



AGENDA MEMORANDUM

Action Item for the City Council Meeting of July 26, 2016

DATE: July 20, 2016

TO: Margie C. Rose, City Manager

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One Reading Action Item
Engineering Contract

City of Corpus Christi Water System Assessment and Optimization

CAPTION:

Ordinance amending the FY 2016 Capital Improvement Budget adopted by Ordinance No. 030621 to add Project No. E16332 City of Corpus Christi Water System Assessment and Optimization; transferring funds in the amount of \$555,000 from Water Capital Reserves; and authorizing the City Manager or designee to execute a contract for professional services with Hazen and Sawyer of Corpus Christi, Texas in the amount of \$500,000 for the City of Corpus Christi Water System Assessment and Optimization Project; and declaring an emergency.

PURPOSE:

The purpose of this Agenda Item is to authorize an engineering services contract for the City of Corpus Christi Water System Assessment and Optimization.

BACKGROUND AND FINDINGS:

The City of Corpus Christi water distribution system has recently experienced low chlorine residuals in isolated locations. On May 13, 2016, the City issued a water boil advisory as chlorine residuals had dropped below the minimum threshold allowed by Texas Commission on Environmental Quality (TCEQ).

To deal with this urgent event, the City administratively authorized a small Architect/Engineer

(AE) contract to LNV, Inc. in May 2016 to provide professional services in reviewing current and potential water quality issues, assessing system operations, and providing assistance in determining and recommending strategies for restoring system-wide chlorine residuals. The prime consultant was LNV with Hazen Sawyer as sub-consultant, this consultant team (Engineer) worked together with City staff, reviewing initial water quality data, and confirming that nitrification occurred in the water system, resulting in low chlorine residuals.

As per the Engineer's recommendation, the City implemented alternate disinfection conversion to free chlorine in the water system and lifted the boil water advisory. In addition, the Engineer recommended a source-to-tap strategy to evaluate the operations and performance of the water system. The evaluation included various short, mid and long-term action items to further optimize the system's water quality and minimize the potential for nitrification to occur in the future.

The required professional services are essential to better assess and optimization of the water system to ensure water quality. Hazen and Sawyer is a nationally recognized firm with extensive expertise in municipal water systems. Based on Hazen and Sawyer's direct experience, knowledge and capacity, they are the most qualified AE to provide these services. Staff therefore recommends this professional services contract to Hazen and Sawyer without formal procurement and selection process.

This AE contract is required to compensate the existing efforts of Engineers and provide further professional services assisting the City in evaluating the current water treatment unit processes at O.N. Stevens Water Treatment Plant and distribution system operations.

ALTERNATIVES:

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

OTHER CONSIDERATIONS:

The additional \$55,000 will be for soft costs and reimbursements related to this project.

CONFORMITY TO CITY POLICY:

Conforms to City Fiscal Policy

EMERGENCY / NON-EMERGENCY:

Emergency

DEPARTMENTAL CLEARANCES:

Utilities Department

FINANCIAL IMPACT:

Operating ☐ Revenue ☒ Capital ☐ Not applicable

Fiscal Year 2015-2016	Project to Date Budget & Expenditures	Current Year	Future Years	TOTALS
Line Item Budget		\$555,000		\$555,000
Encumbered / Expended Amount				
This Item		\$500,000		\$500,000
Future Anticipated Expenditures This Project		\$55,000		\$55,000
BALANCE		\$0		\$0

Fund(s): Water CIP

Comments: This contract will result in an expenditure not to exceed \$500,000.

RECOMMENDATION:

City Staff recommends approval of the Ordinance amending the FY 2016 Capital Improvement Budget adopted by Ordinance No. 030621 to add Project No. E16332 City of Corpus Christi Water System Assessment and Optimization; transferring funds in the amount of \$555,000 from Water Capital Reserves; and authorizing the City Manager or designee to execute a contract for professional services with Hazen and Sawyer of Corpus Christi, Texas in the amount of \$500,000 for the City of Corpus Christi Water System Assessment and Optimization Project; and declaring an emergency.

LIST OF SUPPORTING DOCUMENTS:

Ordinance
Project Budget
Location Map
Contract
Presentation
Form 1295