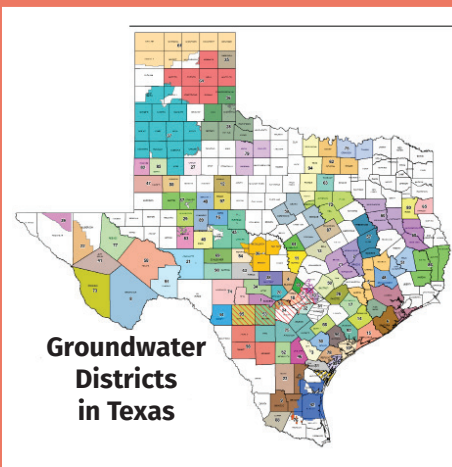
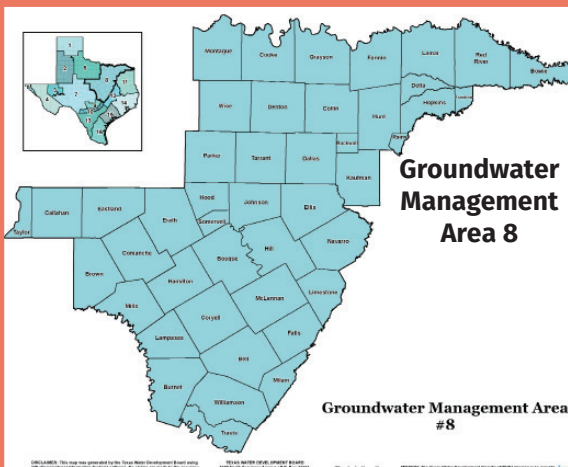


# 2022

## ANNUAL REPORT

### Post Oak Savannah Groundwater Conservation District



**POSGCD**  
[www.POSGCD.org](http://www.POSGCD.org)

# 2022 ANNUAL REPORT

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### Purpose and Scope

This Annual Report of the Post Oak Savannah Groundwater Conservation District's (District or POSGCD) performance in regards to achieving management goals and objectives for the fiscal year is presented to the Board of Directors of the District (the Board) in accordance with Section 14 of the District's Management Plan. Texas Water Code, Chapter 36.1071, requires a District develop a comprehensive management plan that addresses required management goals. The original Management Plan for the District was adopted in 2004. It has since been amended and readopted as of December 5, 2017, pursuant to State Law.

The District was created in 2001 by the 77th Legislature to operate in the area covered by Milam and Burleson counties. The District was confirmed by an election held in November 2002. The District is governed by a ten (10) member Board of Directors which serves without pay. Five (5) Board members are appointed by the Commissioners Court of each of the county composing the District. One member from each county is appointed to represent each of the following interests: agricultural, rural water supply, industry, municipal, and one at large.

The format of this report states the goal, the objective of the goal, the performance standard used to meet each goal, and the activity or program the District used to achieve the goal as set out in the Management Plan. The Rules and Management Plan of the District, as well as many other valuable resources, are available on the District's website at [www.posgcd.org](http://www.posgcd.org).

HB1784, the District's enabling legislation, requires the Board to meet at least quarterly. Listed here are the meetings and hearings of the Board for the year 2021. Additional information, such as the agendas and locations, may be obtained from the District's website at [www.posgcd.org](http://www.posgcd.org).

## CREATION

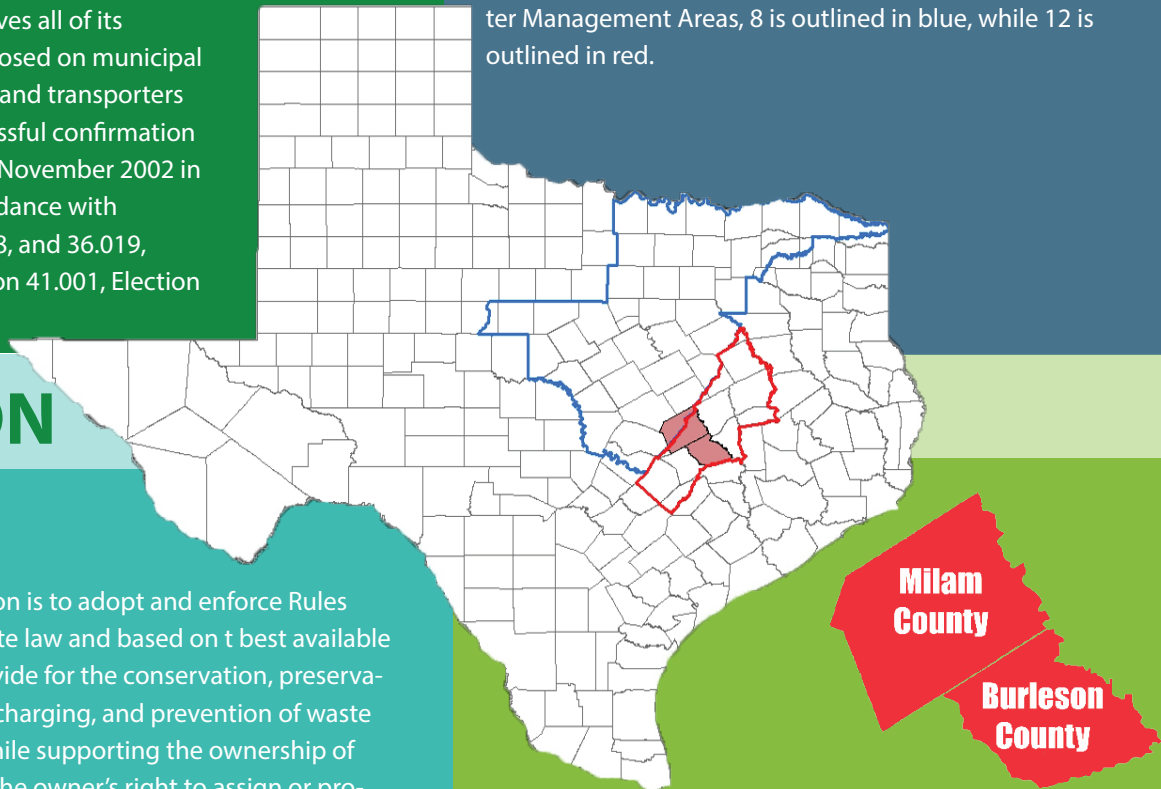
The Post Oak Savannah Groundwater Conservation District (POSGCD) was created in Milam and Burleson counties by HB 1784, 77th Legislature in 2001, and a local confirmation election in November 2002. The purpose of this bill is to provide a locally controlled groundwater district to conserve and preserve groundwater, protect groundwater users, protect and recharge groundwater, prevent pollution or waste of groundwater in the central Carrizo-Wilcox area, control subsidence caused by the withdrawal of water from the groundwater reservoirs in that area, and regulate the transport of water out of the boundaries of the districts. The District has ten (10) directors, five (5) from each county. It does not have the power to tax and receives all of its revenue from fees imposed on municipal /commercial pumpers and transporters of groundwater. Successful confirmation elections were held in November 2002 in both counties in accordance with Sections 36.017, 36.018, and 36.019, Water Code, and Section 41.001, Election Code.

## LOCATION/RESOURCES

POSGCD is located in Milam and Burleson counties, Texas. The District is bordered by Robertson and Brazos Counties to the East, Bell and Falls Counties to the North, Williamson and Lee Counties to the West and Washington County to the South. The District has within its boundaries formations of the Carrizo-Wilcox, Trinity, Queen City, Sparta, and Brazos River Alluvium aquifers. The District is part of two Groundwater Management Areas (GMA) created by the State. These two GMAs are among 16 GMAs throughout the State which hold joint planning meetings to comply with state law in Chapter 36 of the State Water Code. POSGCD is a member of GMA 8 and GMA 12. The two Groundwater Management Areas, 8 is outlined in blue, while 12 is outlined in red.

## MISSION

The POSGCD mission is to adopt and enforce Rules consistent with State law and based on the best available science, which provide for the conservation, preservation, protection, recharging, and prevention of waste of groundwater, while supporting the ownership of groundwater, and the owner's right to assign or produce that property.



## Contact Information

310 East Ave C  
Milano, TX 76556  
(p) 512-455-9900  
(f) 512-455-9909

[www.POSGCD.org](http://www.POSGCD.org)



# BOARD OF DIRECTORS

## POST OAK SAVANNAH GROUNDWATER CONSERVATION DISTRICT



**Ward Roddam**  
Board President

Ward Roddam has lived in Milam County most of his life. He and his wife of 32 years, Kathryne, now live in Rockdale, Texas, where they raised their three daughters, Katie, Kassie, and Kourtney. Ward graduated from Rockdale High School, then Sam Houston State University. He obtained an Associates Degree in Behavioral Science from Bastyr University. Ward worked 20 years for Alcoa Rockdale Operations. For the last 12 years, he worked as a Health and Safety Manager in both the Oil and Gas and the Industrial Services Industry. Ward has been an active member of the Rockdale Volunteer Fire Department and served as Fire Chief for the City of Rockdale for the past 12 years.



**Jay Wilder**  
Board Vice President

Burleson Co Agriculture

Jay Wilder graduated from Texas A&M University with a degree in Animal Science. He is a graduate of Texas Agriculture Lifetime Leadership Program, is the president of the Texas Grain Sorghum Association and was President of the Tri-County committee with Texas AgriLife. He is a 4th-generation farmer and he and his wife, Molly, reside on his farm in the Brazos River Bottom near Snook, where he has a cow/calf operation, and raises purebred Limousine cattle.



**Tommy Tietjen**  
Board Secretary

Burleson Co Municipal

Tommy lives in Burleson County on ranch land that has been in his family since the early 50s where he runs a cow-calf and stocker operation. He serves on the Burleson County FSA Board, is a Go Texan Volunteer and is a sponsor member for the Rocky Mountain Elk Foundation. He is the past Brazos Valley Chapter Chair of the Elk Foundation and a member of the SW Cattle Raisers Association. Tommy has served on Post Oak board since 2012. Tommy believes our natural resources are very important so we can pass our land on to future generations in as good a condition as he received from his parents.



**Buster Evers**  
Director

Burleson Co Industrial

Buster Evers was raised and resides in the Somerville area and runs Evers and Sons Inc. a construction company that primarily focuses on Energy projects. His company has extensive experience and expertise in all phases of Midstream Energy construction, from ground-up construction of pipelines natural gas plants, compressor stations, bulk loading and well-yard facilities, to modernization, renovation and demolition of existing systems. His company has worked in over 30 states across the U.S. for the nation's leading energy companies.



**Becky Goetsch**  
Director

Burleson Co At Large

Becky has lived in Burleson County since 1983, where she met and married her husband, Gabbo. She is an active member of Elizabeth Lutheran Church in Caldwell and was the coordinator of the Elizabeth Lutheran Community Pantry for five years. After careers with Chevron Corporation and as a certified medical transcriptionist, she currently stays busy raising cattle with her husband on land that they proudly own in Burleson County. Becky believes strongly in landowner rights and preservation, conservation, and protection of the aquifers underlying Burleson and Milam counties.



**John Redington**  
Director

Milam Co Agriculture

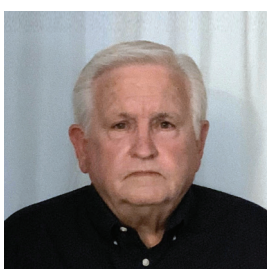
John Redington grew up on the family ranch in the Sharp/Lilac area and later graduated from Southwestern University with a Bachelor's in History and a minor in Political Science. He then earned a Juris Doctorate in 2003 from St. Mary's University School of Law. After running a successful law practice with offices in Cameron and Temple, Redington became the First Assistant District Attorney/Special Crimes Prosecutor for Milam and later Falls County. Currently, Redington is the Senior Associate at the firm of Allison, Bass, Magee, LLP. He is Past President of the Cameron Rotary Club, and a member of Lilac Cemetery Association, Milam County Bar Association and Texas District & County Attorneys Association.



**Steven Wise**  
Director

Milam Co At Large

Steven Wise moved to Milam County in 1983, graduated from Yoe High and Texas A&M. He is an Executive Vice President for Citizens National Bank and resides in the Liberty Community with his family on land that has been owned by his family for 80 years. He was appointed to the Board in 2013 and elected Board Vice-President in 2016. He finds the science of groundwater management and hydrology very interesting. He is a landowner/well owner in the shallower part of the Simsboro aquifer. He is dedicated to the equitable treatment of all property owners.



**Kit Worley**  
Director

Milam Co Municipal

Kit Worley lives in San Gabriel and operates a family farm that has been in his family for generations, which qualifies him to be the Agricultural Representative from Milam County. He also comes to the Board with years of experience in the water industry as he is a long-time board member and current Board President of Southwest Milam Water Supply Corporation.



**Bob Wilson**  
Director

Milam Co Rural Water

Bob Wilson is a Vietnam Veteran having served in the 173rd Airborne Brigade as a U.S. Army Captain. He served as President of the Rockdale Branch of Citizens National Bank and currently serves as President of Southwest Milam Water. He served as President of the Rockdale Chamber of Commerce, is a member of the Rockdale Rotary Club, and is a Deacon and Church Treasurer of First Baptist Church. Mr. Wilson and his wife, Sharla, live just outside of Rockdale in Country Club Estates.



**Ed Savage**  
Director

Burleson Co Rural Water

Ed Savage is a resident of Burleson County and attended Texas A&M. In December 1989, he received his Bachelor of Science in Animal Science. Currently, Ed is the Waste Water Field Operations Manager for the City of College Station. He has been employed in this position since 2001. Prior to this job, he was an Environmental Services Technician and Water/Wastewater systems operator for College Station. He also owns and operates Savage Water Services, LLC to manage small rural water suppliers in Burleson and Washington Counties.



# STAFF

## POST OAK SAVANNAH GROUNDWATER CONSERVATION DISTRICT



**Gary Westbrook**  
General Manager

Gary began work for the District in June of 2003 as General Manager. He has a B S in Agriculture Education from Sam Houston State University. Gary served as President of the TAGD from 2005-2007 and serves as the District's representative to GMA 8, GMA 12, and on the Brazos Regional Water Planning Group. He has been married to Glenda Westbrook since 1980, and they have seven children and two grandchildren. They own land in Milam County, as well as Westbrook Angus Farms, which was founded in 1969 by Gary and his father, the late Garland Westbrook. Gary has served as a local pastor in the United Methodist Church since 1999.



**Bobby Bazan**  
Water Resources Specialist

Bobby has worked for the District since 2012. He has a Bachelor of Science in Agricultural Systems Management and a Masters of Science in Water Management from Texas A&M University. Bobby previously worked for the US Forest Service Research as a Hydrologist. \* Bobby left POSGCD at the end of the year to pursue new position as Executive Director of National Groundwater Association.



**Kelli Timmerman**  
Office Manager

Kelli Timmerman is a hard-working professional with 15 years of experience in accounting and bookkeeping in various industries, including nine years with municipal water/wastewater departments. She was raised in Rockdale where she attended Rockdale High School, Blinn College and Temple College. She enjoys being a mom and is a foodie that enjoys hanging out with family and friends, working in her yard and is obsessed with her pug Tito. She was employed with the City of Rockdale and Round Rock in the Water/Wastewater Maintenance departments.



**Craig Andrews**  
Field Technician

Craig Andrews, POSGCD Monitor Team. He is working to assist Bobby Bazan as we increase the monitoring and beginning checking flow rates of non-exempt wells in the district. Craig was born and raised in Georgetown, TX area. Craig spent a good portion of his formative years raising cattle, goats and sheep which he continues to this date. He began working in groundwater in 2000 as a field tech doing groundwater monitoring, drilling projects and well investigations for RW Harden and Assoc in Austin. He began working at Post Oak Savannah GCD at the start of 2021.



**Doug Box**  
Education Coordinator

Doug began working at POSGCD in May 2018. Doug brings 22 years experience as Executive Director of Texas Professional Photographers Association to POSGCD. He is a storyteller, photographer, videographer and professional speaker. Doug attended Texas Lutheran University and Blinn College where majored in Chemistry and Marketing.

## Committee Assignments

### Advisory Committee

Ward Roddam, *Chair*  
Bob Wilson  
Tommy Tietjen  
Jay Wilder

### Grant Committee

Jay Wilder, *Chair*  
Ed Savage  
Steven Wise  
John Redington

### Rules Committee

Becky Goetsch, *Chair*  
John Redington  
Kit Worley  
Tommy Tietjen

### Education Committee

Bob Wilson, *Chair*  
Ed Savage  
Jay Wilder  
Ward Roddam

### DFC Committee

Steven Wise, *Chair*  
Ed Savage  
Ward Roddam  
Becky Goetsch

### Legislative Committee

Ward Roddam, *Chair*  
Bob Wilson  
Jay Wilder  
Tommy Tietjen

### Building Committee

Buster Evers, *Chair*  
Becky Goetsch  
Ward Roddam  
Steven Wise



**Michael Redman**  
Regulatory Compliance Specialist

Michael received a Bachelor's of Science in Biology: Environmental studies and a Master's in Business Administration from Schreiner University. Michael worked at Bandera County River Authority & Groundwater District from June 2013 to June 2020 where he served as the Region J Representative and he served as the Groundwater Management Area (GMA) 9 Designated Representative. Michael worked at Barton Springs Edwards Aquifer Conservation District where he served as the GMA 10 Chairman and he served as the Region K Representative for GMA 10.



**Jeff Fisher**  
Field Technician

Jeff Fisher has joined POSGCD as our newest Field Tech joining Craig Andrews and Bobby Bazan, our Water Resources Management Specialist as a part of our monitoring team. Jeff is Rockdale native who attended Rockdale High School. Jeff graduated Temple Junior College with an associate's degree in Criminal Justice. He also studied Aviation Science and received his Pilot Ratings in 1991. He completed his BS Degree in Criminal Justice/Police Science with a minor in Psychology at Sam Houston State University.



**Courtney Gentry**  
Administrative Assistant

Mrs. Gentry is a Rockdale native and resides there with her husband J. D. Courtney is the daughter of Jeff and Monique Gebhart of Rockdale. Courtney attended Austin Community College and earned a Phlebotomy Certification. Courtney has a work history of customer service and understanding the requirements of regulation as her previous jobs included working at the Blood and Tissue Center in Austin and the Gulf Coast Regional Blood Center in Bryan/College Station, as well as Fresenius Dialysis in Bryan, TX as a Patient Care Technician where she worked directly with patients.



# LETTER FROM THE BOARD PRESIDENT

**WARD RODDAM**

Dear friends of Post Oak Savannah Groundwater Conservation District,

I pray this finds each of you and your families well in the New Year. As we reflect on the last, I recognize the great strides the Board and staff have made to fulfil our mission statement to serve the citizens of Milam and Burleson counties, and equally important the participation and support from members of these communities. On behalf of the District, I'd like to express how genuinely grateful we are for each and every contribution that made this a successful year.

It was another year of growth and changes as we continue to develop the ever-increasing number of programs we offer for the benefit of our communities. We welcomed two new team members to our staff this year: Michael Redman joined our team in July as the Regulatory Compliance Specialist, bringing ten years of experience in groundwater management, and Kelli Timmerman joined us in August as our new Office Manager after the retirement of Elaine Gerren. In the coming year, we look forward to welcoming a third new member, Gregory Perry of Caldwell, as the new Water Resources Management Specialist after Bobby Bazan was selected to become the new Executive Director of the Texas Ground Water Association. Gregory was a contemporary of Bobby during their undergraduate days at Texas A&M. Gregory has a very strong work ethic and a deep desire to serve in this position and we look forward to working with him moving forward. Board President Sidney Youngblood and Director Dana McClaren of Milam County and Burleson County representative Lee Alford retired this year. In filling those positions we welcome Buster Evers (Burleson County, industrial), Kit Worley (Milam County, agriculture), and John Redington (Milam County, industrial) as they step into their new roles as Directors. A special thanks to Mr. Bazan for ten years and Mrs. Gerren for 18 years of service on our staff and well wishes to Mr. Youngblood, Mrs. McClaren, and Mr. Alford; we are proud to celebrate each of their accomplishments and excited to wish them well in their next chapter.

The Aquifer Conservancy Program (ACP) again set records for all-time highs in the number of parcels, landowners, and acres enrolled. The ACP continues to be one of the most well-accepted programs the POSGCD Board has produced for landowners in our District. It is a tool for those who wish to protect the water under their property for future generations. Landowners are compensated for placing land in the program and creating a conservation area. At the January Board Meeting, the Board voted to accept enrolment year-round to make it more convenience to our landowners. At the February Board Meeting, the Directors voted to add two new term lengths for landowners to choose from, 30 years for \$15/acre and 50 years for \$25/acre! These terms have been added to the original term options of 5 years, ten years, and 20 years. All five option levels of terms will be available to all current and new enrollments, and anyone already in the program is able to increase the length of their term for additional compensation.

Post Oak Savannah GCD was awarded a \$200,000 grant in federal assistance from the Bureau of Reclamation to improve groundwater modelling capabilities in our local area, which will be a significant tool in supporting management decisions. Currently, the District uses a Groundwater Availability Model (GAM) of the Carrizo-Wilcox Aquifer developed by the Texas Water Development Board covering a study area of all or parts of 46 counties. At the September Board Meeting, the Directors voted to participate with the Bureau of Economic Geology in a pilot program that will help the public to better understand and quantify the hydrologic and socioeconomic impacts to pumping driven by groundwater storage and use conditions.

Our team is excited to share the news that we are building a new office and Education Center! This new facility will be located just around the corner from our current location to provide easy access for everyone. We will have an expanded education center with interactive exhibits and displays, a larger theater space for Board Meetings, a demonstration garden, and expanded office space. As we continue to grow in staff and responsibilities, we need more room. In addition, as the number of new grant programs, monitoring wells, and education opportunities increases, we need a larger facility to serve our citizens better.

The Groundwater Well Assistance Program (GWAP) was created to assist owners of water wells in Burleson and Milam Counties by identifying water wells expected to experience loss of service due to water levels dropping below the pump, which is caused by wide aquifer pumping and take corrective actions to prevent that loss of service. This year we were able to assist 38 well owners with a total investment of \$438 983.



# LETTER FROM THE BOARD PRESIDENT

**WARD RODDAM**

Some other notable accomplishments representative of this year's progress:

#### Aquifer Conservancy Program (ACP)

Now over 630 parcels of property, including over 47,000 acres covering both Milam and Burleson Counties, are enrolled. More than 75% of the acreage enrolled is committed for 20 years.

#### Monitoring Well Summary

412 monitor wells - an additional 371 wells covering eight aquifers in the District.

36 monitor wells equipped with transducers to record continuous hourly measurements.

35 monitor wells equipped with acoustic devices providing real-time reporting.

13 oil and gas wells converted to monitoring wells - 8 well increase, all in strategic areas.

8 new monitoring wells were drilled by the District in strategically selected locations.

All water level monitoring information is available to the public through the access of the District's website, including areas of interest for future monitoring well locations.

#### Groundwater Conservation Grants

\$1,013,324 was awarded to six public water utilities across both counties

\$16,311,070 awarded for public water utilities since 2006.

\$5,404 awarded to plug abandoned water wells.

12 rainwater harvesting systems installed: 14 cisterns with a total of 57,075 gallons of storage.

#### Education Efforts

5 cooperative conservation classes through Texas A&M AgriLife with 96 students.

Cooperative Water Quality Testing for more than 100 privately owned water wells.

Supported AgriLife 4-H Water Ambassadors program educating 66 high school students on water issues across the state.

New for this year was our Groundwater Rights for Real Estate in June, which was a great success with 130 attendees.

The website remains a big part of our outreach to citizens and landowners. In 2022, our website enjoyed 34,224 page views during 12,000+ sessions from 7,000+ visitors. This yields an average daily page view count of 102.5. The POSGCD Facebook and Twitter account remains active throughout the year.

Our Board and Staff continue to look for new ways to encourage public involvement from our citizens in all our efforts. We continue to provide virtual participation for our committee meetings, Board meetings, and workshops. We can also provide services to local organizations and quality, informative, educational programs on groundwater and conservation-based presentations that can be tailored to topics that best help meet the needs of all kinds of groups, no matter the size. We encourage you to share feedback regarding our programs and welcome you to drop by the office for a visit.

Again, on behalf of our Board and staff, we thank everyone for their efforts to make 2022 such a great year! We stand prepared to work with you to support the District's missions as we strive to achieve even greater progress in 2023.

Sincerely,

Ward Roddam

Board President

Post Oak Savannah GCD

The District's enabling legislation (HB1784) requires the Board to meet at least once per quarter. All meeting and public hearing dates for the year 2022 are listed below. Additional information, such as agendas, meeting locations, and supporting materials, can be found on the website, [www.posgcd.org/agendas-minutes/agendas-minutes/](http://www.posgcd.org/agendas-minutes/agendas-minutes/).

## Board Meetings/Public Hearings

Date	Meeting Type	Recording of Virtual Meeting
01.11.22	Board Meeting	<a href="https://vimeo.com/665228524">https://vimeo.com/665228524</a>
02.15.22	Board meeting/ Public Hearing	<a href="https://vimeo.com/678261939">https://vimeo.com/678261939</a>
03.08.22	Board Meeting/ Public Hearing	<a href="https://vimeo.com/686317990">https://vimeo.com/686317990</a>
04.12.22	Board Meeting	<a href="https://vimeo.com/699023317">https://vimeo.com/699023317</a>
05.10.22	Board Meeting	<a href="https://vimeo.com/708646023">https://vimeo.com/708646023</a>
06.14.22	Board Meeting	<a href="https://vimeo.com/720648596">https://vimeo.com/720648596</a>
08.09.22	Board Meeting	<a href="https://vimeo.com/738289456">https://vimeo.com/738289456</a>
09.13.22	Public Hearing	<a href="https://vimeo.com/749578158">https://vimeo.com/749578158</a>
10.11.22	Board Meeting	<a href="https://vimeo.com/759509134">https://vimeo.com/759509134</a>
11.15.22	Board Meeting/ Public Hearing	<a href="https://vimeo.com/771612197">https://vimeo.com/771612197</a>

## Committee Meetings

DFC Committee		Rules Committee	
11.15.22	Meeting	9.28.22	Meeting
10.11.22	Meeting	2.01.22	Meeting
3.08.22	Meeting	1.20.22	Meeting
Grant Committee		Education Committee	
04.11.22	Meeting	4.29.22	Meeting

## GMA Meetings

### GMA 8 Meetings

07.26.22	GMA 8 Meeting
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### GMA 12 Meetings

01.21.22	GMA 12 Meeting
01.28.22	GMA 12 Meeting
02.25.22	GMA 12 Meeting
04.22.22	GMA 12 Meeting
05.06.22	GMA 12 Meeting
06.24.22	GMA 12 Meeting
09.30.22	GMA 12 Meeting
11.18.22	GMA 12 Meeting



## Statewide Participation by the General Manager

The District participates from time to time as appropriate, through Board member, staff or consultants, as a resource or member for groups and associations, both local and statewide, where it is beneficial to the District's goals and mission. POSGCD participation in events in 2022 included:

- April 20, 2022 - The District's General Manager (GM) participated in the Texas Water Conservation Association (TWCA) Interim Groundwater Committee preparing for the 88th legislative session, working on possible legislative remedies and serving as a resource to legislators concerning legislative issues. These issues include next steps for Desired Future Conditions which are declared unreasonable, petition process to require rule making, notice requirements to affected landowners, and clarification of use of fees for mitigation.
- The GM served as representative from GMA 12 on Brazos G Regional Water Planning Group in March, July, and November, 2022.
- The GM served on the Texas Alliance of Groundwater District's (TAGD) Committees to offer expertise: June 6, 2022 DFC Subcommittee, June 9, 2022 Conservation/Waste Subcommittee, June 23, 2022 Water Transfers Subcommittee, and August 10, 2022 Legislative Committee,
- The GM served as the President's designee to represent the District as voting member of GMA 12, and served as the acting chairman for GMA 12 during 2022.
- The GM served as the President's designee to represent the District as voting member of GMA 8 during 2022.
- March 2-3, 2022, The GM gave Presentation to Texas Land Conservation Conference - (Austin).
- August 24, 2022, The GM gave invited testimony - House Natural Resources committee - (Austin).
- September 7, 2022, The GM presented at Williamson County Pre-Legislative Summit - (Taylor).
- September 9, 2022, The GM attended TWCA Guitar Case Sub-committee , Sept 9 TWCA Waste Taskforce, Sept 26 TWCA GAM/Joint Planning committee, Sept 27 TWCA Mitigation Subcommittee.
- September 30, 2022, The GM had discussions with neighbouring GCD on Aquifer Conservancy Program.
- October 3, 2022, The GM presented district activities at Milam County Farm Bureau Annual Meeting.
- October 5-7, 2022, The GM attended TWCA Fall Conference - (San Antonio).
- October 12, 2022 The GM attended TWCA GAM/Joint Planning Subcommittee, Oct 24 TWCA Interim Groundwater Committee - (Austin).
- November 9, 2022, The GM gave presentation to Somerville Men's and Women's Group.
- November 16, 2022, The GM gave invited testimony - Senate committee on Water, Agriculture and Rural Affairs Hearing - (Austin).
- November 17, 2022, The GM attended TWCA Interim Groundwater Committee.
- December 12, 2022, GM presented at TWCA Board of Directors Meeting - (Austin).

## Statewide Participation by Staff

The District participates from time to time as appropriate, through Board member, staff or consultants, as a resource or member for groups and associations, both local and statewide, where it is beneficial to the District's goals and mission. POSGCD participation in events in 2022 included:

- District staff and consultants attended virtual meetings where networking and discussions of interest were presented at conferences throughout the year as follows:
- January 18 - Tri-County Crops Committee- Provide Update on Water Resources
- TAGD in January, February, June, August, and December; TWCA in March, May, June, October, and December.
- January 26-28 - Provide Water Well Driller CEUs Texas Groundwater Assoc. Convention.
- February 8-9 – Attend Texas Alliance of Groundwater Districts (TAGD) Meeting (Austin).
- February 10 - Resource for Central Texas Carrizo-Wilcox Aquifer Stakeholder Workshop (Manville WSC, Coupland).
- March 31- Presentation on State Water Plan and Responsibilities of GCDs at Master Naturalist El Camino Real (Cameron).
- May 17-18, 2022 – Texas Alliance of Groundwater Districts Meeting (Arlington).
- June 21- POSGCD Real Estate Seminar, provided presentations on Water Management.
- July 8 - Resource to Bureau of Economic Geology (Justin Thompson) work on modelling tool.
- Jul. 21- Resource at Caldwell Rotary/Burleson County Law Enforcement (Caldwell).
- August 12 - Resource at Wildlife and Woodlands Conference.
- August 18 - Sponsor and present at Milam and Burleson Counties Groundwater Summit (Caldwell).
- August 19 - Training for Milam and Burleson Counties Environmental Officers.
- August 22 - Edwards Aquifer Authority Education Center.
- August 29-Sep. 1 – Participate and present at TAGD Texas Groundwater Summit (San Antonio).
- September 27 - Records Management for GCDs Seminar through TAGD .
- September 28 - TSLAC Records Retention Seminar.
- September 29 - WaterSmart Seminar.
- November 16 - Bell County Water Symposium (Belton).





The District sends newsworthy events and information to the local news papers in the form of Press Releases throughout the year, with the most notable presented below.

### **Wrapping Up Another Year of Aquifer Conservation**

The Post Oak Savannah Groundwater Conservation District (POSGCD) celebrated the first year of our innovative Aquifer Conservancy Program (ACP) by sending out payments to landowners who completed their first year of aquifer conservation. These checks should start to arrive in mailboxes next week, and the Board of Directors of POSGCD would like to take a moment to thank each of the 632 of our neighbors for pledging to conserve water across more than 45,000 acres in Burleson and Milam counties. Water is central to so much of our lives; it keeps our bodies healthy, grows the food we eat, and even helps us cook it. While this means we can't conserve it all, the District strives to balance water use and conservation with programs such as the ACP. This is one way landowners can work together with the District to truly make a difference. The Board of POSGCD strives to find new ways to encourage conservation while respecting the landowners' right to choose production of their property rights. We thank those enrolled in this program for working alongside the District to protect our groundwater and helping us spread the word. If you haven't enrolled and are interested in learning more, visit our website [www.posgcd.org/acp](http://www.posgcd.org/acp).

### **Board of Directors has Approved \$1,013,324 in Annual Water Conservation Grant Funding**

The POSGCD Board of Directors approved \$1,013,324 in annual water conservation grant funding for six area water suppliers for the year of 2022. Burleson Co. MUD#1 received \$317,550 to replace obsolete water lines. Southwest Milam WSC received \$254,430 to replace obsolete water lines. The Clay Water Supply Corp., received \$250,000 to correct water quality issues, No matching funds will be required for the Clay project. Deanville WSC received \$71,044 to replace obsolete water lines. Milano WSC received \$35,000 to complete Tie-In for water lines. The district provides grant funding annually to area water suppliers based on need. Providers must show that the projects will benefit water conservation. POSGCD provides the grant funding from fees collected from water exporters and commercial users in Burleson and Milam counties.

**The Board Received a Report on the Groundwater Well Assistance Program (GWAP)**, which aids landowners whose wells have been negatively impacted by water export activity. The program works with landowners in both counties which have experienced a loss of service due to water levels dropping below the pump caused by aquifer βwide pumping. The program is fully funded from fees collected from commercial producers and exporters of water. The report showed a total of 47 wells inspected in 2020 with 24 wells serviced. POSGCD spent \$76,161 and was reimbursed \$17,653 from the Vista Ridge and I-130 export projects. For 2021 to date, 24 wells have been inspected and 20 wells serviced with POSGCD spending \$148,234. The total expense to date, including science and well service, under GWAP is \$298,575.

### 8th Annual Milam & Burleson Counties Groundwater Summit Announced

This years 2022 Milam and Burleson Counties Groundwater Summit was held on August 18, 2022 from 9 a.m. to 4 p.m. at the Caldwell Civic Center at 103 W Hwy 21, Caldwell, Texas. This years 2022 Milam and Burleson Counties Groundwater Summit was a great success. Over 250 local landowners and concerned citizens enjoyed over twenty speakers, lunch and some great question and answer sessions at the Caldwell Civic Center at 103 W Hwy 21, Caldwell, Texas.

After a welcome from Milam County Judge, Steve Young, the first panel explained how the Region G water planning ties into the state water plan. It included Wayne Wilson, Brazos Region G planning group, Sarah Backhouse Lee who oversees the State's Regional State Water Planning Program, Gary Westbrook, POSGCD's General Manager and Tony Smith, a Water Resource Engineer. The second panel discussed Aquifer sustainability and what that means. This group included Robert Mace from the Meadows Center for Water and the Environment, Vanessa Puig-Williams, Environmental Defense fund and Carlos Rubinstein, who was Chairman of the Texas Water Development Board and now works for an environmental consulting firm. Understanding the Legislative Process was the subject of the third panel. Robby Cook of Eichler and Cook, LLC, Sarah Kinkle, Director of Policy and Legislative Affairs for the Texas Water Conservation Association, and Leah Martinsson, Executive Director of TAGD talked about how Bills make it through the Texas legislature to become Law. District staff members Bobby Bazan and Michael Redman, the POSGCD Compliance Specialist, along with Lakin Beal and Dr. Steve Young of Intera, spoke during the last panel of the day.

Ryan Gerlich from Texas Well Owner Network gave some great information on on-site water treatment systems or septic systems. John Smith from Texas A&M AgriLife gave an informative program on water quality and explained the results of the water testing program POSGCD provided to local landowners this year free of charge. Eighty-six people participate in this year's water testing.



### POSGCD Board Announces the Success of our First Groundwater Rights for Real Estate Seminar

POSGCD's first Groundwater Rights for Real Estate seminar was a great success. With over 120 attendees, we were able to connect with many professionals and land owners who are concerned about the potential water shortage.

We had three keynote speakers, who gave their time generously to help educate the audience on the topic. In this seminar, we covered topics such as:

Charles Porter, Groundwater Rights specialist, spoke on, what are the Groundwater Rights for Real Estate which gave an increased understanding of how Texas Groundwater laws and District rules affect the water rights of local landowners. Also he covered, who owns the water above and below my property? Bobby Bazan, POSGCD Water Specialist shared information on water well basics and explained the features of the Public Interface on our website. Gary Westbrook, General Manager, Post Oak Savannah GCD gave specific information on water management in Texas starting with Chapter 36 of the water code. He explained the numerous programs for local landowners including the Groundwater Well Assistance Program, Rainwater harvesting Grants, Water Well Plugging grant for abandoned water wells, Local Water Utilities Groundwater Conservation Grant program and More.

### POSGCD Board Approves New Groundwater Conserving Program for Agriculture Producers

At it's May 10, 2022 Board Meeting the Post Oak Savannah Groundwater Conservation District (POSGCD) Board of Directors approved a contract with Texas A&M AgriLife for District Education Programs to improve the capacity of agricultural water users to conserve groundwater. This groundwater conservation program will provide educational resources for the adoption of water-efficient irrigation methods and tools. This new program will discuss ways to improve system efficiency through the different irrigation methods, irrigation scheduling tools, and other topics relevant to irrigators. Specifically, these programs will be for Center Pivot Best Management Practices as well as Furrow Irrigation Best Management Practices. This new effort will compliment other popular and successful POSGCD Groundwater Conservation Programs include the Aquifer Conservancy Program, Rainwater Harvesting Grant Program, Groundwater Well Assistance Program, the Local Water Utilities' Groundwater Conservation Grants, Fire Department Reimbursements Grants, and the Abandoned Water Well Plugging Grants. Plus, we offer programs for water smart landscape design and irrigation training to conserve and preserve groundwater.



### Board Approves Year-Round Enrollment for ACP

At its January 11, 2022 Board Meeting the Post Oak Savannah Groundwater Conservation District (POSGCD) Board of Directors approved year-round enrollment in the District's Aquifer Conservancy Program (ACP). The ACP is an innovative program which has grown in popularity and enrollment since it was adopted by the Board in 2019. The ACP is designed to allow landowners in Milam and Burleson County to commit their water rights into a conservancy to extend the life of the aquifers in the District for future generations.

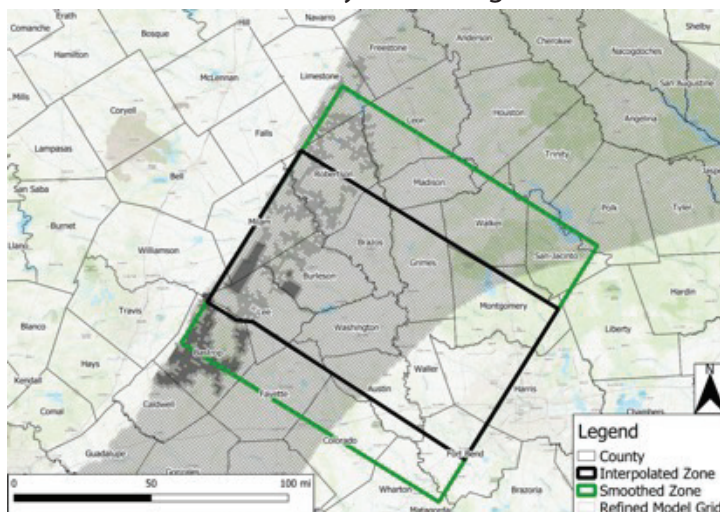
### New Longer Terms with Increased Compensation for the Aquifer Conservancy Program!

On February 15, 2022, Post Oak Savannah Groundwater Conservation District Board of Directors voted to add two new terms to the Aquifer Conservancy Program (ACP)! These new terms will be for commitments of 30 years and 50 years with compensation values of \$15 per acre and \$25 per acre, respectfully. These new terms have been added to the original term options of 5 years, 10 years, and 20 years. All five levels of the terms will be available to all current enrolments and all new enrolments AND all current enrollees can increase from one term to a higher term and receive the additional compensation for the full year of 2022 if the change in terms is completed prior to October 1, 2022.



### POSGCD receives \$200,000 Grant Award for New Groundwater Modeling Software

Post Oak Savannah GCD was awarded a \$200,000 grant in federal assistance from the Bureau of Reclamation to improve groundwater modeling capabilities in our local area that will be a significant tool in supporting management decisions. Currently, the District uses a groundwater availability model (GAM) of the Carrizo-Wilcox Aquifer developed by the Texas Water Development Board. Covering a study area of all or parts of 46 counties, the current model was developed for and intended to be used as a regional water planning tool in the overall state water plan. The current GAM was updated 5 years ago, for the first time since its release in 2004. The District contributed to the last update and it has served as a valuable tool, but there's a need for a more detailed model in the current management conditions. The current GAM is not equipped or detailed enough to be used in local, smaller scale management decisions. This new grant will be used in collaboration with the Meadows Center for Water and the Environment at Texas State University to develop a new model, Operational Management Model (OPMAN). OPMAN will be developed using significantly more data from our counties so that it can better simulate local hydrogeologic conditions within the 14-county area recognized as Groundwater Management Area 12, and even more specifically, Burleson and Milam counties. This will allow the District to have a more focused picture of the aquifers as a whole with the capability of assessing smaller-scale management scenarios in more detail than ever before. This detailed and more accurate data set will provide better estimates of risks and impacts of groundwater pumping/recharge to make more reliable (and quantifiable) management decisions, to better enforce our rules to prevent over production, and to protect the local water supplies for the long term. The District will contribute an additional \$350,000 to combine with the \$200,000 grant to develop this new modelling software.





### **POSGCD Board votes to Participate in Innovative Program with the Bureau of Economic Geology**

At its September 13, 2022 Board Meeting, the Post Oak Savannah Groundwater Conservation District (POSGCD) Board voted to participate with the Bureau of Economic Geology (BEG) in a pilot program that will help to better understand and quantify the hydrologic and socioeconomic impacts to pumping driven by groundwater storage and use conditions. The Board received a presentation from Dr. Justin Thompson from the BEG, where Dr. Thompson requested the District's participation in the innovative program which will create a user-friendly tool for performing evaluations. Participation does not require any District funding to the BEG, but does require an investment of time and attention by District personnel in completion of the work.

This program will be the first of its kind and will be useful across the State. This program combines user data, which includes pumping demands and cost to mitigate any issues to current wells, aquifer data, including Hydraulic Conductivity of the aquifer and other geometries, and well data, which includes screen interval, pump depth and well efficiency.

Participation in development of this new tool will give the District information on quantified changes in recoverability and operational thresholds with optimized remediation and socioeconomic impacts of changes with the Desired Future Conditions.

### **Board Amends District Rules to Provide Additional Protection for Landowners with Water Wells**

The Board also approved amendments to the District's Rules, including Section 4 dealing with requirements of monitoring and Section 16 dealing with actions of the Board based on monitoring results. These amendments expand the Board's regulatory authority for restricting impacts that water supply projects can have on other wells and on the change in the water levels along the property boundary of the project. These new Rules will further strengthen the District's ability to protect landowners in the District.

### **College Scholarships available for Students Enrolled in the 4-H Water Program**

The Board also unanimously approved the new POSGCD Water Ambassadors scholarship program! The program will provide a scholarship worth \$1250 annually to students who meet the requirements. Also included in this action is reimbursable student expenses to participate in the program. This reimbursement will include annual participation fees, spring and fall retreats, conferences, and/or other water-related meetings and trainings not covered by the program. The POSGCD Water Ambassadors scholarship will be awarded annually to Milam and Burleson county students who are selected to participate. 4-H Water Ambassadors Program coordinator, David Smith, will advise the District of students from Milam and Burleson Counties selected for the program.

### **POSGCD Board Swears In New Director John Graves Redington**

During its monthly meeting on October 11, the Board of Directors of the Post Oak Savannah Groundwater Conservation District welcomed its newest member, John Graves Redington. Redington fills the place vacated by Sidney Youngblood. Youngblood served on the POSGCD Board since 2014, and as Board President for six years. Youngblood occupied the seat designated under district bylaws as representing the industrial interests of Milam County, and was active in several Board committees, including Rules, Advisory, and Building Committees.

Redington grew up helping his grandparents on the family ranch in the Sharp/Lilac area and later graduated from Southwestern University with a Bachelor's in History and a minor in Political Science. He then earned a Juris Doctorate in 2003 from St. Mary's University School of Law. After running a successful law practice with offices in Cameron and Temple, Redington became the First Assistant District Attorney/Special Crimes Prosecutor for Milam and later Falls County. Currently, Redington is the Senior Associate at the firm of Allison, Bass, Magee, LLP where he represents counties, cities, school districts, groundwater districts, and other local entities in litigation and other legal affairs. He is Past President of the Cameron Rotary Club, and a member of Lilac Cemetery Association, Milam County Bar Association and Texas District & County Attorneys Association.



### Board Swears In New Director Kit Worley

The Board also welcomed new member Mr. Kit Worley as the newest Board Member. Mr. Worely lives in the San Gabriel area where he operates a family farm that has been in his family for generations. He also comes to the Board with years of experience in the water industry as he is a long time board member and current Board President of Southwest Milam Water Supply Corporation, in Rockdale.



### POSGCD Welcomes New Office Manager

On August 1, 2022, Post Oak Savannah Groundwater Conservation District welcomed Kelli Timmerman as our Office Manager/Bookkeeper. Kelli is a hard-working professional with 15 years of experience in



accounting and bookkeeping in various industries, including nine years with municipal water/wastewater departments. She was born and raised in Rockdale where she attended Rockdale High School, Blinn College and Temple College. She enjoys being a mom. She is a foodie that enjoys hanging out with family and friends, working in her yard, going dancing and is obsessed with her pug Tito.

She was an administrator for the City of Rockdale and Round Rock in the Water/Wastewater Maintenance department. She has helped local businesses Brett's BBQ, Real Estate by Kathrynne and Caffey Corner doing bookkeeping duties. Kelli also was the Bookkeeper for Butter Weldments in Cameron and KJZT Family Life in Austin. Her skills in QuickBooks and Microsoft programs will be a perfect fit at Post Oak Savannah GCD. Her passion for customer service and detail oriented personality will

be appreciated by the landowners and everyone she works with at POSGCD.

Kelli will be a valuable addition to the POSGCD staff ,and we are excited to have her aboard.

### POSGCD Welcomes New Regulatory Compliance Specialist

On July 1, 2022, Post Oak Savannah Groundwater Conservation District welcomed Michael Redman as a Regulatory Compliance Specialist. The District is excited to add to the staff, 9 years of experience and knowledge of working with other groundwater conservation districts throughout the state, and the ability to share him with the citizens of Burleson and Milam counties. Mr. Redman received a Bachelor of Science in Biology: Environmental Studies and a Master's in Business Administration from Schreiner University.

Michael, most recently, worked at Barton Springs Edwards Aquifer Conservation District (BSEACD) where he served as the Regulatory Compliance Manager for the last 2 years. While at BSEACD, Redman also held the position of Chairman for Groundwater Management Area 10, which serves as the groundwater planning group for the Edwards Aquifer region. He also served as the GMA 10 Representative for the Region K Regional Water Planning Group. Michael previously worked as the District Operations Manager at Bandera County River Authority & Groundwater District from June 2013 to June 2020 where he served as the Region J Representative, and he served as the Groundwater Management Area (GMA) 9 Designated Representative. From June 2020 to June 2022,

As a Regulatory Compliance Specialist for POSGCD, Redman will assist with keeping the District adherent to rules, as well as permit holders and applicants. He will work to review permit applications, collect production reports from permit holders, inspect wells for proper completion and spacing, and provide information to the public.

Mr. Redman said that his experience and background in Environmental Studies and his Master's in Business Administration will help him perform the duties of the POSGCD Regulatory Compliance Specialist. In addition, his experience at previous groundwater conservation districts will allow him to hit the ground running, while learning the ins and outs of the Districts rules.



## Requirements of District Management Plan

The District's mission is to adopt and enforce Rules consistent with State law and based on best available science to provide for the conservation, preservation, protection, recharging, and prevention of waste of groundwater, balanced with land-owner rights and ownership to assign or produce that property. The Management Plan outlines how to achieve this and is put into effect when adopted by the POSGCD Board of Directors ("Board") and approved, or certified, by the Texas Water Development Board. The plan is revised based on a five (5) year planning cycle, beginning on the certification date.

**The following pages include the titles of the Sections from the Management Plan, and the actions taken to satisfy it. The whole Management Plan document is available on our website at: [www.posgcd.org/governing-documents/](http://www.posgcd.org/governing-documents/)**

## Section 5.0 Management Zones and Management Areas

### Actions Taken

POSGCD maintains Rules to accomplish the objectives and goals expressed in the Management Plan in Section 1- District Mission, and Section 5 Management Zones. In 2022, POSGCD approved the permits listed in Table 1 after finding the applications to be in accordance with district rules and the management plan based on the findings of the District's staff, general counsel, and their hydrogeologist. The District also accepted applications of exempt wells, both pre-existing or to be drilled, in accordance with state law, district rules and management planning. These well registrations are listed in Table 2.

## Section 6.0 Management of Groundwater Supplies

### Actions Taken

Water levels for wells in the Monitoring Network were measured and analyzed to evaluate the potential impacts of pumping and for use of joint planning. 36 WellIntel and 35 acoustic devices units collected water level data in real time for a total of 71 of the monitoring wells, to continuously measure water levels. The rest of the wells are hand measured by our Field Technicians.

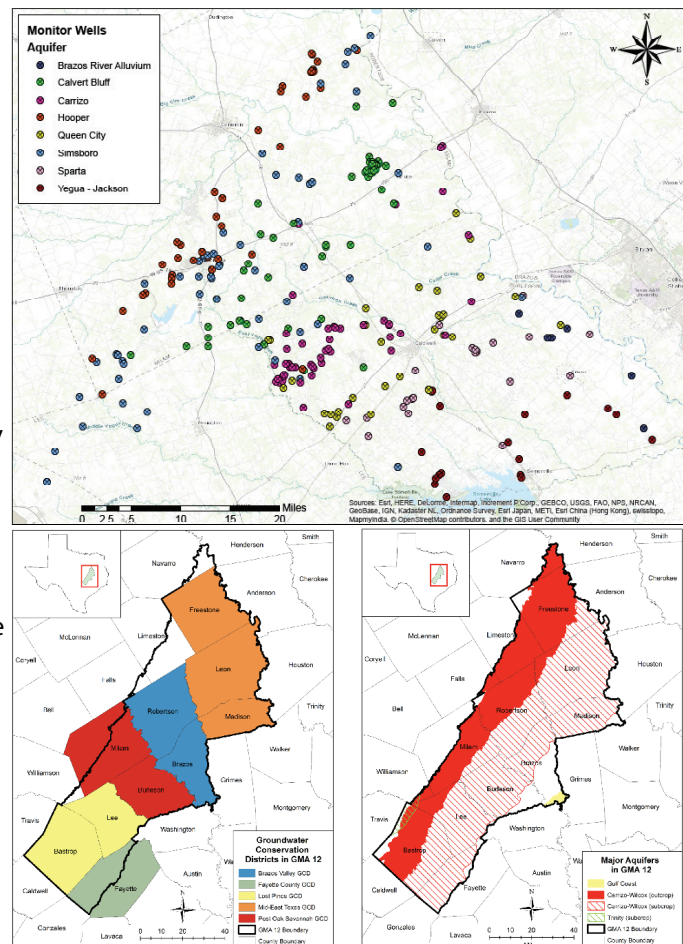
## Section 7.0 Desired Future Conditions

### Actions Taken

POSGCD participates in joint planning for GMA 8 and GMA 12 as required under Chapter 36.108, Texas Water Code.

Chapter 36.108, Texas Water Code (TWC) requires member Districts of each Groundwater Management Area (GMA) to participate in joint planning. In 2022 the District participated as a member of GMA 8 on July 26 and GMA 12 meetings were January 15, February 12, March 18, April 20, April 24, June 24, October 6, October 13, November 12, and November 30. General Manager, Gary Westbrook, continued to serve as the Representative for GMA 12 and on the Brazos G Regional Water Planning Group.

Minutes and presentations from the above meetings are available on the District's website at [www.posgcd.org/agendas-minutes/agendas-minutes/](http://www.posgcd.org/agendas-minutes/agendas-minutes/)





## Requirements of District Management Plan

### Section 7.0 Desired Future Conditions

#### Actions Taken

The DFCs and Explanatory Reports for both GMA 8 and GMA 12 were adopted in 2017 and declared administratively complete by the Executive Administrator of the Texas Water Development Board. Upon the adoption of the DFCs, the Executive Administrator of the Texas Water Development Board will establish the MAG and advise the Districts as to the amount of water that may be produced on an average annual basis to achieve each of the DFCs.

Table 2-1. Adopted DFCs for the Sparta, Queen City, Carrizo, Calvert Bluff, Simsboro, and Hooper Aquifers

GCD or County	Average Aquifer Drawdown (feet) measured from January 2011 through December 2020					
	Sparta	Queen City	Carrizo	Calvert Bluff	Simsboro	Hooper
Brazos Valley GCD *	53	44	84	111	262	167
Fayette County GCD **	43	73	140	Declared as non-relevant		
Lost Pines GCD	22	28	134	132	240	138
Mid-East Texas GCD	25	20	48	57	76	69
Post Oak Savannah GCD	32	30	146	156	278	178
Falls County	—	—	—	—	7	3
Limestone County	—	—	—	2	3	3
Navarro County	—	—	—	0	1	0
Williamson County	—	—	—	25	31	24
<b>GMA 12</b>	<b>33</b>	<b>32</b>	<b>96</b>	<b>98</b>	<b>169</b>	<b>110</b>

\* Brazos Valley GCD DFCs are for 2000 through December 2020.

\*\* Fayette County GCD DFCs are for all of Fayette County.

### Section 8.0 Modeled Available Groundwater

#### Actions Taken

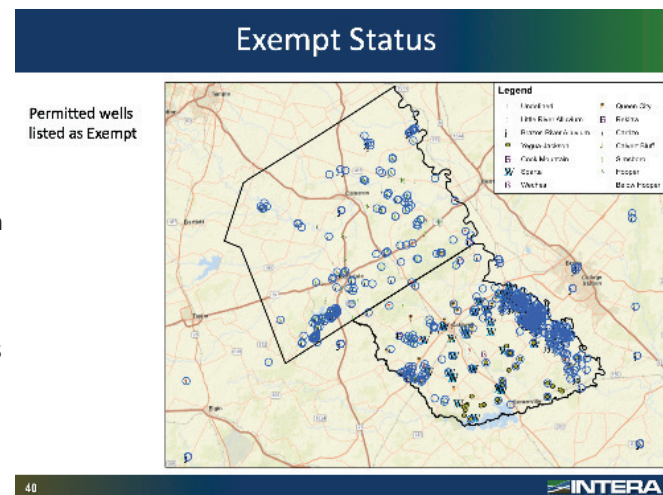
Based on DFCs adopted by GMA 8 and GMA 12, the TWDB is required by TWC § 36.108 9(o) to provide the District with a modeled available groundwater (MAG) for each DFC.

### Section 9.0 Water Well Inventory

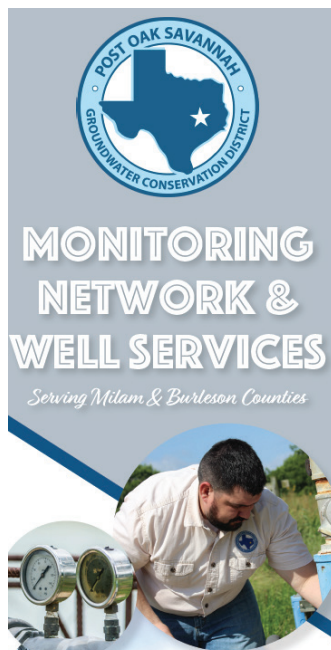
#### Actions Taken

POSGCD assigned permitted wells to management zones and documented these assignments in the well database. Discussions with TWDB continued to reconcile differences between aquifer identifications for monitoring wells in the two databases. This is an ongoing process.

The District's website, [www.posgcd.org](http://www.posgcd.org), now hosts a web application which allows users to query and visualize the location of wells in the District's Water Well inventory.



### Section 10.0 Groundwater Monitoring



#### Actions Taken

In 2022, approximately 67 monitoring wells to the Monitoring Network, expanding data coverage across District counties and adjacent counties. The locations of wells within the Monitoring Network are available on the website, Table 4, <http://posgcd.org/annual-reports/>.

Well data is shared between neighbouring groundwater districts to improve the collective resources to improve decision-making in joint planning.

The District conducted several meetings with the TWDB to discuss and exchange information and ideas regarding a best approach for associating aquifer assignments to monitoring wells. These discussions will continue into 2023.

## Requirements of District Management Plan

### Section 11.0 Threshold levels and Analysis of Groundwater Level Data

#### Actions Taken

Threshold levels are evaluated annually to check DFC compliance through water level data collected from wells in the monitoring network. Staff works in conjunction with hydrogeologists to interpret and investigate this data to evaluate the overall health of the aquifer systems. This information is then compiled into reports that are presented to the Board and public at the monthly meetings.

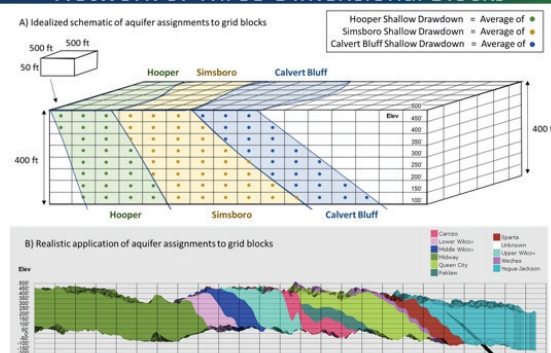
The Board meeting held on October 11, 2022 provided a comprehensive comparison of off site evaluations and monitoring results to the DFCs and goals identified in the District's management plan.

### Section 12.0 Production and Spacing of Wells

#### Actions Taken

Each application to drill and operate a non-exempt well is filed with the District and reviewed for completeness. In conducting this application review, the desired spacing and rate of production are evaluated to determine compliance with District Rules and the Districts designated management zones. The zones are identified in the District's Management Plan. All applications were reviewed and approved by one or more of the following, as appropriate: District staff, the District's general counsel, and the District's hydrologist.

#### Two-Dimensional Grid Used to Create a Network of Three-Dimensional Blocks



12 Each column of blocks has the same amount of drawdown

INTERA

### Section 13.0 Actions, Procedures, and Avoidance for Plan Implementation.

#### Actions Taken

The District offers groundwater and water conservation educational programs to the Milam and Burleson County school districts, and has established a grant program for public water utilities to fund repairs and improvements to water systems to conserve, and limit the loss of water. The District also continues to work pro-actively with GMA 8, GMA 12, the Texas Water Development Board, Burleson and Milam counties, the Texas Alliance of Groundwater Districts, the Brazos River Authority and other public organizations and private citizens, to assure the implementation of the Management Plan, and the protection of the groundwater supplies, aquifers, and property rights of all landowners. In this respect, it is noted that no amendment to either the Management Plan or the rules has been required as a result of significant court decisions regarding groundwater, the rights of landowners or groundwater districts.

### Section 14. Methodology for Tracking District Progress in Achieving Management Goals

#### Actions Taken

The general manager of the District will prepare and present to the Board an annual report on the District's performance and accomplishment of the management goals and objectives. This report satisfies that requirement.

### Section 15.0 Aquifer Storage and Recovery Projects

#### Actions Taken

There were no proposed ASR projects in 2022.

### Section 16.0 Conjunctive Use and Conjunctive Water Management

The Texas Water Code §36.001 defines conjunctive use as the combined use of groundwater and surface water sources that optimizes the beneficial characteristics of each source. Conjunctive water use can be considered as the coordinated use of surface water and groundwater to maximum the firm yield. An offspring to conjunctive water use is conjunctive water management. Conjunctive water management engages the principles of conjunctive water use, where surface water and groundwater are used in combination to improve water availability and reliability but also include important components of groundwater management. (Dudley and Fulton, 2005). Examples of conjunctive water management projects includes aquifer storage and recovery, managed aquifer recharge, and joint management of surface water and groundwater supplies. The District encourages permit applicants to include an aspect of conjunctive water management. Among the potential benefits of conjunctive water management is improved reliability of local water supply, increased firm yield from water supplies, reduced groundwater overdraft, increased flood protection, and improved environmental conditions.

## Requirements of District Management Plan

### Impact Matrix for 5-years of Pumping based on Different Maximum Production Allocations

Aquifer	Depth (ft)	2 af/ac			1 af/ac			0.5 af/ac			0.25 af/ac			0.125 af/ac		
		Well	3000 ft	6637 ft	Well	3000 ft	6637 ft	Well	3000 ft	6637 ft	Well	3000 ft	6637 ft	Well	3000 ft	6637 ft
Sports	0 to 250	8.1	5.9	3.2	4.1	1.9	1.6	2.0	1.0	0.8	1.0	0.5	0.4	0.5	0.2	0.2
	250 to 500	25.1	13.6	11.2	12.6	6.8	5.9	6.3	3.4	2.9	3.1	1.7	1.5	1.6	0.9	0.7
	500 to 1000	0.4	3.7	2.2	2.2	1.9	2.0	1.6	0.9	0.8	0.8	0.5	0.4	0.4	0.2	0.2
	1000 to 2000	2.2	1.3	2.2	1.1	0.7	0.6	0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1
	2000 to 3000	2.3	1.4	2.3	1.2	0.7	0.6	0.6	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1
Queen City	0 to 250	8.4	4.0	3.3	4.2	2.0	1.7	2.1	1.0	0.8	1.1	0.5	0.4	0.5	0.3	0.2
	250 to 500	12.8	7.1	6.2	6.4	3.6	3.1	3.2	1.8	1.6	1.6	0.9	0.8	0.8	0.4	0.4
	500 to 1000	2.9	1.8	2.0	1.5	0.9	0.8	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.1	0.1
	1000 to 2000	1.7	1.1	0.9	0.9	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	2000 to 3000	1.5	0.9	0.9	0.8	0.5	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Corral	0 to 250	8.9	4.1	3.4	4.4	2.1	1.7	2.2	1.1	0.9	1.1	0.5	0.4	0.6	0.3	0.2
	250 to 500	4.5	2.6	2.2	2.2	1.3	1.1	1.1	0.6	0.5	0.6	0.3	0.3	0.3	0.2	0.1
	500 to 1000	1.7	1.1	0.9	0.9	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	1000 to 2000	0.6	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
	2000 to 3000	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calvert Bluff	0 to 250	7.9	3.8	3.1	3.9	1.9	1.6	2.0	0.9	0.8	1.0	0.5	0.4	0.5	0.2	0.2
	250 to 500	8.1	4.7	4.1	4.1	2.3	2.1	2.0	1.2	1.0	1.0	0.6	0.5	0.5	0.3	0.3
	500 to 1000	2.3	1.4	1.3	1.2	0.7	0.7	0.6	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1
	1000 to 2000	1.1	0.7	0.6	0.6	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0
	2000 to 3000	1.5	0.9	0.8	0.7	0.5	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
5 instance	0 to 250	3.0	1.3	1.3	1.5	0.8	0.7	0.7	0.4	0.3	0.4	0.2	0.2	0.2	0.1	0.1
	250 to 500	2.1	1.3	1.1	1.0	0.6	0.6	0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1
	500 to 1000	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
	1000 to 2000	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2000 to 3000	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hoover	0 to 250	12.3	5.7	4.6	6.2	2.8	2.3	2.1	1.4	1.1	1.5	0.7	0.5	0.8	0.4	0.3
	250 to 500	17.3	9.5	8.2	8.6	4.8	4.1	4.3	2.4	2.1	2.2	1.2	1.0	1.1	0.6	0.5
	500 to 1000	4.0	2.4	2.1	2.0	1.2	1.1	1.0	0.6	0.5	0.5	0.3	0.3	0.2	0.1	0.1
	1000 to 2000	1.6	1.0	0.9	0.9	0.5	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	2000 to 3000	1.0	0.6	0.6	0.5	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0

## Section 17.0 Management Goals, Objectives, & Performance Standards

### 17.1 Efficient Use of Groundwater

#### Actions Taken

Technicians recorded of 984 water level measurements this year from wells within the Network. Continuous water level measurements are collected from 71 automatic units that report data remotely. 35 of these wells are equipped with transducers and 36 with Wellintel units.

Table 4 at <http://posgcd.org/annual-reports/> lists wells that were a part of POSGCD monitoring well network in 2022 for which water levels were recorded at least once during that year. A report on this monitoring was presented to the Board on October 11, 2022 in a comprehensive evaluation of monitoring results compared to DFCs and management goals as identified in the District's management plan.

### 17.2 Controlling and Preventing Waste of Groundwater.

#### Actions Taken

The District provides educational leadership to citizens within the District concerning this subject. The activity will be accomplished annually through at least one printed publication, such as a brochure, and public speaking at service organizations and public schools, if available, as provided for in the District's Public Education Program.

### 17.3 Control and Prevent Subsidence

POSGCD evaluated water level measurements from over 412 monitoring wells and did not find any evidence of draw down that would be sufficient to cause land subsidence has occurred during the last few years or evidence it will occur in the next few years.



## Requirements of District Management Plan



### 17.4 Conservation of Groundwater including Rainwater Harvesting, Precipitation Enhancement, Brush Control, Conjunctive Use, and/or Recharge Enhancement of Groundwater Resources in the District

#### Actions Taken

The District provided educational opportunities to citizens within the District concerning these subjects. The educational efforts were through printed publications, such as a brochures, and at several public speaking programs at a service organization and at our building for the District's Public Education Program. Each of the following topics will be addressed in that program:

- A. Conservation
- B. Rainwater Harvesting
- C. Recharge Enhancement
- D. Conjunctive Use
- F. Precipitation Enhancement

The District encourages and supports projects and programs to conserve and/or preserve groundwater, and/or enhance groundwater recharge, by annually funding the District's Groundwater Conservation and Enhancement Grant Program. The objective of this program is to obtain the active participation and cooperation of local water utilities, fire departments, and public agencies in the funding and successful completion of programs and projects that will result in the conservation of groundwater and the protection or enhancement of the aquifers in the District. The qualifying water conservation projects and programs including projects that: result in the conservation of groundwater, reduce the loss or waste of groundwater, recharge enhancement, rainwater harvesting, precipitation enhancement, brush control, or any combination thereof. The District's objective is to benefit the existing and future users of groundwater in the District by providing for the more efficient use of water, increasing recharge to aquifers, reducing waste, limiting groundwater level declines, and maintaining or increasing the amount of groundwater available, by awarding at least one grant under the program in each county annually.

The District offered a new program to sponsor individual students from our District interested in participating in the Texas 4-H Water Ambassadors Program (4-H2O) and a scholarship based on the number of years they participate. The scholarship is intended to support and encourage the exploration of diverse career paths in the water industry and to invest in developing future leaders. One student from Milam County was accepted to the program and received sponsorship to participate in addition to the scholarship earnings. Details can be found on our website, <http://posgcd.org/education>.

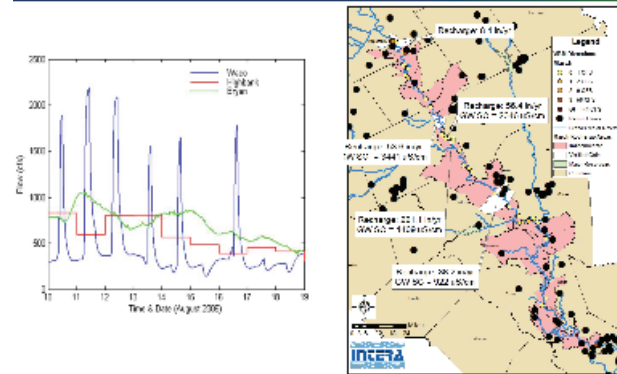


## Requirements of District Management Plan

### 17.5 Conjunctive Use of Surface and Groundwater Actions Taken

The District confers annually with the Brazos River Authority (BRA) on cooperative opportunities for conjunctive resource management. In an effort to enhance long term conservation of groundwater resources, the District encourages conjunctive water use projects to meet future needs and will encourage these water projects through

#### Results from Brazos River Gain-Loss Study in 2010 and 2011

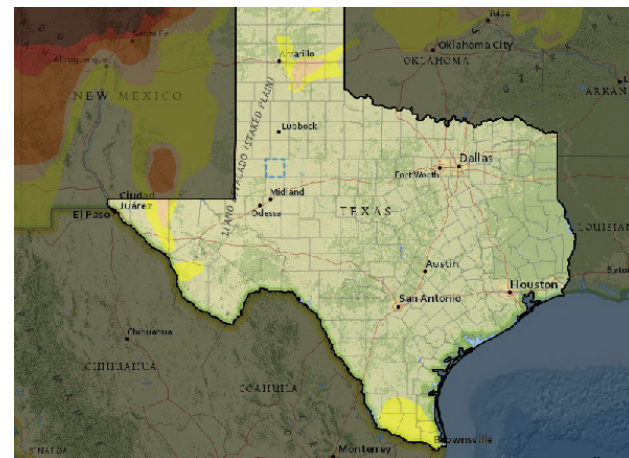


### 17.6 Drought Management Strategy

#### Actions Taken

The District continued to monitor groundwater in the different management zones to maintain compliance with DFCs and PDLs adopted by the District. The number of monitoring wells and the frequency of measurements are a part of the reports presented to the Board of Directors. For more information see Table 4 on the website,

<http://poagcd.org/annual-report/>



### 17.7 Provide information on Drought Status, at a Board Meeting, at least quarterly. Natural Resource Issues That Impact the Use and Availability of Groundwater and Which are Impacted by the Use of Groundwater

#### Actions Taken

The District evaluates permit applications for new wells and the information submitted by the applicants on those wells prior to drilling. The District assesses the impact of these wells on the groundwater resources in the District.



The District has implemented the POSGCD Well Closure Program. The objective of the well closure program is to obtain the closure and plugging of derelict and abandoned wells in a manner that is consistent with state law, for the protection of the aquifers, the environment, and the public safety. The District conducts a program to identify, inspect, categorize and cause abandoned and derelict water, oil and gas wells to be closed and plugged, by annually funding the program or segments or phases of the program appropriate to be funded in such fiscal year. The District funds the closure of abandoned wells, according to the most recently adopted District policies, during years when the District's revenues remain at a level sufficient to fund the program.

In years when funding is available, the District will enter into interlocal agreements with Milam and Burleson County to protect and preserve groundwater resources from potential contaminants through the County Conservation and Preservation Grant.

**The District funded well plugging for 2 qualified wells for a total of \$ 3,600 in 2022.**

## Requirements of District Management Plan

### 17.8 Groundwater Well Assistance

#### Actions Taken

The objective was met when the GWAP was adopted at the Board Meeting on January 9, 2018. Below are the reimbursements made to landowners and the amounts reimbursed to POSGCD from Vista Ridge & I-30 Projects through the GWAP program.



**2020 we assisted 20 landowners for a total of \$ 233,954, \$17,653 Reimbursed to POSGCD**

**In 2021 we assisted 41 land owners for a total of \$ 233,954, \$95,025 Reimbursed to POSGCD**

**In 2022 we assisted 38 land owners for a total of \$ 438,983, \$72,729 Reimbursed to POSGCD**



## Mitigation

### 17.9 Mitigation

#### Actions Taken

Mitigation plans related to groundwater pumping are on file at the District.

During 2013, ALCOA's mitigation plan, required by the Railroad Commission of Texas (TRRC) in conjunction with mining permits from TRRC, and the mitigation plan adopted by Gonzales Co. UWCD were reviewed by District staff, attorneys, and hydrogeologists. These plans were revisited during 2017 in development of the Groundwater Well Assistance Program.

At the November 10, 2015 Board Meeting, a presentation was given to the Board by Mr. Fred Russell of Gause, TX, concerning the benefits of a District mitigation program. At this time, the District maintains successful management under current District Rules and management strategies negates this need, however, to address this request from citizens, the District developed the Groundwater Well Assistance Plan during 2017, and adopted this plan in 2019.

The District will continue to review mitigation plans prepared by other agencies.

District staff presented reports and/or discussion on this topic during evaluations of compliance with adopted Desired Future Conditions at Board meeting on October 11, 2022.





## Requirements of District Management Plan

### 17.10 Desired Future Conditions (DFCs)

## DFCs

General Manager, Gary Westbrook, reported to the Board the measured water levels obtained from the monitoring wells within each Management Zone, the average measured draw down for each Management Zone calculated from the measured water levels of the monitoring wells within the Management Zone, a comparison of the average measured draw downs for each Management Zone with the DFCs for each Management Zone, and the District's progress in conforming with the DFCs.

He reported to the Board the total permitted production and the estimated total annual production for each aquifer and compare these amounts to the MAGs.

The District's staff and hydrologist covered this topic at the November 15, 2022 Board meeting in a comprehensive evaluation of monitoring results compared to the DFCs and management goals identified in the District's management plan. The results indicated that, at that time, the District was in conformance with the DFCs adopted by the District in 2010 as part of the joint planning process.

The District staff reported results of evaluations of compliance with DFCs during 2022 at the October 11 Board Meeting.

The District will continue this process by developing additional methodologies to evaluate these items. The District's Staff will also continue ongoing reports to the Board during public Board Meetings covering all of these factors.

## Section 18.0 Sustainability of the Groundwater Resource

### Action Taken

Local Water Utility were authorized to obtain a permit to pump and produce up to the Plan Amount. The the results of this effort is available on Table 18-1 in the Management Plan on the website:

[www.posgcd.org/governing-documents/](http://www.posgcd.org/governing-documents/)

# FINANCES & DISTRICT AUDITS

## Financial Reports and Annual Financial Audit

Financial reports are given at each meeting of the District's Board of Directors. A public hearing on District 2023 Budget and the 2023 Budget was adopted at the November 15, 2022 Board meeting.

The Annual Financial Audit of the District for Fiscal Year 2021 was presented to the Board at the June 14, 2022 Board Meeting and yielded a clean report. The Board considered and approved the audit.

[www.posgcd.org/posgcd-background/district-finances/](http://www.posgcd.org/posgcd-background/district-finances/)

**A Public Hearing on District Production Fees was held on November 15, 2022, with no changes, and the Production Fees for 2022 were adopted.**

**A Public Hearing on District Transport Fees was held on November 15, 2022, with no changes, and the Transport Fees for 2022 were adopted.**

**A Public Hearing on District Fee Schedule was held on November 15, 2022, with no changes, and the District Fee Schedule for 2022 was adopted.**

# MONITORING WELLS

# 15% Increase

for 2022

## ADDING MORE NEXT GENERATION MONITORING ACOUSTIC MEASUREMENT TECHNOLOGY



Well Monitoring is one of the most important tools to track the health of the aquifers. At the present time, the District has over 412 Monitor Wells across the two counties which include Rural Water Suppliers, landowner exempt wells, and wells the District has drilled for the sole purpose of monitoring.

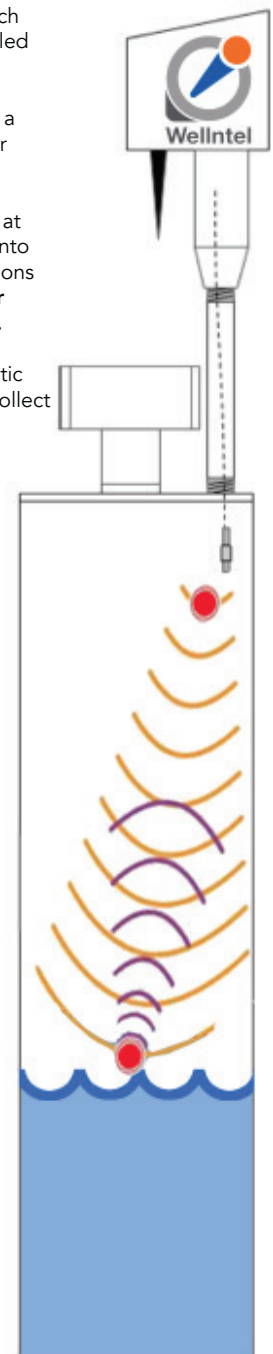
Monitor wells give us a snapshot of the water levels in the aquifers. They also give us a tool for making better decisions on installation of new wells and the amounts of water available for pumping.

POSGCD Field Technicians Craig Andrews and Jeff Fisher measure the monitor wells at least once a year. We take the date and water level he records and enter everything into our database. We are then able to use our hydrological models to make better decisions about managing these aquifers. **The more monitoring wells we have help us better understand the Aquifers and how pumping impacts water levels in specific areas.**

We continued adding transducers and the patented, next-generation, WellIntel acoustic measurement technology. These include remote telemetry, and a cloud platform to collect accurate and reliable groundwater level measurements.

A steady effort continues of locating additional monitoring wells and equipping wells for long-term water level measurements near the SLR property (previously Alcoa) to collect base line data prior to pump tests and future long-term production under the SLR Permit.

Intera has completed the DFC Compliance analysis using monitoring data collected by the District earlier this year. At this time, no thresholds have been exceeded or violated.



2016 - **110**

2017 - **156**

2018 - **201**

2019 - **241**

2020 - **292**

2021 - **359**

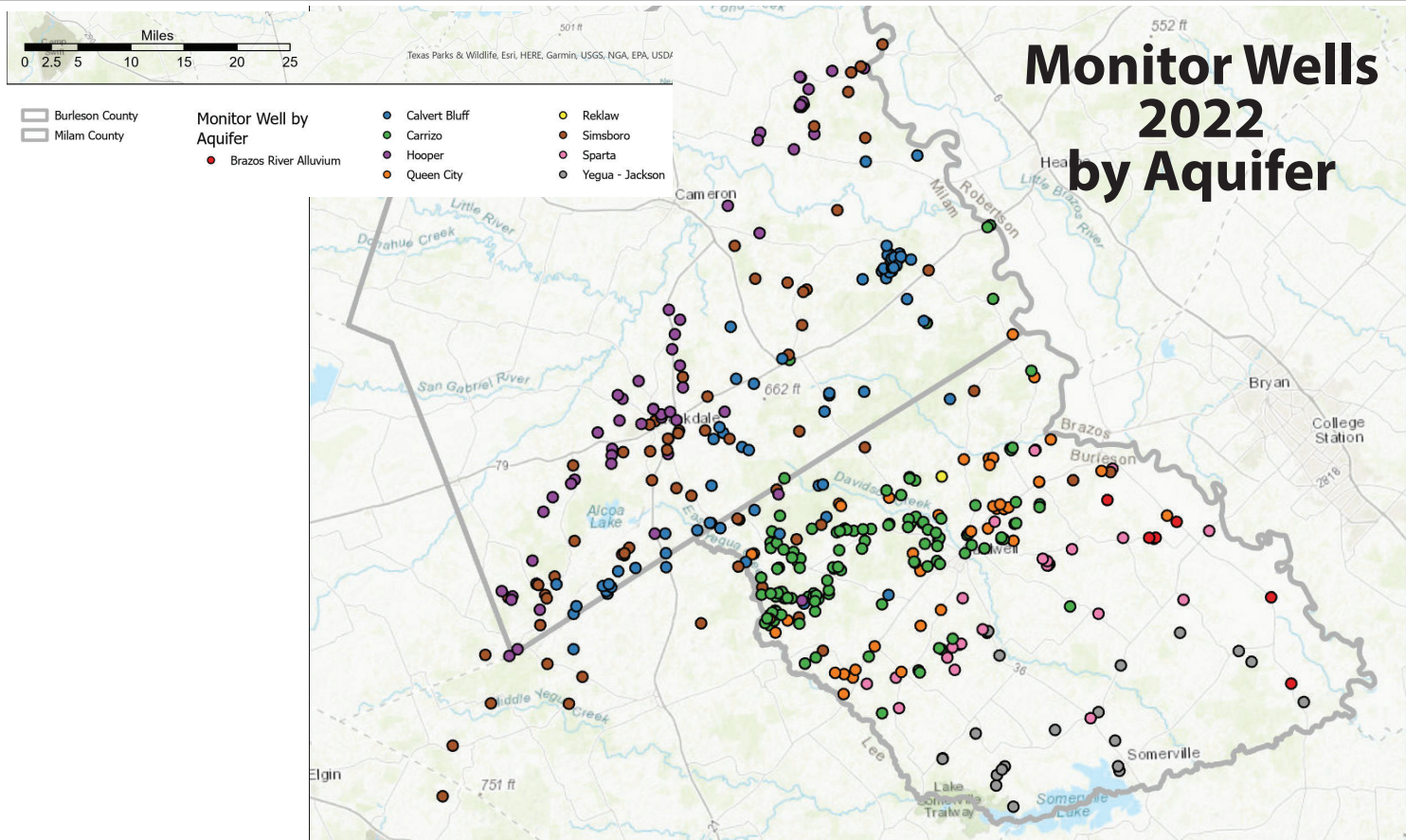
2022 - **412**

## Monitoring Wells

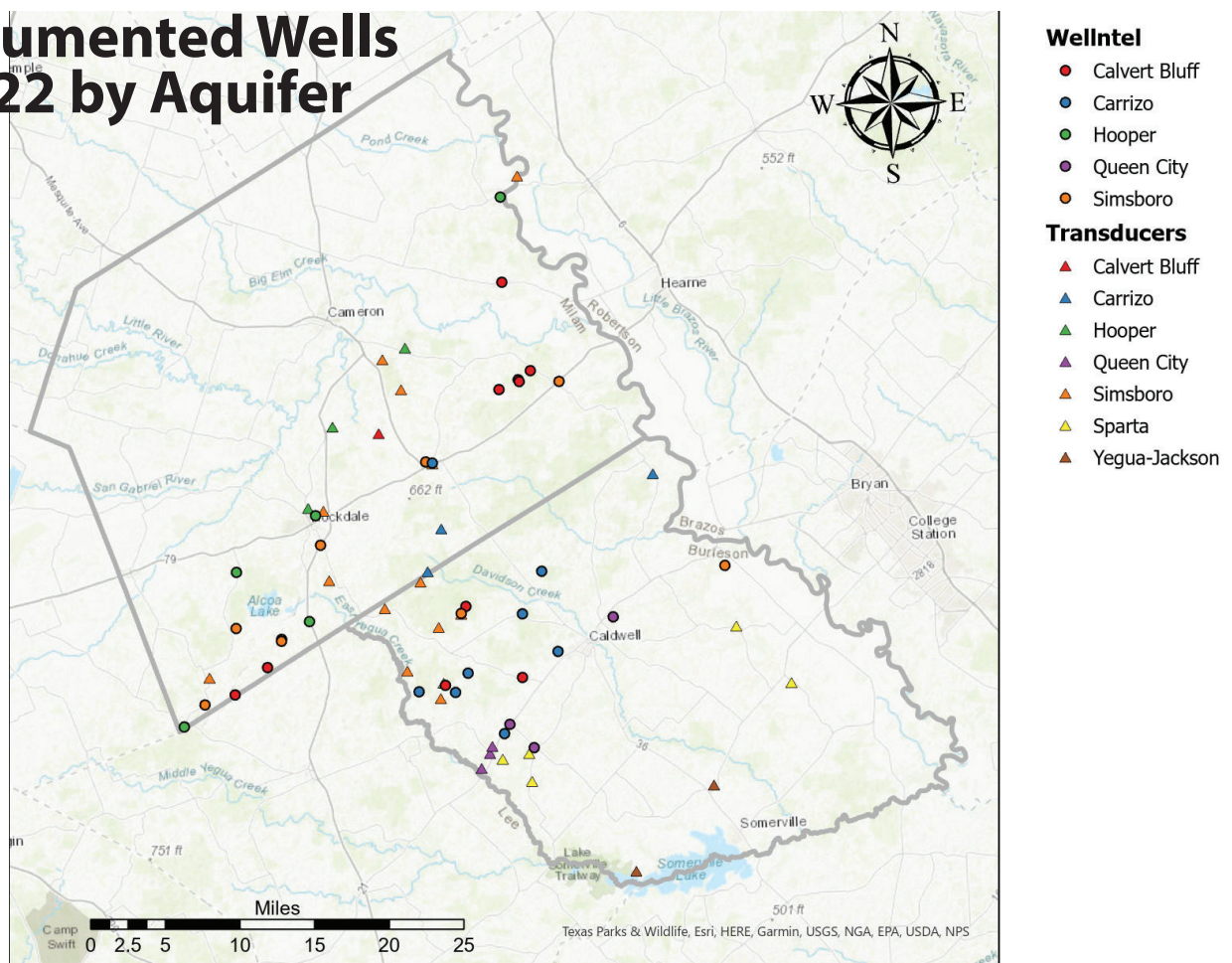
Aquifer	# of Monitoring Wells
Hooper	58
Simsboro	67
Calvert Bluff	70
Carrizo	123
Queen City	43
Sparta	24
Yegua-Jackson	20
Brazos River Alluvium	7

The number of wells in our Monitoring Network currently is at 412. Above is the brake down of the wells by formation





## Instrumented Wells 2022 by Aquifer





# GROUNDWATER SUMMIT

## 2022 Annual Milam & Burleson Co Summit



The 2022 Milam and Burleson Counties Groundwater Summit was a great success. With over 250 local landowners and concerned citizens enjoyed over twenty speakers, lunch and some great question and answer sessions at the Caldwell Civic Center in Caldwell, Texas. Post Oak Savannah Groundwater

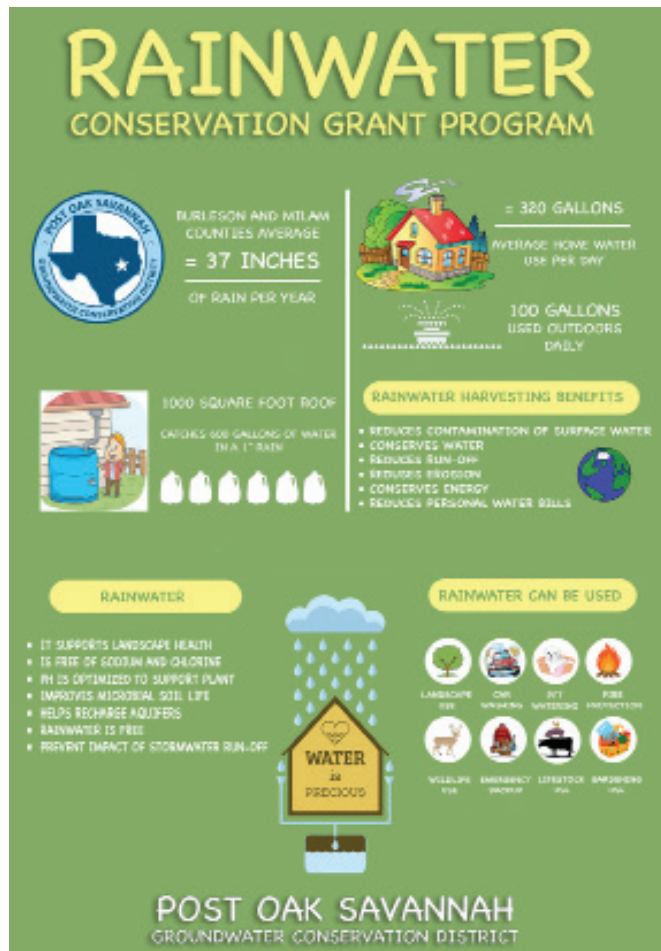
Conservation District organizes this event and invites groundwater experts from across Texas to come speak at the local level. It is a great opportunity for people to come and learn about the state's requirements on local groundwater management and to stay up-to-date on current groundwater issues, such as property rights and

groundwater management. If you missed this year's Summit, the videos from each speaker or panel are on our website for your enjoyment at: [www.posgcd.org/groundwater-summit/](http://www.posgcd.org/groundwater-summit/). If you have any questions, please visit our website or call our offices at 512-455-9900.



The District invites citizens of Milam and Burleson Counties and surrounding areas to attend the Groundwater Summit each year.

You can watch videos from the last three years Summits on our website. [www.posgcd.org/groundwater-summit/](http://www.posgcd.org/groundwater-summit/)



In 2022, POSGCD hosted 6 cooperative conservation workshops in conjunction with Texas A&M AgriLife, serving 107 citizens. The classes in 2022 consisted of Rainwater Harvesting, EarthKind, and Irrigation with Collected Rainwater. Twelve Rainwater Harvesting Systems with 14 Cisterns with a total of 57,075 gallons of potential storage utilized with the grant program.

## RAINWATER HARVESTING

In September of 2017, Post Oak Savannah Groundwater Conservation District (POSGCD) and Texas A&M AgriLife Extension Service (AgriLife) collaborated to offer a Water Conservation Program through the District. The program includes: a rainwater harvesting system, rainwater harvesting rebate program, drought-tolerant garden and irrigation demonstration sites, and series of educational workshops.



### 9 SYSTEMS INSTALLED

Through education workshops and the POSGCD rebate program, to date thirteen, rainwater harvesting systems have been constructed throughout the District.



### 57,075 TOTAL STORAGE

Gallons of storage. The rebate program is based on \$1/gallon of tank capacity up to \$3,000 per household.



### 14 TOTAL CISTERNS

The 12 installed systems consist of 14 total cisterns. Rainwater harvesting system has benefited the environment by reducing erosion around the office and by providing an outlet for heavy rains to be diverted into storage tanks then applied slowly through drip emitters.



### 385,012 GALLONS

These systems will reduce erosion, divert and slow down flood water, promote groundwater recharge, and lessen the burden on groundwater and surface water.





# FIRE DEPARTMENT REIMBURSEMENT GRANT

## Turbo Jet Nozzles

Akron Wide-Range, Turbojet Nozzle is a top nozzle of choice for fire fighters worldwide. It allows the firefighters to quickly and easily change flow and pattern to save water.

## FOAM Replacement

The foam deprives the fire of oxygen, thereby reducing heat. By Suppressing combustion, the foam reduces the use of water by making the equivalent 15,000 gallons of water from only 250.

## 9

VFD's Milam  
County

Rockdale VFD,  
Thorndale VFD,  
Milano VFD,  
Minerva VFD  
Bartlett-Davilla FD,  
Cameron VFD,  
Burlington VFD,  
Buckholts VFD,  
Gause VFD

## 9

VFD's Burleson  
County

Caldwell Fire & Rescue  
Somerville VFD  
Snook VFD Black Jack  
Volunteer FD  
Beaver Creek VFD  
Birch Creek Area VFD  
Cooks Point VFD  
Deanville VFD  
Cade Lake VFD

**Post Oak Savannah GCD Board of Directors continued its support of local Fire Departments and efforts in water conservation in the District by providing Grants to Burleson County Fire Departments and Milam County Fire Departments. It is up to each department to request a reimbursement for their department. In 2022, Somerville Fire Department was awarded \$5,566 and Rockdale Fire Department was awarded \$4,800.**

Foam to suppress fires instead of water are some of the items that VFDs can request reimbursement for. This fire fighting system is used to better combat both Class A (combustibles) and Class B (flammable liquids) fires. ProPaks to deliver the foam which is used to coat the fire in foam which deprives the fire of oxygen, thereby reducing heat. By suppressing combustion, the foam reduces the use of water by making the equivalent 15,000 gallons of water from only 250 gallons.

Additional benefits for using foam include:

Reduction of water necessary to suppress fires, reduction of man-hours and equipment needed, reduction of number of trips needed to deliver suppressant, reduced air pollution, lessens firefighter risk of exposure to airborne carcinogens, lowers amount of runoff & water pollution, and less water damage to property

Post Oak Savannah Groundwater Conservation District is thankful for the service of our fire departments and proud to support safer, more environmentally friendly alternatives for fighting fires by these local heroes.







# AQUIFER CONSERVANCY PROGRAM

## AQUIFER CONSERVANCY PROGRAM

### THE PURPOSE OF THE ACP

- Empower landowners through stewardship
- Conserve groundwater for future generations
- Establish a legacy of conservation
- Complement current sustainable practices
- Add a long-term tool to POSGCD toolbox of management strategies provided by state law.

### WHY THE AQUIFER CONSERVANCY PROGRAM ?

As Texas continues to grow, demands on groundwater resources increase. In response to these concerns, together with local landowners we have developed this proactive solution. (The legislative purpose of the District is to provide balance between production and preservation of aquifers.)

### HOW DOES THE ACP HELP CONSERVE THE AQUIFERS ?

Do I lose my property or water rights? No!

Do I have to commit ALL my land? No!

Can I still have my personal well? Yes!

The program survives the current Board and management. This is a longterm commitment by citizens toward the sustainability of the aquifers and water for future generations.

I SUPPORT



**AQUIFER**  
CONSERVANCY PROGRAM  
[WWW.POSGCD.ORG](http://WWW.POSGCD.ORG)



## The Board added two new terms to the ACP program Thirty years - \$15/acre/year and Fifty years - \$25/acre/year

The ACP enrollment for the first year was over 37,000 acres with more than 500 parcels. Checks are being sent out as contracts are returned to the District Office. The current totals are in the table to the right.

The program was founded to support local landowner legacies through long-term, sustainable stewardship of groundwater resources. The Board of Directors hold landowner interests and concerns with high regard and have made several changes in response to local concerns.

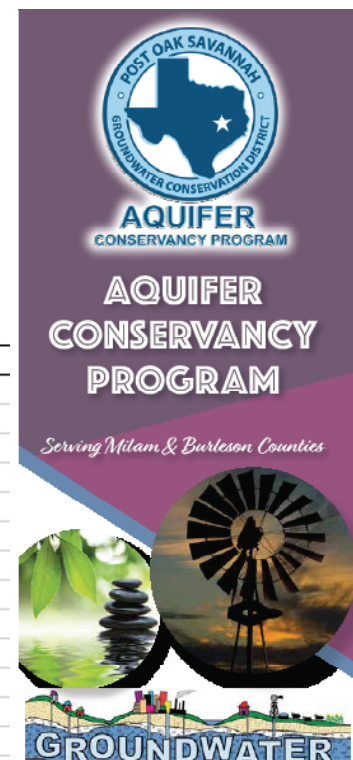
The Board implemented Flexible Commitment Options.

The following terms of commitment will receive the identified annual payment:

- (A) Five years- \$5/acre/year
- (B) Ten years- \$8/acre/year
- (C) Twenty years- \$10/acre/year
- (D) Thirty years - \$15/acre/year
- (E) Fifty years - \$25/acre/year

The Directors and staff continued to work diligently to get the word out about this program.

Year	Parcels Enrolled	Acres Enrolled	Paid to Date
2019 Sign-up Bonus			\$364,799.02
2019	407	28,073.4091	\$323,183.48
2020 Sign-up Bonus			\$56,077.80
2020	105	6,743.8457	\$39,390.73
2021 Sign-up Bonus			\$29,609.28
2021	39	3,733.326	\$25,980.24
2022 Sign-up Bonus			\$52,701.27
2022	68	5,304.69	TBP in 2023
Upgrades	363	25,961.24	TBP in 2023
Total	619	51,430.16	\$891,741.82



# EDUCATION SCHOOLS

Post Oak Savannah GCD offers educational tools and presentations to 4<sup>th</sup> and 7<sup>th</sup> grade classrooms to schools in our District. The POSGCD Water Wizard Program covers the state required subject matter about how natural events and human activity impact groundwater and surface water in a watershed. Within the presentation, students get a chance to see a groundwater model in action, as well as learn about human effects through pumping and recharge. Students also learn about the importance of water conservation and different ways that we can all do our part to protect our groundwater resources.

## EDUCATION PRESENTATIONS

### 4th GRADE

We work with 4th grade teachers in the District assisting them with the Texas state requirements

### 7th GRADE

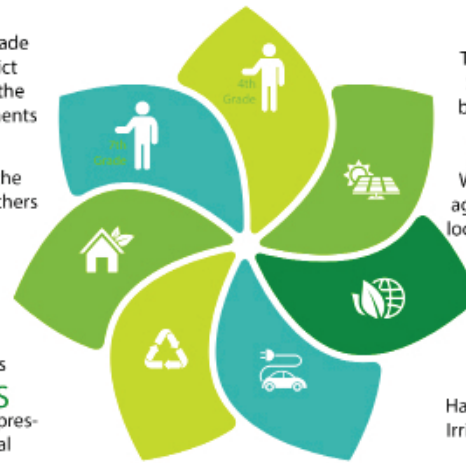
We also work with the local 7th grade teachers to assist them

### AgriLife

We work with the AgriLife Extension Agents in Burleson and Milam Counties

### SERVICE CLUBS

We are available to present programs at local service clubs



### SUMMIT

The annual Groundwater Summit has some of the best speakers in the state

### LOCAL GROUPS

We offer programs for all ages that are available for local libraries or anywhere your group meets

### OUTREACH

We offer classes at our facilities on Rainwater Harvesting, Landscaping, Irrigation Alternatives for the Rainfall Harvester



Left is a photo of the kit students receive and above is just one of the shipments sent to schools in our District.

## Facebook & Twitter

Our Facebook page has 561 followers.

Our Twitter account has 394 followers.

## WebSite

The Website is always a big part of our education for citizens and landowners.

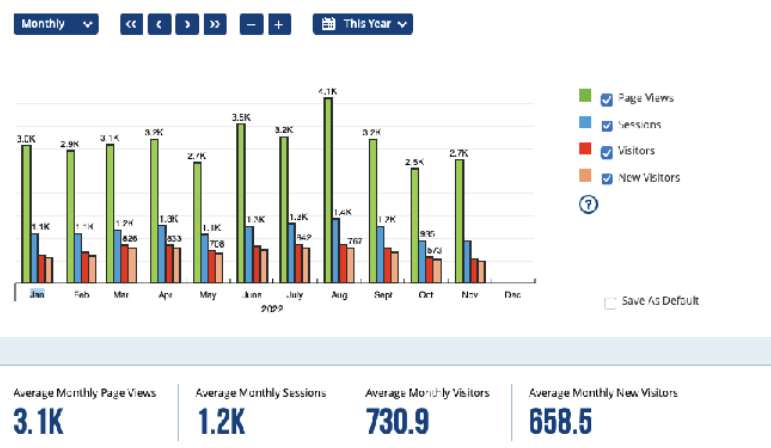
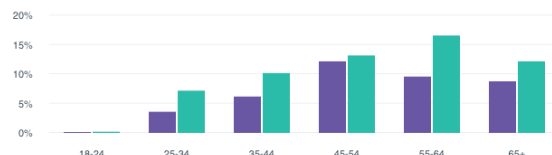
In 2022 we had a total of 34,224+ views during 12,769+ sessions from 7,244+ visitors.

This yields an average daily page view count of 102.5

### Audience

#### Age and Gender

Men 40.30%  
Women 59.70%





# POSGCD GROUNDWATER CONSERVATION GRANTS

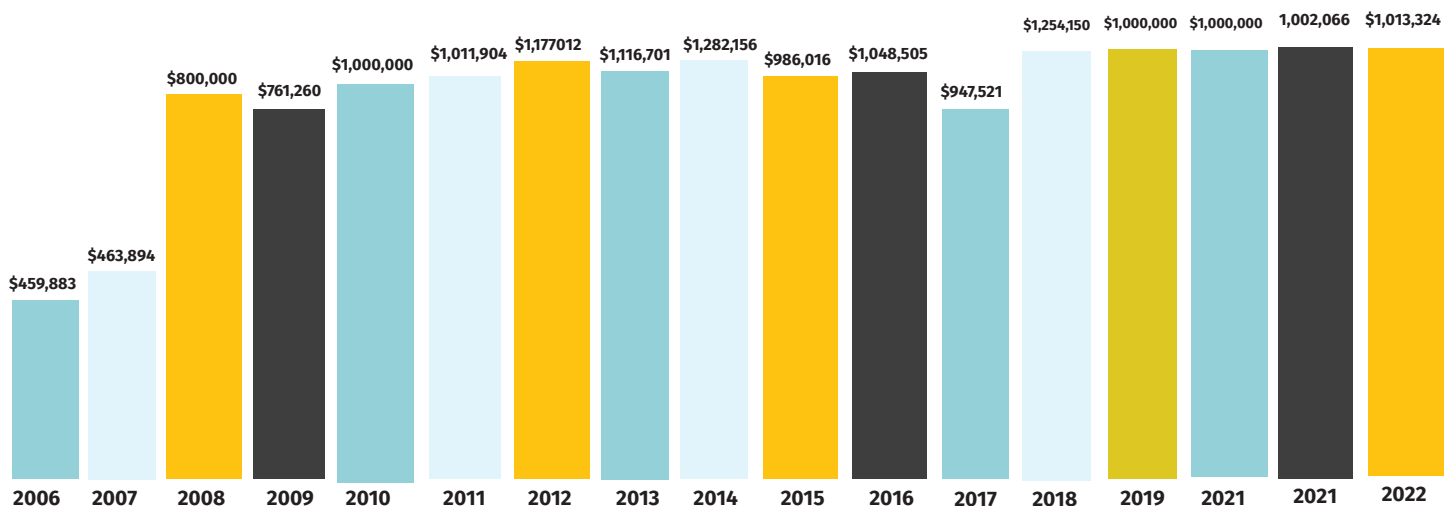
Post Oak Savannah Groundwater Conservation District has had Grant programs in the District since 2006, just 4 years after it was formed. The Board of Directors realized that one of the best ways to encourage people in the District was to help with the expense. The objective of this program is to obtain the active participation and cooperation of local water utilities in the funding and successful completion of programs and projects that will result in the conservation of groundwater in the District. The qualifying water conservation projects and programs will include, as appropriate, projects that result in the conservation of groundwater and reduce the loss or waste of groundwater. The first year, 2006, the District helped five different applicants, the city of Rockdale, city of Somerville, Milano WSC, Birch Creek WSC and Lyons WSC to remove and improve obsolete and deteriorating water lines for a total of \$459,883.

Since that first year, the program has continued through the present day. We have helped over 25 different local water utilities for a total of over \$16,311,070.17. We estimate that we have saved over 173.55 Million gallons of water per year and growing.

## LOCAL WATER UTILITIES GROUNDWATER CONSERVATION GRANTS

**Total for 2022**

**\$1,013,324**



**Total for the years 2006 - 2022 \$16,311,070.17**

## GROUNDWATER WELL ASSISTANCE PROGRAM (GWAP)

On January 9, 2018, the Board of Directors adopted the POSGCD Groundwater Well Assistance Program (GWAP). This program was created to assist well owners whose wells are projected to experience water level declines in their wells below the pump during normal operations as a result of groundwater production in GMA 12.

**In 2022 45 wells were assisted. See table 6**

## WELL PLUGGING GRANT PROGRAM

See Table 5

There is grant money available from Post Oak Savannah GCD that will pay 100% of the cost to plug a landowners abandoned well, up to \$2,500. An abandoned well is a direct conduit to the aquifer and could be a pollution source. Landowners are responsible for plugging them up, but Post Oak Savannah GCD can help with the cost.

**In 2022 POSGCD assisted landowners to plug 2 qualified wells for a total of \$ 3,600.**

## Investigations

Upon receiving news of water from the Vista Ridge Project being discharged into Mud Creek on the north side of San Antonio on June 11, 2020, the District began a due diligence investigation lasting 10 months that resulted in securing information from many sources. During the investigation the District considered Chapter 36, Texas Water Code, the District's Rules and Management Plan, information from the Texas Commission on Environmental Quality, and information gleaned from collaborative research and discussions with Vista Ridge, the permittee of the discharged water, and the San Antonio Water System, the end user of the water.

At the end of that effort a resolution agreement was signed between the District and Vista Ridge, and Blue Water Vista Ridge, together with SAWS as a third party beneficiary providing the District with improved monthly reporting from EPCOR, the operating agent of the permittee as well as \$105,000 being forwarded to the District for use in the Groundwater Well Assistance Program and \$1,000 for administrative fees.

The additional reporting information is available to the public on the District's website under the "Vista Ridge Dashboard" and is updated monthly. Vista Ridge and its contractors have also committed to amend their policies to prevent such an event in the future, and the District amended its Rules to provide strengthened definitions to deter similar future events.

For more information see our website at: <https://posgcd.org/vista-ridge-dashboard/>

## Summary Report of POSGCD Grants Awarded 2022

2022	Burleson Co. MUD #1	Replace Obsolete Water Lines	\$317,550.00
	Southwest Milam WSC	Replace Obsolete Water Lines	\$254,430.00
	Clay WSC	Correct Water Quality Issues	\$250,000.00
	Deanville WSC	Replace Obsolete Water Lines	\$71,044.00
	Milano WSC	Replace Obsolete Water Lines	\$35,000.00
	City of Somerville	Complete Tie-in for Water Lines	\$85,300.00
			<b>Total: \$1,013,324.00</b>

**Table 1 Non-Exempt Permits Issued During 2022 Calendar Year**

				Annual Report - Non-exempt Permits			
Well District Id	Permit Permit Number	Permit Amount By #	Permit Original	Well Aquifer	Well Status	Well Name	Well Owner Company Name
PD-011804	POS-D&O-0282	149,959.8	05/24/2022	Sparta	Active	Lyons Farm Pond 2 - Replacement	
PD-011824	POS-D&O-0283	3,682.7	04/21/2022	Clear City	Pending	Backup Well	
PD-011821	POS-D&O-M-0025a	10	04/21/2022	Simsboro	Active	Watson	Jay Don Watson Trust
PD-011822	POS-D&O-M-0025b	10	04/21/2022	Carriazo	Active	Dean	Jay Don Watson Trust
PD-011827	POS-D-0055	55	04/28/2022	Boklaw	Drilled	Murphy	
PD-011835	POS-D&O-0284	179,959.6	05/10/2022	Brazos River Alluvium	Pending	Drymalla	
PD-011870	POS-D-0056	10	05/11/2022	Hopper	Active	Gauss	4J Energy Ranch
PD-011837	POS-D&O-0285	39,959.9	05/11/2022	Simsboro	Pending	4J	4J Energy Ranch
PD-011838	POS-D&O-0286	49,959.6	05/11/2022	Simsboro	Pending	Harbison	4J Energy Ranch
PD-009786	POS-D-0057	1	05/23/2022	Carriazo	Active	Harbison	
PD-011888	POS-O&G-0268	72,459.9	07/05/2022	Carriazo	Active	Ferguson WL#1	Chesapeake Operating, LLC
PD-011889	POS-O&G-0269	72,459.9	07/05/2022	Carriazo	Active	Ferguson WL#2	Chesapeake Operating, LLC
PD-011870	POS-O&G-0270	72,459.9	07/05/2022	Carriazo	Active	Bruce Alford WW#1	Wildfire Energy LLC
PD-011869	POS-O&G-0271	72,459.9	07/05/2022	Carriazo	Active	Bruce Alford WW#2	Wildfire Energy LLC
PD-011871	POS-O&G-0272	72,459.9	07/05/2022	Clear City	Active	Royce Clark WW#1	Wildfire Energy LLC
PD-011872	POS-O&G-0273	72,459.9	07/05/2022	Carriazo	Active	Royce Clark WW#2	Wildfire Energy LLC
PD-011886	POS-O&G-0274	72,459.9	07/05/2022	Clear City	Active	Tietjen WL #1	
PD-011887	POS-O&G-0275	72,459.9	07/05/2022	Carriazo	Active	Tietjen WL#2	
PD-009539	POS-O&G-0276	72,459.9	07/05/2022	Carriazo	Active	Macek WL#1	Willchase Resource Management Co, LLC
PD-011876	POS-D-0058	99,959.9	07/07/2022	Clear City	Pending	D. Brinkman #1	
PD-011877	POS-D-0059	99,959.9	07/07/2022	Sparta	Pending	D. Brinkman #2	
PD-011875	POS-D-0070	39,959.9	07/07/2022	Carriazo	Inactive	Zboril #1	
PD-011879	POS-D-0071	22	07/19/2022	Clear City	Active	L. Brinkman #1	
PD-011898	POS-D&O-0287	1	07/29/2022		Pending	Louis Smith	Farl Properties LLC
PD-008537	POS-D-0072	10	08/16/2022	Clear City	Active	Browning #2	
PD-011963	POS-LP-0014	1	11/01/2022		Pending	RS-OP-4	SLR Property I, LP
PD-011964	POS-LP-0015	1	11/01/2022		Pending	RS-OP-5	SLR Property I, LP
PD-011965	POS-LP-0016	1	11/01/2022		Pending	RS-OP-6	SLR Property I, LP
PD-011966	POS-LP-0017	1	11/01/2022		Pending	RS-OP-8	SLR Property I, LP
PD-011967	POS-LP-0018	1	11/01/2022		Pending	RS-OP-17	SLR Property I, LP
PD-011968	POS-LP-0019	1	11/01/2022		Pending	RS-OP-18	SLR Property I, LP
PD-011969	POS-LP-0020	1	11/01/2022		Pending	RS-OP-20	SLR Property I, LP
PD-011944	POS-D&O-0289	15.13	12/06/2022		Pending		

## Table 2

### Exempt Well Certificate of Registration Issued During 2022 Calendar

A complete list of these wells with dates are available at our website at <https://posgcd.org/annual-reports/>

## Table 4

### 2022 District Monitoring Wells Measured

A complete list of these wells with dates and water level measurements are available at our website at <https://posgcd.org/annual-reports/>

## Table 5

### 2022 WELL PLUGGING GRANT PROGRAM

05/27/2022	Charles Groom	Well Plugging	\$ 1500
04/27/2021	Blackland Well Service	Well Plugging	\$2,100
Total			\$3,600



**Table 6 Summary Report of POSGCD GWAP SUMMARY 2022**

Date	Invoice Company	District ID	Owner	Acquirer	Amount	Note
1/18/22	Brion Water Wells (CI)	PO-00931	GWAP - Lee Nkard	Cam 20	\$ 5,127.55	
03/04/2022	Brion Water Wells (CI)	PO-011811	GWAP - Jackson	Cam 20	\$ 1,300.00	Attempt to pull pump] Well have to re-drill
03/16/2022	Seigent Water Wells-GWAP	PO-009705	GWAP - Allen Holt	Cam 20	\$ 7,387.74	
07/06/2022	Isolis Pump Shop	PO-005725	GWAP - Craig Parnell	Cam 20	\$ 6,051.00	
03/21/2022	Loehr Drilling	PO-008885	GWAP - Devon Perillo	Cam 20	\$ 5,915.21	
03/22/2022	Isolis Pump Shop	PO-007208	GWAP - Randy Hain - Ranch House	Cam 20	\$ 10,584.00	
04/28/2022	Urban Water Wells (L)	PO-000177	GWAP - L. Nowlin	Cam 20	\$ 4,775.75	
04/07/2022	Loehr Drilling	PO-003865	GWAP - Walter Gibbs	Cam 20	\$ 1,706.80	redrill 47' of supply while waiting for pump
04/08/2022	Isolis Pump Shop	PO-009388	GWAP - Randy Hain - Pasture Well	Cam 20	\$ 10,359.00	
04/19/2022	Loehr Drilling	PO-009415	GWAP - Dennis Spillie	Cam 20	\$ 8,453.54	
4/28/22	Urban Water Wells (CI)	PO-011011	GWAP - Tamara Jackson	Cam 20	\$ 31,809.40	Drill new well
07/11/22	Loehr Drilling	PO-007882	GWAP - Ronda Jackson	Cam 20	\$ 3,006.93	
07/11/22	Loehr Drilling	PO-004965	GWAP - Walter Gibbs	Cam 20	\$ 7,178.82	replaced pump and lowered
07/11/22	Loehr Drilling	PO-009798	GWAP - Berna Brynner	Cam 20	\$ 11,860.00	
07/11/22	Loehr Drilling	PO-000004	GWAP - Linda Carbo	Cam 20	\$ 6,059.50	
07/18/22	Loehr Drilling	PO-000218	GWAP - Fred Burayk	Cam 20	\$ 5,060.32	
07/19/22	J&S Water Wells	PO-011787	GWAP - Randy Hain - Irrigation	Cam 20	\$ 31,522.00	
07/19/22	Loehr Drilling	PO-011034	GWAP - Martha Reed	Cam 20	\$ 6,000.00	
07/20/22	R & R Electric	PO-009788	GWAP - Berna Brynner	Cam 20	\$ 1,582.50	upgrade the wire between the barn and well
07/20/22	Urban Water Wells (L)	PO-000910	GWAP - Charles Stone	Glensboro	\$ 14,705.40	
07/27/22	Seigent Water Wells	PO-011622	GWAP - Jay Don Watson	Cam 20	\$ 3,719.95	
08/20/22	Seigent Water Wells	PO-011621	GWAP - Jay Don Watson	Glensboro	\$ 24,574.69	
07/28/22	Loehr Drilling	PO-008822	GWAP - Larry Rogers	Cam 20	\$ 8,131.75	
7/25/22	WTR, LLC	PO-011080	GWAP - Larry Lane	Queen City	\$ 40,406.00	Drill new well
07/08/2022	Isolis Pump Shop	PO-000470	GWAP - George Sears	Cam 20	\$ 3,486.00	lowered pump 2nd time 1st with D strike over ght
07/14/2022	Brion Water Wells (CI)	PO-008868	GWAP - Don Green	Cam 20	\$ 14,238.79	lowered pump 2nd time 1st with D strike over ght
07/16/2022	Mohrberger Plumbing Services	PO-011885	GWAP - Larry Lane	Queen City	\$ 1,080.00	plumbing to connect line
07/16/2022	Loehr Drilling	PO-005075	GWAP - Tommy Watson	Cam 20	\$ 3,050.00	
07/18/2022	Loehr Drilling	PO-009090	GWAP - John Bane	Cam 20	\$ 3,270.00	
07/18/2022	Loehr Drilling	PO-008281	GWAP - Larry Lane	Cam 20	\$ 1,000.00	1st attempt to pull well
07/21/2022	Isolis Pump Shop	PO-008359	GWAP - Nathan Jryen	Cam 20	\$ 4,800.00	
07/26/2022	Loehr Drilling	PO-008765	GWAP - Luis Howard	Cam 20	\$ 9,767.48	
07/30/2022	Loehr Drilling	PO-009001	GWAP - Bob Christensen	Cam 20	\$ 9,013.80	
08/02/2022	Atlas Electric	PO-011826	GWAP - Larry Lane	Queen City	\$ 1,100.00	run electric to new well
07/04/2022	Loehr Drilling	PO-006405	GWAP - Norman Tell	Cam 20	\$ 599.70	lower pump and level 40' well
07/11/22	King's Pump Service	PO-002217	GWAP - Gino Rao	Hooper	\$ 3,251.19	
07/02/22	Loehr Drilling	PO-006405	GWAP - Norman Tell	Cam 20	\$ 9,510.82	lowered pump 2nd time 1st was without turning model
07/19/22	Loehr Drilling	PO-005176	GWAP - Kevin Nickles	Cam 20	\$ 4,260.00	
07/27/22	Loehr Drilling	PO-000246	GWAP - Leonard Larson	Cam 20	\$ 9,701.70	
07/29/22	Isolis Pump Shop	PO-007079	GWAP - Elena Cordias	Cam 20	\$ 11,325.00	
10/18/22	Loehr Drilling	PO-000688	GWAP - Timothy Woodell	Cam 20	\$ 9,488.25	
10/28/22	J&S Drilling	PO-011381	GWAP - Fred Greco	Cam 20	\$ 7,200.00	
11/20/22	Loehr Drilling	PO-009434	GWAP - Howard Purr	Cam 20	\$ 7,696.95	replacement and 2nd time lowering of pump
12/28/22	Loehr Drilling	PO-008111	GWAP - Gerald Dunklin	Cam 20	\$ 6,433.39	
12/21/22	Loehr Drilling	PO-000280	GWAP - Elaine Ponce	Cam 20	\$ 9,406.18	

	2020	2021 to Date	December 2021
Wells Inspected	47	39	1
Wells Serviced	24	36	0
Total POSGCD Spent	\$76,161	\$233,954	\$0
Total Reimbursed to POSGCD From Vista Ridge & I-130 Projects	\$17,653	\$95,025	\$0

**Total Expense-to-Date including Science and Well Service under GWAP is \$381,413**

### Summary Report of POSGCD GWAP SUMMARY 2022 cont.



No. of Wells Serviced	38
Total Spent on Well Services	\$448,481.11
Average Cost per well	\$9,966.25
Maximum Cost	\$48,438.80
Minimum Cost	\$599.20
Funds Spent on Science	\$12,607.25
Total Funds Committed	\$590,081.90
Total Funds Expended	\$460,977.71
Costs Invoiced by District (Vista Ridge & I130 Leases)	\$72,728.47



## Table 7 Fines

**Enforcement actions during 2021 resulted in 2 fines levied by administrative actions for violations of the District's Rules for a total of \$76,000. For additional information please contact the District offices.**

310 East Ave C  
Milano, TX 76556  
512-455-9900  
admin@posgcd.org  
www.POSGCD.org



**POSGCD**

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