



DATE: January 29, 2024  
TO: Ty Lasher, City Manger  
FROM: Ted Henry, Assistant City Manager/ Finance Director  
SUBJECT: Lift Station Badger Mag Flowmeter

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**Background:**

All wastewater from Bel Aire is channeled through a network of mains and lift stations towards CCUA for treatment.

While there is a flow measurement system at the lift station located at 53<sup>rd</sup> Street, the Harding lift station, which also directs sewage from Bel Aire to CCUA, lacks a functional metering system. The existing Badger Mag flow meter at this station, installed in 2003, has been out of operation for several years and is unrepairable. Although staff can estimate wastewater volumes based on the operational run time, a new flow meter is necessary to precisely record the total volume of wastewater being sent to CCUA.

**Discussion:**

The proposed upgrade involves installing a new Badger Mag flow meter, along with compatible controls, to seamlessly integrate with Bel Aire's existing SCADA system. This system is specifically designed and maintained by R.W. Vaught. Therefore, it is recommended that R.W. Vaught Technical Services purchase the meter and JCI undertake the installation. After JCI's work is completed, R.W. Vaught will come back out to ensure full system compatibility and functionality.

**Bid Information:**

Bid Amount for a Badger Mag flow meter from R.W. Vaught: \$17,500  
Bid Amount for R.W. Vaught to install: \$10,000  
Bid Amount for JCI to install: \$6,925

**Financial Considerations:**

The funding for this project will be allocated from the lift station operations budget within the Sewer Utility funds.

**Recommendation:**

Staff recommends accepting the bid from R.W. Vaught, amounting to \$17,500, for the new Badger Mag flow meter. Staff recommends accepting the bid from JCI, amounting to \$6,925 to *install* the new Badger Mag flow meter. Total Cost = \$24,425.