



Legislation Text

File #: 2022-607, Version: 1

Contract No. 2201762
PS 1 Rack and Grit HVAC Upgrade
CIP #211011 / BCE 77.50

Agenda of: January 25, 2023

Item No.: **2022-607**

Amount: \$5,294,101.00

TO: The Honorable
Board of Directors
Great Lakes Water Authority

FROM: Suzanne R. Coffey, P.E.
Chief Executive Officer
Great Lakes Water Authority

DATE: December 22, 2022

RE: **Contract No. 2201762**
PS 1 Rack and Grit HVAC Upgrade
Vendor: Clark Construction

MOTION

Upon recommendation of Navid Mehram, Chief Operating Officer - Wastewater Operating Services, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), authorizes the Chief Executive Officer (CEO) to enter into **Contract No. 2201762, "PS 1 Rack and Grit HVAC Upgrade" with Clark Construction Company, at a cost not to exceed \$5,294,101.00 for a duration of 920 Days;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

The Rack and Grit processing facility is immediately downstream of Pump Station 1 (PS 1). This process removes screenings and grit from the wastewater stream before heading to the primary clarifiers for further treatment. The rack and grit process is enclosed within the rack and grit building. This building was constructed in 1940. The HVAC system that serves this building was updated in the early 2000's. This existing heating system in rack and grit consists of a combination of natural gas making up air handling units and steam unit heaters. Air handling units 7 through 13 were placed on the roof of rack and grit to increase ventilation, air changes to meet code requirements for air changes, and steam unit heaters were added to provide additional heat to the building. The current heating system has operational issues, it is difficult to maintain and obtain parts for, and the units have exceeded their useful life and need replacement.

JUSTIFICATION

The current heating and ventilation system has passed its design and useful life and is not providing the necessary service needed to keep Pump Station 1 Rack and Grit Facility safe and functioning by providing heating and air changes. Excessive maintenance is required to keep them in service and avoid the risk of pipes freezing and causing a shutdown of the rack and grit facility. Shutdown of the facility would cause a disruption of flow at the plant by also shutting down Pump Station 1. Shutdown of Pump Station 1 would likely lead to untreated discharges, and cause a violation of the NPDES permit, in addition to jeopardizing the safety of GLWA staff. Lastly, proper operating HVAC units are required by the National Fire Protection Agency (NFPA) for proper air changes. Units that are not functioning, not only do not heat the space, but they do not change the air out in the space. This can result in buildup of dangerous gases commonly found in wastewater, which can become a safety issue for GLWA team members.

FINANCIAL PLAN IMPACT

Summary: Sufficient funds are provided in the financial plan for this project.

Funding Source: Sewer Construction Fund

Cost Center: Wastewater

Expense Type: Construction (5421-892211.000-616900-211011)

Estimated Cost by Year and Related Estimating Variance: See table below.

Fiscal Year

<i>FY 2023 Plan</i>	<i>\$278,000.00</i>
<i>FY 2024 Plan</i>	<i>1,588,000.00</i>
<i>FY 2025 Plan</i>	<i>1,584,000.00</i>
<i>FY 2026 Plan</i>	<i>550,000.00</i>
<i>Financial Plan Estimate</i>	<i>\$4,000,000.00</i>
<i>Proposed Contract Award</i>	<i>5,294,101.00</i>
<i>Estimating Variance</i>	<i>(\$1,294,101.00)</i>

The award of this contract creates a negative estimating variance of \$1,294,101.00. This variance will be funded from capital reserves. Please note that the amounts above as per the Draft#1 FY2024-2028 CIP has \$4,000,000.00 budgeted for Construction (Build) #2 CIP 211011.

COMMITTEE REVIEW

This item was presented to the Operations and Resources Committee at its meeting on January 11, 2023. The Operations and Resources Committee unanimously recommended that the GLWA Board adopt the resolution as presented.

SHARED SERVICES IMPACT

This item does not impact the shared services agreement between GLWA and DWSD.