



DATE: May 20, 2024

TO: President and Members of the Estero Municipal Improvement District (EMID) Board of Directors

VIA: Stefan Chatwin, District Manager
Marlene Subhashini, Assistant District Manager

FROM: Andrew Brozyna, Public Works Director

DEPARTMENT: Public Works

SUBJECT: WASTEWATER TREATMENT PLANT MASTER PLAN
IMPROVEMENTS PROJECT (CIP 455-652) - CLEAN WATER
PROGRAM - UPDATE FOR QUARTER 1 – JANUARY THROUGH
MARCH 2024

RECOMMENDATION

It is recommended that the Board of Directors of the Estero Municipal Improvement District (EMID) by minute order, receive and accept this Quarter 1 progress update on the Wastewater Treatment Plant (WWTP) Master Plan Improvements Project (CIP 455-652) – Clean Water Program (CWP). No further action is required by the EMID Board of Directors.

EXECUTIVE SUMMARY

This report summarizes the progress-to-date of the WWTP Master Plan Improvements Project (CIP 455-652) - Clean Water Program (CWP) for the City of San Mateo/EMID WWTP for the months of January 2024 through March 2024. The report includes summary information about construction and other project activities over the first quarter of the calendar year.

BACKGROUND

The CWP is a comprehensive Capital Improvement Program to rehabilitate the sanitary sewer collection system in the City of San Mateo and the treatment systems at the San Mateo WWTP. EMID has 24.12% ownership of the WWTP. In October 2014, the City of San Mateo retained Jacobs to serve as the Program Manager responsible for overseeing the management of the approximately \$1 billion-dollar combined program, including the coordination of the design, construction, and start-up activities of this multi-year project.

The EMID Board of Directors requested that staff provide updates on a regular basis. The WWTP Expansion Project is being performed using a Construction Manager at Risk (CMAR) delivery method, whereby the contractor is involved in the project early in the design process and the City benefits from the contractor providing constructability input and insight to inform the design development.

The Program Manager and Construction Manager is Jacobs. The WWTP Expansion Project Design Engineer is HDR. The team for the disinfection improvements portion of the WWTP Expansion Project is Trussell Technologies. HDR is also providing Engineering Services During Construction (ESDC). The CMAR is Sundt Construction Inc. (Sundt).

ANALYSIS

Construction Package 1 – Site Preparation (Original Agreement with Sundt - \$33,098,178) is complete and in the closeout phase. Construction Package 2 – Foundation Piles (Amendment No. 1 to the Agreement with Sundt - \$17,716,049) is complete and the Notice of Completion was filed with the County in March.

Construction Package 3 – WWTP Facilities (Amendment No. 2) - Efforts by the Contractor to mitigate schedule impacts from multiple change events are ongoing. Major ongoing work continues to include process mechanical (motors and pumps), plumbing, HVAC, and electrical work (gear including cabinets, breakers, switches, conduit and wiring) throughout the treatment structure. The yard piping has been completed except for the final connection of the force mains to the headworks which is scheduled for August 2024. Installation of the interior components of the warehouse continues and is anticipated to be complete in May 2024. Additionally, improvements to the existing sodium hypochlorite and sodium bisulfite systems as well as the chlorine contact basins continues. The primary screens, grit chambers, fine screens, and grit washers have been installed in the headworks Area 51.

Administration Building

Construction of the Administration Building is nearing completion. Installation of the exterior siding and ceilings occurred during this period and is projected to be completed by June 2024. Startup and commissioning (including LEED commissioning) activities are in their final stages. Furnishing of the Administration Building is expected to occur in June 2024. Subsequently, the City/WWTP Operations staff is planning to occupy the building in time for process startup and operations of the new WWTP. General sitework, such as site lighting, irrigation, landscaping, signage, and parking lot, is ongoing.

Plant Commissioning

Construction of the new treatment facilities and associated commissioning activities are currently anticipated to be complete in late summer 2024. Clean water testing, process seeding (the introduction of microorganisms into the wastewater being treated), startup, and functional demonstration is expected to occur in the August to October 2024 timeframe. The new liquid treatment processes are anticipated to be in full service by the end of October 2024.

Final Project Completion

The current final completion is projected to be August 2025 (as of the end of April 2024). The overall schedule has been pushed out due to various issues. A major portion of this potential schedule impact is stemming from challenges with the delivery of certain scopes of work, such as electrical components, due to supply chain issues. Several of these key components that would typically take months to order currently have lead times of over a year. Efforts by the contractor to mitigate schedule impacts from multiple change events are ongoing. The City and contractor are working together to minimize potential delays and reduce the potential completion date extension. The City of San Mateo is continuing discussions with the contractor pertaining to the contractor's responsibility for any resulting increases in management costs as a result of any schedule changes.

QUARTERLY CONSTRUCTION REPORT

Attachment 1 consists of selected portions of the Quarterly Progress Report for January through March 2024 published by the Program Management Team on April 23, 2024, summarizing the budget, schedule, and project activities that have occurred during the first quarter of 2024 and activities that are anticipated to occur in the second quarter of 2024 for the following projects:

- WWTP Expansion Project (comprised of GMP-1, GMP-2, and GMP-3),
- Immediate Action Projects (IAPs), and
- Annual Major Component Projects (AMCs).

Attachment #2 consists of a site plan showing the locations of the various process units being constructed as part of the projects.

Attachment #3 includes photographs of construction activities at the site over the past 3 months.

Attachment #4 includes a history of the financing for the Project.

More detailed information including additional photographs and architectural renderings of the completed WWTP Expansion Project as well as real time video of the active construction, are available on the Clean Water Program Project site:

<https://cleanwaterprogramsanmateo.org/wwtp/>.

CALIFORNIA ENVIRONMENTAL QUALITY ACT

A Programmatic Environmental Impact Report (EIR) was prepared for the WWTP Master Plan Improvements Project (State Clearinghouse No. 2015032006).

FISCAL IMPACT

There is no fiscal impact associated with receiving this update.

As described in the Quarterly Report provided as Attachment A, the total forecast Estimate at Completion (EAC) for the WWTP Expansion Project is approximately \$572.08 million, which is an increase of approximately \$9.4 million (EMID share: approximately \$2.3 million) from the last quarterly update. This information was presented to the City Council at its February meeting during the last quarterly update. See Attachment #4 for a history of project financing.

CITY COUNCIL VISION, MISSION, AND VALUE/PRIORITY AREA

Facilities and Infrastructure

ATTACHMENTS:

Attachment 1 – Selected Portions of Quarterly Progress Report – 1st Quarter Report, January 1, 2024 to March 31, 2024

Attachment 2 – Wastewater Treatment Plant Site Plan

Attachment 3 – Construction Photographs

Attachment 4 – Project Financing