

Capital Improvement Plan

Corpus Christi, Texas



Project # 26155/26160
Project Name CCW Containerized Brackish Water Treatment Plant & Conveyance System

Contact	Director of Corpus Christi Water	Department	Water
Type	Improvement/Additions	Category	Raw Water Supply
Priority	Priority Level 1	Status	Active
Useful Life	25 years	Council District	1

Description

The project 26155 consists of a modular, prefabricated reverse osmosis (RO) facility located within the O.N. Stevens Water Treatment Plant site. Designed, procured, assembled, and commissioned by Aqualia, the plant will treat brackish groundwater from production wells and deliver up to 21.3 MGD of potable water after accounting for RO recovery. The containerized configuration allows for parallel fabrication, reduced construction time, and a compact footprint, enabling the City to bring new water supplies online far faster than traditional treatment plant construction. In addition project 26160 will also construct a groundwater conveyance line and pump station designed to deliver water from the western well field to the O.N. Stevens Water Treatment Plant.

Justification

Corpus Christi is facing a severe and escalating water-availability crisis driven by prolonged drought, historically low reservoir levels below 10%. Without new supply, the City could enter a Level 1 Water Emergency as early as late 2026, threatening public health, economic stability, and essential industrial operations.

Expenditures	Prior	FY 26	FY 27	FY 28	Total
Construction/Rehab	0	60,000,000	70,000,000	0	130,000,000
Capital Equipment	0	17,500,000	26,050,000	0	43,550,000
Eng. Admin Reimbursements	0	580,000	870,000	0	1,450,000
Total	0	78,080,000	96,920,000	0	175,000,000

Funding Sources	Prior	FY 26	FY 27	FY 28	Total
Revenue Bonds	0	78,080,000	96,920,000	0	175,000,000
Total	0	78,080,000	96,920,000	0	175,000,000

Budget Impact

Upon full commissioning, Aqualia will operate the Containerized Brackish Desalination Plant for a five-year term. All equipment will remain under warranty throughout this period, excluding any failures attributable to Force Majeure events. Annual operational costs are projected to average approximately \$6 million. Electricity costs associated with plant operations are estimated at an additional \$8 million per year and are separate from the O&M expenses.