



REPORT TO: STILLWATER UTILITIES AUTHORITY

MEETING DATE: MARCH 2, 2020

Agenda Item:	5a. SUA-20-05
Prior Council Action/Related Items: (Hyperlinks Or PDF)	N/A
Background / Issue:	<p>Chloramine dosing stations are necessary to address key parts of the water distribution system.</p> <ul style="list-style-type: none"> • Disinfection using chloramine, a combination of chlorine and ammonia, is used in the City’s water distribution system to maintain safe water. • Oklahoma Department of Environmental Quality regulates the amount of chloramine present in the City’s water distribution system. • Chloramine in the water can dissipate as it travels through the system. Flushing is a common method for making sure that there is enough chloramine in the water in all points of the system. • Over time and over long distances of pipe, the need for flushing can increase to excessive levels.
Proposal/Solution:	<p>Staff proposes to install two chloramine dosing stations to address key parts of the water distribution system. The chloramine dosing stations will analyze water quality parameters in real time and add additional chlorine and ammonia as needed. The additional chlorine and ammonia will combine to replace chloramine that has dissipated, and restore optimum levels of chloramine.</p> <p>Improvements are necessary in order to:</p> <ul style="list-style-type: none"> • Ensure that ODEQ regulations can be met. • Reduce the labor and resources required for flushing. • Reduce the amount of treated water used to maintain water quality. • Reduce inconvenience to the public due to flushed water on the ground and water pressure changes due to flushing. <p>WUE staff evaluated the qualifications and availability of consultants capable of performing this work. Carollo was selected for the evaluation and design phase of this project. City and Carollo staff are negotiating a scope and fee for a Professional Services Agreement (PSA) for these services.</p> <p>The project scope includes:</p>

- Design of two chloramine dosing stations. Locations:
 - Karsten Pump Station (on Highway 51, west of Stillwater).
 - South Perkins Pump Station (on Highway 177, south of Stillwater)
- Preparation of ODEQ permit application
- Bidding Services
- Construction Administration Services
- Preparation of Record Drawings

Carollo's fee for Professional Services is not anticipated to exceed \$120,000. Staff will return to SUA with a request for expenditures for construction once the project team has solicited bids.

Additional costs for miscellaneous related expenses, such as underground utility location, may be necessary. Such costs are anticipated not to exceed \$1,200.

Financial Impact/Funding Source(s):	Funds for the project will be appropriated from the Water Capital Fund, which contains sufficient funds to complete the work. Budget amendment is attached.
Related Strategic Priority:	#4: Place and Mobility: To develop a strong sense of place that recognizes the interconnectedness of people, buildings and public systems (such as transportation, utilities and parks) that best serve the needs of the public.
Recommended Action/Motion:	<p>Motion to:</p> <ul style="list-style-type: none"> • authorize General Manager to execute the Professional Services Agreement with Carollo Engineers, Inc. in an amount not to exceed \$120,000; • authorize total project expenditures of \$134,000, including 10% contingency; and • approve the associated budget amendment.
Prepared By:	Brandon Neal, Water Utilities Engineer
Reviewed By:	Bill Millis, Director, Water Utilities Engineering Paula J. Dennison, Assistant City Manager
Submitted By:	Norman McNickle, City Manager
Attachment(s):	Budget Amendment