



DATE: April 26, 2022

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Approve a Midyear Capital Improvement Project—Shoreline Sailing Lake Pump Replacement**

RECOMMENDATION

Acting in its capacity as Board of Directors of the Shoreline Regional Park Community, approve a midyear Capital Improvement Program project, Shoreline Sailing Lake Pump Replacement, and transfer and appropriate \$400,000 from the Shoreline Regional Park Community Fund to the new project.

BACKGROUND

The water in Shoreline Sailing Lake is supplied by the San Francisco Bay through the Sailing Lake pump located at the south end of Inner Charleston Slough. To maintain the quality of the water in the Sailing Lake, approximately 10 million gallons per day of water is pumped into the lake. Water volume is managed by an overflow weir where the water discharges into Permanente Creek.

In July 2020, the primary Sailing Lake pump failed and was sent out for repair, and the backup pump was installed. During this time, the pump manufacturer's facility that produces the required repair parts shut down operations due to the COVID-19 pandemic. In November 2021, the backup Sailing Lake pump failed after multiple repair attempts by staff and the City's pump services contractor. With both Sailing Lake pumps out of commission, rental pumps were brought in to maintain Sailing Lake operations at a cost of \$15,000 per month plus installation and removal fees. The rental pumps are a different style of pump that sit above ground as they are not able to fit within the pump well and are noisy. Due to the expense and incompatibility with the Shoreline Lake area, the rental pumps should be replaced as soon as possible. However, parts are still unavailable to repair the two City-owned pumps, and there is no indication of when they will become available.

ANALYSIS

City staff worked with the City's pump repair contractor, engineering consultants, and pump distributors to locate and verify compatibility for a new submersible pump from a different

manufacturer. This new pump can utilize the existing electrical connections and intake and discharge piping, eliminating the need for additional design work and heavy construction. These project efficiencies will reduce the time and cost to install a new pump.

The Sailing Lake Pump Replacement project will purchase two 65-horsepower submersible pumps (one for installation and one spare) and all required installation materials. These pumps will be rated to operate in a marine environment and provide the needed seawater pumping capacity of 10 million gallons per day for Sailing Lake operations. To avoid future issues with replacement parts and pump serviceability, staff will procure pumps with locally available replacement parts and servicing.

FISCAL IMPACT

There is sufficient funding in the Shoreline Regional Park Community Fund for the recommended transfer and appropriation of the \$400,000 for the Sailing Lake Pump Replacement project.

ALTERNATIVES

1. Do not create a midyear CIP for a Sailing Lake Pump replacement, and continue to use rental pumps and study other alternatives.
2. Provide other direction.

PUBLIC NOTICING—Agenda posting.

Prepared by:

Mike Vasquez
Utilities Services Manager

Reviewed by:

Lisa Au
Assistant Public Works Director

Approved by:

Dawn S. Cameron
Public Works Director

Audrey Seymour Ramberg
Assistant City Manager/
Chief Operating Officer

MV/CL/4/CAM
747-04-26-22CR
201961

cc: PSSM—Mehta, SMA—Doan