERING & PLANNING</p>	
<p>Doheny Desalination Project</p>	<p>An amended Notice of Preparation and Public Scoping Meeting for the Doheny Desalination Project was held on December 7, 2017 to publically disclose the inclusion of additional slant well locations into the Environmental Impact Report.</p> <p>Future milestones:</p> <ul style="list-style-type: none"> • Early February: Draft EIR Release for Public Comments • Proposals will be brought to the South Coast Board for specialized legal services to develop documents for a potential Design-Build-Operate contract.
<p>San Juan Basin Authority</p>	<p>The San Juan Watershed Project continues to move forward. Santa Margarita Water District, as the lead agency under CEQA, prepared a Draft Program Environmental Impact Report (Draft PEIR) for the multiple phases of the project. The Draft PEIR was released for a 65-day public review period on December 21, 2017 through February 23, 2018 (available at: http://sanjuanwatershed.com/about-the-project/eir-notice/).</p>

<p>San Juan Basin Authority (Cont’d.)</p>	<p>A public meeting will be held on January 30, 2018 from 6:00pm to 8:00pm at the San Juan Capistrano Community Center to receive public comments regarding the content of the Draft PEIR.</p>
<p>Orange County Reliability Study</p>	<p>CDM-Smith submitted a technical memo draft to staff input on January 8th which follows-up on the 2016 study climate modeling assumptions. The update discusses modeling assumptions based on more recently available information; to use updated Colorado River assumptions and updated State Water Project assumptions for the reliability study update. MWDOC staff is reviewing the document and will provide input to CDM Smith to provide feedback on the memo. Once the modeling is completed under the updated assumptions, project evaluations for supply and system improvements will be completed. A final report is expected in the Spring 2018.</p>
<p>North and Central O.C. Integrated Regional Watershed Management Area</p>	<p>Charles continues to participate in the ad hoc committee of the North and Central Orange County Integrated Regional Water Management (IRWM) Plan (<i>The OC Plan</i>). The committee is currently reviewing and preparing responses to public comments on the final draft plan.</p> <p>Stakeholders will be invited to submit proposed projects to be included in the plan through February 20, 2018. The submitted projects will also be submitted electronically to SAWPA to be included in the OWOW Plan. The final version of the plan is anticipated to be included in the February 26, 2018 Newport Bay Watershed Executive Committee packet.</p>
<p>Upper Feeder Shutdown Coordination Meeting</p>	<p>A scheduled January 6 through January 19 shutdown of the Upper Feeder is currently in progress to allow installation of a flexible metal expansion joint at the Santa Ana River Bridge Crossing for increased seismic resilience. The shutdown is progressing as planned and is on schedule.</p>
<p>Prop 50 Grant Funds</p>	<p>MWDOC is coordinating with West Basin and others on the retention release for the Proposition 50 Grant Funds for the Doheny Pilot Plant Treatment and Testing Phase project.</p>
<p>Use of East Orange County Feeder No. 2 for Conveyance of Groundwater</p>	<p>Upcoming discussions will be held with MET.</p>

EMERGENCY PREPAREDNESS	
Coordination with WEROC Member Agencies	<p><i>Ongoing: WEROC, with Michal Baker as the lead consultant, is facilitating 19 agencies through the process of updating the Orange County Water and Wastewater Multi-Jurisdictional Hazard Mitigation Plan. Update: Francisco Soto has been working with each agency to ensure that assignments between meetings are completed on time and the project stays on schedule. The next meeting is scheduled for January 23, 2018.</i></p> <p>Francisco developed an After Action Report (AAR) for the series of Emergency Water Quality Sample Kits (EWQSK) trainings and exercises hosted earlier this year. The AAR provides a summary of each training and exercise conducted, a summary of the discussions during each event, and a comprehensive list of suggested planning elements for response to an Unknown Contamination Event. The final report will be distributed to member agencies, the Division of Drinking Water, OC Health Care Agency, and all other entities involved.</p> <p>Francisco is in the process of updating the WEROC Radio Systems Standard Operating Procedures. The purpose of this document is to outline the policies and procedures for the radio systems WEROC and member agencies utilize to improve emergency response, provide reliable communications during emergencies, and coordinate resources among member agencies.</p>
Training and Programs	<p>WEROC hosted two Disaster Finance Workshops provided by Mike Martinet. The first training consisted of a hands-on computer workshop to assist local government agencies in evaluating their current purchasing/finance policies for compliance with Title 2 of the Code of Federal Regulations (2 CFR, Part 200). Non-compliance in RFP processes as it relates to 2 CFR Part 200 is one of the biggest reasons for agencies to have their Public Assistance Funds de-obligated. The second workshop focused on Work Process Flow & Work Activity Documentation for Supervisors. This class was focused on providing processes for tracking field activities and damages, including a hands on demonstration of photo documentation. Mary Snow and Jeff Stalvey attended the first workshop and Francisco attended the second one.</p> <p>Kelly Hubbard provided a WEROC EOC Staff Training which included a discussion on recent lessons learned from the southern California fires, refresh on EOC positions and then an activity to assist everyone in learning their assigned EOC position better.</p>
Coordination with Outside Agencies	<p>Kelly provided some coordination support to water and wastewater utilities impacted by the Thomas Fire. This has primarily been the coordination of possible generator requests and information needs.</p>

<p>Coordination with the County of Orange</p>	<p>Kelly and Francisco attended the December Orange County Emergency Management Organization (OCEMO) meeting that took place in the City of Anaheim. The various sub-committees and working groups provided a status on their current planning efforts, the OA manager, Donna Boston from the Orange County Sheriff’s Department Emergency Management Division (EMD) provided updates on current/future weather events, mutual aid request from the Thomas Fire, and more information on the wireless alert message that was sent out by Cal OES.</p> <p><i>Ongoing: WEROC staff participated in the OA Agreement Revision Working Group and the OCEMO Bylaws Revision Workgroup.</i> Francisco attended the OA Agreement meeting which primarily reviewed the first draft to the revisions of the Responsibilities of Signatories and Finance sections. Additionally, the group began to review the Powers and Duties of the OA Positions section which will be discussed in further detail at the next meeting. Kelly attended the Bylaws Revision Workgroup meeting which focused on updating roles and responsibilities of officers of the OCEMO Leadership.</p> <p>Francisco and Kelly attended the AlertOC/WebEOC/Communications meeting at the OA EOC. The group discussed issues and possible improvements to all of these systems based on lessons from the most recent responses.</p>
<p>WEROC EOC Readiness</p>	<p>Francisco met with an Orange County Park Ranger at the North EOC to discuss the removal of four trees on the premises. During the Canyon 2 Fire, it became apparent that the trees hindered the ability for OCFA to maneuver their fire apparatus through the property and provide structure protection. OC Parks is doing a massive tree removal and clean-up of fire impacts to Peters Canyon Regional Park which surrounds the North EOC property and offered to possibly assist with these trees if possible.</p> <p>Janine Schunk identified a vendor, Rockaway Recycling (a scrap yard out of New Jersey), to whom we sold the old South EOC generator. El Toro Water District (ETWD) staff has maintained this generator for WEROC for several years and was starting to have problems finding parts for the generator. The district received \$500 for the generator. Janine worked with Irvine Ranch Water District and ETWD staff to move the generator from the North EOC to the South EOC since it is considered our primary EOC. This generator is portable and can be moved site to site if needed. This generator is slightly undersized for the facility and its operations, so once improvements at the South EOC are completed, an electrical assessment will be conducted, and a new generator will be purchased in the next 3-5 years.</p>

<h2 style="margin: 0;">WATER USE EFFICIENCY</h2>	
<p>DWR Landscape Stakeholder Advisory Workgroup</p>	<p>On December 18, Joe participated in Department of Water Resources” (DWR) Landscape Stakeholder Advisory Workgroup which was hosted by San Diego County Water Authority. More than 70 stakeholders from throughout California attended. The focus of this Advisory Workgroup is to make recommendations to DWR and the Building Standards Commission on updates to the Model Water Efficient Landscape Ordinance. Recommendations are due by March 2018.</p>
<p>Orange County Water Loss Control Workgroup</p>	<p>On January 9, Joe convened the OC Water Loss Control Workgroup. In addition to MWDOC and Water Systems Optimization staff, 16 retail agencies were represented at this meeting. Agenda highlights included:</p> <ul style="list-style-type: none"> • A detailed presentation and discussion on the Component Analysis of Real Losses methodology to quantify real losses, including seeps, leaks, and breaks. • Trabuco Canyon Water District’s Water Loss Control Program, including water balance results, meter accuracy testing, and pressure regulating valve rehabilitation. <p>The next meeting is scheduled for March 13 at MWDOC. This will be a joint meeting between Water Loss Control and Finance staff to improve understanding of water loss as it relates to revenue loss and recovery.</p>
<h2 style="margin: 0;">PUBLIC/GOVERNMENT AFFAIRS</h2>	
<p>Member Agency Relations</p>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> • Attended MET’s PIO working group meeting • Working with LBCWD on availability and logistics for upcoming community events • Working on availability and logistics for participation in the City of Dana Point’s upcoming community events <p>Heather provided a legislative recap of 2017 for the member agency PAW/Legislative group. She is coordinating with participating member agencies on the Southern California Water Issues Briefing Book that is distributed to members of Congress and their staffs during the luncheon in Washington D.C. on February 28.</p>

<p>Education</p>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> • Assisted Mesa Water with information regarding upcoming high school program classroom and expo dates • Assisted the City of Anaheim with information regarding upcoming high school and elementary school program classroom and expo dates • Assisted Mesa Water with information regarding Solar Cup • Collected and coordinated information from Inside the Outdoors (ITO) and Discovery Science Foundation (DSF) for both MWDOC education programs to complete MET’s Annual Member Agency Survey of Education Resources <p>Provided photos to ITO of the CRA and Delta to be used as lesson plan visuals</p>
<p>Media Relations</p>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> • Participated in several meetings to discuss strategy with the social media consultant. Continuing to fine tune the MWDOC social strategies and best practices guidelines.
<p>Special Projects</p>	<p>Public Affairs staff:</p> <ul style="list-style-type: none"> • Coordinated, prepared and sent out an eCurrents newsletter • Working with staff at DWR to secure a date for the next Water Policy Dinner & Forum with keynote speaker, DWR Director Grant Davis • Are currently working on itineraries, trip logistics, guest and Director requirements for the following inspection trips: <ul style="list-style-type: none"> • January 26-28, 2017, Director Barbre, CRA/Hoover • February 23-24, 2017, Director Ackerman, SWP • Bryce staffed a CRA inspection trip with Director McKenney on January 12-13 • Developed a new MWDOC branded envelope template • Working with web developer to fine tune website items <p>Heather prepared and sent out the ISDOC notice for the January 25, 2018 Quarterly Luncheon.</p> <p>Heather coordinated with and invited the January ISDOC speaker, Kathy Cole of MET.</p>

<p>Special Projects</p>	<p>Heather and Kelly invited and coordinated with the January WACO speakers, Dr. Eric McDonald and Dr. Matt Zahn, to discuss Hepatitis A.</p> <p>Heather staffed the January WACO meeting which was very well attended.</p>
<p>Special Projects (Cont’d.)</p>	<p>Heather compiled a list of all chambers of commerce in Orange County and their meeting days/times.</p> <p>Heather worked with Fred Simon of Infraguard to speak at the February WACO meeting.</p> <p>Heather staffed the January ISDOC Executive Committee.</p> <p>Heather and Joe are coordinating and compiling information with grant writing/tracking firms. A recommendation should be ready in the next month.</p>
<p>Legislative Affairs</p>	<p>Heather and Melissa participated in MET’s member agency working group on SB 623 (Monning).</p> <p>Heather and Melissa participated in MET’s member agency working group on AB 1668/SB 606, the conservation implementation legislation.</p>
<p>Water Summit</p>	<p>Public Affairs staff:</p> <ul style="list-style-type: none"> • Conducted a staff meeting with OCWD to prepare for the 2018 Summit • Have begun soliciting sponsors and speakers

**MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
AGENCIES MANAGERS MEETING**



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- Sat Tamarbuchi
Director
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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, January 18, 2018 from 10:30 to noon.

DRAFT AGENDA

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4-4. Legislative Reports	99
5. Reminders	
5-1. School Program Choice Commitments due by February 2018	
6. Next meeting tentatively scheduled for February 22, 2018	

Lunch will be provided immediately following the Managers meeting.

**LOCAL AGENCY FORMATION COMMISSION
ORANGE COUNTY**

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

REGULAR MEETING AGENDA

**Wednesday, January 10, 2018
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 LOU PENROSE**
- 3. ROLL CALL**
- 4. ANNOUNCEMENT OF SUPPLEMENTAL COMMUNICATIONS
(Received After Agenda Distribution)**
- 5. APPROVAL OF MINUTES**
 - a.) December 13, 2017 – 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**

None

- 8. PUBLIC HEARING**

- a.) Proposed “Lewis Street Reorganization between the City of Garden Grove and the City of Orange (RO 17-01)”**

The Commission will consider:

- 1) The proposed detachment of approximately .901-acres of territory within the City of Orange and annexation of the same territory to the City of Garden Grove and the Garden Grove Sanitary District;
- 2) Concurrent amendments to the spheres of influence for the Cities of Orange, Garden Grove, and the Garden Grove Sanitary District; and
- 3) The Mitigated Negative Declaration prepared by the City of Garden Grove, the lead agency and consider adopting environmental findings.

9. COMMISSION DISCUSSION AND ACTION

a.) Election of LAFCO Officers for 2018

The Commission will elect a LAFCO Chair and Vice-Chair for 2018.

b.) Appointment Process for OC LAFCO County, City, Special District, and Public Member Seats and Schedule for Expiring Terms

The Commission will receive an update on the appointment responsibilities and processes for the LAFCO member seats and the schedule for the appointments of expiring special district and public member seats.

c.) FY 2016-17 OC LAFCO Annual Audit

The Commission will receive a report on OC LAFCO's audited financial statements for FY 2016-17 prepared by Davis Farr LLP, the Commission's independent auditing firm.

d.) Comprehensive Organizational Assessment

The Commission will receive the Comprehensive Organizational Assessment and consider recommendations prepared by consultant, Kelly Associates Management Group, LLC.

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.) 2018 Brown Act Updates

OC LAFCO legal counsel will provide an update to the Commission on best practices and recent changes to the Brown Act.

13. CLOSED SESSION

None

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.

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

AGENDA
SOUTH ORANGE COUNTY WATERSHED MANAGEMENT
AREA
MANAGEMENT COMMITTEE

AGENDA
January 8, 2018
1:30 – 2:30 p.m.

Skype Conference: [Join Skype Meeting](#)



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

Moy Yahya

City of Laguna Woods

Devin Slaven

City of Lake Forest

Joe Ames

City of Mission Viejo

E. Max Maximous

City of Rancho Santa Margarita

David Rebensdorf

City of San Clemente

Hossein Ajideh

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

Hector Ruiz

Trabuco Canyon Water District

David Youngblood

Laguna Beach County Water District

1. Welcome & Introductions
Group

2. County Staffing Updates
Jenna Voss, County of Orange

3. Overview of IRWM Plan Project Submittal Process
Jenna Voss/Group Discussion

4. IRWM Plan & Data Management System Updates
Jenna Voss/Amanda Aprahamian, County of Orange

5. Other Update Items – *Jenna Voss*
 - a) OC Stormwater Resource Plan
 - b) DAC Clarification
 - c) Roundtable of Regions
 - d) Legislative Actions
 - e) Water Quality Improvement Plan (WQIP)

6. Executive Committee Meeting Minutes (11/2) and Agenda (2/1)
Group Discussion

7. Updates on Current Activities & Projects (As Needed)
Group Discussion

8. Next Executive Committee Meeting: February 1, 2018
Next Management Committee Meeting: February 5, 2018

9. Closing and Adjourn



Executive Committee Meeting

Tuesday, January 9, 2018

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

Executive Committee

President

Hon. Jim Fisler
Mesa Water District

1st Vice President

Hon. Sandra Jacobs
Santa Margarita Water District

2nd Vice President

Hon. Mark Monin
El Toro Water District

3rd Vice President

Hon. Mary Aileen Matheis
Irvine Ranch Water District

Secretary

Hon. Doug Davert
East Orange County Water District

Treasurer

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

Past President

Hon. Mike Scheafer
Costa Mesa Sanitary District

Staff and Administration

Heather Baez

Municipal Water District of Orange County

Sylvia Prado

East Orange County Water District

I. Welcome

II. Approval of Minutes

- Consider approval of the minutes for the December 5, 2017 meeting

III. Public Comments

IV. Old Business

V. New Business

- LAFCO Dues Study Committee - Update
 - Information item.

VI. Treasurer's Report – Joan Finnegan

- Receive, discuss and file December 31, 2017 Treasurer's Report.

VII. CSDA Report – Bill Nelson/Arlene Schafer

- Receive, discuss and file the CSDA report.

VIII. LAFCO Report – John Withers

- Receive, discuss and file the LAFCO report.

IX. ACWA Report – Sandra Jacobs

- Receive, discuss and file the ACWA report.

X. OCCOG Report – Phil Anthony

- Receive, discuss and file OCCOG report.

XI. Subcommittee Reports

- **Program (Sandra Jacobs)**
 - Discuss programs and speakers for upcoming January 25, March 29, June 28, 2018 quarterly membership meetings
- **Membership (Mark Monin)**
- c. **Legislative (Mary Aileen Matheis)**
 - Discuss and consider taking action on proposed legislation of interest to Special Districts.

XII. President and Committee Member Announcements and Comments

XIII. Adjourn

Next Executive Committee Meeting: Tuesday, February 6, 2018

Next ISDOC Quarterly Meeting: January 25, 2018



AGENDA

Friday, January 5, 2017
7:30 a.m. - 9:00 a.m.
Doors open at 7:00 a.m.

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

Mailing Address

P.O. Box 8300
Fountain Valley, CA 92708

Meeting Location

18700 Ward Street
Fountain Valley, CA 92708

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

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

Officers

Chair

Hon. Jose Vergara
El Toro Water District

Vice Chair

Hon. Jim Atkinson
Mesa Water District

Staff Contacts

Alicia Dunkin
Orange County Water District

Heather Baez
Municipal Water District of Orange County

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Facebook, Twitter, and YouTube!



/orangecountywater



@waco_h2o



/orangecountywater

Pledge of Allegiance

Announcements & Introductions

- Jose Vergara, El Toro Water District

2018 WACO Officer Elections

- Philip Anthony, Orange County Water District; and
- Larry Dick, Metropolitan Water District of Southern California and Municipal Water District of Orange County

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: Hepatitis A – A Threat to our Water Supply?

- Dr. Eric McDonald, Medical Director, Epidemiology & Immunization Services, County of San Diego Health & Human Services Agency
- Dr. Matthew Zahn, Medical Director, Epidemiology & Assessment, Orange County Health Care Agency

Adjourn

Next WACO Meeting

Friday, February 2, 7:30 a.m. @ OCWD/MWDOC Joint Boardroom

Next WACO Planning Committee Meeting

Tuesday, January 16, 7:30 a.m. @ MWDOC 101

To view previous presentations, please visit
<https://www.youtube.com/orangecountywater>



WACO Planning Committee
Tuesday, January 16, 2018
7:30 A.M.

AGENDA

Feedback of January 5 program

- 1) Program: Hepatitis A – a threat to our water supply?
 - Dr. Eric McDonald and Dr. Matthew Zahn

Items to report

- 1) February 2 – Is Your Agency Safe? Cyber and Infrastructure Security
 - Kelly Hubbard, WEROC Program Manager, to provide 10-min operational area board report (confirmed)
 - Bryan Cunningham, Executive Director, UCI Cybersecurity Policy and Research Institute (confirmed)
 - Special Agent Fredrick Simon, FBI, InfraGard Los Angeles (confirmed)
- 2) When will Mary Ann Dickenson be in town? (*question was posed at Dec meeting*)

Discussion Items

- 1) Decide March 2 and April 6 meeting topics and speakers

Option 1

Water Loss

- Joe Berg, Director of Water Use Efficiency, MWDOC
- Unintended Consequences of Conservation, or other conservation topic
- Mary Ann Dickinson, President, Alliance for Water Efficiency
 - Cynthia Koehler, Executive Director, WaterNow Alliance
 - TBD, CA Water Efficiency Partnership
 - Other speaker(s) TBD

Option 2

San Onofre

- Speaker: SoCal Gas
- Speaker: San Diego Gas and Electric
- Speaker: Southern California Edison

Option 3

San Juan Basin Authority current projects

- Norris Brandt, Administrator, San Juan Basin Authority

Option 4

Snowpack update

- Speaker: someone from JPL

Option 5

Water UCI

- Speaker: someone from UCI

Adjourn

Mailing Address

P.O. Box 20895
Fountain Valley, CA 92728

Meeting Location

18700 Ward Street
Fountain Valley, CA 92708

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

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

Officers

Chair

Hon. Jose Vergara
El Toro Water District

Vice Chair

Hon. Jim Atkinson
Mesa Water District

Staff Contacts:

Alicia Dunkin
Orange County Water District

Heather Baez
Municipal Water District of Orange County



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on Facebook, Twitter and YouTube!

DATES TO REMEMBER
JANUARY/FEBRUARY 2018

1. Jan 24 – 26 – CASA Conference (Palm Springs)
2. Jan 25 – 11:30 a.m. – ISDOC Quarterly Luncheon
3. Jan 26 – 8:00 a.m. – TV-6 (Vergara)
4. Jan 30 – 7:30 a.m. – RRC Meeting
5. Jan 30– 12:00 p.m. – South County Agencies Meeting (Note Location: TCWD)
6. Feb 1 – 8:30 a.m. – SOCWA Board Meeting
7. Feb 1 – 2:30 p.m. – SOCWMA Executive Committee Meeting
8. Feb 2 – 7:30 a.m. – WACO
9. Feb 2 – DISTRICT OFFICE CLOSED
10. Feb 5 – 8:30 a.m. – MWDOC Planning/Operations Meeting
11. Feb 5 – 1:30 p.m. – SOCWMA Management Committee Meeting
12. Feb 6 – 7:30 a.m. – ISDOC Executive Committee Meeting
13. Feb 7 – 8:30 a.m. – MWDOC/MET Directors Workshop
14. Feb 8 – 11:30 a.m. – CAG Meeting
15. Feb 13 – 7:30 a.m. – Agenda Review
16. Feb 14 – 8:30 a.m. – MWDOC Admin/Finance Committee Meeting
17. Feb 16 – DISTRICT OFFICE CLOSED
18. Feb 19 – PRESIDENTS DAY – DISTRICT OFFICE CLOSED
19. Feb 20 – 7:30 a.m. – Regular Engineering/Finance Committee Meeting
20. Feb 20 – 7:30 a.m. – WACO Planning Committee Meeting
21. Feb 20 – 8:30 a.m. – MWDOC Public Affairs Meeting
22. Feb 21 – 8:30 a.m. – MWDOC Board Meeting
23. Feb 22 – 7:30 a.m. – Regular Board Meeting
24. Feb 23 – 8:00 a.m. – TV-6 (Monin)
25. Feb 27 – 7:30 a.m. – RRC Meeting

Excerpts From League Of Cities Open & Public V

(A Guide To Ralph M. Brown Act)



Technological conferencing

Except for certain nonsubstantive purposes, such as scheduling a special meeting, a conference call including a majority of the members of a legislative body is an unlawful meeting. But, in an effort to keep up with information age technologies, the Brown Act specifically allows a legislative body to use any type of teleconferencing to meet, receive public comment and testimony, deliberate, or conduct a closed session.²⁰ While the Brown Act contains specific requirements for conducting a teleconference, the decision to use teleconferencing is entirely discretionary with the body. No person has a right under the Brown Act to have a meeting by teleconference.

"Teleconference" is defined as "a meeting of a legislative body, the members of which are in different locations, connected by electronic means, through either

audio or video, or both."²¹ In addition to the specific requirements relating to teleconferencing, the meeting must comply with all provisions of the Brown Act otherwise applicable. The Brown Act contains the following teleconferencing requirements:²²

- Teleconferencing may be used for all purposes during any meeting;
- At least a quorum of the legislative body must participate from locations within the local agency's jurisdiction;
- Additional teleconference locations may be made available for the public;
- Each teleconference location must be specifically identified in the notice and agenda of the meeting, including a full address and room number, as may be applicable;
- Agendas must be posted at each teleconference location, even if a hotel room or a residence;
- Each teleconference location, including a hotel room or residence, must be accessible to the public and have technology, such as a speakerphone, to enable the public to participate;
- The agenda must provide the opportunity for the public to address the legislative body directly at each teleconference location; and
- All votes must be by roll call.

Q. A member on vacation wants to participate in a meeting of the legislative body and vote by cellular phone from her car while driving from Washington, D.C. to New York. May she?

A. *She may not participate or vote because she is not in a noticed and posted teleconference location.*

The use of teleconferencing to conduct a legislative body meeting presents a variety of issues beyond the scope of this guide to discuss in detail. Therefore, before teleconferencing a meeting, legal counsel for the local agency should be consulted.

EL TORO WATER DISTRICT

Glossary of Water Terms

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

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

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

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

AFY: Acre-foot per year.

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

AMP: Allen McCulloch pipeline.

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

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

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

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

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

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

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

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

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

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

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

BIA: Building Industry Association.

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

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

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

Brackish water: A mixture of freshwater and saltwater.

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

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

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

CEQA: California Environmental Quality Act.

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

CFS: Cubic feet per second.

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

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

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

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

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

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

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

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

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

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

Crisis:

1. **a:** The turning point for better or worse **b:** a paroxysmal attack of pain, distress, or disordered function **c:** an emotionally significant event or radical change of status in a person's life <a midlife *crisis*>

2. The decisive moment (as in a literary plot)

3. **a:** An unstable or crucial time or state of affairs in which a decisive change is impending; *especially* : one with the distinct possibility of a highly undesirable outcome <a financial *crisis*> **b:** a situation that has reached a critical phase

CTP Coastal Treatment Plant

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

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

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

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

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

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

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

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

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

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

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

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

Disinfection: Water treatment which destroys potentially harmful bacteria.

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

Drought: A prolonged period of below-average precipitation.

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

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

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

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

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

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

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

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

Estuary: Where fresh water meets salt water.

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

FCH Federal Clearing House – Environmental Review/Processing

FEMA Federal Emergency Management Agency

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

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

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

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

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

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

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

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

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

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

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

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

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

GPM: Gallons per minute.

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

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

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

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

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

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

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

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

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

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

MAF: Million acre feet.

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

MET: Metropolitan Water District of Southern California.

MGD: Million gallons per day.

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

Microorganism: An animal or plant of microscopic size.

MWD: Metropolitan Water District of Southern California.

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

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

NPDES National Pollution Discharge Elimination System

OCBC: Orange County Business Council.

OCEMA Orange County Environmental Management Agency

OCWD: Orange County Water District.

Opportunity:

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

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

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

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

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

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

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

Potable water: Suitable and safe for drinking.

PPB: Parts per billion.

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

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

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

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

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

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

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

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

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

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

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

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

RFP Request for Proposal

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

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

R-O-W Right-of-way

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

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

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

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

SAFRA Santa Ana River Flood Protection Agency

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

SAWPA: Santa Ana Watershed Project Authority.

SCADA Supervisory Control and Data Acquisition

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

SCH State Clearing House – Environmental Review/Processing

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

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

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

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

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

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

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

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

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

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

SJBA San Juan Basin Authority

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

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

CSC – City of San Clemente

CSJC – City of San Juan Capistrano

CLB – City of Laguna Beach

ETWD – El Toro Water District

EBSD – Emerald Bay Service District

IRWD – Irvine Ranch Water District

MNWD – Moulton Niguel Water District

SCWD – South Coast Water District

SMWD – Santa Margarita Water District

TCWD – Trabuco Canyon Water District

SRF State Revolving Fund

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

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

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

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

SWRCB State Water Resources Control Board

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

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

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

TMA: Too many acronyms.

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

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

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

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

VE Value Engineering

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

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

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

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

Water-use Efficiency: The water requirements of a particular device, fixture, appliance, process, piece of equipment, or activity.

Water year (USGS): The period between October 1st of one calendar year to September 30th of the following calendar year.

Watermaster: A court appointed person(s) that has specific responsibilities to carry out court decisions pertaining to a river system or watershed.

Water Reclamation: The treatment of wastewater to make it suitable for a beneficial reuse, such as landscape irrigation. Also called water recycling.

Watershed: The total land area that from which water drains or flows to a river, stream, lake or other body of water.

Water table: The top level of water stored underground.

WEF Water Environment Federation. Formerly – Water Pollution Control Federation (WPCF). International trade group advising members of sewage treatment techniques and their effect on the environment.

Weir box: A device to measure/control surface water flows in streams or between ponds.

Wellhead treatment: Water quality treatment of water being produced at the well site.

Wetland: Any area in which the water table stands near, at, or above the land surface for a portion of the year. Wetlands are characterized by plants adapted to wet soil conditions.

Xeriscape: Landscaping that requires minimal water.