

STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

EXECUTIVE OFFICER'S SUMMARY REPORT
MEETING DATE: November 13, 2014

ITEM: 19

SUBJECT: **Oro Loma Sanitary District Wet Weather Equalization and Ecotone Demonstration Project – What It Is and What It Intends to Demonstrate –**
Presentation by Jason Warner, Oro Loma Sanitary District, Michael Connor, East Bay Dischargers Authority, and Jeremy Lowe, ESA PWA

DISCUSSION: The purpose of this item is to update the Board on the Wet Weather Equalization and Ecotone Demonstration Project certified by Board staff in July and described in the August 2014 Executive Officer's Report. The Oro Loma Sanitary District (District) is constructing the project adjacent to its wastewater treatment plant in San Lorenzo, Alameda County, to study the potential for treatment wetlands to improve wastewater quality and to provide sea level rise protection for wastewater facilities and other infrastructure.

As certified, the District will create a multi-purpose wet weather equalization facility that will include both a treatment wetland and upland ecotone slope to further treat blended wastewater and stormwater. Specifically, the treatment wetland and ecotone will be constructed with a variety of wetland vegetation and soil type combinations to study the most effective means of further reducing nitrogen concentrations in treated wastewater and of using that treated wastewater to enhance the establishment of wetland vegetation. For purposes of the study, treated wastewater from the District's wastewater treatment plant will feed the treatment wetland and be allowed to saturate and flow through the ecotone slope. At that point, the flow will be monitored for nutrients and other constituents before being returned to the treatment plant for discharge to the Bay. Research on the effectiveness of nutrient and other contaminant removal by the treatment wetland and ecotone will be conducted in cooperation with ReNUWI. Results from this demonstration project are expected to inform the construction of similar facilities at other Bay Area wastewater treatment plants.

The update will be presented by the District's Jason Warner, East Bay Dischargers Authority's Mike Connor, and ESA PWA's Jeremy Lowe, who is responsible for project design.

**RECOMMEN-
DATION:** This is an information item only, and no action is necessary.