

MINUTES OF A MEETING OF THE
ENGINEERING/EQUIPMENT COMMITTEE
OF THE VALLECITOS WATER DISTRICT
MONDAY, DECEMBER 6, 2021, AT 3:00 P.M.
AT THE DISTRICT OFFICE IN THE BOARD ROOM
201 VALLECITOS DE ORO, SAN MARCOS, CALIFORNIA

Director Elitharp called the meeting to order at the hour of 3:18 p.m.

Present: Director Elitharp
Director Hernandez
Assistant General Manager Gumpel
Asset Management Supervisor Bowman
Capital Facilities Senior Engineer Morgan
Capital Facilities Engineer Santos
Operations and Maintenance Manager Pedrazzi
Development Services Senior Engineer Lopez
Engineering Services Assistant Fretwell

PUBLIC COMMENT

None.

ITEM(S) FOR DISCUSSION

MEADOWLARK RECLAMATION FACILITY AERATION BASIN IMPROVEMENTS
PROJECT UPDATE

Capital Facilities Engineer Santos provided an update on the Aeration Basin Improvements Project. Panels have been replaced in 2007 and 2011, but they continued to show inefficiency. Since the panels were no longer being made, we were unable to get parts to make the necessary repairs. Therefore, a study was completed to update the aeration zone and add a biological selector. A notice to proceed with construction was issued in March 2021.

Capital Facilities Engineer Santos stated that due to supply chain issues, the Aeration Basin Improvements Project was delayed by three months. The supplies are scheduled to arrive on December 7 and progress will continue. The first basin will be tested by early January, and project completion is expected in March 2022. Even with the delays, the project is estimated to have a surplus of approximately \$330,000.

Assistant General Manager Gumpel added that the new biological selector has the primary goal of removing phosphorus, which contributes to algae in the Mahr Reservoir. Algae can be costly to treat since it feeds bugs and larvae and produces additional maintenance for the system. Also, the previous aeration basins used membranes, but they were susceptible to failure. By using the ceramic discs, it brings reliability.

EMERGENCY BYPASS REHABILITATION PROJECT UPDATE

Capital Facilities Engineer Santos stated the Emergency Bypass Rehabilitation Project is being conducted due to three breaks over the last six years (2015, 2017, and 2019). The emergency bypass allows sewer flows to bypass the treatment plant to the sewer outfall and has not been operational since the last break in 2019. Constructed with 16" Techite fiberglass reinforced pipe in 1967, the fragile nature of the pipe material lends to failure. To address the issue, the 16" sewer bypass will be structurally lined with CIPP from Pine Nursery to Melrose Drive, 3,200 ft. Five manholes will be installed, one per 1,000 ft.

To conserve costs, this Emergency Bypass Rehabilitation Project will be combined with the Failsafe Rehabilitation Project. The projects run parallel to each other. The Failsafe Rehabilitation Project begins off Redwing Street and runs through the canyon along the bypass. The failsafe has also shown past failures nearby.

Capital Facilities Engineer Santos further stated that the engineers estimate is \$1.7 million, and \$3.2 million is currently budgeted for planning, design, and construction. In January 2022, the design will be completed and the bid documents will be advertised. The bid opening and project award will occur through February and early March.

Assistant General Manager Gumpel stated that the failsafe is in three sections divided by which agencies share the section. There will be multiple projects over the next few years involving the rehabilitation of the failsafe throughout the three sections.

MAINTENANCE SERVICES DEPARTMENT OFFICE IMPROVEMENTS UPDATE

Capital Facilities Senior Engineer Morgan stated the Maintenance Services Department Office Improvements is a new item before the Committee to create an office space for the Maintenance Services Department. This newly created department does not have an office space and seeks to modify the existing shop area in Building C into an office setting. The current space is not finished and requires HVAC, mechanical, plumbing, electrical, and other updates to create the office space.

Capital Facilities Senior Engineer Morgan explained that the Operations and Maintenance Department requested the Capital Department facilitate planning, design, bid, and construction phases of this project. Proposals were solicited from qualified architects who have done work for other local agencies in the North County San Diego area. Over the next week, the four proposals received will be evaluated. This project is currently scheduled to begin in June 2022 with construction ending in 2023 or earlier. Currently \$150,000 is budgeted for in the 2021-2022 fiscal year.

Operations and Maintenance Manager Pedrazzi stated that the Facilities Maintenance Department includes landscapers, mechanics, and warehouse workers. The department needs a place to work and meet.

Assistant General Manager Gumpel stated this is an informational item that will come to the Board for architectural award acceptance in either December 2021 or January 2022. The construction budget will be assessed for the 2022-2023 fiscal year.

OTHER BUSINESS

None.

ADJOURNMENT

There being no further business to discuss, the meeting was adjourned at the hour of 3:44 p.m.