



# MARINA COAST WATER DISTRICT

11 RESERVATION ROAD, MARINA, CA 93933-2099

Home Page: [www.mcwd.org](http://www.mcwd.org)

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## DIRECTORS

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**Agenda**  
**Regular Meeting**  
**Water Conservation Commission**  
**MCWD Board Room, 11 Reservation Road, Marina, CA**  
**Thursday, September 7, 2017, 5:30 PM**

**Water Conservation Commission Mission Statement**

*To provide input to the Board of Directors on matters pertaining to the preservation of the District's water resource through conservation, technological improvements and policy.*

### Commission Members

Chair - Philip Clark  
Vice Chair - Charlie Eskridge  
Jan Shriner (MCWD Board Representative)  
Dave Brown (Marina City Council)  
Margaret-Anne Coppernoll (Public Member)

Jim Felton (Public Member)  
Jason Montgomery (Public Member)  
Efrem Valentin (Public Member)  
Bethany Taylor (Public Member)  
Walter Erwin (Public Member)

This meeting has been noticed according to the Brown Act rules. The Commission will receive information on, discuss, and may consider taking action or directing staff to return to the Board for action on items contained in this agenda. Some items are informational and are provided as a written report or verbal update and may not require Commission action.

1. Call to Order/Roll Call
2. Introduction of New Public Member, Efrem Valentin, and Re-appointed Commissioners Coppernoll, Felton, and Montgomery to the Water Conservation Commission
3. Public Comments on any item not on the Agenda *Any person wishing to address the Commission on matters not appearing on the Agenda may do so at this time. Please limit your comment to three minutes. The public may comment on any other item(s) listed on the Agenda at the time the item(s) is considered by the Commission.*
4. Action Items:
  - A. Elect Chair and Vice Chair of the Water Conservation Commission
  - B. Approve the August 3, 2017 Meeting Minutes

- C. Consider Recommending a First Reading of an Ordinance Amending the District Code, Chapter 3.36, to Update the Water Conservation Requirements for New Construction, Renovations, and Properties upon Change of Ownership or Use

5. Staff Reports:

- A. Receive an Update on Changes to the Commission Membership Table
- B. Receive New Commissioner Orientation Packet and Procedures for the Water Conservation Commission
- C. Receive a Verbal Update on the August 9th and August 23<sup>rd</sup> WCC Working Group Meetings
- D. Receive Updated GPCD, Water Production, and Water Consumption Data
- E. Receive an Update on Recent Public Information Events
- F. Propose Working Group Meetings and Review Agenda Items for the October 5, 2017 WCC Meeting and Future Meetings

6. Receive Update on Board/District Activities

7. Receive Comments from Commission Members *Please limit your comments to three minutes.*

8. Adjournment

Marina Coast Water District  
Water Conservation Commission  
Agenda Transmittal

Agenda Item: 4-A

Meeting Date: September 7, 2017

Prepared By: Paul Lord

Presented By: Paul Lord

Reviewed By: Jean Premutati

Agenda Title: Elect Chairperson and Vice Chairperson of the Water Conservation Commission

Staff Recommendation: The Commission select a new Chairperson and Vice Chairperson

Background: *Strategic Plan, Goal 1.7 - Review and update our water conservation program - We recognize that drinking water is one of the most precious resources on earth. We will assign this to the Water Conservation committee to review and update our water conservation program to ensure we are appropriately managing our water sources.*

Discussion/Analysis: The Procedures for the Water Conservation Commission state that a Chairperson and Vice Chairperson will be elected annually. Within the current framework of the Commission's operation, the annual election of the WCC Chairperson and Vice Chairperson is conducted in September of each year.

Environmental Review Compliance: None required.

Financial Impact:  Yes  No Funding Source/Recap: None

Other Considerations: None

Material Included for Information/Consideration: None

Action Required:  Resolution  Motion  Review

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Commission Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_ Abstained \_\_\_\_\_

Noes \_\_\_\_\_ Absent \_\_\_\_\_

Marina Coast Water District  
Water Conservation Commission  
Agenda Transmittal

Agenda Item: 4-B

Meeting Date: September 7, 2017

Prepared By: Paula Riso

Presented By: Paula Riso

Agenda Title: Approve the August 3, 2017 Meeting Minutes

Background: *Strategic Plan, Mission Statement – We Provide high quality water, wastewater collection and conservation services at a reasonable cost, through planning, management and the development of water resources in an environmentally sensitive manner.*

Discussion/Analysis: The draft minutes of August 3, 2017 are provided for the Commission to consider approval.

Environmental Review Compliance: None required.

Financial Impact:     \_\_\_ Yes     \_\_X\_\_ No     Funding Source/Recap: None

Other Considerations: The Commission can suggest changes/corrections to the minutes.

Material Included for Information/Consideration: Draft minutes of the August 3, 2017 meeting.

Action Required:     \_\_\_ Resolution     \_\_X\_\_ Motion     \_\_\_ Review

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Commission Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_ Abstained \_\_\_\_\_

Noes \_\_\_\_\_ Absent \_\_\_\_\_

Marina Coast Water District  
Water Conservation Commission  
Agenda Transmittal

Agenda Item: 4-C

Meeting Date: September 7, 2017

Prepared By: Paul Lord

Presented By: Paul Lord

Reviewed By: Jean Premutati

Agenda Title: Consider Recommending a First Reading of an Ordinance Amending the District Code, Chapter 3.36, to Update the Water Conservation Requirements for New Construction, Renovations, and Properties upon Change of Ownership or Use

Staff Recommendation: The Commission recommend a first reading of an Ordinance amending the District Code, Chapter 3.36, to update the water conservation requirements for new construction, renovations, and properties upon change of ownership or use.

Background: *Strategic Plan, Goal 1.7 - Review and update our water conservation program - We recognize that drinking water is one of the most precious resources on earth. We will assign this to the Water Conservation committee to review and update our water conservation program to ensure we are appropriately managing our water sources.*

Discussion/Analysis: The Land Use Jurisdictions served by the Marina and Ord Community Water Systems project a significant amount of New Development in the immediate future. Many older structures have existing water fixtures that are inefficient and wasteful. Projected water demand exceeds the amount of water resources currently available to the District. In addition, District wells, constructed in the Salinas Groundwater Basin coastal aquifer systems, are threatened by seawater intrusion. Updates to the water conservation requirements for new construction, renovations, and properties upon change of ownership or use will help reduce overall water demand at select properties throughout the service area.

The proposed modifications to the District Code include the following items for all New Construction. The proposed, lower flow rates of the devices mentioned below are equal to those required in the 2016 California Plumbing Code and the 2016 California Green Code (Standards for New Construction).

- A. *Ultra-High Efficiency Toilets (UHET's)* – State that there is an option to install these water efficient toilets that have a flush volume of 1.1 GPF or less.
- B. *WaterSense Certified Showerheads* – Require that all showerheads installed be EPA WaterSense certified, lowering the flow rate from no more than 2.5 GPM to no more than 2.0 GPM.
- C. *High Efficiency (HE) Clothes Washing Machines* – To help simplify the District Code, remove the requirement that HE clothes washers be required in New Construction. Stating this requirement is unnecessary. All new clothes washers sold in California after January 2018, and provided to new home owners as an option when they purchase a new home, will have a water use factor acceptable to the District.
- D. *Landscaping* – Change the title of the District document Developers shall refer to when installing new landscaping. The title *Standard Specifications of Landscaping and*

*Irrigation Systems* would be replaced with *Design Criteria for Landscaping and Irrigation*.

Following are proposed modifications to the District Code that affect all new additions, renovations, or remodels that involve any plumbing fixture additions and require District review and approval. Again, the proposed, lower flow rates of the devices mentioned below are equal to those required in the 2016 California Plumbing Code and the California Green Code (Standards for New Construction). The new requirements, applying to larger landscapes that are renovated, would bring old landscape irrigation systems up to the standards found in the *Updated Water-Efficient Landscape Ordinance* (December 2015). The proposed modifications are:

- A. *High Efficiency Toilets (HET's)* – Eliminate the stated option allowing the installation of ULFT toilets that have a flush volume greater than 1.28 gallons per flush. ULFT toilets are no longer sold in California.
- B. *Ultra-High Efficiency Toilets (UHET's)* – State that there is an option to install these water efficient toilets that have a flush volume of 1.1 GPF or less.
- C. *WaterSense Certified Showerheads* – Require that all showerheads installed or replaced be EPA WaterSense certified, lowering the flow rate from no more than 2.5 GPM to no more than 2.0 GPM.
- D. *Lower Flow Faucets* – Add a new requirement that all existing faucets that remain at a property be replaced or retrofitted to a defined, efficient flow rate.
  - Lavatory faucets in common and public use areas – 0.5 gallons per minute
  - Guest room and residential lavatory faucets – 1.2 gallons per minute
  - Metering faucets – 0.2 gallons per minute
  - Kitchen faucets – 1.8 gallons per minute
- E. *Irrigation System Upgrades* – Require dedicated landscape water meters or submeters, isolation valves, pressure regulation, weather-based irrigation controllers, and master shut-off valves for landscapes that are being rehabilitated, are associated with the permitted work, and have an aggregate landscape area equal to or greater than 2,500 square feet.

For all renovations or remodels that do not require plan checks by the District, but do involve a change in a showerhead, the modified District Code would state that the showerhead be WaterSense certified.

To improve the water use efficiency of existing hotels/motels and apartment buildings, the District Code would be modified to lower the flow rate of showerheads installed (proposed modification “C” above), and add a requirement that existing faucets also be retrofitted to the defined flow rates previously described as proposed modification “D”. The retrofitting of toilets at these properties would be done voluntarily or when the property is sold.

When a property is to be sold, or has a change of use, the modified District Code would require the retrofitting of toilets, showerheads, and faucets as previously described as proposed modifications “A, B, C and D”. This proposed modification to the District Code is of significance because of several factors as listed below:

- Most properties sold, or that have a change in use, will be required to perform some retrofitting. This is primarily due to the new, proposed requirement to retrofit or replace faucets that have flow rates exceeding the defined, efficient flow rates. It is estimated that a household’s annual interior water use can be reduced by 3.2%, or 1,720 gallons

through this type of retrofitting. The District would provide several types of free faucet aerators to customers in support of this type of retrofitting.

- The retrofitting to High Efficiency or Ultra-high Efficiency toilets would be the costliest retrofitting to perform, ranging somewhere between \$100 out-of-pocket cost for a single toilet and approximately \$1,000 out-of-pocket cost for three or four toilets. The District currently provides a rebate of up to \$125 per toilet to support this type of retrofitting.

An average of 138 properties are inspected each year to verify that retrofitting is performed upon sale or change of use. Of all the toilets inspected in the past four years, 891 toilets, or 67%, were found to have a flow rate that exceeds the new proposed flow rate. Therefore, it is estimated that approximately 223 toilets each year would need to be replaced as a requirement of our Water Conservation Certification Program.

By retrofitting toilets to this proposed standard, it is estimated that a household's interior water use can be reduced by 5.3%, or 2,876 gallons annually.

- It is estimated that approximately 85% of the properties inspected annually for the Water Conservation Certification would have to retrofit to the lower flowing WaterSense Certified Showerheads. Most showerheads are found to be several years old, having a flow rate of 2.5 GPM or higher. The District currently provides free WaterSense labeled showerheads to many customers in support of this type of retrofitting. Staff has already budgeted and purchased additional WaterSense showerheads to meet any additional demand.

By retrofitting showerheads to this proposed standard, it is estimated that a household's interior water use can be reduced by 3.4%, or 1,831 gallons annually.

In addition to the changes listed above for properties sold or having a change of use, staff proposes a change to the Integrated Water Factor listed for clothes washers that exist in commercial, institutional, and industrial structures. Previously, the Integrated Water Factor listed for residential type clothes washers was incorrectly used. The new, more rigorous requirement for commercial type clothes washers is an Integrated Water Factor of 8.8.

Environmental Review Compliance: None required.

Financial Impact:  Yes  No Funding Source/Recap: Funding for free showerheads and faucet aerators provided to customers that retrofit their properties comes from the Conservation Budget.

Other considerations: Modify all or some of the proposed changes as justified.

Material Included for Information/Consideration: Draft Ordinance XX

Action Required:  Resolution  Motion  Review  
(Roll call vote is required.)

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Commission Action

Motion By \_\_\_\_\_ Seconded By \_\_\_\_\_ No Action Taken \_\_\_\_\_

Ayes \_\_\_\_\_

Abstained \_\_\_\_\_

Noes \_\_\_\_\_

Absent \_\_\_\_\_



Marina Coast Water District  
Water Conservation Commission  
Staff Report

Agenda Item: 5-A

Meeting Date: September 7, 2017

Prepared By: Paul Lord

Presented By: Paul Lord

Reviewed By: Jean Premutati

Subject: Receive an Update on Changes to the Commission Membership Table

Summary: After the appointment of four Commissioners was made on August 21, 2017, staff updated the Water Conservation Commission Membership Table. The latest version of the table has been updated to include the names of the three re-appointed, and one newly appointed Commissioners and to show when their two-year terms end.

Marina Coast Water District  
Water Conservation Commission  
Staff Report

Agenda Item: 5-B

Meeting Date: September 7, 2017

Prepared By: Paul Lord

Presented By: Paul Lord

Reviewed By: Jean Premutati

Subject: Receive New Commissioner Orientation Packet and Procedures for the Water Conservation Commission

Summary: As suggested as a Water Conservation Commission objective in the Fall of 2016, staff has put together a packet of important information about the District for new Commissioners to review. In the packet, staff has included the following information:

- An excerpt from the current Marina Coast Water District Board Procedures Manual
- The Procedures for Marina Coast Water District's Water Conservation Commission
- Several bullet points about the history of the District
- Information about the Water Conservation Department's Rebates and incentives programs
- Resourceful links to information about water quality and salt water intrusion
- A helpful Acronym cheat sheet with links to help introduce the commissioners to other common terms and agencies

Marina Coast Water District  
Water Conservation Commission  
Staff Report

Agenda Item: 5-C

Meeting Date: September 7, 2017

Prepared By: Paul Lord

Presented By: Paul Lord

Reviewed By: Jean Premutati

Subject: Receive a Verbal Update on the August 9th and August 23rd WCC Working Group Meetings

Summary: On August 9, 2017, staff met with the Commissioners and reviewed the Draft Commissioner Orientation Packet being produced by staff. Planned changes to the packet were discussed.

The Commissioners also discussed was to get the commissioners more involved in public outreach and efforts towards the Water Conservation Commission Goals and Objectives. Time did not allow the group to develop presentation points to be used in a future update to the Board of Directors as planned.

At the August 24<sup>th</sup> working group meeting the Commissioners discussed the most recent topics at the monthly City/District meeting, the need for more City representation and participation at WCC meetings, the District's billing envelope message, and the proposed September WCC agenda.

Marina Coast Water District  
Water Conservation Commission  
Staff Report

Agenda Item: 5-D

Meeting Date: September 7, 2017

Prepared By: Paul Lord

Presented By: Paul Lord

Reviewed By: Jean Premutati

Subject: Receive Updated GPCD, Water Production, and Water Consumption Data

Summary: In response to the ongoing drought, the State Water Resources Control Board (SWRCB) approved an emergency regulation that directs water purveyors to electronically report monthly water production and consumption figures. Also to be reported to the SWRCB is an estimate of the amount of water used each day by residential customers. This estimate, called “residential gallons per capita per day”, or R-GPCD, more accurately portrays water use by individuals and allows communities to compare their efforts accurately with others around the state.

In support of the SWRCB actions, Marina Coast Water District staff has increased their efforts to compile and submit the required production, R-GPDC data, and other required monitoring reports each month. Staff will provide tables and charts that show water production figures through July 31st. Staff will also include tables and charts showing the gallons-per-capita-day (GPCD) and R-GPCD data that has been compiled. The documents are entitled:

- 2010 - 2017 Total Production by Month
- Monthly Production Savings and Cumulative Savings, June 2015 – Current Month
- Monthly Production Reduction Performance
- 2013 - 2017 Monthly GPCD (Gross Production)
- 2013 – 2017 Residential Gallons-Per-Capita-Day
- 2013 – 2017 Total Consumption (Line Graph)
- 2017 Total Billed Consumption (Pie Chart)
- 2013 – 2017 Total Consumption (Bar Graph)
- 2013 – 2017 Single-Family Consumption by Month
- 2013 – 2017 Multi-Family Consumption by Month
- 2013 – 2017 Residential Consumption by Month
- 2013 – 2017 Commercial/Institutional Consumption by Month
- 2013 – 2017 Landscape Irrigation Consumption by Month
- 2015 – 2017 Temporary Hydrant Meter Water Use and Number of Meters
- 12 Month Categorical Meter Count
- 2015-2017 Meter Count vs Metered Consumption

Marina Coast Water District  
Water Conservation Commission  
Staff Report

Agenda Item: 5-E

Meeting Date: September 7, 2017

Prepared By: Paul Lord

Presented By: Paul Lord

Reviewed By: Jean Premutati

Subject: Receive an Update on Recent Public Information Events

Summary: The Commission is to receive a verbal update on recent public outreach events.

School Day at the Monterey County Fair

Staff met with school children at the Monterey County Fair. Over 600 children received a brief talk about water conservation and received water conservation themed educational materials.

Water Conservation Showcase Event

On Saturday, September 2nd, the 13th Annual Water Conservation Showcase Event was held at the Monterey County Fair, in the Garden Courtyard located near Gate 4 from 12 PM – 5 PM. As a member of the Water Awareness Committee of Monterey County, staff taught fairgoers how to be water efficient both indoors and outdoors. Fairgoers were able to meet with various vendors, enter contests for prizes, listen to water conservation themed presentations, and watch/participate in performances by the musical group Zun Zun.

City of Marina Labor Day Festival

On Saturday, September 2<sup>nd</sup>, staff and commissioners set up the water conservation booth at the Marina Labor Day Festival. Staff provided information about the ease and importance of retrofitting home toilets and faucets to reduce water use, while Commissioners demonstrated the water saving benefits of high-efficiency WaterSense labeled showerheads. A WiFi irrigation controller was raffled off to one lucky booth visitor.

Marina Coast Water District  
Water Conservation Commission  
Staff Report

Agenda Item: 5-F

Meeting Date: September 7, 2017

Prepared By: Paul Lord

Presented By: Paul Lord

Reviewed By: Jean Premutati

Subject: Propose Working Group Meetings and Review Agenda Items for the October 5, 2017 WCC Meeting and Future Meetings

Summary: The Commissioners may propose agenda items for the October 5, 2017 meeting. In addition, the Commission may propose working group meeting times and topics for the month of September.

The following topics are proposed by staff for the October 5<sup>th</sup> WCC meeting:

- Update on the progress of the toilet retrofitting upon resale ordinance
- GPCD, water production, and water consumption data
- 2017 goals and objectives

The following working group meeting dates are proposed by staff:

- Wednesday September 13th and Thursday September 21st at 3:00 PM