STWA

SOUTH TEXAS WATER AUTHORITY

2302 E, SAGE RD.

KINGSVILLE, TEXAS 78363

MEMORANDUM

TO:	South Texas Water Authority Board of Directors
FROM:	Jose M Graveley, President
DATE:	March 17, 2025
SUBJECT:	Meeting Notice and Agenda for the South Texas Water Authority

A Regular Meeting of the STWA Board of Directors is scheduled for:

Tuesday, March 25, 2025

5:30 p.m. Courthouse Annex Law Enforcement Center 1500 E. King Kingsville TX 78363

The Board will consider and act upon any lawful subject which may come before it, including among others, the following:

Agenda

- 1. Call to order.
- 2. Citizen comments. This is an opportunity for citizens to address the Board of Directors concerning an issue of community interest that is not on the agenda. Comments on the agenda items must be made when the agenda item comes before the Board. The President may place a time limit on all comments. The response of the Board to any comment under this heading is limited to making a statement of specific factual information in response to the inquiry, or, reciting existing policy in response to the inquiry. Any deliberation of the issue is limited to a proposal to place it on the agenda for a later meeting.
- 3. Approval of Minutes. (Attachment 1)
- 4. Quarterly Report/Treasurer's Report/ Payment of Bills. (Attachment 2)
- 5. Operation and Maintenance Reports. (Attachment 3)
 - O&M Technical Report
 - Cathodic Protection Report
- 6. Updated STWA Water Conservation and Drought Contingency Plan. (Attachment 4)
- 7. **Resolution 25-07**. Resolution adopting an updated Water Conservation and Drought Contingency Plan for the South Texas Water Authority. (Attachment 5)
- 8. Declaration of surplus property. (Attachment 6)
- 9. **Resolution 25-08**. Resolution authorizing the sale of surplus property of the South Texas Water Authority. (Attachment 7)

- 10. Amendment of South Texas Water Authority Personnel Policies Holidays. (Attachment 8)
- 11. **Resolution 25-09.** Resolution adopting revised South Texas Water Authority Personnel Policies Holidays. (Attachment 9)
- 12. STWA Master Plan I.C.E. (Attachment 10)
 - Presentation I.C.E.
 - Bidding process for pump station improvements.
- 13. Seven Seas Project. (Attachment 11)
- 14. Water Supply Contract with the City of Corpus Christi. (Attachment 12)
- 15. **Resolution 25-10**. Resolution of Commitment to the Coastal Bend Water Alliance. (Attachment 13)
- 16. Nomination of candidate for the Kleberg County Appraisal District Board of Directors. (Attachment 14)
- 17. **Resolution 25-11**. Resolution submitting nomination for candidate for position on the Board of Directors of the Kleberg County Appraisal District. (Attachment 15)
- 18. Administration Report.
 - Pay/Compensation Update
 - Upcoming Board Meeting Dates
- 19. Adjournment.

The Board may go into closed session at any time when permitted by Chapter 551, Government Code. Before going into closed session, a quorum of the Board must be assembled in the meeting room, the meeting must be convened as an open meeting pursuant to proper notice, and the presiding officer must announce that a closed session will be held and must identify the sections of Chapter 551, Government Code, authorizing the closed session.

JMG/JM/fdl Attachments

This meeting notice was posted on STWA's website, www.stwa.org, and on indoor and outdoor buildtin boards at STWA's administrative offices, 2302 East Sage Road, Kingsville, Texas at AMAGKI A MIET Assistant Secretary

ATTACHMENT 1

Approval of Minutes

SOUTH TEXAS WATER AUTHORITY Public Hearing Minutes February 18, 2025

Board Members Present:

Jose Graveley Imelda Garza Kathleen Lowman Joe Morales Angela Pena

Staff Present:

John Marez Jo Ella Wagner Patrick Sendejo Board Members Absent:

Rudy Galvan, Jr. Frances Garcia Patsy Rodgers Arturo Rodriguez

Guests Present:

Ivan G. Luna, I.C.E. Ansar Palakkal, I.C.E. Patricia Ann Lerma Holly Bockholt Myra B. Alaniz

1. <u>Call to Order</u>.

Mr. Jose Graveley, Board President, called the Public Hearing of the STWA Board of Directors to order at 5:30 p.m. at the Courthouse Annex Law Enforcement Center, 1500 E. King, Kingsville, Texas.

- 2. <u>Petition for Addition of Certain Lands to the South Texas Water Authority</u>.
 - a. <u>Maria Cecilia Lazo –Lot 2 Block F of The Ranch Subdivision as recorded in the map</u> records of Nueces County also recognized as 6303 Branding Iron, Robstown, Texas and Lot 3 Block F of The Ranch Subdivision as recorded in the map records of Nueces County also recognized as 6297 Branding Iron, Robstown, Texas.
 - b. <u>Antonio Perez and Gloria Hernandez Perez The East One-Half (E. ½) of Tract 2,</u> <u>Tierra Verde Unit Number 2, a subdivision in Nueces County, Texas, according to</u> <u>map or plat thereof recorded in Volume 50, Pages 92-93, of the Map Records of</u> <u>Nueces County, Texas.</u>

These property owners approached the Nueces Water Supply Corporation requesting service outside of the Authority's district boundaries. Approval of the annexation petitions enables the landowners to receive service and pay in-district rates to the Nueces Water Supply Corporation, and allows the properties to be placed on STWA tax rolls. Resolutions approving annexation will be presented at the Regular Board Meeting.

3. Public Comment.

Mr. Graveley called for public comment. No comments from the public were made.

STWA Public Hearing Minutes February 18, 2025 Page 2

4. Adjournment.

With no further business to discuss, Ms. Garza made a motion to adjourn the Public Hearing at 5:31 p.m. Mr. Galvan seconded and all voted in favor.

Respectfully submitted, HUMUD D.J. Frances De Leon Assistant Secretary

SOUTH TEXAS WATER AUTHORITY Minutes – Regular Board of Directors Meeting February 18, 2025

Board Members Present:

Jose Graveley Imelda Garza Kathleen Lowman Joe Morales Angela Pena

Board Members Absent:

Rudy Galvan, Jr. Frances Garcia Patsy Rodgers Arturo Rodriguez

Guests Present:

Ivan G. Luna, I.C.E. Ansar Palakkal, I.C.E. Patricia Ann Lerma Holly Bockholt Myra B. Alaniz

Staff Present:

1. <u>Call to Order</u>.

John Marez

Jo Ella Wagner

Patrick Sendejo

Mr. Jose Graveley, Board President, called the Regular Meeting of the STWA Board of Directors to order at 5:45 p.m. at the Courthouse Annex Law Enforcement Center, 1500 E. King, Kingsville, Texas. A quorum was present.

2. <u>Citizen Comments</u>.

Mr. Graveley opened the floor to citizen's comments. No comments were made.

3. <u>Approval of Minutes</u>.

Ms. Garza made a motion to approve the minutes of the January 7, 2025 Special Meeting and the January 28, 2025 Regular Meeting as presented. Mr. Morales seconded. The motion passed by unanimous vote.

4. <u>Treasurer' Report/Payment of Bills</u>.

Ms. Wagner presented the following October 2024 reports and explained that although the reports were presented at the previous meeting, corrections were necessary because some entries were made after the period was closed and created errors.

Corrected Revenue Fund Income Statement for period ending October 31, 2024 Corrected Tax Fund Income Statement for period ending October 31, 2024 Corrected Special Services Income Statement for period ending October 31, 2024 STWA Revenue Fund Balance Sheet – October 31, 2024 STWA Revenue Fund Trial Balance for October, 2024 STWA Debt Service Fund Income Statement for period ending October 31, 2024 STWA Debt Service Fund Balance Sheet – October 31, 2024 STWA Debt Service Fund Balance Sheet – October 31, 2024 STWA Debt Service Fund Balance Sheet – October 31, 2024 STWA Regular Meeting Minutes February 18, 2025 Page 2

STWA Capital Projects Fund Income Statement for period ending October 31, 2024 STWA Capital Projects Fund Balance Sheet – October 31, 2024 STWA Capital Projects Fund Trial Balance – October, 2024

Additionally, the following reports were presented for Board approval:

Treasurer's Report for period ending November 30, 2024 Revenue Fund Income Statement for period ending November 30, 2024 Tax Fund Income Statement for period ending November 30, 2024 Special Services Income Statement for period ending November 30, 2024 STWA Revenue Fund Balance Sheet – November 30, 2024 STWA Revenue Fund Trial Balance for November, 2024 STWA Debt Service Fund Income Statement for period ending November 30, 2024 STWA Debt Service Fund Balance Sheet – November, 2024 STWA Debt Service Fund Balance Sheet – November 30, 2024 STWA Debt Service Fund Balance Sheet – November 30, 2024

Ms. Wagner stated that there was very little activity in the Capital Projects Fund and she will present those reports at the next meeting. She presented the following invoices for Board approval:

٠	International Consulting Engineers	\$ 4,709.66
•	International Consulting Engineers	\$ 7,257.00
٠	International Consulting Engineers	\$ 915.25

Ms. Garza made a motion to approve The Treasurer's Reports and Payment of Bills as presented. Ms. Lowman seconded. The motion passed unanimously.

- 5. <u>Operation and Maintenance Reports</u>.
 - <u>O&M Technical Report</u>
 - <u>Cathodic Protection Presentation</u>
 - <u>42" Soil Corrosion Testing</u>

Mr. Sendejo presented the O&M Technical Report for the Board's review. He reported that all vacancies have been filled and new staff members are in training. He introduced Cathodic Protection Technician Hector Barbosa who, accompanied by Ivan Luna (I.C.E.), provided a presentation on Cathodic Protection. The presentation included a description of the importance of cathodic protection, an overview of STWA's 42" water transmission line, a review of the CP system on the 42" pipeline, the existing condition of ARV and block valves, testing station data analysis, and discussion on the importance of cathodic protection in the vicinity of San Fernando Creek. They concluded by stating that a final study report detailing critical issues of the 42" pipeline and the history that has been identified will be submitted to the Board soon.

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- 6. <u>Approval of Annexation of Certain Lands to the South Texas Water Authority</u>.
 - a. <u>Maria Cecilia Lazo –Lot 2 Block F of The Ranch Subdivision as recorded in the map records of Nueces County also recognized as 6303 Branding Iron, Robstown, Texas and Lot 3 Block F of The Ranch Subdivision as recorded in the map records of Nueces County also recognized as 6297 Branding Iron, Robstown, Texas.</u>
 - b. <u>Antonio Perez and Gloria Hernandez Perez The East One-Half (E. ½) of Tract</u> <u>2, Tierra Verde Unit Number 2, a subdivision in Nueces County, Texas, according</u> to map or plat thereof recorded in Volume 50, Pages 92-93, of the Map Records <u>of Nueces County, Texas</u>.

The Public Hearing on the Annexation Petitions for Maria Celicia Lazo in The Ranch subdivision and Antonio Perez and Gloria Hernandez Perez in the Tierra Verde Unit 2 subdivision was conducted prior to the Regular meeting.

7. **Resolution 25-04**. Resolution approving Annexation of Certain Lands to the South Texas Water Authority. (Maria Cecilia Lazo)

Mr. Morales made a motion to adopt Resolution 25-04. The motion was seconded by Ms. Garza and passed by unanimous vote.

8. <u>**Resolution 25-05**</u>. <u>Resolution approving Annexation of Certain Lands to the South</u> <u>Texas Water Authority. (Antonio Perez and Gloria Hernandez Perez)</u>

Mr. Morales made a motion to adopt Resolution 25-05. The motion was seconded by Ms. Garza and passed unanimously.

9. <u>Bids for Maintenance Services – Tree Trimming</u>.

Mr. Marez presented a bid for tree trimming at the STWA office and the Driscoll Pump Station. He said an additional bid is expected and requested authorization to proceed with selection of a company to perform the work after the second bid is received. He explained that the amount of work required is more than can be handled by staff and that the Authority does not have the needed equipment. The bid includes trimming, mulching and hauling. He prefers for work to begin as soon as possible while the trees are dormant. Mr. Graveley made a motion to authorize Mr. Marez to award the contract to the lowest responsible bidder once all bids have been reviewed. Mr. Morales seconded and all voted in favor.

10. <u>Water Supply Contract with the City of Corpus Christi</u>.

Mr. Graveley announced that the Board would convene in Closed Session at 7:01 p.m. pursuant to Section 551.071 of the Government Code to receive legal advice from counsel regarding the Water Supply Contract with the City of Corpus Christi. The Board reconvened in Open Session at 7:19 p.m. No action was taken during Closed Session.

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- 11. Administration Report.
 - Pay/Compensation Update
 - Upcoming Board Meeting Dates
 - Master Plan Review I.C.E.
 - Groundwater Feasibility Study I.C.E.

Mr. Marez reported that a representative from Evergreen Solutions met onsite with staff to explain the process of the study and to gain information from the employees. Individual job assessments were emailed to employees by Evergreen in order to gather information on specific job duties and requirements. Mr. Marez anticipates the need to present a change order for a time extension at the next Board meeting because there was a weather-related delay in beginning the project. He also reminded the Board that the next meeting is scheduled for March 25th. Rural Water Day at the Capital is also on March 25th and Kleberg County Day is scheduled for March 5th in Austin as well. He asked that anyone interested in attending either event notify staff so that arrangements can be made. Mr. Marez also informed the Board that the master plan will be reviewed at the next meeting and I.C.E. will also present on the groundwater feasibility study. Mr. Luna gave a brief update and stated that a report should be ready before the next meeting.

12. Adjournment.

With no further business to discuss, Ms. Garza moved to adjourn the meeting at 7:21 p.m. Mr. Graveley seconded. The motion carried.

Respectfully submitted,

Frances De Leon Assistant Secretary

ATTACHMENT 2

Quarterly Report/Treasurer's Report/ Payment of Bills

The Quarterly Report, Treasurer's Reports, and invoices are not complete and will be provided separately.

ATTACHMENT 3

Field Reports

2302 E. SAGE RD.

KINGSVILLE, TEXAS 78363

CP Report March 21, 2025

42 main Line Mulching and Cleaning

The 42-inch main line Right of Way (ROW) has been cleared of brush and vegetation. The purpose of cleaning and making line markers visible is:

- 1. Public appearance
- 2. Patrolling and visual inspection.
- 3. Pipe to soil surveys during crop season and not destroying their crop

4. Trying to keep a good rapport with land owners and farmers, while monitoring the cathodic protection on the 42 "line.

ARV Valves

ARV vaults have been cleaned up for future inspections and line of sight visibility. ARV valves corrosion is still of high concern and a plan is in the works to rehab valves and prevent further corrosion.

Martin Marietta Materials Yard in Robstown County Road 36

This issue had been ongoing for quite a while Martin Marietta was storing materials on top of our pipeline with hundreds of tons of materials on our line. With some help from friends with AEP, we were able to scare them of our line. It took some stern action and documents to get them going. All materials have been removed of our line and with their permission we used their materials on our line to make us a very nice drivable ROW. The Line was marked and we are working on a plan to build some kind bollards with a single cable to establish a boundary to prevent access to our easement.

Creek and Drainage Ditch Crossings

All waterways' creeks and drain ditches have been cleared of brush and shall be marked with very visible warning signs to advise public.

<u>San Fernando Creek</u>: Depth of cover is 6ft. Was tested for continuity from the north side of creek to the south to ARV. <u>Test failed</u>, and an inspection will have to be done to find anomaly.

Carreta Creek: Depth of cover is 3ft.

Petronilla Creek: Depth of cover is pending.

Nueces County Drainage Ditch #2: Depth of cover is 12 inches, and plan is in process to remediate.

Continuity Testing

Section from end of line at Sage Office to ARV valve before San Fernando creek tested good, Cathodic Protection is being blocked at San Fernando Creek. Tested From 5192 ft to 13400, ft. There is no continuity. This area has bonding issues at joints My conclusion comes from the actual testing and by reading a study that was done in 1995 by Harco (corrpro) These locations were part of the 11 sites that were dug up for Analysis. **Broken bonds were found but not repaired** Recommendations were made and very obvious.

ANALYSIS By Corrpro:

The results of the corrosion survey and subsequent inspections indicate that much of the pipe is in a state of active corrosion. This activity will increase with time as the embedded steel loses its passivity.

Their recommendations: The pipeline has been in the ground for eleven years and still retains most of its mechanical integrity. A program of repairing broken joint bonding cables and application of cathodic protection control procedures will greatly extend the useful life of the pipeline system.

My recommendation would have been to fix it while you have the ditch opened and that was not done.

Thank You Hector Barbosa

ATTACHMENT 4

Water Conservation and Drought Contingency Plan

Memo

To:	South Texas Water Authority, Board of Directors
From:	John Marez, Executive Director/Administrator
Date:	March 21, 2025
Topic:	Updated STWA Water Conservation and Drought Contingency Plan

Background:

Water is a critical resource for the South Texas Water Authority (STWA) and our wholesale water customers. Recognizing the increasing importance of long-term water supply planning, the Texas Commission on Environmental Quality (TCEQ) requires wholesale water suppliers to adopt and periodically update a Water Conservation and Drought Contingency Plan (WCP/DCP). With the on-going drought our region and regional water shed our area is experiencing the board must consider the recent changes adopted by the Corpus Christi City Council.

Section 11.039 of the Texas Water Code provides water suppliers with the authority to allocate water supplies on a pro rata basis during shortages.

Analysis:

Extended periods of drought and natural events beyond our control have the potential to disrupt water availability. An updated WCP/DCP ensures that STWA can effectively manage water supply shortages, promote conservation efforts, and match our wholesaler's DCP while comply with TCEQ regulations. The revised plan, attached, outlines the necessary rules and policies to address both ongoing conservation efforts and emergency drought response.

The Board's adoption of the updated WCP/DCP confirms STWA's commitment to proactive resource management and the responsible management of our water system's supply.

Staff Recommendation:

Staff recommends formal adoption of the updated Water Conservation and Drought Contingency Plan. It is further recommended that the Executive Director be authorized to implement, administer, and enforce the plan moving forward.

Board Action:

Adopt the updated Water Conservation and Drought Contingency Plan.

Memo 3/21/25 Page 2 of 2

Summary:

On March 18, 2025, the Corpus Christi City Council adopted its updated Drought Contingency Plan. As a wholesale customer of the City of Corpus Christi, STWA must also update and adopt its own plan to remain consistent with city policy and ensure coordinated water management across jurisdictions.

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SOUTH TEXAS WATER AUTHORITY WATER CONSERVATION AND DROUGHT CONTINGENCY PLAN



This document was updated on 3/21/25 in accordance with the CCW DCP adopted by the Corpus Christi City Council on 3/18/25

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Part 1 Water Conservation Plan

Introduction

The South Texas Water Authority (STWA) provides treated water supplies to seven (7) wholesale customers. Its mission is to

- Provide a safe supply of water to communities, residents and entities in central Kleberg County and westers Nueces County
- Insure a dependable, abundant supply is available to our customers and,
- Utilize regional approach that minimizes adverse cost of service based on entity size

South Texas Water Authority does not provide wastewater service.

Service Area

The following information is the latest population data and water usage for the last five (5) Fiscal Years. South Texas Water Authority provides wholesale service – not retail service – to these customers

Entity	Population	5 Year Average (annual) FY 19'-23'	Peak Demand Month for FY 19'-23'	Monthly Peak Demand FY 19'-23'
City of Agua Dulce	3,218	27,002,316	July 2023	3,431,044
City of Bishop	5,162	61,122,000	July 2022	17,334,000
City of Driscoll	752	43,237,860	Dec 2020	9,094,300
City of Kingsville	25,415	141,389,600	July 2022	28,743,000
Nueces Water Supply Corporation	3,279	163,280,273	December 2023	20,233,260
Nueces County Water Control & Improvement District #5	810	22,068,553	August 2019	2,619,900
Ricardo Water Supply Corporation	3,333	113,843,800	July 2022	14,484,000

All customers are located within the Authority district with exception of Nueces County Water Control and Improvement District #5 (Banquete), which is served as an Out-of-District customer

The Authority facilities were designed and constructed to serve four original customers, Kingsville, Bishop, Driscoll and Agua Dulce with 100% of their water needs. At the time of construction in 1983, it was anticipated that these entities would initially require between 5 MGD and 7 MGD. The system was designed to meet a 50-year planning period; therefore, the delivery capacity of the system is 17 MGD. South Texas Water Authority purchases treated water from the City of Corpus Christi. Supplies are transported approximately thirty (30) miles south from the O.N. Stevens Treatment Plant to the City of Kingsville via a 42" steel reinforced concrete cylinder water. The City of Driscoll, the City of Bishop and a portion of the Nueces Water Supply Corporation customers are serviced along the route of the 42" transmission line. A smaller asbestos concrete spur line (14-inch and 12- inch) supplies customers in Agua Dulce, Banquete, and the remainder of the Nueces Water Supply Corporation's customers. Construction of the Regional Water System included pump station and storage facilities designed to provide a full day's supply during peak periods.

Direct water service to the Ricardo Water Supply Corporation is provided via a 12-inch transmission line. The Ricardo Water Supply Corporation owns the waterline which was funded by a combination of loan and grant funds through the US Department of Agriculture Rural Development Program.

In Fiscal Year 2023 (October 1, 2022 through September 30, 2023), the Authority purchased 596,417,102 gallons from the City of Corpus Christi. In the past 30+ years, however, the largest potential customer, Kingsville, has opted to continue using groundwater wells for the majority of its needs. Therefore, on average the Authority provides less than 2 MGD to its seven (7) customers. During extremely dry conditions, water demand has exceeded 3 MGD.

Regional Water Supply Sources

The Regional Provider's (the City of Corpus Christi) sources of water is from multiple river basins. The combined Lake Corpus Christi/Choke Canyon Reservoir System is fed from the Atascosa, Frio and Nueces Rivers. Lake Corpus Christi stores 257,260 acre-feet of water (83.8 billion gallons). And, Choke Canyon Reservoir stores 695,271 acre-feet (227 billion gallons). The 101-mile-long Mary Rhodes Pipeline transports is water through a 64-inch pipeline from Lake Texana which is supplied by the Navidad and Lavaca Rivers. In 1993, the City of Corpus Christi entered into a contract with the Lavaca-Navidad River Authority to purchase 41,840 acre-feet (13.66 billion gallons) of water per year.

In addition to the aforementioned supplies, in 1999 the City of Corpus Christi acquired senior water rights to 35,000 acre-feet of water per year in the Lower Colorado River. Construction of the Mary Rhodes Phase II Pipeline to access what is usually referred to as the Garwood water is now complete.

In the past, the City of Corpus Christi has explored the feasibility of desalination. In 2003, the City of Corpus Christi was one of three sites awarded a \$500,000 state grant to conduct a study as part of Governor Rick Perry's initiative to assess the potential desalination of seawater to help meet the state's regional water needs. The City of Corpus Christi also participated in a U.S. Almy Corps of Engineers feasibility study to assess the potential for desalination as a water supply source for the region. This study was jointly sponsored by the San Antonio Water System, San Antonio River Authority, and Guadalupe Blanco River Authority.

In 2005, the City of Corpus Christi also formed an Aquifer Storage and Recovery Conservation District (CCASRCD). This district was as the result of legislation passed in the 79th Texas Legislature. The CCASRCD, according the City's Water Conservation Plan, is "dedicated to protecting groundwater supplies within the district, developing and maintaining an aquifer storage and recovery program,

providing the most efficient use of groundwater resources to supplement existing supplies, while controlling and preventing waste of groundwater." It is not certain, at this time, whether the City of Corpus Christi activities would be regional in nature.

This region continues its efforts in diversifying its resources. In July of 2017, the Texas Water Development Board announced that the City of Corpus Christi and the San Patricio Municipal Water District would receive low interest loan in the amount of \$2.75 million from the State's SWIFT (State Water Implementation Fund for Texas) for a seawater desalination study described as follows:

A Consortium of industrial and municipal stakeholders has completed a feasibility study for the implementation of a seawater desalination plant in the Corpus Christi Bay Area. The intent of the Consortium is to conduct project definition and planning studies for implementing a full-scale seawater desalination project. This funding application is to address those preparation and definition activities which will include recommendation of a project implementation agency, a plant siting evaluation, infrastructure integration planning, source water characterization, economic impact and cost modeling, public outreach, analysis of concentrate management methods, evaluation of cost allocation strategies, evaluation and selection of a project procurement methodology.

Treatment Capacity

According to the City of Corpus Christi's 2020 Water Conservation Plan (WCP), the O.N. Stevens Water Treatment Plant has a rated capacity of 167 million gallons per day, well above the peak summer demand of 100 million gallons per day.

Regional Involvement

South Texas Water Authority's district is located within the Region N Planning area and the Authority will be providing a copy of this updated Plan to the Region N Planning Group. South Texas Water Authority stays abreast of City of Corpus Christi and regional water issues through the Executive Director's participation as follows:

- 1. As the co-chair of the Coastal Bend Regional Water Planning Group
- 2. As a member of the Nueces Advisory Committee: and
- 3. As a member of the Senate Bill 3 (in-stream needs) Committee also known as the Basin and Bay Stakeholder Committee (BBASC)

Leak Detection and Repair

As mentioned in the previous section, all water is metered as it leaves the O.N. Stevens Plant and enters the Authority's Regional System. Water is metered again as it enters the ground storage tanks servicing the Authority's seven (7) wholesale customers. Meters are read on the first day of the month by field personnel, and meter readings and flow volumes are recorded daily via a Supervisory Control and Data Acquisition system (SCADA). A water loss report is calculated Monday through Friday by comparing recordings from the O.N. Stevens Plant against the cumulative of the Authority's wholesale customers. In addition to the daily water loss report and daily metering, the Authority periodically drives out the route of the line. A major portion of the Authority's Regional System's waterlines are located in rural farmlands; therefore, leaks that are not detected by employees are reported by landowners or tenant farmers. For those areas that are not located in cultivated fields, the Authority clears its right-of-way using leased equipment.

Leaks have been located as part of the Authority's cathodic protection program, which involves excavating the 42" transmission line to install sacrificial zinc anodes every 100 lineal feet. Master meters are tested annually by a consultant company specializing in testing larger meters. For deviations from 100% in a range of plus or minus 2%, the meter is re-calibrated. Meters are tested prior to the annual test date in the event the meter is slowing down in registering. Ground storage and elevated tanks are inspected annually. Cathodic protection systems are installed in the Kingsville and Bishop ground storage tanks. Tanks are refurbished every five years, or as needed, by interior and exterior cleaning, spot painting, or if needed complete repainting of the tank.

Future Improvements to Leak Prevention and Detection

Water Master Plan

In April 2023 International Consulting Engineers was commissioned with drafting the South Texas Water Authority Water Master Plan. As part of the assessment of their facilities leak detection was addressed in the plan and is the top of the priority list and item that need to be addressed first.



Figure 1, Cover page of South Texas Water Authority Water Master Plan

The Water Master Plan was submitted to the Texas Water Development Board in 2023 and the application is currently being reviewed

The following are some of the items related to leak prevention and detection

Cathodic Protection Upgrade

As part of South Texas Water Authority Water Master Plan 2023, International Consulting Engineers recommended an upgrade to their current cathodic system that uses sacrificial anodes for an impress system that uses rectifiers. Currently there are sections that are unprotected due aging of the system and the constant maintenance a sacrificial system requires. The new system requires almost no maintenance is more cost effective and will protect the entire transmission line from corrosion and future leaks.

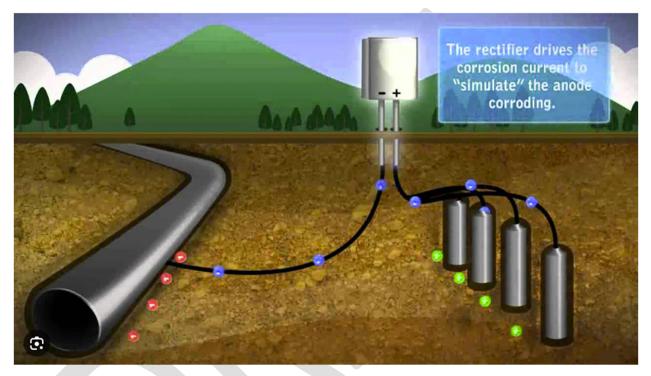


Figure 2. Depiction of an impress system that uses rectifiers like the one proposed as upgrade to STWA

Annual Survey

An annual survey of the cathodic system has been recommended to address any minor issues. The survey will be conducted by a company that specializes on Cathodic Protection that will be selected by South Texas Water Authority

Transmission Line Internal Inspection

The entire transmission line has never been inspected since the construction of the line in 1982. After over 40 years of service, it is necessary to assess the internal condition of the transmission line in order to detect any leaks or possible future leaks.

The survey we are proposing will insert a device called a Smart Ball which will detect

- Leaks,
- Air pockets X, Y,
- GPS coordinates



Figure 3. Smart Ball device for leak detection and GPS coordinates

The second device for the internal inspections is called a Pipe Diver. This apparatus is introduced through an Air Relief Valve (ARV) and navigates the entire length of the pipe providing

- Wall thickness,
- Identify pipe features such as outlets, valves and joints
- Provide location from upstream joint

This survey will provide a map of the current physical location of the line and will provide a report of the current condition of the pipe. If any major small or major problems are detected repairs can be scheduled accordingly.



Figure 4. PipeDiver device for pipe internal inspection

Modeling of STWA Distribution System

In order to better comprehend better the behavior of a distribution system a water modeling of the system is required. A model allows to understand how the water flows through the pipes and identify problem areas. A model allows to better understand the distribution network with current and future conditions.

The modeling will include the following STWA distribution lines

- 42" Transmission Line
- 14" Spur line branching out west in Robstown and going to Central
- 12" Spur line branching leaving Central and going to Banquete, Sablatura and Agua Dulce
- 12" Spur line branching out south in Kingsville and going to Ricardo
- The interconnections between these lines and the pump stations

The modeling will not include the distribution lines of the municipalities. That is the network that connects the residencies and business within the municipality.



Figure 5. WaterCAD Modeling Software

Reservoir System Operation Plan:

The Authority does not own or operate any reservoirs. The water wholesaled by the Authority is purchased from the City of Corpus Christi, the responsible entity overseeing those tasks.

Five-year and Ten-year

Below are the FY 2015 per capita rates for the Authority's seven (7) wholesale customers. These figures are based on STW A's sales to these customers as well as information provided by the wholesale customers for self-supplied groundwater. The usage includes residential, commercial, institutional and industrial use.

As shown below, the cities of Kingsville and Bishop use groundwater wells in addition to the water provided by South Texas Water Authority. The remaining wholesale customers utilizes South Texas Water Authority for 100% of their water needs. Population figures are from the TWDB's Water User Group Entity Detailed GPCD Report with the exception of the Nueces WSC population which is based on the number of connections in 2015 multiplied times three (3) and the Nueces County Water Control and Improvement District #5 (Banquete CDP, Texas) which is based on American Fact Finder, United States Census Bureau.

Entity	FY 2023	FY 2023 Self	FY 2023 Total	FY 2023	FY 2023 Per
	Purchased	supplied/		Population	Capita Rate
	Volume	Adjustments			
Agua Dulce	31,158,936	0	31,158,936	3,218	
Bishop	82,668,000	38,699,000	121,367,000	5,162	
Driscoll	32,315,000	0	32,315,000	752	
Kingsville	159,693,000	1,261,551,000	1,421,244,000	25,415	
Nueces WSC (w/o Geo/IES)	143,105,930	30,836,620	112,269,310	3,279	
Geo Detention	26,786,020				
• IES/KB	4,050,600				
Foundation					
NWSCID#5	21,554,236	0	21,554,236	810	
Ricardo WSC	125,922,000	0	125,922,000	3,333	

The Authority has no enforcement mechanism to impose conservation targets and goals upon its wholesale customers. The Authority will encourage its wholesale customers to educate its retail customers on the importance of water conservation in order to maintain a per capita gallon goal in the 140 - 145 gallon range. This figure closely correlates to the figure reported in the Texas Water Development Board's Water Use of Texas Water Utilities, Report to the 84th Texas Legislature, January

2015, for Medium Utilities, Table 8. Average Water Use in Gallons Per Capita Daily, 2013 on page 20. According to Table 8 Medium Utilities Average Total Water Use- Gallons Per Capita Daily is 141 gallons.

Conservation Strategies

- A. Conservation-Oriented Water Rates and Programs -South Texas Water Authority's negotiated contracts with its wholesale customers provide for a water rate which includes a Handling Charge to recoup fixed costs, and a variable cost component to cover the cost of water purchased from Corpus Christi and other variable expenses. South Texas Water Authority does not have any retail customers; therefore, it does not have any conservation programs such as providing low flow devices or appliances.
- B. South Texas Water Authority does not sell water to any agricultural customers; therefore, the Authority does not have any programs to assist agricultural customers in the development of conservation pollution prevention and abatement plans.
- C. South Texas Water Authority does not provide wastewater service; therefore, it does not have any programs for reuse and/or recycling of wastewater and/or graywater.

The Authority recognizes that there are numerous factors involved in achieving these goals including educating customers, adoption of conservation-oriented rates, and proper maintenance of infrastructure. As such, the Authority is actively involved in the Coastal Bend Regional Water Planning Group and the Nueces Estuary Advisory Council including the Bay Stakeholder Committee (BBASC) created as a result of Senate Bill 3. The Authority will continue to assist its wholesale customers through the following voluntary programs:

- Major Rivers
- Providing financial data for grant/loan applications
- Providing brochure and templates for conservation information

In addition, the Authority makes use of water-wise vegetation and crushed limestone landscaping and grounds keeping. The Authority will request that wholesale customers voluntarily report their progress on water conservation activities on an annual basis.

Water Supply Contract

South Texas Water Authority recognizes that a requirement in every water supply contract entered into or renewed after official adoption of the water conservation plan, and including any contract extension, stipulates that each successive wholesale customer develop and implement a water conservation plan or

water conservation measures. In addition, the Authority recognizes that should the customer intend to resell the water, then the contract between the initial supplier and customer must provide that the contract for the resale of the water must have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures. Contracts or contract extensions will include those stipulations.

Implementation and Enforcement

Enclosed is a copy of the resolution adopting The Water Conservation and Drought Contingency Plan attached as Appendix A.

Coordination with the Regional Water Planning Group:

Enclosed is a copy of the cover letter sent to the Nueces River Authority, administrator of the Coastal Bend Regional Water Planning Group, attached as Appendix B.

Review And Update:

South Texas Water Authority shall review and update its Water Conservation and Drought Contingency Plan, as appropriate, based on an assessment of previous five-year and ten-year targets and any other new or updated info1mation. The original review occurred in May of 2009 and was scheduled for its next review in May of 2014. Instead, due to the extremely dry conditions of 2011, the plan was reviewed a year early in 2013. Now, in light of the City of Corpus Christi's updating of its Drought Contingency Plan, the Plan is being updated and will be revisited during 2024.

Part II – Drought Contingency Plan

The following Part II of the Water Conservation and Drought Contingency Plan is based on South Texas Water Authority's Drought Contingency Plan adopted by Board resolution on August 26, 1999 updated to reflect changes made by the City of Corpus Christi to its drought contingency plan. Of particular importance are the changes to the trigger levels and accompanying restrictions. In addition, the allocation volumes have been recalculated to include the most recent data, located in Appendix C.

Section I: Declaration, Policy and Intent

In order to conserve the available water supply and/or to protect the integrity of water supply facilities, with particular regard for domestic water use, sanitation, and fire protection, and to protect and preserve public health, welfare, and safety and minimize the adverse impacts of water supply shortage or other water supply emergency conditions, the South Texas Water Authority adopts the following Drought Contingency Plan, herein after referred to as the "Plan."

It is the intent that the Plan will:

- a) maintain in effect a drought contingency plan providing the information and direction required by the Texas Administrative Code, Title 30, Environmental Quality, Chapter 288, as these regulations may be amended or modified;
- b) facilitate the development of the specifics of a regional drought contingency plan in conjunction with the Coastal Bend Regional Water Planning Group and the regional water supplier, the City of Corpus Christi;
- c) assist the Authority's customers in development and implementation of plans.

Section II: Public Involvement

Opportunity for the public and wholesale water customers to provide input into the preparation of the Plan was provided by South Texas Water Authority by means of notice of a public meeting and certified letter to wholesale customers.

Section III: Wholesale Water Customers Education

The South Texas Water Authority will periodically provide wholesale water customers with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage. This information will be provided by means of email, regular mail and certified letters.

The South Texas Water Authority currently wholesales water to the cities of Agua Dulce, Bishop, Driscoll, Kingsville and the Nueces County Water Control and Improvement District #5, (Banquete), the Nueces Water Supply Corporation and the Ricardo Water Supply Corporation.

Section IV: Coordination with Regional Water Planning Groups

The water service area of the South Texas Water Authority is located within Region N and the South Texas Water Authority has provided a copy of the Plan to the Coastal Bend Regional Water Planning Group

Section V: Authorization

The Executive Director, or his/her designee, is hereby authorized and directed to implement the applicable provisions of this Plan upon determination that such implementation is necessary to protect public health, safety, and welfare. The Executive Director, or his/her designee, shall have the authorization to initiate or terminate drought or other water supply emergency response measures as described in this Plan.

Section VI: Application

The provisions of this Plan shall apply to all customers utilizing water provided by the South Texas Water Authority. The terms person and customer as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities.

Section VII Triggering Criteria for Inititation and Termination of Drought Response Stages

The Executive Director or his/her designee shall monitor water supply and/or demand conditions on a weekly basis and shall determine when conditions warrant initiation or termination of each stage of the Plan. Coordination with the City of Corpus Christi, the regional water supplier, will be required. Customer notification of the initiation or termination of drought response stages will be made by mail or telephone. The news media will also be informed.

The table below is based on limits as adopted by the Corpus Christi City Council.

Drought Stage Response	CCR/LCC Combined Reservoir Storage Level	Target Demand Reduction Level	
	Storage Lever		
Water Shortage Watch	<50%	5%	
Stage 1 – Mild Water	<40%	5%	
Shortage			
Stage 2 – Severe Water	<30%	10%	
Shortage			
Stage 3 Critical Water	<20%	15%	
Shortage			
Water Emergency			
- Level 1	Not Applicable	25%	
- Level 2		50%	

(a) Water Shortage Watch

<u>Requirements for initiation</u> - The South Texas Water Authority will declare and advise its wholesale customers that a water shortage watch exists when combined water stored in the reservoirs is estimated to be below fifty percent (50%) of total combined storage capacity of the Lake Corpus Christi/Choke Canyon Reservoirs.

Target: Achieve a voluntary 5% reduction in daily water with the water use conditions below.

Best Management Practices for Supply Management: The STWA will enact voluntary measures to reduce or discontinue the flushing of water mains if practicable and utilize reclaimed water for non-potable uses to the greatest extent possible. The STWA will actively promote educational messages in the media about how to reduce water use through conservation practices, and rules of the drought stages.

Water Use Conditions for Reducing Demand:

a) Water customers are requested to voluntarily limit the irrigation of landscaped areas to once per week.

b) Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.

c) All operations of the STWA shall adhere to water use restrictions prescribed for Stage 1.

d) Water smart techniques will be promoted by STWA leadership, Board and O&M department.

(b) Stage 1 – Mild Water Shortage

<u>Requirements for initiation</u> - The South Texas Water Authority will declare and advise its wholesale customers that a mild water shortage condition exists when combined water stored in the reservoirs is estimated to be forty percent (40%) of total combined storage capacity of the Lake Corpus Christi/Choke Canyon Reservoirs.

Target: During Stage 1, achieve a 5% reduction in daily treated water demand relative to treated water demand with the water use restrictions below.

Best Management Practices for Supply Management: Under Stage 1, the City will: • Use more repair crews if necessary to allow for a quicker response time for waterline leak repair; and • City crews (Water and other departments) begin monitoring customers' compliance with Stage 1 restrictions during the course of their daily rounds. • Increase targeted outreach to high-consumption industrial and commercial customers to urge water use reductions. • Increase public education and outreach regarding water use reduction by using the following practices: o Use an aerator and/or a water flow-reducer attachment on your tap to reduce your water usage. o When brushing your teeth, turn the water off while you are brushing. Use short bursts of water for cleaning your brush. o When washing or shaving, partially fill the sink and use that water rather than running the tap continuously. o Use either low-flow shower heads or adjustable flow-reducer devices on your shower heads. o Take shorter showers. o You can reduce water usage by 40% to 50% by installing low-flush toilets. o When hand-washing dishes, never run water continuously. o If you have a dishwasher appliance, use it only to wash full loads, and use the shortest cycle possible. o Wash only full loads in your washing machine and use the shortest cycle possible. o Repair leaks quickly. Clean outdoor surfaces with a broom, not a hose. o Water during the cool part of the day, in the morning or evening. o Do not over water in anticipation of a shortage. Soil cannot store extra water.

Water Use Restrictions for Demand Reduction Under threat of penalty for violation, the following water use restrictions shall apply to all persons during Stage 1: a) Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems shall be limited to once per week. The watering schedule will be determined by the Executive Director or designee. Irrigation of landscaped areas is permitted on any day if it is by means of a hand-held hose (with positive shutoff nozzle), a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system with a positive shutoff device.

(c) Stage 2 – Severe Water Shortage

<u>**Requirements for initiation</u></u> - The South Texas Water Authority will declare and advise its wholesale customers that a severe water shortage exists when the combined storage capacity of the Lake Corpus Christi/Choke Canyon Reservoirs is less than 30%.</u>**

<u>**Requirements for termination**</u> - Stage 2 of the Plan may be rescinded when the combined storage capacity level of the LCC/CCR increases to above 40%. Upon termination of Stage 2, Stage I becomes operative. The South Texas Water Authority will notify its wholesale customers and the public of the termination of Stage 2 in the same manner as the notification of initiation of Stage I of the Plan, if applicable.

• Eliminate the flushing of water mains unless required for decontamination and/or public safety; and • Review customers' water usage for compliance based on the previous month's water use and notify violators verbally or in writing as the situation dictates. • Increase public education and outreach regarding water use reduction by using the following practices: o Use an aerator and/or a water flow-reducer attachment on your tap to reduce your water usage. o When brushing your teeth, turn the water

off while you are brushing. Use short bursts of water to clean your brush. o When washing or shaving, partially fill the sink and use that water rather than running the tap continuously. o Use either low-flow shower heads or adjustable flow-reducer devices on your shower heads. o You can reduce water usage by 40% to 50% by installing low-flush toilets. o When hand-washing dishes, never run water continuously. o If you have a dishwasher appliance, use it only to wash full loads. o Wash only full loads in your washing machine and use the shortest cycle possible. o Fix leaks quickly. o Clean outdoor surfaces with a broom, not a hose o Do not overwater in anticipation of a shortage. Soil cannot store extra water

Water Use Restrictions for Demand Reduction: All requirements of Stage 1 shall remain in effect during Stage 2 except as modified below: a) Irrigation of landscaped areas with hose-end sprinklers and automatic irrigation systems shall be limited to once every other week. Customers should select one designated watering day per week. However, irrigation of landscaped areas is permitted on any day if it is by means of a hand-held hose (with positive shutoff nozzle), a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system with a positive shutoff device. a). Exceptions for this restriction may be permitted, upon review and approval by the Executive Director or designee, for the following uses: new plantings (for up to 60 days), vegetable gardens, athletic playing fields, and botanical gardens. In addition, this restriction does not apply to customers irrigating with well water or an aerobic septic system. The watering of golf course fairways with potable water is prohibited. b) The watering of greens and tees are limited to once every other week unless the golf course utilizes reclaimed water or a water source or done by means of hand-held hoses, or hand-held buckets, or drip irrigation. c) A person or entity who owns, leases or manages an outdoor swimming pool shall begin preparation for Stage 3 requirement to have approximately 100 percent of the pool surface area covered when not in use. d) Hotels, motels, and other lodgings must offer and clearly notify guests of a "linen/towel change on request only" program. e) Use of water to wash a motor vehicle, not occurring on the premises of a commercial car wash, is allowed on the self-designated watering day. Optional Measures: During Stage 2, the following measures are optional water use restrictions that may be implemented by the Executive Director or designee, with Board approval, as conditions warrant: a) For residential and multi-unit customers, a drought surcharge of up to and including 100% of the total monthly water bill over the monthly allocation may be added to the customers' bill to deter discretionary water use.

(d) Stage 3 – Critical Water Shortage

<u>**Requirements for initiation**</u> - The South Texas Water Authority will declare and advise its wholesale customers that a critical water shortage exists when the combined storage capacity of the Lake Corpus Christi/Choke Canyon Reservoirs is less than 20% of total storage capacity.

<u>Requirements for termination</u> - Stage 3 of the Plan may be rescinded when the combined storage capacity level of the LCC/CCR increases to above 30%. Upon termination of Stage 3, Stage 2 becomes operative. The South Texas Water Authority will notify its wholesale customers and the media of the termination of Stage 3 in the same manner as the notification of Stage 2 initiation, if applicable.

An additional surcharge will be added to each utility bill during Stage 3 water shortage conditions to discourage discretionary water use.

In addition to the best management practices for supply management listed under Stage 2, the City will also do the following during Stage 3: • Upon written notice, disconnect the water meters of willful violators if absolutely necessary to prevent the deliberate wasting of water. • Increase public education and outreach regarding water use reduction by using the following practices: o Use an aerator and/or a water flow-reducer attachment on your tap to reduce your water usage. o When brushing your teeth, turn the water off while you are brushing. Use short bursts of water for cleaning your brush. o When washing or shaving, partially fill the sink and use that water rather than running the tap continuously. o Use either low-flow shower heads or adjustable flow-reducer devices on your shower heads. o You can reduce water usage by 40% to 50% by installing low-flush toilets. o When hand-washing dishes, never run water continuously. o If you have a dishwasher appliance, use it only to wash full loads. o Wash only full loads in your washing machine and use the shortest cycle possible. o Repair leaks quickly. o Clean outdoor surfaces with a broom, not a hose. Do not over water in anticipation of a shortage. Soil cannot store extra water.

Water Use Restrictions for Demand Reduction: All requirements of Stage 1 and 2 shall remain in effect during Stage 3 except as modified below: • Irrigation of landscaped areas turf grass by any means shall be prohibited at all times. • Drip irrigation for foundations and landscaped beds is allowed every other week on the designated watering schedule. A watering schedule will be determined by the Executive Director or designee. Customers will be made aware of their designated watering day. • Watering of trees, vegetable beds, shrubs, and potted plants is permitted on any day if it is by means of a handheld hose (with a positive shutoff nozzle), a faucet-filled bucket, or a watering can of five (5) gallons or less. Exceptions for Stage 3 restrictions may be permitted up to 30 days, upon review and approval by the Executive Director or designee, for new plantings. In addition, this restriction does not apply to customers irrigating with well water or an aerobic septic system. • Use of water to wash a motor vehicle, not occurring on the premises of a commercial car wash station, is allowed by hand, with a five (5) gallon bucket or less on the designated watering day. Use of water to wash any motor vehicle, motorbike, boat, trailer, or other vehicle not occurring on the premises of a commercial car wash stations and not in the immediate interest of public health, safety, and welfare is prohibited. • The filling, refilling, or adding of water to swimming pools, wading pools, and jacuzzi-type pools, and water parks is prohibited. • The filling, draining and refilling of an existing swimming pool, Jacuzzi and hot tubs is prohibited except to maintain structural integrity. • A person or entity who owns, leases, or manages an outdoor swimming pool shall have approximately 100% of the pool surface area covered when not in use. • Operators of water parks must seek approval from the Executive Director or designee prior to the filling, refilling, or adding water to water parks. • The use of water to maintain the integrity of a building foundation is still permitted on the designated Stage 2 watering day. • All fountains shall only operate to circulate water in order to maintain equipment. • Hotels, motels, and other lodgings must offer and clearly notify guests of a "linen/towel change on request only" program.

Optional Measures: During Stage 3, the following measures are optional water use restrictions that may be implemented by the Executive Director or designee, with Board approval, as conditions warrant: a) No application for new, additional, expanded, or increased-in-size water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be approved, and time limits for approval of such applications are hereby suspended for such time as this drought response stage shall be in effect. For residential and multi-unit customers, a drought surcharge of up to and including _____ of the total monthly water bill over the monthly allocation may be added to the customers' bill to deter discretionary water use.

(e) Water Emergency – Level 1

<u>**Requirements for initiation**</u> - South Texas Water Authority will declare and advise its wholesale customers that an emergency water shortage condition exists in the event of:

- a) A major water line break or breaks and/or pump station failures, whether owned and operated by South Texas Water Authority or the City of Corpus Christi, which cause unprecedented loss of capability to provide water service, or
- b) Water production limitations associated with the City of Corpus Christi's water treatment facilities, or
- c) A natural or man-made contamination of the water supply source(s).

<u>Requirements for termination</u> - Stage 4 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist and are rescinded by the Corpus Christi City Manager or South Texas Water Authority Executive Director, whoever is applicable.

In the event that triggers – Level 1 Water Emergency of the DCP is met, STWA Executive Director or designee is hereby authorized to implement pro-rata curtailment of water supplies to all customers in accordance with Texas Water Code §11.039. The initiation of pro-rata curtailment preparations shall begin during Stage 3. Target: During a Level 1 Water Emergency, pro-rata curtailment will be required and may start at 5% or greater reduction of total water demand, depending on the forecasted water supply conditions. Surcharges and allocations are enforceable during a Water Emergency.

Best Management Practices for Supply Management: In addition to the best management practices for supply management listed under Stage 3, the STWA will also do the following: • Implement a planned public campaign to inform all customers of the water emergency and to mandate the immediate curtailment of water. • Contact wholesale water customers to discuss water supply and/or demand conditions and inform them about the initiation of mandatory measures to curtail their water consumption as necessary. • Contact large-volume/industrial users to discuss water supply and/or demand conditions and inform them about the initiation of mandatory measures to curtail their water consumption as necessary.

Water Use Restrictions for Demand Reduction: During a Level 1 Water Emergency, all requirements of Stage 1, 2, and 3 shall remain in effect except as modified below: a) Irrigation of all landscaped areas is absolutely prohibited. b) Use of water to wash any motor vehicle, motorbike, boat, trailer, or other vehicle is absolutely prohibited. c) Associated uses of water not related to business processes which are discretionary, such as equipment washing, shall be deferred until the water emergency has been terminated.

(f) Water Emergency – Level 2

Target: During a Level 2 Water Emergency, achieve the necessary reduction in daily water demand to meet minimum system pressure requirements with the below water use restrictions. In addition, during a Level 2 Water Emergency all requirements from a Level 1 Water Emergency may be authorized under this section. Surcharges and curtailments are enforceable during a Water Emergency. During a water emergency such as a catastrophic failure of infrastructure or cross-connection contamination, the STWA shall implement all necessary measures to protect public health and safety.

Best Management Practices for Supply Management: In addition to the best management practices for supply management listed under Stage 3, the STWA will also do the following: • Implement a public campaign to inform all customers of the water emergency and to mandate the immediate curtailment of water. • Contact wholesale water customers to discuss water supply and/or demand conditions and inform them about the initiation of mandatory measures to curtail their water consumption as necessary. • Contact large-volume/industrial users to discuss water supply and/or demand conditions and inform them about the initiation of mandatory measures to curtail their water consumption as necessary. Water Use Restrictions for Demand Reduction: During a water emergency, all requirements of Stage 1, 2, and 3 shall remain in effect except as modified below: a) Irrigation of all landscaped areas is absolutely prohibited. b) Use of water to wash any motor vehicle, motorbike, boat, trailer, or other vehicle is absolutely prohibited. c) Associated uses of water not related to business process which are discretionary, such as equipment washing, shall be deferred until the water emergency has been terminated.

Optional Measures: During Stage 4, the following measure is an optional water use restriction that may be implemented by the Executive Director or designee, with STWA approval, as conditions warrant: a) For residential and multi-unit customers, a drought surcharge of up to and including <u>100%</u> of the total monthly water bill over the monthly allocation may be added to the customers' bill to deter discretionary water use. During a Level 1 or Level 2 Water Emergency, the following measure is an optional water use restriction that may be implemented by the Executive Director or designee, with Board approval, as conditions warrant: a) No application for new, additional, expanded, or increased-insize water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be approved, and time limits for approval of such applications are hereby suspended for such time as this drought stage shall be in effect.

Section VIII: Drought Response Stages

The Executive Director, or his/her designee, shall monitor water supply and/or demand conditions and, in accordance with the triggering criteria set forth in Section VII, shall determine that mild, moderate, severe or critical water shortage conditions exist, as established by the City of Corpus Christi, or that an emergency condition exists and shall implement the following actions:

Stage 1 – Mild Water Shortage Conditions

- 1. Goal: achieve a ten percent (10%) reduction as requested by the City of Corpus Christi.
- 2. Supply Management Measures. Request that wholesale customers consider implementation of the following regulations or prohibitions:
 - a. Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems shall be limited to once per week. Irrigation of landscaped areas could be permitted on any day if it is by means of a hand-held hose (with positive shutoff nozzle), a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system with a positive shutoff device. The City of Corpus Christi's watering schedule will be determined by the Corpus Christi City Manager or his/her designee. South Texas Water Authority will provide that information to its wholesale customers and recommend that similar, if unable to adopt identical, schedules be adopted. The Authority also recommends that exceptions for this restriction be permitted, upon review and approval by a Water Allocation and Review Committee appointed by the wholesale customer's governing body. Exceptions for consideration can include: new plantings - for up to 60 days, vegetable gardens, athletic playing fields and botanical gardens. Wholesale customers may also consider adopting an exemption (whereby this restriction does not apply) to their retail customers irrigation with well water or an aerobic septic system. The Authority recommends that its wholesale customers adopt a permitting process for this exemption including the issuance of a posted permit to be prominently displayed on the premises and visible within two (2) feet of the premise's address.
 - b. Use of water from hydrants shall be limited to firefighting, related activities, or other activities necessary to maintain public health, safety, and welfare, except that use of water from designated fire hydrants for construction proposes may be allowed under special permit from the wholesale customer or wholesale customer's water department.
 - c. Use of water for the irrigation of golf course greens, tees, and fairways is prohibited exception designated watering days. However, if the golf course utilizes a water source other than that provided from the City of Corpus Christi's regional supply, the facility will not be subject to this restriction, unless it is a separate requirement of the wholesale customer.
 - d. Use of water to maintain the integrity of building foundations is limited to designated watering days and is only permitted by use of hand-held hose or drip irrigation.
- 3. Demand Management Measures:
 - a. The Executive Director, or his/her designee(s) will initiate contact with wholesale water customers as needed to discuss water supply and/or demand conditions and the possibility of pro rata curtailment of water diversions and/or deliveries.

- b. The Executive Director, or his/her designee(s), will request wholesale water customers to initiate mandatory measures to reduce non-essential water use.
- c. The Executive Director, or his/her designee(s), will initiate preparations for the implementation of pro rata curtailment of water diversions and/or deliveries by preparing a monthly water usage allocation baseline for each wholesale customer according to the procedures specified in Section IX of the Plan.
- d. The Executive Director, or his/her designee(s), will provide reports as needed to the City of Corpus Christi with information regarding current wholesale customer usage.

Stage 2 – Moderate Shortage Conditions

- 1. Goal: achieve a fifteen percent (15%) reduction as requested by the City of Corpus Christi.
- 2. Supply Management Measures. South Texas Water Authority will advise its wholesale customers to continue in full force with restrictions set forth in Stage 1. In addition, request that wholesale customers consider implementation of the following additional regulations or prohibitions:
 - a. Eliminate the flushing of water mains unless required for decontamination and/or public safety.
 - b. Review their retail customers' water usage for compliance of the 15% reduction based on the previous month's water use and notify violators verbally or in writing as the situation dictates.
 - c. Irrigation of landscaped areas shall be limited to once every other week. The City of Corpus Christi watering schedule will be determined by the Corpus Christi City Manager or his/her designee. South Texas Water Authority will provide that information to its wholesale customers and recommend that similar, if unable to adopt identical, schedules be adopted. The Authority will also recommend that exceptions for this restriction be permitted, upon review and approval by a Water Allocation and Review Committee appointed by the wholesale customer's governing body. Exceptions for consideration can include: new plantings for up to 60 days, vegetable gardens, athletic playing fields and botanical gardens. Wholesale customers may also consider adopting an exemption (whereby this restriction does not apply) to their retail customers irrigating with well water or an aerobic septic system. The Authority recommends that its wholesale customers adopt a permitting process for this exemption including the issuance of a posted permit to be prominently displayed on the premises and visible within two (2) feet of the premise's address.
 - d. Irrigation of landscaped areas is permitted on any day if it is by means of a hand-held hose with positive shutoff nozzle, a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system with a positive shutoff device.
 - e. The watering of golf course _fairways is prohibited. Watering of greens and tees is limited to once every other week unless the golf course utilizes a water source other than that provided from the City of Corpus Christi's regional supply or if done by means of hand-held hoses, hand-held buckets, or drip irrigation and at the discretion of the wholesale customer's governing body.

- f. In addition, the City of Corpus Christi may implement a drought surcharge for its residential and multi-unit customers to deter discretionary use of water. According to the City's Plan, the surcharge may be up to and including 100% of the current water rate added to the customer's bill.
- g. South Texas Water Authority understands that its wholesale customers have their own budgetary needs and have the potential to face sho1ifalls as a result of decreased sales. In addition, South Texas Water Authority will be charged surcharges by the City of Corpus Christi for exceeding the calculated allocations. These surcharges will be collected from each wholesale customer that exceeds its allocation in accordance with Section IX of this Plan.
- 3. The Executive Director, or his/her designee(s), will provide reports as needed to the City of Corpus Christi with information regarding current wholesale customer usage.

Stage 3 – Critical Water Shortage Conditions

- 1. Goal: achieve a thirty percent (30 %) reduction as requested by the City of Corpus Christi.
- 2. Supply Management Measures. South Texas Water Authority will advise its wholesale customers to continue in full force with restrictions set forth in Stage 2. In addition, request that wholesale customers consider implementation of the following additional regulations or prohibitions:
 - a. Upon written notice, disconnect the water meters of willful violators if absolutely necessary to prevent the deliberate wasting of water.
 - b. Irrigation of landscaped areas shall be prohibited at all times.
 - c. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane, or other vehicle not on the premises of a commercial car wash station and not in the immediate interest of public health, safety, and welfare is prohibited.
 - d. Use of water to fill, refill, or add to any indoor or outdoor swimming pools, wading pools, or Jacuzzi-type pools and water parks, unless the source of water is a non-city, alternative source is prohibited.
 - e. Use of water to maintain the integrity of building foundations is still permitted on the designated Stage 2 watering day and is only permitted by use of hand-held hose or drip irrigation.
 - f. An additional measure at the discretion of the governing body is to disallow any applications for new, additional, expanded, or increase in size water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind.
 - g. In addition, the City of Corpus Christi may implement a drought surcharge for its residential and multi-unit customers to deter discretionary use of water. According to the City's Plan, the surcharge may be up to and including 100% of the current water rate added to the customer's bill.
 - South Texas Water Authority understands that its wholesale customers have their own budgetary needs and have the potential to face shortfalls as a result of decreased sales. In addition, South Texas Water Authority will be charged surcharges by the City of Corpus Christi for exceeding the calculated allocations. These surcharges will be

collected from each wholesale customer that exceeds its allocation in accordance with Section IX of this Plan.

3. The Executive Director, or his/her designee(s), will provide reports as needed to the City of Corpus Christi with information regarding current wholesale customer usage.

Stage 4 – Emergency Water Shortage

Whenever emergency water shortage conditions exist as defined in Section VII of the Plan, the

Executive Director shall:

- 1. Assess the severity of the problem and identify the actions needed and time required to solve the problem.
- 2. Inform the utility director or other responsible official of each wholesale water customer by telephone or in person and suggest actions, as appropriate, to alleviate problems.
- 3. If appropriate, notify city, county, and/or state emergency response officials for assistance.
- 4. Undertake necessary actions, including repairs and/or cleanup as needed. These actions shall include but not be limited to activating the emergency 4" waterline interconnection between the Nueces Water Supply Corporation's distribution system and the Nueces Water Control and Improvement District #5, use of tankard water trucks and hauling water from nearby systems such as the City of Alice and the City of Corpus Christi (if the emergency is not as a result of the City's own emergency), requesting the City of Agua Dulce to activate their groundwater well, requesting the City of Bishop to utilize its groundwater well for a larger percentage of its needs and requesting the City of Kingsville to utilize its groundwater wells for 100% of its water needs.
- 5. Prepare a post-event assessment report on the incident and critique of emergency response procedures and action.

Section IX: Pro Rata Water Allocation

In the event that the triggering criteria specified in Section VII of the Plan for Stage 3- Critical Water Shortage Conditions have been met, the Executive Director is hereby authorized to initiate allocation of water supplies on a pro rata basis in accordance with Texas Water Code Section 11.039 and according to the following water allocation policies and procedures:

a) A wholesale customer's monthly allocation shall be a percentage of the customer's water usage baseline. The percentage will be set by resolution of the Board of Directors based on the Executive Director's assessment of the severity of the water shortage condition and the need to curtail water diversions and/or deliveries and may be adjusted periodically by resolution of the Board of Directors as conditions warrant. Once pro rata allocation is in effect, water diversions by or deliveries to each wholesale customer shall be limited to the allocation established for each month.

b) A monthly water usage allocation shall be established by the Executive Director, or his/her designee, for each wholesale customer. The wholesale customer's water usage baseline will be computed on the average water usage by month for the last five (5) year period as shown in the example given below. If the wholesale water customer's billing history is less than five (5) years, the monthly average for the period for which there is a record shall be used for any monthly period for which no billing history exists.

	1	1	r	r	1			1	
	FY	FY	FY	FY	FY	SUM	AVE	Allocation	Monthly
	2019	2020	2021	2022	2023			Percentage	Allocation
Oct	133	137	146	148	156	720	144	70%	101
Nov	115	122	133	133	147	650	130	70%	91
Dec	130	150	146	149	159	734	147	70%	103
Jan	130	167	168	157	187	809	162	70%	113
Feb	160	152	179	183	171	845	169	70%	118
Mar	226	184	172	215	249	1,046	209	70%	145
Apr	235	274	232	314	246	1,301	260	70%	182
May	222	203	206	337	309	1,277	255	70%	179
Jun	199	160	196	229	198	982	196	70%	137
Jul	165	172	197	165	185	884	177	70%	124
Aug	139	142	149	153	162	745	149	70%	104
Sep	142	143	150	156	165	756	151	70%	106
TOT	1,996	2003	2,074	2,339	2,334		2,149		1,503

Example Calculation of Monthly Allocation for a Hypothetical Wholesale Water Customer

- c) The Executive Director shall provide notice, by certified mail, to each wholesale customer informing them of their monthly water usage allocations and shall notify the City of Corpus Christi and the executive director of the Texas Commission on Environmental Quality upon initiation of pro rata water allocation.
- d) The Executive Director shall provide notice, by certified mail, to each wholesale customer informing them of their monthly water usage allocations and shall notify the City of Corpus Christi and the executive director of the Texas Commission on Environmental Quality upon initiation of pro rata water allocation.
- e) Upon request of the customer or at the initiative of the Executive Director, the allocation may be reduced or increased if, (1) the designated period does not accurately reflect the wholesale customer's normal water usage; (2) the customer agrees to transfer part of its allocation to another wholesale customer; oi. (3) other objective evidence demonstrates that the designated allocation is inaccurate under present conditions. A customer may appeal an allocation established hereunder to the Board of Directors of the South Texas Water Authority.

Section X: Enforcement

During any period when pro rata allocation of available water supplies is in effect, South Texas Water Authority shall pay surcharges according to the City of Corpus Christi's Drought Contingency Plan, Sections 16.9 (Pro Rata Water Allocation) and 16.10 (Pro Rata Surcharges and Enforcement) which reads as follows:

In the event that the triggering criteria specified in Section 16. 7 of the [City of Corpus Christi 's] Plan for Stage 3 have been met, the City of Corpus Christi City Manager, or designee, is hereby authorized to implement allocation of water supplies on a pro rata basis to raw water and treated wholesale customers in accordance with the Texas Water Code §11.039. The initiation of pro rata allocation preparations shall begin during Stage 2. A provision will be included in every wholesale water contract entered into or renewed after adoption of the plan, including contract extensions, that in case of a shortage of water resulting from drought, the water to be distributed shall be divided in accordance with Texas Water Code §11.039.

- 1. A raw water or wholesale treated water c11stomer 's monthly allocation shall be a percentage of the customer's water usage baseline. The percentage will be set by resolution of the City Council based on the City Manager's assessment of the severity of the water shortage condition and the need to curtail water diversions and deliveries, and may be adjusted periodically by resolution of the City Council as conditions warrant. Once pro rat a allocation is in effect, water diversions by or deliveries to each raw water or wholesale treated water customer shall be limited to the allocation established for each month.
- 2. A monthly water usage allocation shall be established by the City Manager, or the City Manager's designee, for each raw water or wholesale treated water customer. The raw water or wholesale treated water customer's water usage baseline will be computed on the average water usage by month for the previous five-year period. It the raw water or wholesale treated water customer's billing history is less than five (5) years, the monthly average for the period for which there is a record shall be used for any monthly period for which no billing history exists.
- 3. The City Manager shall provide notice, by certified mail, to each raw water or wholesale treated water customer informing them of their monthly water usage allocations and shall notify the news media and the Executive Director of the Texas Commission on Environmental Qualify upon initiation of pro rat a water allocation.
- 4. Upon request of the raw water or wholesale treated water customer or at the initiative of the City Manager, the allocation may be reduced or increased if:
 - a. The designated period does not accurately reflect the raw water or wholesale heated water customer's normal water usage;

- *b.* The customer agrees to transfer part of its allocation to another raw water or wholesale treated water customer; or
- c. Other objective evidence demonstrates that the designated a/location is inaccurate under present conditions. A customer may appeal allocation established under this section to the City Council of the City of Corpus Christi.

During any period when pro rata allocation of available water supplies is in effect, wholesale customers shall pay the following surcharges on excess water diversions:

- 2. 0 times the normal water rate per unit in excess of the monthly a/location up through 5 percent above the monthly allocation.
- 2.5 times the normal water rate in excess of the monthly allocation from 5 percent through 10 percent above the monthly a/location.
- 3 0 times the normal water rate in excess of the monthly allocation from 10 percent through 15 percent above the monthly allocation.
- times the normal water rate more than 15 percent above the monthly allocation.

Any surcharges assessed against South Texas Water Authority by the City of Corpus Christi will be charged on a pro rata basis to the Authority's wholesale customers that have exceeded their monthly allocation calculated in accordance with Section IX.

Section XI: Variances

The Executive Director, or his/her designee, may, in writing, grant a temporary variance to the pro rata water allocation policies provided by this Plan if it is determined that failure to grant such variance would cause an emergency condition adversely affecting the public health, welfare, or safety and if one or more of the following conditions are met:

- a) Compliance with this Plan cannot be technically accomplished during the duration of the water supply shortage or other condition for which the Plan is in effect.
- b) Alternative methods can be implemented which will achieve the same level of reduction in water use.

Wholesale customers requesting an exemption from the provisions of this Plan shall file a petition for variance with the Executive Director within five (5) days after pro rata allocation has been invoked. All petitions for variances shall be reviewed by the Board of Directors, and shall include the following:

- a) Name and address of the petitioner(s).
- b) Detailed statement with supporting data and information as to how the pro rata allocation of water under the policies and procedures established in the Plan adversely affects the petitioner

or what damage or harm will occur to the petitioner or others if petitioner complies with this Plan.

- c) Description of the relief requested.
- d) Period of time for which the variance is sought.
- e) Alternative measures the petitioner is taking or proposes to take to meet the intent of this Plan and the compliance date.
- f) Other pertinent information.

Variances granted by the Board of Directors shall be subject to restrictions placed on the South Texas Water Authority by the City of Corpus Christi and the following conditions, unless waived or modified by the Board of Directors or its designee:

- a) Variances granted shall include a timetable for compliance.
- b) Variances granted shall expire when the Plan is no longer in effect, unless the petitioner has failed to meet specified requirements.

No variance shall be retroactive or otherwise justify any violation of this Plan occurring prior to the issuance of the variance.

Section XII: Severability

It is hereby declared to be the intention of the Board of Directors that the sections, paragraphs, sentences, clauses, and phrases of this Plan are severable and, if any phrases, clause, sentence, paragraph, or section of this Plan shall be declared unconstitutional by the valid judgment or decree of any court of competent jurisdiction, such unconstitutionality shall not affect any of the remaining phrases, clauses, sentences, paragraphs, and sections of this Plan, since the same would not have been enacted by the Board of Directors without the incorporation into this Plan of any such unconstitutional phrase, clause, sentence, paragraph, or section.

Resolution 25-07

SOUTH TEXAS WATER AUTHORITY

Resolution 25-07

RESOLUTION OF THE BOARD OF DIRECTORS ADOPTING AN UPDATED WATER CONSERVATION AND DROUGHT CONTINGENCY PLAN FOR THE SOUTH TEXAS WATER AUTHORITY.

WHEREAS, the Board recognizes that the importance of water and its availability to the South Texas Water Authority and to its wholesale water customers; and

WHEREAS, the Board recognizes that water resources are not a limitless resource and are subject to depletion during periods of extended drought;

WHEREAS, the South Texas Water Authority recognizes that natural limitations due to drought conditions and other acts of God cannot guarantee an uninterrupted water supply for all purposes; and

WHEREAS, the Texas Commission on Environmental Quality requires wholesale suppliers in Texas to prepare a Water Conservation and Drought Contingency Plan; and

WHEREAS, the Texas Water Code Section 11.039 authorizes water suppliers to distribute available water supplies on a pro rata basis during times of water supply shortage; and

WHEREAS, as authorized under law, and in the best interests of the customers of the South Texas Water Authority, the Board deems it expedient and necessary to establish certain rules and policies for the orderly and efficient management of limited water supplies on an ongoing basis as well as during drought and other water supply emergencies.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SOUTH TEXAS WATER AUTHORITY:

SECTION 1. That the Amended Water Conservation and Drought Contingency Plan is attached hereto as Exhibit "A" and hereby adopted as the official policy of the South Texas Water Authority.

SECTION 2. That the Executive Director is hereby directed to implement, administer, and enforce the Water Conservation and Drought Contingency Plan.

SECTION 3. That this resolution shall take effect immediately upon its passage.

Duly adopted by the Board of Directors of the South Texas Water Authority on this 25th day of March, 2025.

ATTEST:

JOSE M. GRAVELEY, PRESIDENT

IMELDA GARZA, SECRETARY/TREASURER

Surplus Property

Memo

To: South Texas Water Authority, Board of Directors

From: John Marez, Executive Director/Administrator

Date: March 21, 2025

Topic: Authorization to Declare and Sell Surplus Property

Background:

As part of the Authority's ongoing efforts to maintain an efficient and up-to-date fleet and office technology, several vehicles and equipment items have been replaced. The items identified are no longer in service and are no longer suitable for use in Authority operations. To comply with asset management and disposal procedures, these items must be formally declared as surplus before they can be sold or otherwise disposed.

Analysis:

The following items have been evaluated and determined to be surplus:

- One (1) 2018 Chevrolet 2500 Pickup Truck
- One (1) 2018 Ford F150 Pickup Truck
- One (1) HP Color LaserJet Pro M255dw Printer
- Six (6) Dell Desktop Computers

These assets are no longer needed for daily operations. Vehicles have exceeded their useful life for the Authority's needs, and the office equipment has been replaced with updated technology. Disposal through sale is consistent with past practice and provides an opportunity to recover some residual value.

Staff Recommendation:

Staff recommends approval of Resolution 25-08 declaring the listed property as surplus and authorizing the Executive Director to facilitate the sale of these items in accordance with applicable policies and procedures.

Board Action:

Consider and adopt Resolution 25-08 authorizing the declaration and sale of the identified surplus property.

Summary:

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Approval of Resolution 25-08 allows the South Texas Water Authority to formally dispose of outdated assets and recoup value from equipment no longer suitable for operations. The declaration of surplus is necessary to move forward with the sale and aligns with best practices for asset management.

Resolution 25-08

SOUTH TEXAS WATER AUTHORITY

Resolution 25-08

A RESOLUTION AUTHORIZING THE SALE OF SURPLUS PROPERTY OF THE SOUTH TEXAS WATER AUTHORITY.

WHEREAS, the following property has been replaced and is no longer in use nor suitable for use by the Authority:

Item	QTY	Description				
#						
1	1	2018 Chevrolet 2500 Pickup Truck				
2	1	2018 Ford F150 Pickup Truck				
3	1	HP Color LaserJet Pro M255dw Printer				
4	6	Dell Desktop Computers				

and

WHEREAS, the list of property has been reviewed by the Authority's Board of Directors.

NOW, THEREFORE, BE IT RESOLVED that the Authority declares the property as surplus property and authorizes sale of the property.

Duly adopted this 25th day of March, 2025.

JOSE M. GRAVELEY, PRESIDENT

ATTEST:

IMELDA GARZA, SECRETARY/TREASURER

STWA Personnel Policies

Memo

To: South Texas Water Authority Board of Directors From: John Marez, Executive Director Date: March 21, 2025 Re: Amendment of STWA Personnel Policies Revision (2025)

Background:

In 2021 the board updated the Personnel Policy to observe and match the same Federal Holidays recognized and taken by Kleberg County. With the recent adoption of observing Easter Monday the STWA had not anticipated nor included that day of recognition.

STWA Personnel Policy Chapter/3 Section Lincludes all paid holidays our office will be closed and allows for our staff to also celebrate these recognized days.

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This policy change will allow the STWA to match the Federal Government and Kleberg County holiday schedule with no additional cost will be incurred by the Authority or Corporations.

Staff Recommendation: Second Construction of the source of the second se

Board Action: The Second Secon

Approve the policy recommendation (Resolution 25-09) to include all paid Federal Holidays.

<u>Summary</u>:

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Approving this policy change is a budget neutral item since staff will be paid the same amount of salary when working those additional days or being off on holiday.

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Resolution 25-09

SOUTH TEXAS WATER AUTHORITY

Resolution 25-09

RESOLUTION AMENDING THE PERSONNEL POLICIES OF THE SOUTH TEXAS WATER AUTHORITY – HOLIDAYS.

WHEREAS, the South Texas Water Authority has adopted Personnel Policies as guidelines for the Authority, and

WHEREAS, it is advisable and necessary to amend these policies from time to time to facilitate the operations of the Authority.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the South Texas Water Authority approves the attached amendments to the Personnel Policies.

Duly adopted this 25th day of March, 2025.

JOSE M. GRAVELEY, PRESIDENT

ATTEST:

IMELDA GARZA, SECRETARY/TREASURER

Master Plan

Memo

To: South Texas Water Authority Board of Directors From: John Marez, Executive Director Date: March 21, 2025 Re: STWA Water Master Plan – 2025 Update

Background:

The South Texas Water Authority (STWA) continues to plan for the long-term sustainability and reliability of its water system. As part of this effort, the Water Master Plan is updated periodically to assess current system conditions, anticipate future demands, and guide infrastructure and operational improvements. The last completed version of this plan was the STWA Water Master Plan–2023, which has now been finalized, signed, and sealed. The previous Master Plan and this current plan are the first formal attempts by the STWA to gather and track all improvements needed for the entire water system. The creation and use of our Master Plan was instrumental in being selected by the Texas Water Development Board (TWDB) to receive state funding for water improvements for our infrastructure so the continued support and review is essential.

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Analysis:

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To assist the Board with ongoing and upcoming planning efforts, the 2023 Water Master Plan is being provided for your records and reference. Staff is currently finalizing the updated Water Master Plan–2025, which will be delivered to the Board by next week. This updated version will address STWA's future system needs with a forward-looking scope and comprehensive analysis.

The 2025 Water Master Plan will include the following major updates and new information:

1. Population Growth & Water Demand Projections: Updated estimates for short-term (5 years) and long-term (50 years) needs.

2. State Water Plan Projects: Integration of the Brackish Desalination Project (Nueces County) and the Ricardo Well Project (Kleberg County).

3. External Water Management Strategy Projects: Notably, the Seven Seas Brackish Water Treatment Project.

4. Groundwater Feasibility: Updates based on findings from the AGS study.

5. Cathodic Protection Study: Evaluation of corrosion control strategies to ensure safe and sustained operations.

6. Asset Management Strategies: Focused on guiding STWA's infrastructure development and lifecycle planning.

7. Engineering Recommendations: Suggestions for additional study and improvements to ensure safe and efficient water distribution.

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Additionally, the report includes updated Capital Improvement Plan (CIP) estimates to support future funding applications and planning.

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Staff Recommendation:

Staff recommends that Board members review the 2023 Master Plan and the seven major updates provided in this memo for context to prepare and discuss the upcoming 2025. This will ensure a seamless transition into planning and prioritizing future capital investments and projects.

Board Action:

No formal board action is required, however, your input for the 2025-2027 Master Plan is vital to ensure the system's improvements and general maintenance are considered during future funding cycles.

Summany

Summary:

The STWA Water Master Plan–2023 is available for your reference. The 2025 update will be provided in its entirety during the March 25, 2025 board meeting. All seven key updates provided in the Analysis section is for your review related to water demand, future projects, groundwater feasibility, system protection, asset management, and CIP revisions.

These efforts are critical to STWA's commitment to delivering safe, sustainable water services to the communities we serve.

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Seven Seas Project

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Memo

To: South Texas Water Authority, Board of Directors

From: John Marez, Executive Director/Administrator

Date: March 21, 2025

Topic: Seven Seas Brackish Desalination Well Project Update

Background:

The Seven Seas Project is part of the STWA's long-term strategy to diversify and secure water supply sources for the region. A key component of the project is the development of a brackish desalination well, which requires securing land access, completing permitting processes, and initiating test drilling.

Analysis:

 Progress has continued on multiple fronts of the project regarding land lease agreement, well drilling, and permitting/compliance:

• Lease Agreement: Legal counsel is finalizing the terms of the land lease necessary for the well site. The goal remains to execute the agreement before April 1, 2025.

• Well Drilling: The contracted well driller is prepared to mobilize on-site immediately upon lease execution. The current plan is to:

- Begin with installation of a monitoring well.
- Simultaneously begin site preparation for the test well while monitoring well activities are underway.
- Permitting and Compliance:
 - A firm is under contract to conduct the Phase 1 Environmental Site Assessment (ESA) following lease execution.

• Another contracted firm has already begun drafting preliminary documentation for the surface water discharge permit, which will be critical for project compliance and long-term planning.

Staff Recommendation:

Staff recommends that Seven Seas pursues the best methods to secure a finalized project. Seven Seas continues to support and monitoring of the legal, permitting, and field work progress, with a focus on ensuring:

- The land lease is finalized by the targeted date.
- Contractors remain on standby for prompt mobilization.
- Ongoing coordination with permitting consultants to maintain project momentum.

Board Action:

No formal action is required at this time. This memo is provided for informational purposes. Staff will bring any necessary agreements or contract modifications to the Board for approval as they are finalized.

Memo 3/21/25 Page 2 of 2

Summary:

The Seven Seas Project continues to move forward in line with strategic goals. Legal review of the land lease is nearing completion, and the project is positioned to begin physical site work shortly thereafter. Permitting and environmental compliance steps are underway and progressing. Staff will provide another update at the next board meeting or sooner if major developments occur.

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Water Supply Contract with Corpus Christi

Water Supply Contraction with the City of Corpus Christi will be discussed during Executive Session

Resolution 25-10

Memo

To: South Texas Water Authority, Board of Directors
From: John Marez, Executive Director/Administrator
Date: March 21, 2025
Topic: Resolution of Commitment to the Coastal Bend Water Alliance

Background:

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The Coastal Bend region is confronting one of the most severe droughts in recent history, with critical water levels and long-term supply projects still years from completion. Historically, efforts to secure water resources in the region have been fragmented, diminishing our ability to access substantial state and federal funding for vital infrastructure projects. Advancement

ersen ditente con Residencia de la contraria contrar Municolar di Care Acidena <mark>Analysis:</mark>

Recognizing the urgent need for coordinated action, regional leaders have proposed the formation of the Coastal Bend Water Alliance, a unified coalition of cities, counties, industries, and economic stakeholders dedicated to securing reliable and resilient water supplies for the region. This effort mirrors the successful collaborative approaches taken by other major Texas regions, such as Houston, San Antonio, and Dallas, which have unlocked billions in state funding for long-term water development at addition, which have unlocked billions in state funding for long-term water development at addition, which have unlocked billions in state funding for long-term water development at addition, which have unlocked billions in state funding for long-term water development at addition, which have unlocked billions in state funding for long-term water development at addition, which have unlocked billions in state funding for long-term water development at addition, which have unlocked billions in state funding for long-term water development at addition, which have unlocked billions in state funding for long-term water development at addition, which have unlocked billions in state funding for long-term water development at addition, which have unlocked billions in state funding for long-term water development at addition, which have unlocked billions in state funding for long-term water development at addition, and Dallas, which have unlocked billions in state funding for long-term water development at the state of the st

Staff Recommendation:

Adopt Resolution 25-10, formally joining the Coastal Bend Water Alliance and endorsing a unified regional approach to water supply development. The resolution includes commitments to:

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1. Participate in the Alliance and support regional water planning.

2. Promote infrastructure solutions including desalination, aquifer development, and inter-basin transfers.

3. Support public policy and legislative efforts to increase investment in Coastal Bend water infrastructure.

4. Advocate for the region's recognition as a high-priority area for water funding.

5. Encourage other stakeholders to pass similar resolutions.

Board Action:

Consider and adopt Resolution 25-10

Memo 3/21/25 Page 2 of 2

Summary:

This resolution represents a pivotal step in aligning STWA with a region-wide movement to secure the water future of the Coastal Bend. By acting decisively and collaboratively, we will help ensure long-term sustainability, economic growth, and protection against future drought impacts.

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This resolution remains a physical step in aligning MWA with a region wide individent to serve that exacted future of the Court. I think, by acting decisively and collaboratively, we will help convie long-term sustain 1895, in order of where of protocole angulast letter of and thereis

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SOUTH TEXAS WATER AUTHORITY Resolution 25-10

Resolution of Commitment to the Coastal Bend Water Alliance

A Resolution Declaring Unified Commitment to the Development of Regional Water Supplies

WHEREAS, the Coastal Bend region is experiencing severe drought conditions, with water levels critically low and future water supply projects still years from completion; and

WHEREAS, access to reliable water supplies is essential for the economic stability, industrial growth, public health, and overall prosperity of the Coastal Bend region; and

WHEREAS, cities, counties, industries, and economic leaders throughout the Coastal Bend have historically pursued individual water solutions, which has resulted in fragmentation and a failure to secure the level of state and federal funding necessary to meet the region's growing water needs; and

WHEREAS, the Texas Legislature and the Texas Water Development Board (TWDB) have made substantial funding available for large-scale water infrastructure projects, including desalination, groundwater development, aquifer storage and recovery, and inter-basin transfers, but have prioritized regions that demonstrate strong intergovernmental collaboration and regional planning; and

WHEREAS, other regions of Texas, including Houston, San Antonio, Dallas, and El Paso, have successfully united to secure billions in state funding for long-term water supply projects, while the Coastal Bend has yet to receive an equivalent level of investment due to a lack of regional coordination; and

WHEREAS, failure to act decisively and collectively will result in the Coastal Bend being bypassed for critical water infrastructure funding, jeopardizing economic development, industrial investment, and the ability to meet future water demands; and

WHEREAS, by working together, the Coastal Bend Water Alliance will ensure that the region takes control of its water future, preventing unnecessary water shortages, increasing resilience against drought, and securing the resources needed to support future generations;

NOW, THEREFORE, BE IT RESOLVED THAT:

1. South Texas Water Authority formally joins the Coastal Bend Water Alliance and commits to full participation in regional efforts to develop and secure water supplies for the region.

2. South Texas Water Authority publicly supports a unified strategy to identify, advocate for, and implement long-term water supply solutions, including desalination, groundwater development, aquifer development, inter-basin water transfers, and infrastructure investment.

3. South Texas Water Authority commits to adopting policies and initiatives that encourage regional cooperation, support funding applications, and promote legislative advocacy to secure state and federal investment in Coastal Bend water infrastructure.

4. South Texas Water Authority calls upon the Texas Legislature, Texas Water Development Board, and relevant state and federal agencies to recognize the Coastal Bend as a high-priority region for water infrastructure investment and to provide low interest rate loans and grant funding necessary to implement seawater desalination solutions.

5. South Texas Water Authority encourages all municipalities, counties, industrial partners, and economic stakeholders in the Coastal Bend to pass similar resolutions, demonstrating a collective commitment to regional water security and representation in the governance of the Port of Corpus Christi.

PASSED AND APPROVED THIS 25th DAY OF March, 2025.

JOSE M. GRAVELEY, PRESIDENT

ATTEST:

IMELDA GARZA, SECRETARY/TREASURER

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KCAD Director Nomination

<u>Memo</u>

To: South Texas Water Authority Board of Directors

From: John Marez, Exec Director

Date: March 21, 2025

Re: Kleberg County Appraisal District Board of Directors Election Nomination

Background:

With the recent passing of the Kleberg County Appraisal District Board Member Roy Cantu a vacancy is open on the board. The Appraisal District is asking each of its membership organizations to submit a name for submission to fill the unexpired term that is left. The process to vote on the nominee is different than previous votes since the voting is left to the remaining Board of Directors for KCAD rather than the membership organizations.

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With this opening available the board should consider submitting a name from the STWA Directors to be placed in nomination before the KCAD board.

Staff Recommendation: Select a representative to have their name placed on the ballot to be voted on by the May 1, 2025 deadline established by KCAD. Board Action: Select a nominee to be voted on by the KCAD Board of Directors.

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The Kleberg County Appraisal District's Board of Directors adopts budgets, sets their goals/objectives and provides direction to their staff. The Appraisal District does not establish or appraise the values or proprieties, that function is left up to the county's Appraisal Review Board, which is a separate and independent entity.

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na statu i statu i se s Se statu i s Kleberg County Appraisal District 502 E. Kleberg – P. O. Box 1027 Kingsville, Texas 78364

March 17, 2025



MAR 1 8 2025

SOUTH TEXAS WATER AUTHORITY

South Texas Water Authority Jose M. Graveley, President 2302 E. Sage Rd. Kingsville, TX 78363

Dear Mr. Graveley:

Kleberg County Appraisal District has experienced a passing of one of its board of director members. This occurrence now requires the appraisal district to start the process of filling the vacancy. When a vacancy occurs on the board of directors other than a vacancy in the position held by a county assessor collector serving as a nonvoting director, each taxing

unit that is entitled to vote by this section may nominate by resolution adopted by its governing body a qualified candidate to fill the vacancy. The taxing unit shall submit the name of its nominee to the chief appraiser within 45 days after notification from the board of the existence of the vacancy, and the board of directors shall elect by majority vote of its members one of the nominees to fill the vacancy. This letter shall be deemed as notification from the board of directors of Kleberg County Appraisal District that there is a vacancy on its board which needs to be filled. The 45 day count will begin one day after the date of this letter, which is March 18, 2025. The deadline for submission of the nomination is May 1, 2025.

Enclosed you will find information outlining the qualifications of an appraisal district board of director for your consideration.

If you have any questions, please feel free to contact me at 361-595-5775.

Thank you for your participation in this process.

Sincerely,

Ernestina Flores, R. P. A. Chief Appraiser of Kleberg County

Cc: John E. Marez, Administrator

Enclosure

Board of Directors in Less Populous Counties and Populous Counties until July 1, 2024

This chapter applies to all counties until July 1, 2024. After July 1, 2024, this chapter applies to less populous counties. Counties with a population of less than 75,000 are considered less populous counties.⁶

Composition of Board of Directors

The board of directors is composed of five members.⁷ The number of directors can be increased up to 13 by action of the board of directors.⁸ However, in most cases, the board of directors may not make this change if a voting taxing unit adopts a resolution opposing the change.⁹

Taxing units participating in the appraisal district may increase the number of directors up to 13 members if threefourths of voting taxing units adopt resolutions.¹⁰ A change is not valid if it reduces the voting entitlement of one or more taxing units (unless the taxing unit adopts one of two specified resolutions) or if it expands the types of taxing units that are entitled to vote on the appointment of directors.¹¹

The county TAC is a nonvoting director, if not appointed as a voting director.¹² If a county commissioners court enters into a contract for assessment and collections under Tax Code Section 6.24(b) or if the appraisal district board of directors enters into a contract for appraisal under Tax Code Section

- ⁸ Tex. Tax Code §6.031(a)
- ⁹ Tex. Tax Code §6.031(a)
- ¹⁰ Tex. Tax Code §6.031(b)
- 11 Tex. Tax Code §6.031(b)

6.05(b), then the county TAC is ineligible to serve on the board of directors.¹³

Board members may not receive compensation for service on the board but are entitled to reimbursement for actual and necessary expenses incurred in the performance of their duties.¹⁴ This reimbursement is as provided by the budget adopted by the board of directors.¹⁵

Eligibility

To be eligible to serve on a board of directors, an individual must be a current resident of the appraisal district having resided in the appraisal district for at least two years immediately preceding the date of taking office.¹⁶ This residency requirement does not apply to a county TAC serving as a nonvoting director.¹⁷

- 14 Tex. Tax Code §6.04(c)
- ¹⁵ Tex. Tax Code §6.04(c)
- ¹⁶ Tex. Tax Code §§6.03(a) effective until July 1, 2024 and 6.03(a-1) as amended by Acts 2023, 88th Leg., 2nd C.S., ch. 1 (S.B. 2), Sec. 5.02, effective July 1, 2024
- ¹⁷ Tex. Tax Code §§6.03(a) effective until July 1, 2024 and 6.03(a-1) as amended by Acts 2023, 88th Leg., 2nd C.S., ch. 1 (S.B. 2), Sec. 5.02, effective July 1, 2024

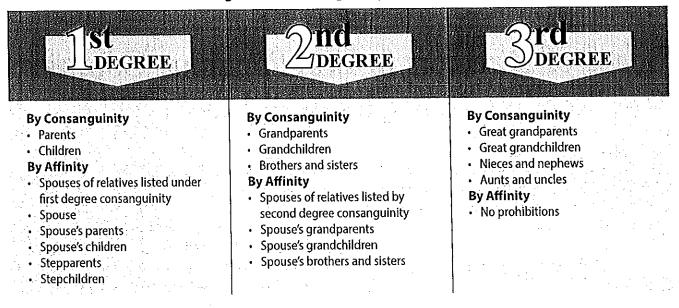
⁶ Tex. Tax Code §6.03(a) as amended by Acts 2023, 88th Leg., 2nd C.S., ch. 1 (S.B. 2), Sec. 5.02, effective July 1, 2024

⁷ Tex. Tax Code §§6.03(a) effective until July 1, 2024 and 6.03(a-1) as amended by Acts 2023, 88th Leg., 2nd C.S., ch. 1 (S.B. 2), Sec. 5.02, effective July 1, 2024

¹² Tex. Tax Code §§6.03(a) effective until July 1, 2024 and 6.03(a-1) as amended by Acts 2023, 88th Leg., 2nd C.S., ch. 1 (S.B. 2), Sec. 5.02, effective July 1, 2024

¹³ Tex. Tax Code §§6.03(a) effective until July 1, 2024 and 6.03(a-1) as amended by Acts 2023, 88th Leg., 2nd C.S., ch. 1 (S.B. 2), Sec. 5.02, effective July 1, 2024

Degrees of Consanguinity and Affinity



An employee of a taxing unit that participates in the appraisal district is not eligible to serve on the board of directors unless that individual also is a member of the taxing unit governing body or an elected official of a taxing unit.¹⁸ Membership on the taxing unit governing body does not make an otherwise eligible individual ineligible to serve on the board of directors.¹⁹

Owing delinquent property taxes disqualifies a person from serving on the board of directors.²⁰ The person is ineligible if he or she owns property on which delinquent property taxes have been owed for more than 60 days after the date the person knew or should have known of the delinquency.²¹ This disqualification does not apply if the person is paying the delinquent taxes and any penalties and interest under an installment payment agreement or has deferred or abated a suit to collect the delinquent taxes.²²

A person is ineligible to serve on the board of directors if the individual served as a member of the board of directors for all or part of five terms, unless they were a county assessor-collector at the time of service, or the appraisal district is established in a county with a population of less than $120,000.^{23}$

A person who has appraised property for compensation for use in proceedings, represented property owners for compensation in proceedings in the appraisal district or was an appraisal district employee at any time within the preceding three years is ineligible to serve on the board of directors.²⁴

A person is ineligible to serve on the board of directors if the individual is related within the second degree of consanguinity (blood) or affinity (marriage) to the following:

- an appraiser who appraises property for use in a proceeding under the Tax Code; or
- a person who represents property owners for compensation in proceedings under the Tax Code in the appraisal district.²⁵

A director who continues to hold office knowing he or she is related in this manner to the above-named persons commits a Class B misdemeanor offense.²⁶

An individual is not eligible to be a candidate for, to be appointed to, or to serve on the board of directors if the individual

¹⁸ Tex. Tax Code §§6.03(a) effective until July 1, 2024 and 6.03(a-1) as amended by Acts 2023, 88th Leg., 2nd C.S., ch. 1 (S.B. 2), Sec. 5.02, effective July 1, 2024

¹⁹ Tex. Tax Code §§6.03(a) effective until July 1, 2024 and 6.03(a-1) as amended by Acts 2023, 88th Leg., 2nd C.S., ch. 1 (S.B. 2), Sec. 5.02, effective July 1, 2024

²⁹ Tex. Tax Code §6.035(a)(2)

²⁴ Tex. Tax Code §6.035(a)(2)

²² Tex. Tax Code §6.035(a)(2)

²³ Tex. Tax Code §6.035(a-1)

²⁴ Tex. Tax Code §6.035(a-1)

²⁵ Tex. Tax Code §6.035(a)(1)

²⁶ Tex. Tax Code §6.035(b)

has a substantial interest in a business entity that is party to a contract or the individual is a party to a contract with the appraisal district.²⁷ This prohibition also applies to contracts with a taxing unit that participates in the appraisal district if the contract relates to the performance of an activity governed by the Tax Code.²⁸ An appraisal district may not enter into a contract with a board member or with a business entity in which a board member has a substantial interest.²⁹ A taxing unit may not enter into a contract relating to the performance of an activity governed by the Tax Code with a board member in which the taxing unit participates or with a business entity in which a board member has a substantial interest.³⁰

An individual has substantial interest in a business entity if:

- the combined ownership of the director and the director's spouse is at least 10 percent of the voting stock or shares of the business entity; or
- the director or director's spouse is a partner, limited partner or officer of the business entity.³¹

Appointment by Taxing Units and Terms

Taxing units — counties, cities/towns, school districts, junior colleges and certain conservation and reclamation districts — nominate candidates and vote on the board of directors in odd-numbered years.³² Conservation and reclamation districts may participate in this process if at least one conservation and reclamation district in the appraisal district delivers to the chief appraiser a written request to nominate and vote on the board of directors by June 1 of each oddnumbered year.³³ On request, the chief appraiser must certify all eligible conservation and reclamation districts that are imposing taxes and that participate in the appraisal district by June 15.³⁴

The board of directors is selected by appointment; it is not an election governed by the Texas Election Code.³⁵ The method

- ³⁰ Tex. Tax Code §6.036(c)
- ³¹ Tex. Tax Code §6.036(d)
- ³² Tex. Tax Code §6.03(c)
- ³³ Tex. Tax Code §6.03(c)
- ³⁴ Tex. Tax Code §6.03(c)
- ³⁵ Tex. Att'y Gen. Op. JM 166 (1984)

or procedure for appointing members can be changed by the board of directors or by three-fourths of the voting taxing units acting through resolutions.³⁶

The voting entitlement of a taxing unit is determined by a calculation that takes into account a taxing unit's share of the total dollar amount of property taxes imposed in the appraisal district.³⁷ The chief appraiser makes this calculation for each taxing unit (other than conservation and reclamation districts) and delivers written notice before Oct. 1 of each odd-numbered year of the number of votes to which each taxing unit is entitled.³⁸ Each taxing unit (other than a conservation and reclamation district) that is entitled to vote may submit to the chief appraiser one nominee for each position to be filled before Oct. 15.³⁹

The chief appraiser also must calculate the number of votes that an eligible conservation and reclamation district is entitled to and must deliver before July 1 of each odd-numbered year, a written notice to the district of its voting entitlement and right to nominate one candidate for director.40 All eligible conservation and reclamation districts must submit the name of the district's nominee to the chief appraiser before July 15 of each odd-numbered year.⁴¹ Before Aug. 1, the chief appraiser must prepare a nominating ballot listing all the nominees of conservation and reclamation districts and deliver a ballot to the presiding officer of the board of directors of each district.⁴² The board of directors of each district must submit its vote for the nominee of conservation and reclamation districts before Aug. 15.43 The winning nominee of the conservation and reclamation districts in the appraisal district becomes a nominee for appraisal district director.44

The chief appraiser must prepare a ballot before Oct. 30 with candidates whose names were timely submitted, including the nominee of conservation and reclamation districts, if applicable.⁴⁵ Each taxing unit entitled to vote must determine its vote by resolution and submit it to the chief appraiser before Dec.

- ³⁶ Tex. Tax Code §6.031(a) and (b)
- 37 Tex. Tax Code §6.03(d)
- ³⁸ Tex. Tax Code §6.03(e)
- 39 Tex. Tax Code §6.03(g)
- 49 Tex. Tax Code §6.03(f) and (h)
- 41 Tex. Tax Code §6.03(h)
- 42 Tex. Tax Code §6.03(h)
- 43 Tex. Tax Code §6.03(h)
- 44 Tex. Tax Code §6.03(h)
- 45 Tex. Tax Code §6.03(j)

²⁷ Tex. Tax Code §6.036(a)

²⁸ Tex. Tax Code §6.036(a)

²⁹ Tex. Tax Code §6.036(b)

Resolution 25-11

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SOUTH TEXAS WATER AUTHORITY

Resolution 25-11

RESOLUTION SUBMITTING NOMINATION FOR CANDIDATE FOR POSITION ON THE BOARD OF DIRECTORS OF THE KLEBERG COUNTY APPRAISAL DISTRICT.

WHEREAS, the South Texas Water Authority, as a water conservation and reclamation district, is authorized to make nominations for the Kleberg County Appraisal District Board of Directors, and

WHEREAS, the Appraisal District has requested that each taxing unit which is a water conservation and reclamation district submit the name of its nominee to the chief appraiser before July 15, 2023.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the South Texas Water Authority nominates ________ to serve on the Board of Directors of the Kleberg County Appraisal District.

Duly adopted this 25th day of March, 2025.

JOSE M. GRAVELEY, PRESIDENT

ATTEST:

IMELDA GARZA, SECRETARY/TREASURER