



AGENDA MEMORANDUM

Future Item for the City Council Meeting of May 14, 2019
Action Item for the City Council Meeting of May 21, 2019

DATE: April 23, 2019

TO: Keith Selman, Interim City Manager

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<p style="text-align: center;"><u>Professional Services Contract Amendment No. 1</u> Laguna Madre Wastewater Treatment Plant Rehabilitation (Capital Improvement Program)</p>
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CAPTION:

Motion to authorize execution of Amendment No. 1 to a contract for professional services with Urban Engineering of Corpus Christi, Texas in the amount of \$392,210 for a total restated fee of \$419,070 for the Laguna Madre Wastewater Treatment Plant Rehabilitation project.

PURPOSE:

The purpose of this agenda item is to obtain authority to execute a professional services contract amendment for engineering and design of a comprehensive rehabilitation of Laguna Madre Wastewater Treatment Plant (WWTP).

BACKGROUND AND FINDINGS:

Laguna Madre WWTP is located along the Laguna Madre at the end of Jester St. on the east side of Flour Bluff. The WWTP was constructed in 1971 with a capacity of 0.5 MGD and the last major expansion in 1983 increased treatment capacity to 3 MGD and 9 MGD Peak flow. The existing equipment is beyond its service life and economical maintenance. Critical improvements are required for safety of plant operators and continued compliance with Texas Commission on Environmental Quality (TCEQ) Standards. This proposed project rehabilitates structures and

replaces equipment in the lift station, aeration basins, clarifiers, belt press and other treatment structures. The scope includes building improvements to the operations building, digester blower building and other existing structures.

An initial small engineering contract provided a preliminary condition assessment and cost estimate for the existing WWTP structures and equipment. This amendment provides for more detailed site investigations, analysis of existing systems and investigation of new technology for new treatment equipment. Based on the results, the engineer will prepare required construction documents for bidding and construction phase support services.

A summary of the engineering task includes:

- Prepare detailed construction documents for structural, electrical, mechanical, operational, and miscellaneous improvements
- Evaluate and recommend rehabilitation of structures and replacement of equipment for the lift station, aeration basins, belt press, chlorine contact chamber, sludge waste system, sludge concentrator and sludge holding tank
- Investigate new technology to improve operational efficiency and treatment
- Structural evaluations and recommendations of existing buildings, equipment and systems
- Evaluate and recommend improvements to various buildings including operations building, digester blower building, maintenance building and a new office building
- Conduct design review workshops with staff
- Bid phase support for addendum, pre-bid meeting and contractor bid evaluation assistance
- Provide construction administration and technical support
- Prepare and submit to City final As-Built drawings

ALTERNATIVES:

1. Authorize execution of Amendment. (Recommended)
2. Do not authorize execution of Amendment. (Not Recommended)

OTHER CONSIDERATIONS:

Urban Engineering was selected for this project through Request for Qualifications No. 2017-03.

CONFORMITY TO CITY POLICY:

Complies with statutory requirements for professional services contracts. Conforms to FY 2018-2019 Capital Improvement Planning (CIP) Budget.

EMERGENCY / NON-EMERGENCY:

Non-Emergency

DEPARTMENTAL CLEARANCES:

Water Utilities Department

FINANCIAL IMPACT:☐ Operating☐ Revenue☒ **Capital**☐ Not applicable

Fiscal Year 2018-2019	Project to Date Expenditures (CIP only)	Current Year	Future Years	TOTALS
Budget		1,000,000	4,600,000	5,600,000
Encumbered / Expended Amount		26,860		26,860
This item		392,210		392,210
Future Anticipated Expenditures This Project		281,500		281,500
BALANCE		299,430	4,600,000	4,899,430

Fund(s): Wastewater Fund 4252

Comments:

Fund Name: Wastewater Fund 4252 (2013 Rev Bd)

Activity: 18086-A-4252-EXP 550950

Account No. 550950 (Professional Services)

Project No. 18086A Laguna Madre Wastewater Treatment Plant Rehabilitation.

Sequence No. Wastewater CIP Sequence #18

RECOMMENDATION:

City staff recommends approval of Amendment No. 1 to a professional services contract with Urban Engineering.

LIST OF SUPPORTING DOCUMENTS:

Project Budget
Location Map
Presentation
Amendment No. 1