

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

STAFF REPORT FOR REGULAR MEETING OF SEPTEMBER 21-22, 2017

Prepared on July 25, 2017

ITEM NUMBER: 9

SUBJECT: Revision of Waste Discharge Requirements, Reissuance of National Pollutant Discharge Elimination System Permit No. CA00448160 for Goleta Sanitary District Water Resource Recovery Facility, Santa Barbara County, Order No. R3-2017-0021

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KEY INFORMATION

Location: One William Moffett Place, Goleta CA 93445
Place ID: 227568
Type of Discharge: Secondary-treated municipal wastewater and tertiary disinfected recycled water
Permitted Flow: Average daily dry weather flow shall not exceed 7.64 MGD and/or 3.3 MGD Recycled Water
Type of Treatment: Substantial upgrade of the Facility in December 2013, allowing the plant to achieve full secondary treatment. Primary effluent moves to a biofilter and then flows to an aeration basin. Secondary effluent is chlorinated and dechlorinated before discharge. A portion of the secondary process flow is diverted to the reclamation facilities for tertiary treatment with gravity filters for landscape irrigation and other uses.
Disposal Method: Discharge to Pacific Ocean
Solid Wastes: Offsite disposal of dredged solids to biosolid recyclers
Existing Orders: Waste Discharge Requirements (WDR) Order No. R3-2010-0012; Water Reclamation Requirements Order No. 91-03; Statewide General WDR for Sanitary Sewer Systems (State Water Board Order No. 2006-0003-DWQ); and Order WQ 2014-0057-DWQ/NPDES General Permit No. CAS000001, General Permit for Storm Water Discharges Associated with Industrial Activities

This Action: Adopt Order No. R3-2017-0021

SUMMARY

This agenda item proposes reissuance of an existing NPDES permit. The Fact Sheet, Attachment F of the proposed Order, includes the legal requirements and technical rationale that serve as the basis for the requirements of the permit. Water Board staff recommends adoption of the proposed Order.

DISCUSSION

The Goleta Sanitary District (hereinafter Discharger) is the owner and operator of the Goleta Sanitary District Water Resource Recovery Facility (hereinafter Facility), which provides secondary level treatment for the Goleta Sanitary District, the Goleta West Sanitary District, University of California, Santa Barbara, and the Santa Barbara Airport, which each have separate collection systems.

The Discharger completed a substantial upgrade of the Facility in December 2013, allowing the plant to achieve full secondary treatment. The primary effluent moves to a biofilter to trickle over plastic media where bacteria feed on organic wastes and then flows to an aeration basin. Secondary effluent flows to the head of the chlorine contact channel where sodium hypochlorite is injected to kill bacteria in the effluent. Prior to discharge into the ocean, sodium bisulfite is added for dechlorination, thus completing the disinfection process.

The draft Order (and the existing Order) applies to the Pacific Ocean discharge of secondary treated wastewater from Discharge Point No. 001 approximately 5,800 feet from shore at a depth of approximately 92 feet below sea level. The diffuser utilizes 36 four-inch diameter ports to achieve a minimum initial dilution of 122 parts seawater for every part effluent (122:1). A portion of the secondary process flow is diverted to the reclamation facilities for tertiary treatment with gravity filters and the draft Order also applies to the production of tertiary treated wastewater for recycling from Discharge Point No. 002. The distribution and uses of the recycled water are covered by other orders. Storm water runoff from the Facility can be discharged only in accordance with the requirements of the State Water Resources Control Board's Water Quality Order 2014-0057-DWQ, NPDES General Permit No. CAS000001, General Permit for Storm Water Discharges Associated with Industrial Activities.

Changes from the Existing Order

The proposed Order is structured in accordance with the State Water Board's NPDES permit template. The proposed Order is consistent with the current Order with the exception of the following changes and modifications:

- The current Order implements a federal 301(h) waiver. Since the Facility has been upgraded to full secondary treatment, the proposed Order does not include a 301(h) waiver.
- The Facility was upgraded to full secondary treatment ahead of schedule in December 2013. The proposed Order requires full secondary treatment standards (per 40 CFR 133.102) and water quality monitoring.
- When data was evaluated after the plant upgrade, the Reasonable Potential Analysis found that the Facility did not have a reasonable potential to discharge mercury. As such, the proposed Order has no mercury effluent requirements.
- The proposed Order includes an updated flow schematic (Draft Order, Attachment C).

Compliance History

The Goleta SD facility is generally well run and is in compliance. The Discharger has reported five minor violations during the permit term, none of which is linked to an enforcement action by the Water Board.

The Goleta SD reclamation facility is also generally well run and is in compliance. The Discharger has reported several pH violations during the permit term, none of which is linked to an enforcement action by the Water Board.

COMMENTS

The Water Board notified the Discharger and interested agencies and persons of its intent to prescribe WDRs for the discharge and provided an opportunity to submit written comments and recommendations. Notification was provided through publication in the San Santa Barbara News Press on June 15, 2017, posting on the Water Board's website, and posting at the facility. The written comments were due at the Water Board office by 5:00 p.m. on July 12, 2017. No comments were received during the public comment period.

RECOMMENDATION

Adopt Order No. R3-2017-0021, as proposed.

ATTACHMENT

For copies, please refer to the Water Board's internet website at:

http://www.waterboards.ca.gov/centralcoast/board_info/agendas/2017/2017_agendas.shtml

1. Proposed Order No. R3-2017-0021, including the following associated attachments:

- Attachment A – Definitions
- Attachment B – Map
- Attachment C – Flow Schematic
- Attachment D – Standard Provisions
- Attachment E – Monitoring and Reporting Program (MRP)
- Attachment F – Fact Sheet

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