



ADMINISTRATIVE REPORT

TO: PUBLIC WORKS COMMISSION

FROM: Brad B. Underwood, Public Works Director

PREPARED BY: DEPARTMENT OF PUBLIC WORKS

MEETING DATE: March 9, 2016

SUBJECT: Public Works Capital Projects Update

RECOMMENDATION

That the Public Works Commission receive an update on the Clean Water Program.

BACKGROUND

The City of San Mateo is currently under a Regional Water Quality Control Board (RWQCB) Cease and Desist Order (CDO) requiring improvements to its collection system and wastewater treatment plant to eliminate sanitary sewer overflows and unauthorized discharges. The Clean Water Program (CWP) is a large capital improvement program established to upgrade aging infrastructure, enhance reliability and provide capacity for wet weather flows in the sanitary sewer collection system and wastewater treatment plant as required in the 2009 Regional Water Quality Control Board Cease and Desist Order and 2013 National Pollutant Discharge Elimination System permit.

In August 2015, Clean Water Program staff presented four alternative technology approaches to the Public Works Commission and City Council. The Membrane Bio-reactor Alternative was recommended because it has the least cost impact, treats the full dry weather wastewater treatment plant influent flows to reclaimed water standards, and increases available space for future facilities. This alternative is able to meet potential future water quality regulatory requirements sooner without additional capital investment and has received positive commentary in meetings with Regional Water Quality Control Board staff. The Public Works Commission and City Council supported this approach.

Since then Clean Water Program staff has been revising project scopes, schedules and budgets, and seeking opportunities to bundle projects together for more efficient and effective project delivery and to accelerate the schedule from a 20-year capital program to a 10-year program.

The Clean Water Program Management Office (PMO), an integrated team of City staff and consultant staff from CH2M, entered its second year in October 2015. Attachment 1 provides an update of the progress and activities thus far in this second year of program delivery.

BUDGET IMPACT

The current estimate for the total program cost, escalated based on the proposed delivery schedule over a period of 10 years is approximately \$800 million. To fund these improvements, sewer rates are expected to grow annually, potentially in low to mid double digits over the next several years. The rate setting process for fiscal year 2016-2017 is underway and the estimated rate increase will be presented to City Council in April 2016.

ENVIRONMENTAL DETERMINATION

Since the Public Works Commission is only receiving updates on the Clean Water Program at this time, this meeting is not a project subject to CEQA in that there will be no resulting impact on the environment. (CEQA Guidelines Section 15061(b) (3).)

NOTICE PROVIDED

All noticing requirements met.

ATTACHMENTS

Att 1 – Clean Water Program Progress

STAFF CONTACT

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Attachment 1 – Clean Water Program Progress

General Program Updates

CEQA Programmatic Environmental Impact Report (Draft PEIR)

- The public comment and review period for the Draft PEIR, extended by the request of the City of San Mateo Public Works Commission, was completed on January 22, 2016.
- Clean Water Program staff are reviewing and preparing responses to comments, which will be incorporated in the Final Draft PEIR expected to be released in late April 2016.

Planning for State Revolving Fund (SRF) Loan Application Package

- In February 2016, the cities of San Mateo and Foster City brought a joint exercise of powers agreement to their City Councils to establish the San Mateo-Foster City Joint Powers Public Financing Authority.
- The SRF General Application Package, part of a four-part application, is scheduled to be submitted by early March 2016 to start the SRF process. The remaining three application packages, including the Environmental package will be completed after certification of the Programmatic Environmental Impact Report in June 2016.

Status Report to the Regional Water Quality Control Board (RWQCB)

- The Clean Water Program team met with RWQCB staff on January 22, 2016 to provide an update on the progress since the last meeting in June 2015. RWQCB staff provided favorable comments on the program's progress and technology approach.

Vendor Faire II

- On November 5, 2015, the City of San Mateo held its second Vendor Faire to update potential vendors on the status of the Clean Water Program projects. Invitations were sent to local, state and national consultants, constructors and vendors associated with the Clean Water Program related project needs. A large turnout of attendees participated in the event and provided valuable feedback on the Program.

Public Outreach

- Efforts continue on improvement and expansion of the public outreach approach for the program. The program continues to use a multi-media approach including printed mailers, website content, press releases, and social media.
- Three neighborhood meetings will be conducted in late March to provide opportunities for all members of the public to come learn about the program and ask questions. These will be conducted as an "open house" forum in three different locations around the City.

Sustainability Goals

- The PMO team is developing a plan for evaluating the Clean Water Program using the Envision™ rating system to measure baseline attainment of

sustainability goals and look for opportunities to increase attainment without increasing cost.

Sanitary Sewer Collection System Projects

Basins 2 & 3 Collection System Improvements

- Request for Qualifications for the design consultant for the Basins 2 & 3 Collection System Improvements was prepared, advertised, and received on January 15, 2016. Two qualified design firms submitted, and interviews were held to select the final designer. Negotiations are underway with the selected designer and award of professional services agreement is anticipated in April 2016.

El Cerrito Relief Line Project

- The El Cerrito Relief Project is currently under construction and is approximately 40% complete.

Infiltration and Inflow Reduction Study

- The Infiltration and Inflow (I/I) Reduction Study agreement was awarded to West Yost and Associates on October 19, 2016, to evaluate I/I reduction potential of focused rehabilitation in the C basins, investigate salinity issues, and evaluate potential effectiveness of replacing sewer laterals. Flow monitoring will be conducted over the next few months to gather data in the collection system.

Pump Station Projects

- Work continues on the Pump Station and Force Main Condition Assessment contract (awarded by City Council on July 20, 2015).
- Design of the 42nd Avenue Pump Station Improvements is nearing completion and is scheduled to advertise in spring 2016.

Sanitary Sewer Cleaning and CCTV Inspection

- Work continues on the D Basin Sanitary Sewer Cleaning and CCTV Inspection (awarded July 20, 2015).
- The contract for the El Camino Real Sanitary Sewer Cleaning and CCTV Inspection is scheduled to be awarded in March 2016.

Wastewater Treatment Plant Projects

WWTP Primary Clarifier No. 4

- Primary Clarifier No. 4 Rehabilitation construction project achieved Substantial Completion and has been returned to full operation.

WWTP Biosolids Study

- A Biosolids Study is underway to develop a master planning vision for future biosolids use and energy recovery at the WWTP which will provide insight and criteria to aid planning and design of Clean Water Program projects.
- There have been a number of key milestones for the Biosolids Study during this period, including the development of project drivers, goals, success factors, market drivers and available options, and project evaluation criteria.

- Workshops were conducted, including the discussion and development of alternatives and path forward to select viable options to manage biosolids and energy recovery needs at the WWTP.

WWTP Facilities Plan

- Architectural firm Burks-Toma was selected through a request for qualifications process and architectural theme competition to provide detailed design and designer support for the wastewater treatment plant improvement projects. Clean Water Program team members including operations and maintenance staff, design consultant, and architect have been working to develop the layout for the Detroit Drive parcel and the associated treatment plant elements to be constructed on that parcel.
- Coordination meetings were held with the architect and Headworks/Primaries Designers, who presented initial concepts. Concepts and limitations for the Detroit Drive layout and different alternatives were revised and updated.
- Presentation of the final alternatives and selection of the preferred layout for Detroit Drive Parcel was held on January 20, 2016. The preferred layout addresses the most critical operational, safety, and circulation requirements of the new wastewater treatment facilities and combines them with architecturally desirable features to integrate with the surrounding community. The layout will be progressed during the next phase of conceptual design.

WWTP Primary Clarifiers/Headworks Conceptual Design

- HDR Engineering, the design consultant for the Primary Clarifier Replacement and New Headworks Facility Project, conducted focus meetings to collect information from City staff and present preliminary concepts, submitted draft technical memoranda to staff for review and comment, and conducted follow-up focus meetings on those subject areas.
- HDR led site visits to four WWTPs to view various headworks technologies and layouts and discuss Operations and Maintenance with staff, and met with staff to discuss BioCET strategy.

WWTP Immediate Action Projects (IAP) Construction Package

- The Wastewater Treatment Plant Immediate Action Projects Construction Package I was advertised, and bids opened on January 20, 2016.
- Work will consist of the rehabilitation of existing Secondary Clarifiers, rehabilitation of existing Gravity Thickeners, replacement of electrical motor control centers, and upgrade of the instrumentation and control systems.
- Award of construction contract is scheduled for March 7, 2016.

WWTP Secondary Treatment Consultant Selection Process

- Request for Qualifications for the design consultant for the WWTP Secondary Treatment Facilities Project was prepared, advertised, and received on January 21, 2016. Two qualified design firms submitted, and interviews were held February 11, 2016 to select the final designer. Negotiations are underway with the selected designer and award of professional services agreement is anticipated in April 2016.