



AGENCY: Municipal Improvement District
MEETING DATE: January 27, 2020
DEPARTMENT: Public Works
PRESENTED BY: John Smith
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AGENDA ITEM SUMMARY

TITLE:

Receive Report and Consider Adoption of Fort Bragg Municipal Improvement District Resolution Authorizing District Manager to Execute Contract Change Orders for the Wastewater Treatment Plant Upgrade Project, Project No. 2018-01, Increasing the Amount of the Construction Contract with Wahlund Construction, Inc., by a Not To Exceed Amount of \$1,037,000

ISSUE:

The Wastewater Treatment Plant Upgrade Project (Project) construction contract was awarded to Wahlund Construction, Inc. (Wahlund) on May 14, 2018. The contract amount is a lump sum amount of \$15,352,500. The effective date for the Notice to Proceed (NTP) was June 20, 2018. Cost savings throughout the project have provided funds for the repair of equipment that will remain and some small upgrades to improve efficiency, safety and protection of the waters of the United States. The recommended improvements will keep the Project within budget.

ANALYSIS:

The State Water Resources Control Board (Water Board) and the United States Department of Agriculture (USDA) have completed their project inspection and audits of related paperwork. Both agencies were very impressed by the organization of documents and overall progress of construction. The Project is nearly 80% complete with approximately \$3.5 million remaining in the budget and four months before substantial completion. Final completion is anticipated by early June; however, this date may be extended due to this change order work. The contingency for the Project currently has funds available in the amount of \$1,037,000. If these grant funds are not spent, we will return them to USDA. Staff put together a list of improvements to spend down the contingency balance. This list was presented to the USDA for prior approval before moving forward with this recommendation. The list contains our highest priorities in consideration of safety, environment and our customers. The list of proposed change orders was not included in the original scope in order to keep the overall cost of the Project to a minimum and focus on the failing treatment system. Nevertheless, this additional work will improve key parts of the waste treatment process.

Asphalt Pavement (\$91,000)

The existing asphalt surface inside the plant has exceeded its expected life. The area targeted for surface improvement was constructed in 1979. Forty years of rain and heavy equipment operation have taken their toll. This change order will include removal of the damaged surface and add an apron to gain access to the biosolids drying beds. The area of improvement will total 22,475 square feet of 3.5-inch asphalt.

Spare Pumps for the Treatment Plant Lift Stations (\$76,000)

There are two new pump stations at the treatment plant. The larger station pumps influent product to the new treatment unit. The second pump station will convey onsite storm water to the headworks to be run through the treatment process. These pumps have a sixteen-week lead-time from order to receipt. For this reason, having these pumps on the shelf will provide an additional layer of redundancy for further protection of the environment and quick response to unforeseen emergencies.

Motor Control Centers (MCC) – (\$100,000)

The motor control centers distribute electricity to major portions of the plant process. This change order will replace three fifty-year-old MCCs that are located in the main control building, chemical feed building and the compressor room. This upgrade was included to improve reliability of these areas of the treatment process.

Supervisory Control And Data Acquisition System (SCADA) – (\$470,000)

SCADA systems work by operating switches and devices. A remote user can read the incoming data and then control equipment without needing to be present. It will allow us to monitor levels of specific chemicals and flows and will provide precise records that are accessible from anywhere. This system allows complicated process systems to operate in a safe manner and be maintained by a relatively small staff, improving productivity and efficiency. To further stretch the remaining project funds, the operators will be taking care of installation of the equipment required for this change order.

Septage Receiving Station, Filtrate Pump Station Overhaul and Septage Receiving Plan (\$300,000)

There has been some discussion and requests for the addition of a septage receiving station here in Fort Bragg. Currently septage haulers transport product to Willits, Comptche or Point Arena. This comes at great cost to area customers. The proposed change order will include the septage station, upgrades to an existing pump station and a Septage Management Plan that is required by the Water Board. Our treatment plant design engineers (HDR) are comparing three different septage-receiving stations to find the best unit at the lowest cost and the least maintenance. HDR was also tasked with providing the solids loading calculations for the treatment plant. This work will allow us to understand how much septage our treatment plant can handle without upset. The design will include use of existing infrastructure to house and convey effluent to the plant. This project is expected to be a revenue generator for the District.

Staff anticipates additional costs associated with this addition. The price point per gallon received will be set at a reasonable cost to cover the listed expenses below.

1. Personnel
2. Electrical
3. Dumpster
4. Water
5. Analytic testing
6. Biosolids disposal
7. Replacement

The District is on track to complete major infrastructure improvements to the treatment system providing opportunity for greater control of the process and pushing the limits of efficiency.

RECOMMENDED ACTION:

Staff recommends the District Board adopt the attached Municipal Improvement District Resolution and authorize the District Manager to execute Wahlund Construction's contract by the not to exceed amount.

ALTERNATIVE ACTION(S):

Return unexpended grant funds back to the funding agency.

FISCAL IMPACT:

This project has been well run, providing excess contingency funds. The construction change orders will be grant funded. This money will allow the District to complete other needed improvements at

the facility, thereby reducing future District expense. The addition of a septage receiving station is expected to be a revenue generator.

GREENHOUSE GAS EMISSIONS IMPACT:

There will be a large reduction in GHG after transition from the anaerobic digesters (methane producers) to aerobic digesters. The added equipment included in the change orders will provide optimum electrical efficiency, further reducing our carbon footprint. The greatest reduction will be through reducing the distance the septage haulers need to drive to dispose of their product.

CONSISTENCY:

This project is consistent with the CIP approved by the District Board.

IMPLEMENTATION/TIMEFRAMES:

Estimated completion date of project is early June 2020, subject to possible adjustments in the proposed change order.

ATTACHMENTS:

1. MID Resolution

NOTIFICATION:

1. Wahlund Construction Inc.