



**AGENDA MEMORANDUM**  
Action Item for the City Council Meeting of August 11, 2026

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**DATE:** August 11, 2026

**TO:** Peter Zanon, City Manager

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**Design Contract**

**Greenwood WWTP Flooding Mitigation and Backup Generator**

**CAPTION:**

Motion authorizing a professional services contract with Ardurra Group, Inc. of Corpus Christi, Texas, to provide design, bid, and construction phase services for the Greenwood Wastewater Treatment Plant Flood Mitigation and Backup Generator project in an amount up to \$1,619,336.00, located in Council District 3, with FY 2026 funding available from the Emergency Management Grant Fund and Wastewater Capital Fund.

**SUMMARY:**

This motion authorizes the approval of a professional services contract for design, bid, and construction phase services for the Greenwood Wastewater Treatment Plant (WWTP) Flood Mitigation and Backup Generator project. The project will provide cost-effective flood-proofing upgrades and install a reliable backup generator system to support safe, continuous operations at the Greenwood WWTP during heavy rain events and power outages. The purpose of this project is to reduce the risk of flood damage and mitigate the negative effects of power outages, ensuring treatment processes can continue functioning normally during extreme weather conditions such as hurricanes, tropical storms, winter freezes, and other events. This project is included in the FY 2026 Adopted Capital Budget that was approved by City Council in September 2025.

## **BACKGROUND AND FINDINGS:**

The City of Corpus Christi covers approximately 490 square miles and has a population of over 325,000. Due to its coastal location, the City is vulnerable to extreme weather events such as hurricanes and tropical storms. These events are frequently accompanied by power outages that make it difficult for staff to maintain the continuous operation of critical wastewater infrastructure.

The Greenwood WWTP is the second largest of the City's six wastewater treatment facilities and serves approximately 20 percent of the population. The plant was constructed in 1957 and currently has an average flow capacity of 8 million gallons per day (MGD) and a peak flow capacity of 24 MGD. The Greenwood WWTP serves the Greenwood Service Basin, comprising 18 lift stations and covering roughly 38 square miles.

This project will enhance operational resiliency at the Greenwood WWTP by implementing the following improvements to support continuous treatment processes and maintain TCEQ regulatory compliance by reducing the occurrence of system failures caused by flood events and power outages.

### **1. Greenwood WWTP Flooding Mitigation**

Severe flooding events in September 2010 and April 2015 caused widespread damage across the wastewater plant, endangering staff and inundating critical infrastructure, including the headworks, control room, influent pump station, digester pump station, lift station, UV disinfection system, effluent screen structure, and reclaimed water pump station. These flooding events resulted in significant inflow and infiltration throughout the system, interrupted the disinfection process, caused untreated wastewater discharges into La Volla Creek, and increased the risk of sanitary sewer overflows in nearby neighborhoods.

The project will install structural flood protection for critical facilities and upgrade the plant's interior drainage system to divert stormwater away from high-risk areas. These improvements will mitigate potential flood damage to critical structures and allow the plant to maintain integrity of the treatment process during flood events. The proposed scope of work includes site grading, piping and floodway improvements, flood walls for vulnerable plant structures, and a new effluent pump station.

### **2. Greenwood WWTP Emergency Generator**

Greenwood WWTP currently meets the minimum power requirements set by the Texas Commission on Environmental Quality (TCEQ) through a dual power supply provided by AEP. However, the plant lacks an emergency generator system to maintain operations during grid power outages.

This project will design and install a backup generator system to ensure safe, normal operations at the plant during power outages. The design will include an assessment of the electrical load for existing infrastructure and future infrastructure improvements/additions at the plant to determine the appropriate generator size and fuel system requirements.

## **PROJECT TIMELINE:**

| 2026 - 2027       | 2028            | 2028 - 2029      |
|-------------------|-----------------|------------------|
| August - December | January - March | April - November |
| Design            | Bid/Award       | Construction     |

Project schedule reflects City Council award in August 2026, with anticipated construction completion by November 2029.

## **COMPETITIVE SOLICITATION PROCESS:**

On January 21, 2026, the Contracts and Procurement Department issued Request for Qualifications (RFQ No. 6892) for the Greenwood WWTP Flood Mitigation & Backup Generator project and the Oso WWTP Backup Generator project, which were listed under the Wastewater CIP Projects category of the RFQ. A total of 25 firms viewed the project, including 9 local firms.

On April 3, 2026 Ardurra Group, Inc. was selected as the highest ranked firm based on nine factors: 1) experience on projects of similar scope and complexity, 2) demonstrated capability & capacity on comparable projects, 3) past performance, 4) team members with experience and qualifications, 5) team members experience with work of similar scope and complexity, 6) availability of resources to accomplish the work, 7) demonstrated understanding of scope of services, 8) demonstrated understanding and experience with similar services with a public agency, and 9) General Land Office (GLO) and Community Development Block Grant (CBDG) experience. Following the project matching process under these criteria, Ardurra Group, Inc. will be awarded the Greenwood WWTP Flood Mitigation & Backup Generator project, and Bath Engineering, Inc. will be awarded the Oso WWTP Backup Generator project.

Ardurra Group, Inc. has worked on City of Corpus Christi projects for over twenty years and has successfully completed the design of various projects, including:

- **Oso Water Reclamation Plant Process Upgrades and Aeration Course Bubble System**  
Replacement of aeration diffusers to improve the treatment process reliability and efficiency at a construction cost of \$113.4M. Project scope includes constructing a new 6 MGD treatment train, retrofitting existing aeration basins with fine bubble aeration equipment, construction of new blower building, rehabilitation of existing scum and sludge removal components on secondary clarifiers, improvements to chlorine contact chambers to address short circuiting, decommissioning of the breakpoint chlorination system, upgrades in the existing belt press building, and other miscellaneous enhancements associated with the administrative building, digesters, and access roads.
- **Oso Water Reclamation Plant Headworks, Influent Lift Station, and Odor Control**  
Construction of a new headworks facility, 60 MGD lift station, and odor control facility at a construction cost of \$25M.
- **Williams Lift Station Force Main**  
Construction of a new 42-inch HDPE force main to convey wastewater from the Williams Lift Station to the Oso Water Reclamation Plant at a construction cost of \$18.5M.

- **Wastewater Hydraulic Modeling and Consent Decree Support**

Hydraulic modeling and calibrating services for the City's wastewater collection system, documenting results of potential capacity constraints and recommended improvements.

**ALTERNATIVES:**

The City Council could choose not to award the professional services contract to Ardurra Group, Inc. However, doing so would delay the planned improvements at the Greenwood WWTP that are necessary to provide flood protection and backup power to support treatment plant operations during flood events and power outages. Such a delay would increase the risk of treatment system failures and potential subsequent TCEQ violations.

**FISCAL IMPACT:**

The fiscal impact in FY 2026 is an amount of \$830,535.00 for the professional services contract with funding available from the Emergency Management Grant Fund and the Wastewater Capital Fund. The remaining funds for design will be incurred in FY 2027 in the amount of \$788,801.00.

**FUNDING DETAIL:**

Fund: Wastewater 2026 CIP (Rv Bds) (Fund 4263)  
Department: Wastewater (46)  
Organization: Grants & Capital Projects Funds (89)  
Account: Outside Consultants (550950)  
Activity: 180704263  
Amount: \$394,015.64

Fund: Wastewater Capital Resv (Fund 4510)  
Department: Wastewater (46)  
Organization: Grants & Capital Projects Funds (89)  
Account: Outside Consultants (550950)  
Activity: 18070A4510EXP  
Amount: \$51,454.36

Fund: EmerMgmtGrnts (Fund 1063)  
Department: Waste Water (46)  
Organization: Grants & Capital Projects Funds (89)  
Account: Outside Consultants (550950)  
Activity: 180701063F  
Amount: \$385,065.00

**Total in FY26: \$830,535.00**

**RECOMMENDATION:**

Staff recommend awarding the professional services contract for the Greenwood WWTP Flood Mitigation and Backup Generator project to Ardurra Group, Inc. in an amount not to exceed \$1,619,336.00, with anticipated project completion in November 2029.

**LIST OF SUPPORTING DOCUMENTS:**

Evaluation Matrix

CIP Page

Location & Vicinity Maps

PowerPoint Presentation

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