



**BOARD OF DIRECTORS
EAST BAY MUNICIPAL UTILITY DISTRICT**

375 - 11th Street, Oakland, CA 94607

Office of the Secretary: (510) 287-0440

Notice of Time Change


**PLANNING COMMITTEE
MEETING**

8:00 a.m.

Tuesday, January 9, 2018

Notice is hereby given that on Tuesday, January 9, 2018 the Planning Committee Meeting of the Board of Directors has been rescheduled from 9:15 a.m. to 8:00 a.m. The meeting will be held in the Training Resource Center of the Administration Building, 375 - 11th Street, Oakland, California.

Dated: January 4, 2018



Rischa S. Cole
Secretary of the District



**BOARD OF DIRECTORS
EAST BAY MUNICIPAL UTILITY DISTRICT**

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Office of the Secretary: (510) 287-0440

AGENDA

**Planning Committee
Tuesday, January 9, 2018
8:00 a.m.
Training Resource Center**

(Committee Members: Directors Mellon {Chair}, Linney and Young)

ROLL CALL:

PUBLIC COMMENT: The Board of Directors is limited by State law to providing a brief response, asking questions for clarification, or referring a matter to staff when responding to items that are not listed on the agenda.

DETERMINATION AND DISCUSSION:

1. Wet Weather Consent Decree Implementation Update (White)
2. Leland Reservoir Replacement Project Update and Announcement of the Availability of the Draft Environmental Impact Report (X. Irias)

ADJOURNMENT:

Disability Notice

If you require a disability-related modification or accommodation to participate in an EBMUD public meeting please call the Office of the Secretary (510) 287-0404. We will make reasonable arrangements to ensure accessibility. Some special equipment arrangements may require 48 hours advance notice.

Document Availability

Materials related to an item on this Agenda that have been submitted to the EBMUD Board of Directors within 72 hours prior to this meeting are available for public inspection in EBMUD's Office of the Secretary at 375 11th Street, Oakland, California, during normal business hours, and can be viewed on our website at www.ebmud.com.

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: January 4, 2018

MEMO TO: Board of Directors

THROUGH: Alexander R. Coate, General Manager *ARC*

FROM: Eileen M. White, Director of Wastewater *Eileen M. White*

SUBJECT: Wet Weather Consent Decree Implementation Update

SUMMARY

The District and its seven satellite collection system agencies (“Satellites”) have been implementing infiltration and inflow (I/I) reduction efforts since the Wet Weather Consent Decree (Consent Decree) was approved in September 2014. The Consent Decree requires the District and the Satellites to eliminate discharges from the District’s three wet weather facilities (WWFs) by 2036 through the reduction of I/I. Staff will provide an update on the District’s implementation of Consent Decree requirements at the January 9, 2018 Planning Committee meeting.

DISCUSSION

The Consent Decree utilizes an asset management-based approach to eliminate discharges from the District’s three WWFs. Instead of using a more traditional approach of large storage or treatment infrastructure, the Consent Decree concentrates on the rehabilitation of the older public and private infrastructure that allows stormwater to enter the regional collection system. By its design, the Consent Decree requires action by the parties directly responsible for the aged infrastructure to implement appropriate corrective measures – private property owners are responsible for private sewer laterals, the Satellites are responsible for community sewer systems, and the District is responsible for its interceptors.

Compliance with the Consent Decree is determined through the use of a flow model. Calibration efforts are performed annually to determine reduction levels to date in I/I and WWF discharges. Results from the flow model are reported to the regulators and used to determine Consent Decree compliance at check-in points in years 2022 and 2030, and final compliance in year 2036.

Compliance with the Consent Decree is determined through a review of Output Ratios at each of the WWFs, comparing current discharge volumes to those that occurred in the baseline year of FY11 under a prescribed storm event. The FY17 Output Ratios for Point Isabel WWF, San Antonio Creek WWF, and Oakport WWF were 0.97, 0.86, and 0.86, respectively, reflecting reductions of 3 percent, 14 percent, and 14 percent. Trends associated with these reductions are being monitored to assess the ability of the District and the Satellites to meet Output Ratio targets for the upcoming check-in with the regulators in September 2022. With only three years

of data analysis completed to date it is premature to draw conclusions about likely compliance status at this time.

To comply with the Consent Decree, the District is implementing a number of initiatives, including an inflow investigation program known as the Regional Technical Support Program (RTSP), the Regional Private Sewer Lateral (PSL) Program, flow modeling, and two capital improvement projects.

Regional Technical Support Program

The objective of the RTSP is to identify sources of inflow and rapid infiltration in the Satellite-owned and operated sewer systems through District-led field investigations. Identified I/I sources that are deemed high priority are reported to the regulators, triggering repair/rehabilitation by the responsible party (i.e., Satellite or private property owner). For the 22-year Consent Decree term, the District is required to spend a minimum of \$2 million annually on these field investigations and associated activities.

Using investigative tools such as flow monitoring, smoke testing, and visual inspections including closed circuit television and 3D manhole inspections, staff has identified a number of significant I/I sources within the regional collection systems, including cross-connections with stormwater systems, connections with abandoned pipes now conveying storm/groundwater, and illicit connections to the sewer such as area drains.

For FY17, the District has significantly increased its flow monitoring program to better understand the performance of individual basins in the service area and isolate areas with significant peak flows and volumes. Approximately 375 flow meters were installed for the 2017-18 wet season. These meters are installed to assess storm response across the wastewater service area at three different scales – the micro-basin level (multiple blocks), the sub-basin level (neighborhood) and the interceptor tributary level (basin). Staff is continuing to assess innovative technologies for effectiveness and efficiency in the identification of I/I through contracted pilot projects.

Regional Private Sewer Lateral Ordinance Program

The Regional PSL Program began in 2011 and now includes all Satellites except for Berkeley, which continues to implement its own stand-alone PSL program. As part of the Regional PSL Program, the District issues compliance certificates to property owners who demonstrate their PSL is leak-free upon hitting triggers, including property sale. Through December 15, 2017, 27,389 compliance certificates have been issued, representing approximately 21 percent of the parcels within the program area and with approximately 370 miles of leak-free PSLs. Currently, the Regional PSL Program is approximately 10 percent behind projections, which were based on a review of property transactions over the previous 30 years. Unfortunately, the program's start coincided with the start of the housing downturn and recession. As the point-of-sale requirement for compliance is the driver for most certifications, market conditions will continue to directly impact the program's ability to meet projections. The expectation is that market conditions will

balance over time. For FY17, the compliance rate with the program was 94 percent. As in the past several years, this compliance rate exceeded the District's Key Performance Indicator of 90 percent.

Consent Decree Capital Projects

Under the Consent Decree, the District is required to implement two capital improvement projects. The Urban Runoff Diversion Project (URDP), formally commissioned in October 2017, is currently treating up to 500,000 gallons per day of dry weather urban runoff at the District's Main Wastewater Treatment Plant (MWWTP) as mitigation for continued operation of the WWFs during the term of the Consent Decree. By treating the runoff at the MWWTP, the District is removing pollutants found in the stormwater that would normally not receive treatment. Through December 15, 2017, the URDP has conveyed 112 million gallons to the MWWTP that otherwise would have been discharged to San Francisco Bay.

The second capital project, the Pump Station Q Force Main Reversal Project, is currently being constructed to provide additional capacity for flows from the north to the MWWTP, thereby reducing discharges from Point Isabel WWF. Construction is scheduled to be completed by September 2020.

NEXT STEPS

Staff will continue implementation of the Consent Decree and will keep the Board informed on progress.

EMW:JZ:cd

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: January 4, 2018

MEMO TO: Board of Directors

THROUGH: Alexander R. Coate, General Manager *ARC*

FROM: Xavier J. Irias, Director of Engineering and Construction *XJI*

SUBJECT: Leland Reservoir Replacement Project Update and Announcement of the Availability of the Draft Environmental Impact Report

INTRODUCTION

The Leland Reservoir Replacement Project (Project) was identified in the 2006 Water Treatment and Transmission Improvements Program Environmental Impact Report (EIR), and the 2012 Reservoir Infrastructure Rehabilitation Plan ranked Leland Reservoir as a high-priority, open-cut reservoir for replacement. The Leland Reservoir Replacement Facilities Plan completed in March 2014 determined the preferred project is to replace the existing open-cut reservoir with new dual reservoirs and replace the existing transmission pipeline that traverses under the existing reservoir with a new pipeline in city streets. A presentation of the Facilities Plan was provided to the Planning Committee in February 2015.

The Project work includes preparation of an EIR in support of the Facilities Plan recommendations. This memo provides an update on the Project, including an overview of the public outreach process completed to date and the Project schedule. The Draft EIR will be available on January 25, 2018. Staff will provide a presentation to the Planning Committee on January 9, 2018.

DISCUSSION

Project Purpose and Description

The existing 18 million gallon (MG), open-cut Leland Reservoir, constructed in 1955 opposite 1050 Leland Drive in the City of Lafayette, will be replaced with new dual 8 MG reservoirs in the existing open-cut basin. The 36-inch pipeline that traverses under the existing reservoir will be replaced with a total of approximately 3,650 linear feet of 36-inch pipeline in Windsor Drive, Condit Road, a short section of Leland Drive from Condit Road to Meek Place, and on the reservoir property boundary. All Project element locations are shown on Attachment A. The reservoir is at the end of its useful service life, and its replacement is necessary due to the deteriorated condition of the pre-cast concrete roof (including rainwater ponding), mature trees growing in the earthen embankment, obsolete mechanical and electrical equipment, and the reservoir's criticality in serving the Leland Pressure Zone which serves portions of Lafayette,

Pleasant Hill and Walnut Creek. The Project will rehabilitate and/or replace aging infrastructure, improve water quality operations efficiency, and improve domestic and emergency water service reliability with an optimally-sized facility at the existing location.

This Project supports the District's Long-Term Infrastructure Investment Strategic Plan goal.

Review of Environmental Impacts

Pursuant to the California Environmental Quality Act, staff completed a Draft EIR that reviews environmental impacts and proposes mitigation measures to reduce any potentially significant impacts to less than significant, if possible. One environmental impact has been identified as significant and unavoidable – construction noise for any work beginning before 8:00 a.m. and limited night work for pipeline connections – as there are no feasible mitigation measures available that can reduce the impacts to less than significant. A number of District standard construction specifications, standard practices from the District's Environmental Compliance Manual, and Engineering Standard Practices will also be incorporated into the Project. These standard specifications and standard practices are designed to address typical characteristics of District construction projects and reflect generally applicable District standard operating procedures.

Public Outreach

Three neighborhood outreach and scoping meetings were held on August 3, September 15, and September 28, 2016 in the City of Lafayette. In addition, one information and outreach meeting with City of Lafayette staff was held in 2016, and District staff presented the Project at a Lafayette City Council Meeting on November 28, 2016. Issues and concerns raised by City staff and the community at these meetings included neighborhood disruption and emergency access associated with construction of the pipeline on Windsor Drive, Condit Road, and Leland Drive; construction hours; noise and traffic during construction; public safety during construction; loss of trees at the reservoir site; and visual impacts of the new tanks. The issues and concerns noted are addressed in the Draft EIR.

NEXT STEPS

The Draft EIR will be published on January 25, 2018 with a 45-day public comment period ending on March 12, 2018. A public meeting will be scheduled in February 2018 to solicit comments on the Draft EIR. The Final EIR, which will respond to any comments received during the public review period, is scheduled to be submitted to the Board of Directors for consideration in June 2018.

If the Board of Directors approves the Final EIR in June 2018, design and construction of the Project will begin in 2020 and 2022, respectively.

ARC:XJI:DJR:dks

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Attachment: A – Leland Reservoir Replacement Project Location and Overview Map

