



REPORT TO: STILLWATER UTILITIES AUTHORITY

MEETING DATE: FEBRUARY 3, 2020

Agenda Item:	5a. SUA-20-02
Prior Council Action/Related Items: (Hyperlinks Or PDF)	N/A
Background / Issue:	<p>Background information regarding the Water Treatment Plant (WTP) residuals handling system includes:</p> <ul style="list-style-type: none"> • The WTP has seven lagoons that store residual liquid and solids, which are by-products of water treatment processes. • Solids are occasionally dredged from the lagoons and stockpiled on the north side of the WTP property. At some point, this location will no longer be a viable disposal field due to area and volume limitations. • The lagoons are in poor condition, in need of rehabilitation, and have been the subject of past DEQ notices of violation. • The recycle pump station, which returns lagoon decant water to the raw water tank, is in poor condition and needs replacement. • The WTP does not have a Residuals Management Plan, which is a state regulatory requirement. <p>Significant improvements to the residuals system are required in order to:</p> <ul style="list-style-type: none"> • effectively manage the liquid and solid residuals produced from the treatment process, • maintain compliance with ODEQ regulations, • avoid lagoon overflows and other environmental impacts, • avoid a consent order, and • plan for future plant expansions.
Proposal/Solution:	WUE staff issued a Request for Proposals to obtain professional services for evaluation of the residuals management and the recycle system at the WTP. Carollo Engineers, Inc. was selected

to provide these services. City and Carollo staff negotiated a scope and fee for these services to include:

- laboratory tests of the WTP solids to determine settling and thickening ability,
- determination of the hydraulic conditions for the recycle system, solids contact blowdown and backwash water collection systems,
- assessment of the current condition and performance of the existing lagoons, recycle water pumping system and overall solids handling process,
- development of alternatives for residual liquid and solids disposal – including on and offsite options,
- development of alternatives for rehabilitated lagoons, including engineered lagoons (concrete lined),
- preparation of an Engineering Report, and
- preparation of a Residuals Management Plan.

Carollo’s fee for their basic services is \$274,668, additional services (survey, geotechnical and potholing) is \$70,000, for a total of \$344,668. Staff will return to SUA with a request for additional expenditures for design, bidding and construction administration once the project team has finalized the path forward.

The following proposed alternatives are available:

- Approve the agreement with Carollo Engineers, Inc.
- Direct staff to re-negotiate the fee with Carollo. If unsuccessful, begin negotiations with the next qualified consultant.
- Cancel the project, leaving significant improvements un-addressed that are required for the WTP residuals management system.

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.

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:

Motion to:

- authorize General Manager to execute the Professional Services Agreement with Carollo Engineers, Inc. in the amount of \$344,668;

- authorize total project expenditures of \$380,000 including about 10% contingency; and
- approve the associated budget amendment.

Prepared By:

Michael Lyons, Senior Project Manager
Candy Staring, Capital Program Manager

Reviewed By:

Bill Millis, Director, Water Utilities Engineering
Paula J. Dennison, Assistant City Manager

Submitted By:

Norman McNickle, City Manager

Attachment(s):

Budget Amendment