



City of Muscatine



AGENDA ITEM SUMMARY

DATE: 02/18/21

City Council

STAFF

Jon Koch-Director WRRF

SUBJECT

Magnolia Lift Station new pumps and control panel installation

EXECUTIVE SUMMARY

The WRRF staff have received two quotes for the purchase and installation of two new pumps and control panel at the Magnolia Lift Station. The station's one existing pump needs a back-up to maintain continuous operation and an alarm system to notify staff when there is an issue. Iowa Pump Works had the lowest bid of \$15,497.97. \$25,000.00 was budgeted for this project.

STAFF RECOMMENDATION

Staff recommends issuing a purchase order for the purchase and installation of two E/One pumps and control system from Iowa Pump Works in the amount of \$15,497.97.

BACKGROUND/DISCUSSION

The Magnolia Lift Station is located at the end of the culdesac on Magolia Street. It was installed in the 50's to service the six houses below the gravity sewer line under the street. It only has one pump and when it fails the station overflows to the storm sewer that flows to a ravine. DNR requires that new upgrades for these older stations install a duplex, or two pump, system to ensure continuous operation and avoid sewer overflows.

The station currently has no alarm system so there is no indication of pump failure until checked by staff which is done multiple times a week. The pump was pulled five times in 2020 to remove wipes that are being flushed requiring the vac and jet truck to assist and staff to enter a confined space. The new system will have a lead/lag pump system with an alarm so if one pump fails the other will maintain station operation. This will require an electrician to install new wiring from the pumps to a new control panel to be mounted near the power pole. Bids for the electrical work are currently being collected but a cost of less than \$5,000.00 is anticipated. The current control panel is in a small brick building in the middle of the culdesac. This building can then be removed which will facilitate easier snow plowing, trash collection and traffic movement. City staff will do the demolition, new concrete cover and manhole installation at minimal cost. The complete project is not anticipated to exceed the \$25,000.00

budget. Electric Pump's quote did not include installation and would exceed the quote from Iowa Pump Works. A third quote was requested but not submitted by the vendor.

CITY FINANCIAL IMPACT

There is \$25,000.00 budgeted for the entire project. The electrician and work by the City is not anticipated to exceed the budgeted amount.

ATTACHMENTS

Two quotes