



AGENDA MEMORANDUM

Action Item for the City Council Meeting of June 13, 2023

DATE: June 13, 2023

TO: Peter Zaroni, City Manager

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<p style="text-align: center;"><u>Professional Services Contract Award</u> ONSWTP Flocculation Upgrades & Baffling</p>
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CAPTION:

Motion awarding a professional services contract to Hazen and Sawyer, Corpus Christi, to provide a condition and operational assessment; an alternatives analysis; and design, bid and construction phase services for flocculator replacement at the O.N. Stevens Water Treatment Plant in an amount not to exceed \$1,665,622.00 with FY 2023 funding available from Water Capital Fund.

SUMMARY:

This motion authorizes approval of a professional engineering contract to provide a condition and operational assessment, an alternatives analysis, design, bid and construction phase services for flocculator replacement for the O.N. Stevens Water Treatment Plant (ONSWTP) Flocculation Upgrades & Baffling Project.

BACKGROUND AND PURPOSE:

The City of Corpus Christi owns and operates the 161.5 million gallons per day (mgd) ONSWTP. ONSWTP currently has walking beam flocculators installed in the two primary sedimentation basins in Plant 1 (Sedimentation Basins No. 1 and 2). The walking beam flocculators have lived out their useful design life, are unreliable, have issues providing adequate mixing at higher flow rates and are maintenance intensive. At speeds required for good mixing (40 to 60 Hz) and higher

flow rates, the walking beam flocculator motors often trip or experience significant vibration resulting in damage to the flocculators. The narrow channels in the flocculation area often results in damages to the walking beam trees, necessitating frequent repairs.

This item awards a professional contract to provide a condition and operational assessment; an alternatives analysis; and design, bid and construction phase services to support the project implementation.

PROJECT TIMELINE:

2023 – 2024	2024	2025 – 2026
June – August	October – December	January – July
Design	Bid/Award	Construction

Project schedule reflects City Council award in June 2023 with anticipated design completion by August 2024 and construction anticipated to start in January 2025 with an estimated construction completion of July 2026.

COMPETITIVE SOLICITATION PROCESS

The Contracts and Procurement Department issued a Request for Qualifications on December 13, 2021, with the RFQ Number 3977 for Professional Engineering Services for Capital Improvement Projects FY2022. The City received statements of qualifications from nine firms and a technical evaluation was performed by the selection committee. The selection committee consisted of representatives from Engineering Services and Water Utilities.

Firm ranks were based on three factors:

1. Experience of the firm
2. Experience of the key personnel with specific experience with similar projects
3. Understanding of Project Scope.

Hazen and Sawyer were the highest ranked firm and awarded the AE contract, they have over 60 years of experience in water planning, preliminary, and detailed design services. Hazen and Sawyer have provided professional services for several City projects in the past. Some of the projects are Water and Wastewater On-Call Services, Water System assessment and Optimization, ONSWTP Chlorine System Handling and Storage, and ONSWTP Solids Handling and Storage.

ALTERNATIVES:

City Council could choose not to award the contract to Hazen and Sawyer. Not awarding the contract for professional services to Hazen and Sawyer will delay necessary improvements and may affect the ability to satisfy the safety, operational, and regulatory requirements.

FISCAL IMPACT:

The fiscal impact in FY 2023 is an amount of \$1,665,622.00 with funding available from the Water CIP Fund.

FUNDING DETAIL:

Fund: Water 2023 CIP (Fund 4486)
Department: Water (45)
Organization: Grants & Capital Projects Funds (89)
Project: ONSWTP Flocculation Upgrades & Baffling (Project No. 22407)
Account: Outside Consultants (550950)
Activity: 22407
Amount: \$1,665,622.00

RECOMMENDATION:

City staff recommend approval of the professional services contract with Hazen and Sawyer in an amount not to exceed of \$1,665,622.00 for the ONSWTP Flocculation Upgrades & Baffling Project.

LIST OF SUPPORTING DOCUMENTS:

Location & Vicinity Maps
Evaluation Matrix
Proposal
CIP Page
Presentation