



State Water Resources Control Board

Division of Drinking Water

July 18, 2022

Mickey Chaudhuri, P.E.
Assistant Group Manager, Water System Operations
Metropolitan Water Districts of Southern California
PO Box 54153
Los Angeles, CA 90054

DIVISION OF DRINKING WATER APPROVAL OF THE DEMONSTRATION TESTING AND MONITORING PLAN FOR ADVANCED WATER TREATMENT OF PRIMARY EFFLUENT AT PURE WATER SOUTHERN CALIFORNIA DEMONSTRATION PLANT (1990026-700)

Dear Mr. Chaudhuri,

This letter transmits the State Water Resources Control Board's Division of Drinking Water (Division) approval of the Metropolitan Water Districts of Southern California's (MWD) Demonstration Testing and Monitoring Plan (Plan) for Advanced Water Treatment of Primary Effluent at the Pure Water Southern California Demonstration Plant submitted June 24, 2022. The Division has reviewed the Plan including revisions based on Division's previous comments dated January 31, 2022. The Division has the following comments:

1. In Section 5.2.1, the report states, "it is preferred that a more long-term statistical metric, such as a 95th percentile, be used for pathogen LRV credits". Calculation of 95th percentile level should be performed at a minimum of every 15 minutes, looking back at the previous 96 quarter of an hour periods in the past 24 hours. This online turbidity "statistical metric" would be calculated 96 times in a day.
2. Division understands that calculation approach described above was not used by the Supervisory control and data acquisition (SCADA) system in the previous study. Please confirm that the SCADA for this study will be re-programmed as necessary.
3. It is recommended that Challenge Test 2 attempt to compromise the membranes to measure an effluent turbidity of approximately 0.20 NTU. While the test plan states that turbidities less than 0.1 NTU are typical operation, the test plan also notes that turbidities of 0.2 NTU occur sometimes. Measuring the LRVs at 0.20 would provide a basis to establish a critical limit at 0.20 NTU for operations.

E. JOAQUIN ESQUIVEL, CHAIR | EILEEN SOBECK, EXECUTIVE DIRECTOR

Setting the critical limit at a lower turbidity would be acceptable but may cause excessive diversions of off-spec water.

If you have any questions regarding this letter, please contact Faraz Asad at (714) 558-4708 or via email at faraz.asad@waterboards.ca.gov or me via email at Ginachi.Amah@waterboards.ca.gov.

Sincerely,

Ginachi Amah, P.E.
Recycled Water Unit Chief
Recycled Water Unit
Division of Drinking Water
State Water Resources Control Board
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cc:

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Martha Tremblay, Lysa Gaboudian, Michael Liu, Nikos Melitas, Shawn Thompson, Suzanne Brown, Los Angeles County Sanitation Districts (via email)

Jeong-Hee Lim, Steven Webb, Xiaofei Cui, Jayne Joy, Julio Lara, Regional Water Quality Control Board (via email)

Heather L. Collins, Metropolitan Water District of Southern California (via email)

RWU files