



City Council Report

Date: May 6, 2024
To: City Council
Through: Marc Heirshberg, Deputy City Manager
From: Beth Huning, City Engineer
Marc Ahlstrom, Assistant City Engineer
Subject: Greenfield Water Reclamation Plant (GWRP) Blower System Electrical Improvements
City Project No. CP0625GN01
Council District: District-Citywide

Purpose and Recommendation

The purpose of this report is to present the second Guaranteed Maximum Price (GMP No. 2) for the installation of the electrical improvements for the Greenfield Water Reclamation Plant (GWRP) Blower System Electrical Improvements project (Refer to Exhibit "A" for the project location).

GMP No. 2 includes the installation of the electrical equipment that was ordered in GMP No. 1. The electrical equipment to be installed includes various switchgears, transformers, a transfer controller, and associated equipment.

Staff recommends that Council Award a contract for this project to Ludvik Electric in the amount of \$3,771,417.00 (GMP No.2) and authorize a change order allowance in the amount of \$188,570.85 (5%).

Background

The City of Mesa, Town of Gilbert, and Town of Queen Creek (the "Owners") jointly own the GWRP. The Owners seek to complete electrical improvements in the Blower Building and power centers 3A and 3C at the GWRP. The electrical improvements will replace existing equipment and provide redundancy for those locations that currently does not exist. The Blower Building provides air to the aeration basins which are essential to treat the GWRP wastewater.

The Blower Building electrical equipment is at the end of its service life and is no longer supported. Also, the lack of a redundant power feed can disrupt the operation of the plant in the case of a power outage.

Discussion

In June of 2021, Staff received one (1) "Statement of Qualifications" (SOQ) from a contractor proposing to act as the CMAR for this project. Based on an evaluation of the SOQ, Ludvik Electric was recommended as the most qualified CMAR and was awarded a Pre-Construction Services contract in December 2021. Ludvik Electric has performed pre-construction services during the design development including reviewing the design for constructability, preparing cost estimates, and developing the project schedule and phasing.

This approval is for the final of two GMP's for this project.

The table below illustrates the anticipated timeline of GMP's for Council review.

Project	Scope of Work	Anticipated Date	GMP Total
GMP No. 1	Purchase and temporary storage of equipment and materials, including pumps, electrical equipment, and valves.	Approved October 3, 2022	\$3,485,422.02
GMP No. 2	Installation of equipment and the remaining work.	May 6, 2024	\$3,959,987.85
Total			\$7,445,409.87

Once underway, the overall construction of this project is anticipated to last no more than 15 months.

Alternatives

An alternative is to not perform the work. This is not recommended because the existing is at the end of its service life and is more difficult to service and repair resulting in an increased risk of disruption of the operations at the plant due to power outages or equipment failure.

Fiscal Impact

The total authorized amount recommended for this project is \$3,959,987.85, based upon a GMP of \$3,771,417.00 plus an additional \$188,570.85 (5%) as a change order allowance. This allowance will only be utilized for approved change orders.

This project is funded by the Greenfield Water Reclamation Plant Joint Venture Fund, with contributions coming from its partners based on usage. Funding will be split amongst the three partners, Mesa: \$1,655,274.93 (41.8%); Gilbert: \$1,576,075.16 (39.8%); and Queen Creek: \$728,637.76 (18.4%).

Coordinated With

The Water Resources Department concurs with this recommendation. Also, this project is being coordinated with the Towns, of Gilbert and Queen Creek as partners in the Greenfield Water Reclamation Plant Intergovernmental Agreement, dated August 7, 2018.