

Water Supply Projects Update

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May 5, 2026



Discussion Topics

Surface Water

- Western Reservoirs, Lake Texana, Lower Colorado River

Ground Water

- Evangeline Groundwater Program
- Nueces River Groundwater Project
 - Western Well Field
 - Eastern Well Field
- Brackish Groundwater Reverse Osmosis

Wastewater Reuse

- Oso WWTP
- Greenwood WWTP
- Allison WWTP
- Broadway WWTP

Seawater

- Inner Harbor Project
- Harbor Island Project
- Barney Davis Project
- CC Polymers/Aquatech Project



Surface Water

Western Surface Water Supply Lake Corpus Christi & Choke Canyon Reservoir

Wesley Seal Dam

Texas Water Development Board (Water Data for Texas) May 5, 2026

- Lake Corpus Christi capacity is 8.6%
- Choke Canyon Reservoir capacity is 7.4%
- Combined Capacity is 7.8%



Eastern Surface Water Supply



May 5

Lake Texana Reservoir Capacity

78%

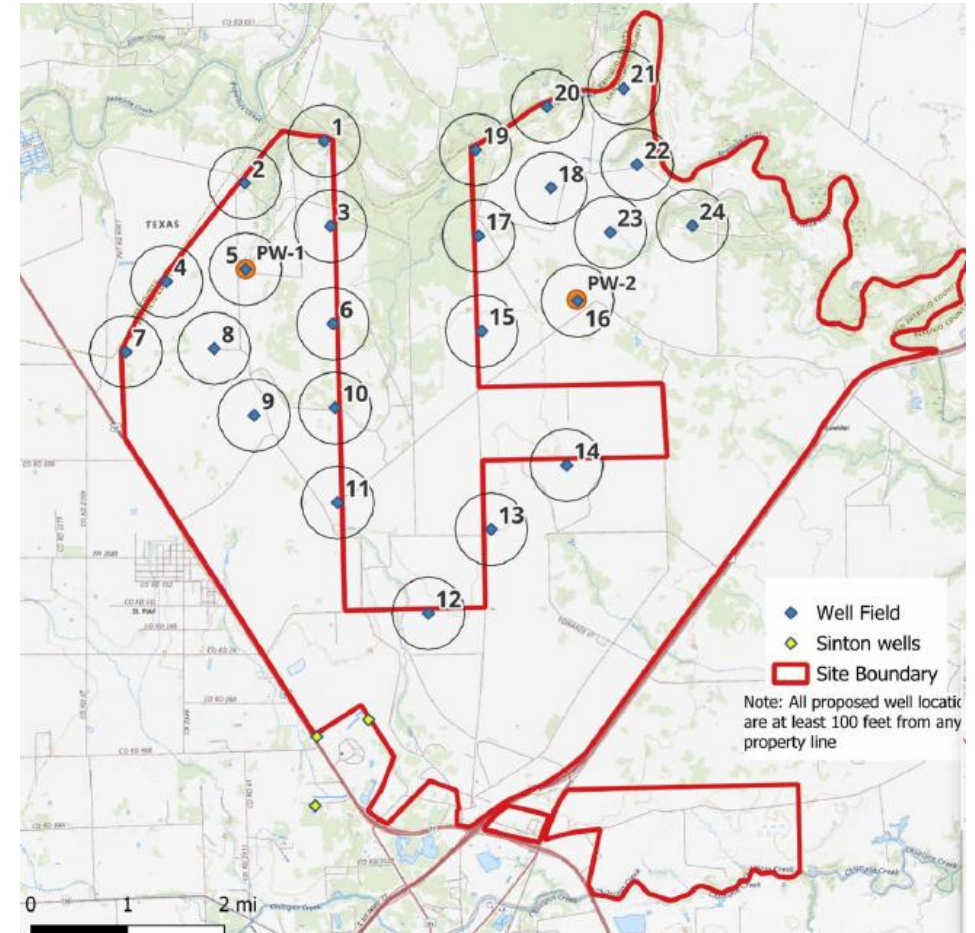
Lower Colorado River

- Water Requested is Available

Groundwater

Evangeline Groundwater Project Permit & Contractual Update

- Pape Dawson has completed the 60% design deliverables
- A total of 45,056 linear feet of pipe has been delivered to the site
- Garney Construction has mobilized construction trailers to the site, with crews arriving on-site to begin pipeline installation beginning the first week of May
- Garney Construction Amendment 3 projected for Council consideration on May 19
- The SPCGCD contracted with an Administrative Law Judge (ALJ), Alicia York, to conduct the Preliminary Hearing to determine if any of the protestants had standing to contest the Evangeline permits. The hearing was held on April 28, 2026, and the ALJ committed to issuing a ruling within 1-business days (by May 12, 2026).



Nueces Groundwater Program

Eastern Well Field

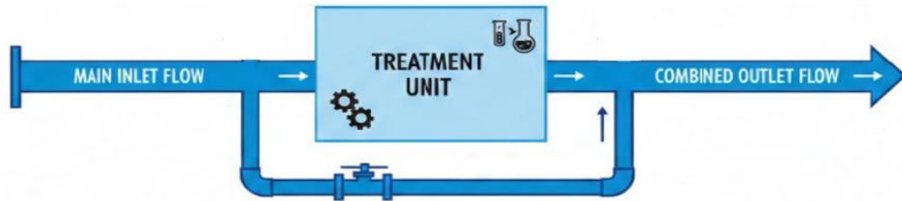
- Well field is substantially complete and operating per the conditions of the Bed and Banks Permit
- Generator maintenance and repairs scheduled

Western Well Field

- Bed and Banks Permit – Temporary Issued March 18, 2026
- Seven wells online, with an additional well online within a week
- There are five wells powered by permanent electric sources and two wells powered by temporary generators.
- Average depth of cemented casing is 515'
- Test pumping the 9th well next week
- Drilling continues on 10th and 11th wells



Brackish Ground Water Treatment Project Overview



Conceptual image

Treated Water Delivery Schedule

- 3.91 MGD in 11 Months
- 9.24 MGD in 14 Months
- 14.56 MGD in 18 Months
- 21.3 MGD in 24 Months

- Permitting Meetings with TCEQ
 - Reverse Osmosis Treatment
 - Discharge including evaporative ponds, injection well, and surface discharge
- Conveyance Line Design at 58%
- Ground Storage Tanks
 - 2 – 500,000 Gallon tanks at ON Stevens
 - 1 – 3,000,000 Gallon tank at Western wellfield
- Pump Station at Western Well Field
 - CCW is finalizing pump design
- ONS Civil, Piping, and Foundational
 - Met with Garver last week for finalize recommendation for civil and piping layout for containerized unit
- Electrical
 - HDR/Garver/CCW electrical coordination meeting last week to confirm limits
 - Garver to provide additional information to confirm loads that HDR provided to AEP

Wastewater Reuse

Wastewater Reuse Project Overview

- CCW continues to coordinate with Valero and FHR to improve delivery schedule
- CCW continues to negotiate with additional entities to ensure project alignment, alongside ongoing work with Valero and FHR
- FHR expects Phase One at 1 MGD & Phase Two at 2-3 MGD
- Valero expects Phase One up to 3 MGD and Phase Two at 8 MGD
- Ardurra has completed 60% design of Oso upgrades and 15 miles of 36" conveyance line, with full design expected to be complete in July
- The RFQ for CMAR received all applications; the Construction Contract expected to come to Council for consideration on May 12



Seawater Desalination

Inner Harbor Seawater Desalination Project Overview



- **Path forward was reviewed at the February 24 Council meeting**
 - Staff is working to prepare a contract with CCDP for consideration during a June Council meeting
 - Ongoing meetings with Legal and technical staff
- **Farfield Modeling**
 - Committee meetings scheduled for May 7, 21, and 28
 - Data available from the modeler is available May 28 for review, with a report to follow
- **Owners Representative**
 - Qualifications received and under selection panel review
 - Owner's representative Contract would be presented for council consideration in June 2026
- **Operations and Maintenance Agreement**
 - Request for proposal to be developed
 - Request for proposals to be issued after June 2026

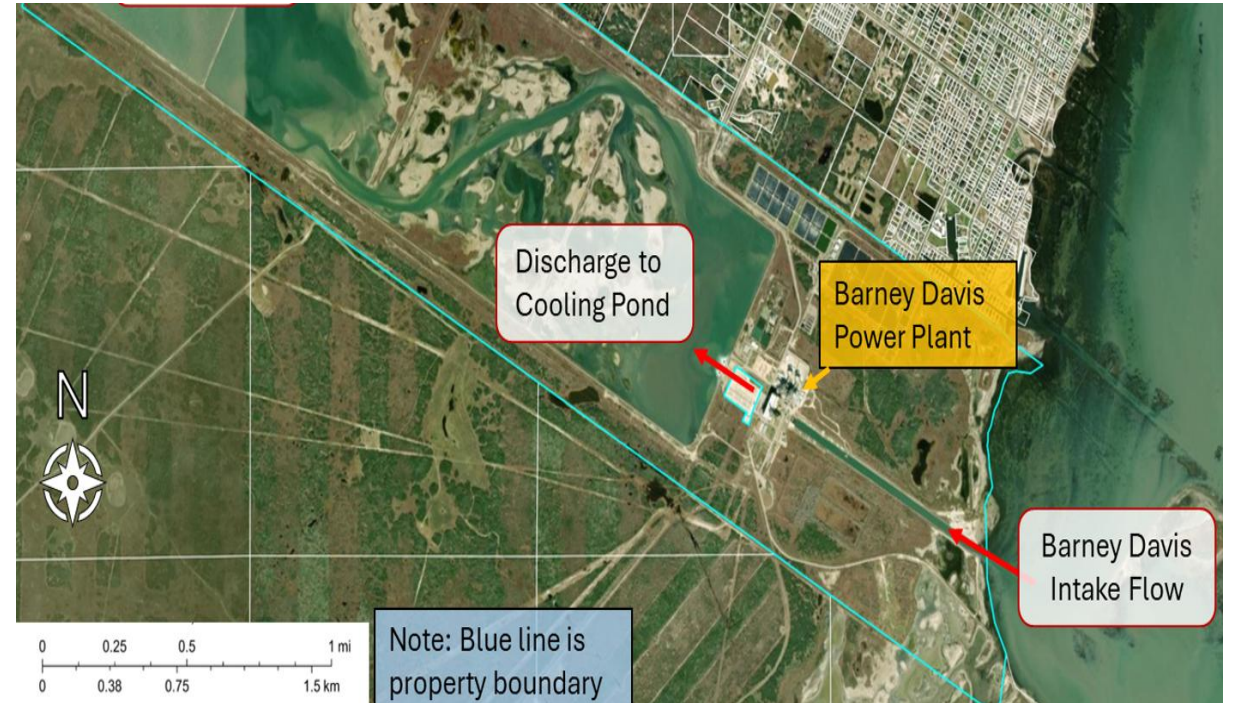
Harbor Island Seawater Desalination Project Overview

- The Nueces River Authority (NRA) has issued a formal RFQ for the development partner and received four responses
 - NRA anticipates selecting this development partner by mid-June
- NRA approved a Master Service Agreement with Lockwood Andrews and Newman for services associated with the Harbor Island Conveyance System
- TCEQ Draft Intake Permit has been issued
- TCEQ Discharge Permit has been issued with a public meeting scheduled for May 27

Barney Davis Seawater Desalination Project Overview

Motion to Authorize Staff to Collaborate with CPS Energy to Develop Option for Seawater Desalination at the Barney Davis Location was approved on March 17

- CPS Energy is willing to collaborate with the City on a potential project at the site
- CPS Energy to discuss with its board of directors and issue a reciprocal motion
- CPS has stated the preference would be for P3 to operate
- Power agreement would be with an electrical provider
- Long-term supply Agreement with a P3
- Possibility of creating a Public Utility Agency to develop the project
- New TCEQ Discharge Permit would be required



CC Polymers/Aquatech Seawater Desalination Project Overview

- Existing Facility located on the Ship Channel
- Texas Commission for Environmental Quality (TCEQ) Permits:
 - Water Use Permit No. 12986 - 2014
 - Discharge No. 0005019000 – 2014 and renewed 2024
- Aquatech International, a US-based desalination company, has come to an agreement with CCP to sell potable water to the City.
- Aquatech will complete the existing facility, add a potable water system, and connect to the City's distribution system
- Previous discussion and investigation have been conducted by staff and its consultants
- Meeting with Aqautech scheduled for this week



Projected Delivery of New Water Sources

2026 Projected Delivery of Additional Water (MGD)														
Source	Project	J	F	M	A	M	J	J	A	S	O	N	D	Total
Groundwater	WWF River Delivery			6	6	5								17
Groundwater	ERF Property (WWF Extension)						5	4						9
Groundwater	Evangeline											4	1	5
Reuse	FHR												1	1
Total														32

2027 Project Delivery of Additional Water (MGD)														
Source	Project	J	F	M	A	M	J	J	A	S	O	N	D	Total
Groundwater	Evangeline	2	1	1	2	1	1	2	1	1	2	1	1	16
Reuse	FHR												1	1
Reuse	Valero												3	3
Total														20

2028 Project Delivery of Additional Water (MGD)														
Source	Project	J	F	M	A	M	J	J	A	S	O	N	D	Total
Groundwater	Evangeline	2	1											3
Reuse	Valero	5												5
Reuse	Additional Customers	6												6
Total														14

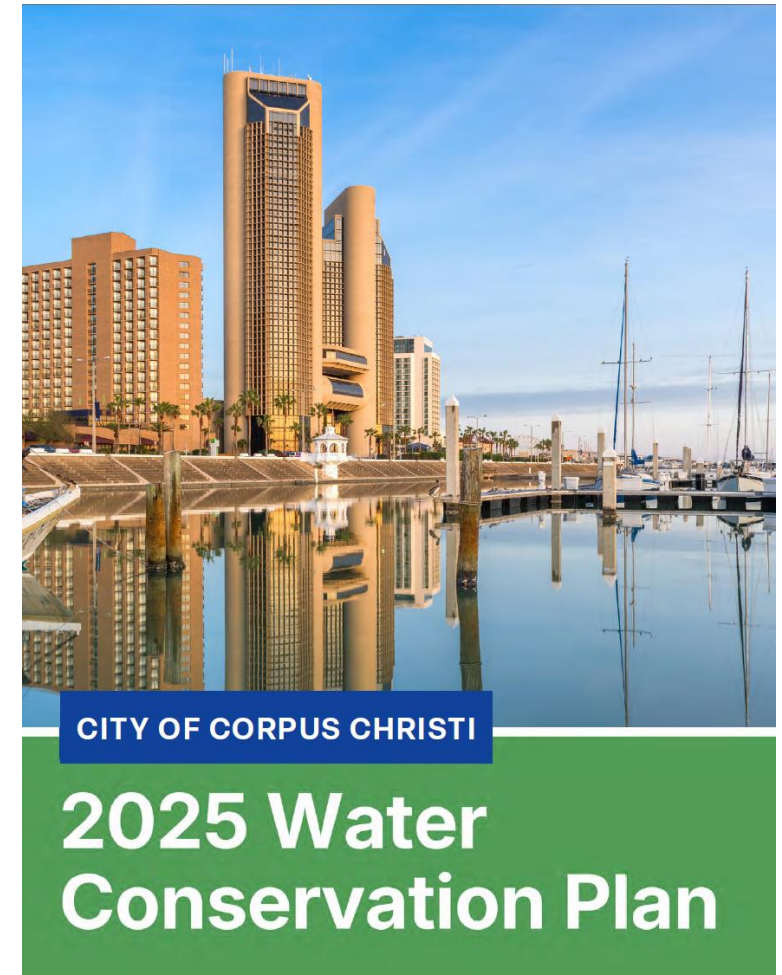
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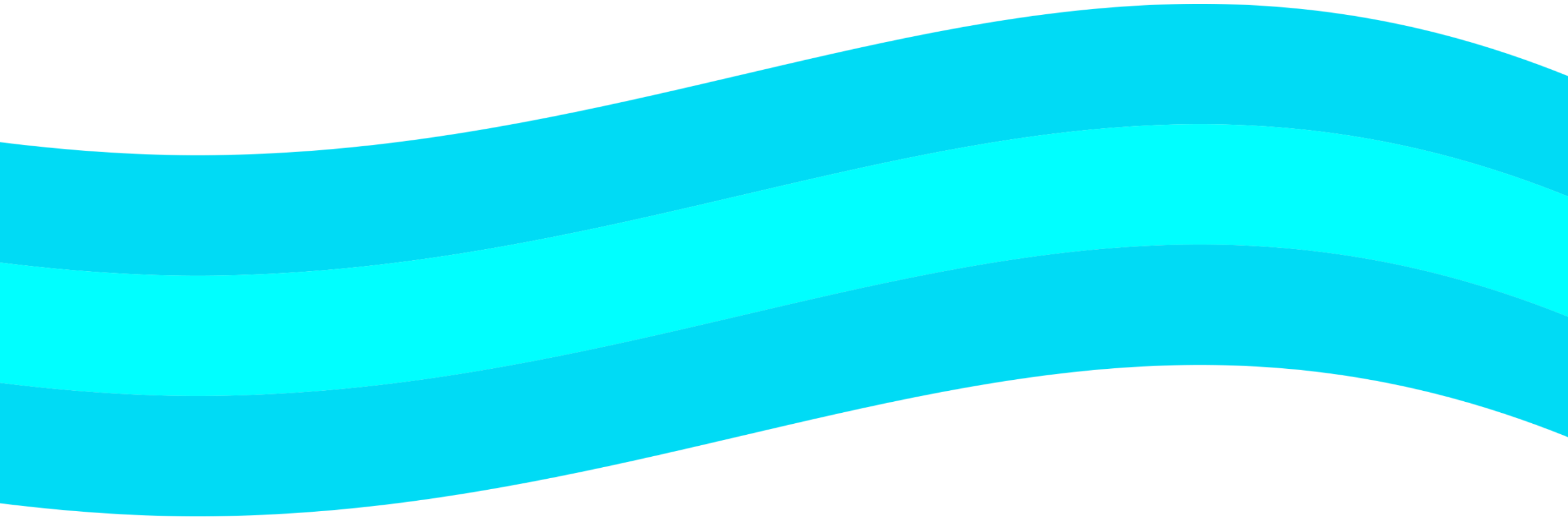
- 1) Western Well Field (WWF)
- 2) The projected delivery for each of our new water supply sources will be updated weekly as various factors influence the completion and partial completion of each project.
- 3) Eastern Well Field and Western Well Field daily production is dependent upon adherence to the operating protocol established in the bed and banks permit.
- 4) Evangeline Production estimates will be updated once we are more certain of the timeline for the next steps of the permitting timeline.
- 5) Well Production is dependent upon results from pumping and aquifer testing
- 6) Reuse is an offset of the potable water demand

Water Conservation Plan

Water Conservation Plan

- Last meeting was April 24
- Draft will be available for Committee final review on May 13
- Expected to be presented to Council on May 19





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