

**STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

STAFF REPORT FOR REGULAR MEETING OF APRIL 20-21, 2023

Prepared on April 6, 2023

ITEM NUMBER: 16

SUBJECT: Field Trip – Tour of the Monterey One Water, Pure Water
Monterey Advanced Water Purification Facility

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ACTION: Information and Field Trip

SUMMARY

This item consists of a presentation overview of the Pure Water Monterey Groundwater Replenishment Project and a tour of the Pure Water Monterey Advanced Water Purification Facility starting at 8:30 a.m., Friday, April 21, 2023. The presentation and tour will be conducted at the Monterey One Water (M1W) Regional Treatment Plant located at 14811 Del Monte Boulevard, Marina. The presentation and tour are open to the public; however, space is limited, and transportation will not be provided. Persons interested in participating in the tour must RSVP by 12:00 noon, Monday, April 17, 2023, by emailing the Clerk to the Board at

RB3-CommentLetters@waterboards.ca.gov.

BACKGROUND

M1W, in partnership with the Monterey Peninsula Water Management District (MPWMD) and California American Water (CAW), is implementing the “[Pure Water Monterey Groundwater Replenishment Project](#)” (Project)¹ to deliver 3,500 acre-feet per year (AFY) of purified recycled water to the Seaside Groundwater Basin, in Monterey County. The project is intended to reduce pumping of water from the Carmel River Alluvial Aquifer and associated illegal diversions of water from the Carmel River,² to replenish the overdrafted Seaside Groundwater Basin in conjunction with a separate aquifer storage and recovery project,³ and ultimately provide a sustainable water supply for the Monterey Peninsula.

¹ <https://montereyonewater.org/261/Pure-Water-Monterey-Overview>

² https://www.waterboards.ca.gov/waterrights/water_issues/programs/hearings/caw_cdo/

³ https://www.mpwmd.net/MapGallery/GwrPstr_Left_small.pdf

The project consists of the collection and conveyance of wastewater from various sources to the M1W regional treatment plant, the Advanced Water Purification Facility, and the conveyance of purified water to Seaside Groundwater Basin injection wells. Influent to the Advanced Water Purification Facility consists of secondary-treated municipal wastewater from the regional treatment plant, agricultural wash water from the City of Salinas industrial treatment facility, storm water flows from the southern part of the City of Salinas, and storm water and agricultural runoff tile drain water from the Blanco Drain. The Advanced Water Purification Facility consists of the following components: ozone [membrane filtration] pre-treatment, membrane filtration, reverse osmosis treatment, ultraviolet (UV) disinfection with hydrogen peroxide (advanced oxidation process), and post-treatment stabilization (e.g., decarbonation and lime addition). The advanced treated water is conveyed by pipeline to the Seaside Groundwater Basin for groundwater recharge using injection wells. The injected water mixes with existing groundwater where it will be stored until it is extracted by nearby CAW groundwater production wells for distribution as potable water in Monterey Peninsula communities served by CAW.

The Central Coast Water Board regulates the facility through an individual waste discharge requirements (WDR) order, R3-2017-0003, in coordination with the State Water Resources Control Board Division of Drinking Water. M1W is currently in the process of seeking approval from the Division of Drinking Water, and subsequently the Central Coast Water Board via WDR revisions, to increase the groundwater injection capacity of the project by an additional 600 AFY.

M1W staff will give the project overview presentation and implement the tour of the Advanced Water Purification Facility.

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