Clearwater
Underground Water Conservation District

Every drop counts!







2024 Annual Report

254.933.0120 https://cuwcd.org/
700 Kennedy Court, Belton TX 76513



District Mission Statement

Develop and implement an efficient, economical, and environmentally sound groundwater management program to protect and enhance the water resources of the District

Clearwater Underground Water Conservation District

Annual Report - Fiscal Year 2024

The Annual Report for Fiscal Year 2024 (FY24) is presented to the Directors of the Clearwater Underground Water Conservation District (CUWCD or District) by May of the following fiscal year. This report summarizes the District's activities and accomplishments during FY24 focusing on administrative tasks, management plan requirements, and miscellaneous activities. Most activities are based on the District's fiscal year; however, information dealing with well registration, permitting, and production are based on the 2024 calendar year.

2023-2024 Board of Directors



Jody Williams	Gary Young	Jim Brown	Leland Gersbach	Scott Brooks
Precinct 3	Precinct 2	At-Large	Precinct 1	Precinct 4

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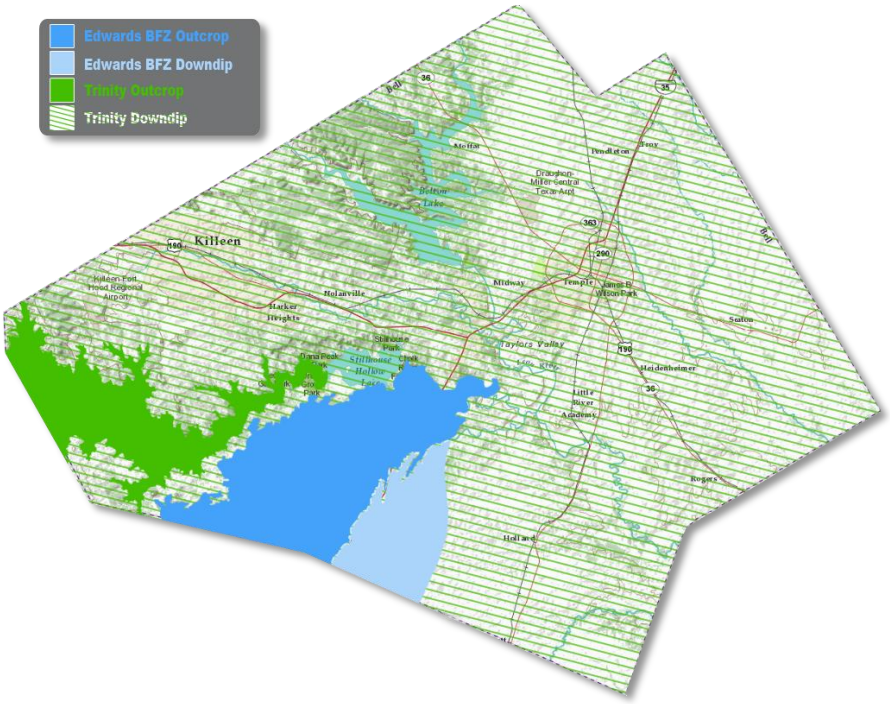
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1. Introduction

The Clearwater Underground Water Conservation District was created by the State legislature in 1989 to manage the groundwater resources of Bell County. The District was approved by the voters of Bell County in August 1999 and opened its doors for business in February 2002. Clearwater's fiscal year runs from October 1 through September 30. This report summarizes the accomplishments and activities of the District during FY24, but reflects registration, permitting, and production figures for the 2024 calendar year.

The District manages groundwater resources from two major aquifers: the Trinity and the Edwards (BFZ) in Bell County, Texas. The Trinity aquifer underlies all of Bell County and is below the Edwards (BFZ), while the Edwards (BFZ) is located in just the southern part of the county.



The Trinity aquifer is comprised of three water-bearing layers within the boundaries of Bell County. These layers are the Upper Trinity (Glen Rose), Middle Trinity (Hensell), and Lower Trinity (Hosston). Other water-bearing formations in Bell County are Alluvium, Austin Chalk, Buda, Edwards Equivalent, Kemp, Lake Waco, Ozan, and Pecan Gap.

2. Administrative Tasks

Administrative tasks include internal administrative activities necessary for a groundwater district to function effectively. The Groundwater Management Plan requirements include the required tasks and activities identified in the District's approved plan. Miscellaneous activities include other activities and programs that have been an integral part of the District but are not required by the Groundwater Management Plan.

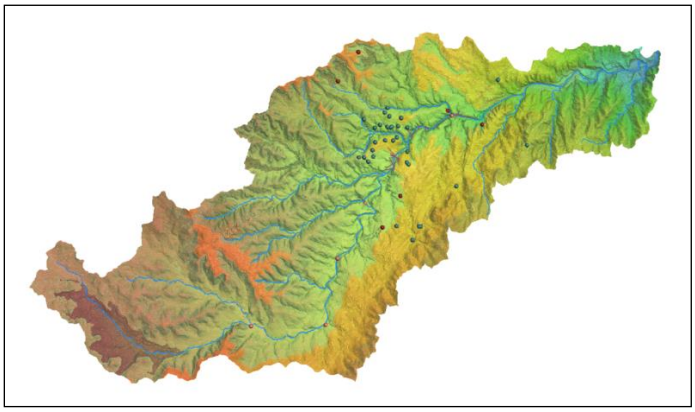
A. Contracts / Agreements

1. Technical Consulting Services

KT Groundwater / Advanced Groundwater Solutions, LLC

In FY24, Clearwater UWCD began a professional services contract with KT Groundwater, who provided administrative and technical reviews of drilling and operating permits as well as investigative analysis of aquifer conditions and well construction complaints. In April 2021, the Board of Directors voted to transition to a professional services contract with Advanced Groundwater Solutions, LLC to represent the District in GMA 8. The professional services contract continued in FY22, FY23 and FY24.

LRE Water, LLC



Salado Creek Watershed from Bell County 3D Groundwater Model

In September 2021, the District began working with LRE Water, LLC to develop a new data management system. This system went live in January 2022. This GIS platform allows the District web-based access to the entire database of wells that has been compiled through the years. All well information is available online to staff as well as the public. Some of the information available includes well latitude and longitude, ground level elevation of the well head, and total depth of well. LRE Water, LLC continues technical support and hosting of the District's online GIS website.

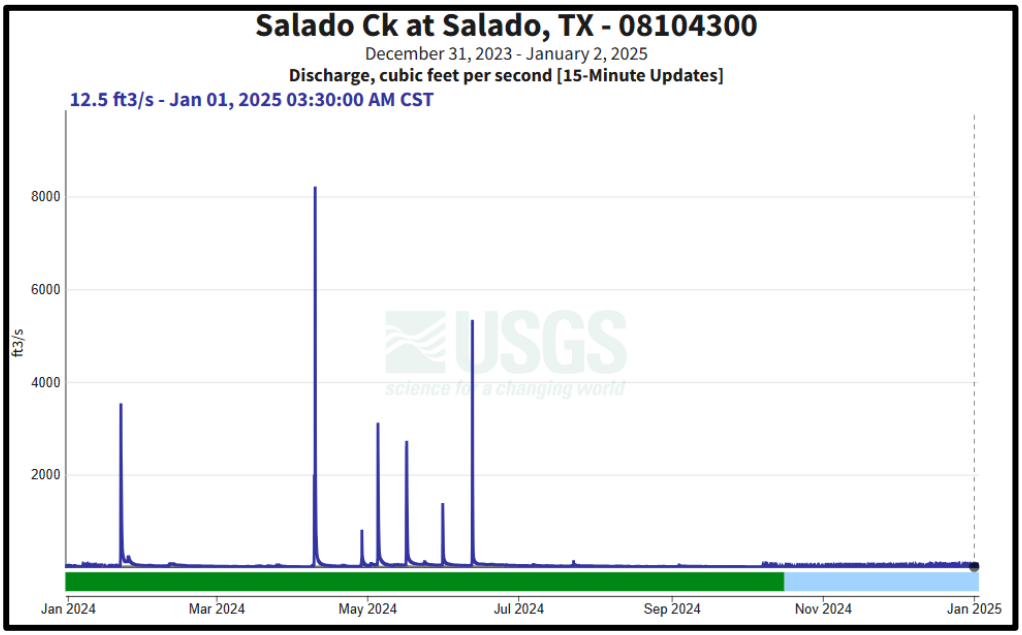
Allan R. Standen, LLC developed our 3D model in 2014 and continued the model updates through 2022. The District was notified in September 2022 of the pending acquisition of Allan R. Standen, LLC by LRE Water, LLC. The District 3D model is now being updated and maintained by LRE Water, LLC.

The 3D model updates include the addition of new geophysical and well drilling logs from throughout the county. Updating our model on an annual basis allows for a more accurate analysis and use of this tool by District staff, consulting hydrogeologists, and landowners for well development and prognosis of the aquifer depths prior to drilling. The tool also continues to assist the District in source aquifer determination of newly drilled wells.

U. S. Geological Survey, Texas Water Science Survey

During the spring of 2013, the USGS gauging system was installed in the Salado Creek, and the process of analyzing the data and recalibrating the system began. Throughout 2024, the system was continuously fine-tuned to ensure the accuracy of the data collected. This gauging system and relationship with the USGS have proved to be an important step forward in monitoring spring flow, both now and well into the future.

The image below shows the 2024 streamflow data taken by the gauging system in Salado Creek. The live data can be found online on our website at http://www.cuwcd.org/salado-creek-gauges/.



Baylor University, Department of Geology

Clearwater UWCD continues to contract with the Department of Geology at Baylor University to conduct research projects. These research projects have provided a deeper understanding of the Northern Segment of the Edwards BFZ Aquifer. An enhanced scientific understanding of the Northern Segment of the Edwards BFZ Aquifer provides insight to CUWCD and community stakeholders, as well as support collaboration between the district and community in future decision-making processes that will be impacted by the Endangered Species Act.

In FY19, the District jointly contracted with Wellntel and Baylor University to deploy a groundwater-level monitoring network in the District to complement ongoing monitoring in the Middle Trinity aquifer. The goal of this program is to gain experience in how the Wellntel technology works to become familiar with the data management and analytical capabilities and to demonstrate how the instrumentation of private wells pumping in the Middle Trinity aquifer can provide insight into the stress experienced by the aquifer, over and above what is being seen by dedicated monitoring wells. This joint effort continued in FY20, FY21, FY22, FY23 and FY24.

In FY23, the District contracted with Baylor University to study the springs and reservoir effects in northern Bell County. This is a 2 year project expected to end in December 2025. The studies the District has funded can be found on our website at http://www.cuwcd.org/aquifer-science/edwards-bfz-aquifer/.

2. Legal Services

The District requests legal consulting services on an as-needed basis and utilizes Lloyd Gosselink Rochelle & Townsend, P.C. (LGRT) for consultation. LGRT was the District's sole advisor during FY24 which included the following issues:

- Research and guidance on permitting issues, spacing issues, rule interpretation, public hearing notices, meeting cancellation notices, conservation easements, and topics allowed for discussion in closed sessions.
- Representation of groundwater districts at Texas Water Conservation Association Groundwater Sub-Committee on Desired Future Conditions.

3. Other Services

Strengthening Partnerships for Governance Efficiency and Collaboration

In 2023 and 2024, Clearwater UWCD worked in collaboration with the Bell County Commissioners Court and the City of Belton to support the development of a new facility that benefits both local governance and historical preservation of archive items for the Bell County Museum. CUWCD worked with the county and city to facilitate the purchase of District land and establish a Memorandum of Understanding (MOU) that laid the foundation for a shared-use building. The building includes a new boardroom designed to accommodate public hearings, board meetings, and District activities, while also providing office space for an additional staff member. The facility became operational in April 2024. This collaboration exemplifies Clearwater's commitment to community engagement, responsible land use, and fostering partnerships that enhance public resources.

Collaborative Partnership to Develop the BELCOR Regional Habitat Conservation Plan

Clearwater UWCD maintains a strong partnership with 13 entities in the development of the BELCOR Regional Habitat Conservation Plan (RHCP), a two-county initiative focused on regional conservation planning. In FY22, these entities formalized their collaboration through a local agreement to pursue and ultimately received a Section 6 pass thru grant from the U.S. Fish and Wildlife Service and Texas Parks and Wildlife. As part of this effort, Dirk Aaron was appointed Project Manager—an appointment approved by the CUWCD Board of Directors—to oversee grant management and coordination with Bell County Judge David Blackburn and Blanton & Associates (who have been acquired by ICF).

Additionally, CUWCD played a critical role in supporting Pete Diaz's work on the Salado-Salamander Species Assessment. From 2015 to 2023, CUWCD directly funded Diaz's efforts before assisting him in securing formal funding through the Texas Comptroller's Office. Diaz, a former U.S. Fish and Wildlife Service employee, worked under a reimbursable task order funded by CUWCD during this period.

CUWCD remains committed to working with all involved entities to advance the goals of the BELCOR RHCP and ensure effective conservation planning in the region as the effort moves into the final phase of the future incidental take permit in 2025-2026.

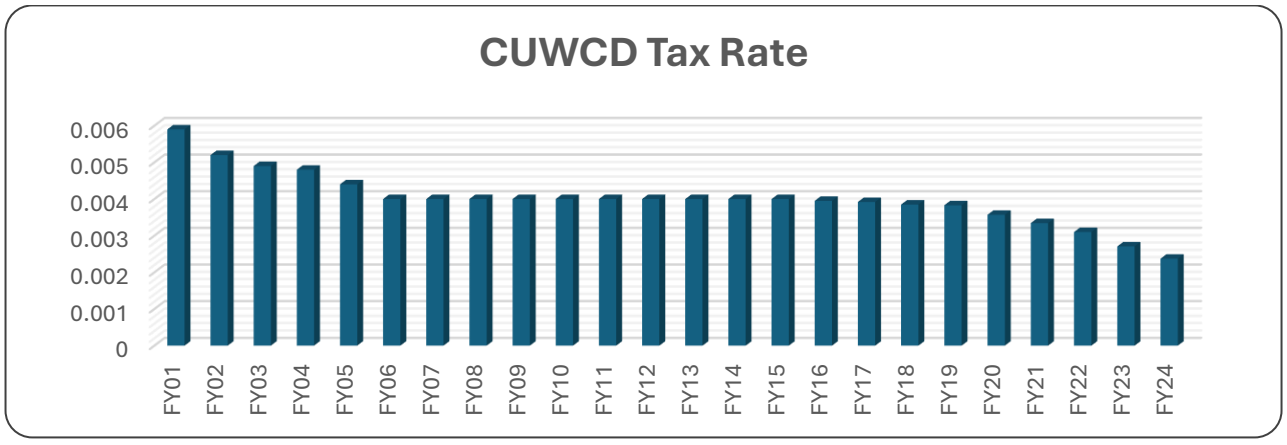
Ludwick, Montgomery & Stapp, P.C.

An annual audit of the District's finances is required by Chapter 36.153 of the Texas Water Code to determine the financial condition of the District. Ludwick, Montgomery & Stapp, P.C., Certified Public Accountants located in Temple, Texas provides the annual financial audit for the District. For more information, see section *B.2 Financial Audit* later in this report.

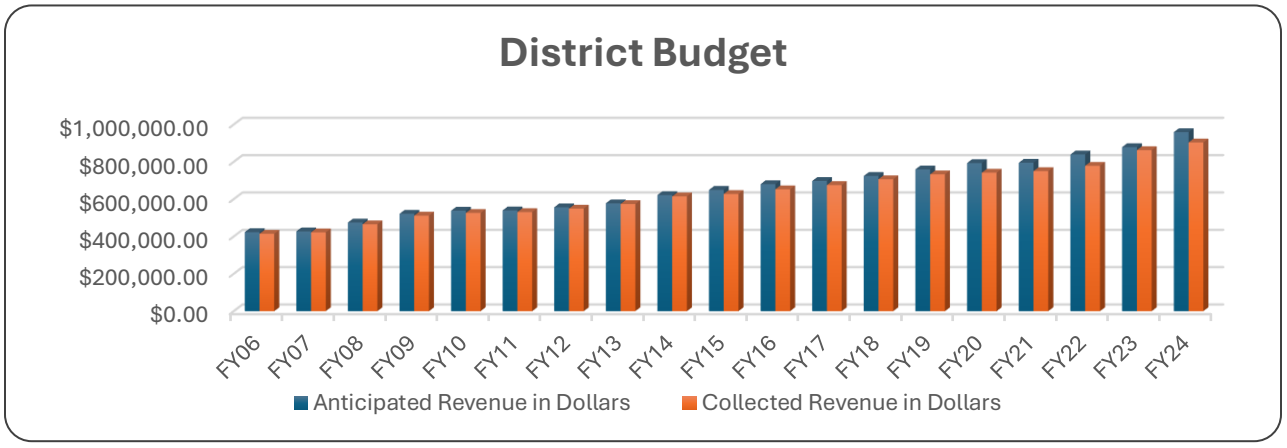
B. Financial Items

1. Budget and Tax Rate

The adopted tax rate for FY24 was $0.002372/$100 valuation. The Board voted to lower the tax rate for the nineth consecutive year. Since the inception of the District, the Board has lowered or kept the same tax rate. Three workshops (June, July, and August) were held in 2023 to develop an operating budget for the upcoming fiscal year (FY24) and to set the corresponding ad valorem tax rate.



The original budget for FY24 was $959,331.00 and actual income collected was $903,724.19. The District moved an additional $50,000 from the reserve fund to fund the new board room, an additional $21,100 to fund the storage building repairs, and received a refund check in the amount of $25,142 from the ASR project. The adjusted income for FY24 was $999,966.19. The total expenditures for FY24 were $928,328.03. The gross return to fund balance was $71,638.03.



The approved budget for FY24, along with the schedule of revenues and expenditures is attached as Appendix A.
Online: http://www.cuwcd.org/public-records/cuwcd-budget/

2. Financial Audit

An annual audit of the District's finances is required by Chapter 36.153 of the Texas Water Code to determine the financial condition of the District. Ludwick, Montgomery & Stapp, P.C., Certified Public Accountant, located in Temple, Texas provided the 2024 annual financial audit for the District. The audit began immediately at the closing of FY24 on September 30, 2024, and they concluded their audit and submitted their findings to the District in February 2025.

See Appendix B for the FY24 Financial Audit.
Online: http://www.cuwcd.org/public-records/audits/

C. Miscellaneous Policies / Issues

1. District Rule Amendments

The Board of Directors amended the District Rules at the beginning of FY24 on October 11, 2023 in accordance with Chapter 36 of the Texas Water Code requiring public notice, a public hearing, and Board approval. The Board of Directors voted to amend the rules based on scientific evidence that validated a need for such changes in aquifer management, policy and application.

See the website for complete District Rules: http://www.cuwcd.org/regulatory-program/district-rules/

2. Bylaws Revised

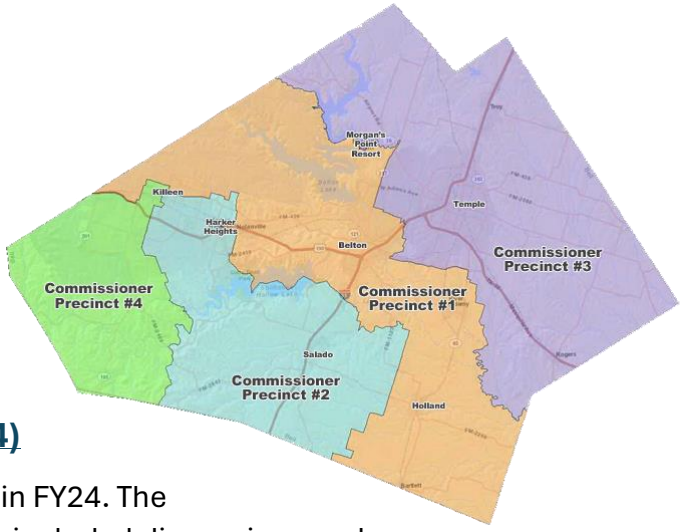
At the time the District Rules were amended in 2016, the rules that addressed the operations of the District were deleted and moved to the Bylaws. The Board of Directors approved the amendments to the Bylaws by resolution on April 13, 2016. No revisions were made to the Bylaws during FY24.

See the website for complete Bylaws: http://www.cuwcd.org/district-overview/bylaws/

D. Board of Directors

1. District Officers

The Board of Directors, per District bylaws, elect officers annually at the first board meeting of the calendar year. The FY 2024 Officers are identified below, along with the office they held and precinct they represent. The map to the right is a map of the Bell County Commissioner Precincts, which also serves as the precinct boundaries for the District.



Leland Gersbach, President – Precinct 1

Jody Williams, Vice President – Precinct 3

Gary Young, Secretary – Precinct 2

Scott Brooks, Director – Precinct 4

James Brown, Director – At-Large

2. Meetings – FY24 (Oct 2023-Sept 2024)

The Board of Directors held 12 Board meetings in FY24. The Workshops and regular Board meeting agendas included discussions and presentations on the topics listed below.

- Presentations by USGS Water Science Group
- Presentations by Baylor University regarding the current status of the Edwards (BFZ) Aquifer and the Trinity Aquifer
- Legislative updates
- Conduct hearings on drilling and operating permits
- Salado Salamander issues as it pertains to CUWCD's governance of groundwater

All board meeting agendas, minutes, and financial reports can be viewed online by visiting http://www.cuwcd.org/public-records/.

E. Groundwater Management Plan

Texas Water Code, Chapter 36.1071-36.1073, states the Groundwater Management Plan (GMP) must be reviewed and readopted every 5 years by all GCDs in Texas. The plan is then subject to approval by the Texas Water Development Board (TWDB). Clearwater's Initial Groundwater Management Plan was adopted by the District Board of Directors on October 24, 2000 and was formally certified by TWDB on February 21, 2001.

Revisions are required every 5 years, even if simply updated with new DFCs. During each revision, the proposed GMP must go through staff evaluation and a minimum of one preliminary review by the Texas Water Development Board (TWDB). The previous GMP was amended to include the

DFC/MAG revisions and was formally readopted by the Board of Directors on January 9, 2019, after the prescribed public hearing on the revised version and was approved by TWDB on March 12, 2019. The District reviewed and updated the current plan in 2020 and had it readopted by TWDB prior to January 13, 2021. The District completed a full review and formally adopted the revised plan on November 11, 2020, and received final approval from TWDB on December 30, 2020.

The District Groundwater Management Plan can be found on CUWCD's website at http://www.cuwcd.org/district-overview/management-plan/.

3. Groundwater Management Plan Requirements

The District Groundwater Management Plan identifies the goals and objectives of the District and provides performance standards and tracking methods to measure the District's effectiveness in meeting these goals. The District goals are mandated by Texas Water Code Chapter 36, Section 36.1071. Although all groundwater conservation districts are subject to these goals, each district chooses how to best implement the goals within their district by establishing its own objectives and performance standards.

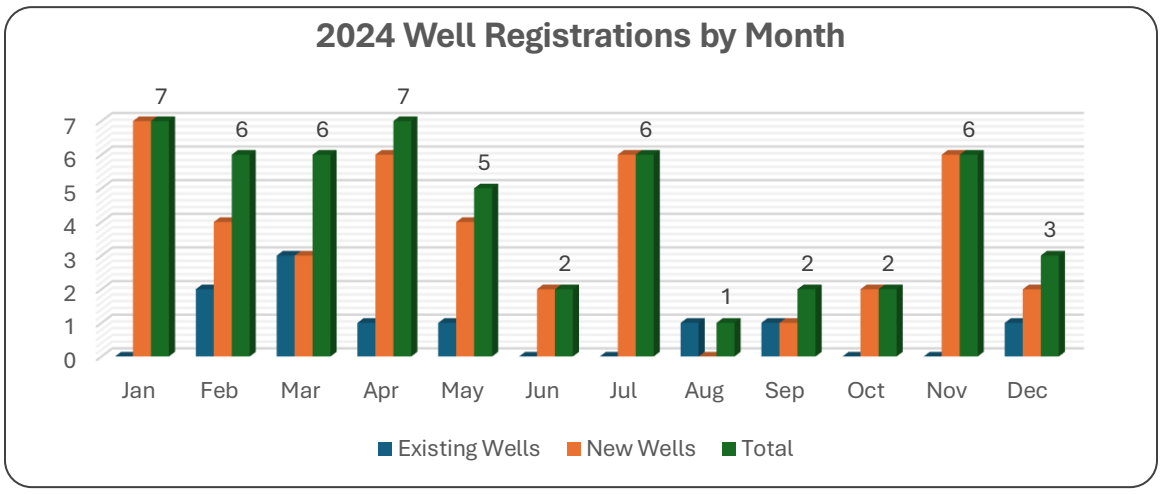
A. Providing the Most Efficient Use of Groundwater

1. Well Registrations

Objective: Each year, CUWCD will require the registration of all wells within the District's jurisdiction.

Objective Satisfied

During the calendar year 2024, 65 wells were registered. The tables below summarize well registration and permitting activity from January 1, 2024, through December 31, 2024. Since 2018, District staff has been conducting a robust search of all TWDB and TCEQ databases to identify wells that have not been properly registered. The District's field technician follows up with landowners to properly register the unregistered wells in the District's database. During 2024, 11 existing wells were registered and 54 new wells were registered.



Appendix C for Master Registration Table

2. Permitted Well Applications

Objective: Each year, CUWCD will require permits for all non-exempt use of groundwater in the District as defined in the District rules, in accordance with adopted procedures.

Objective Satisfied

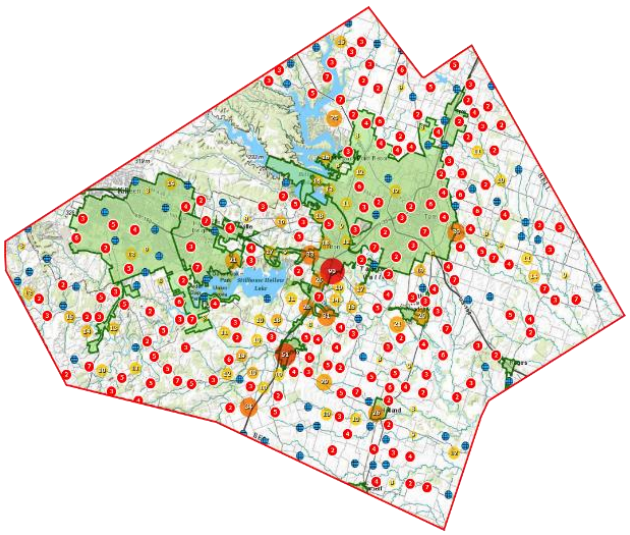
Of the 65 wells registered in 2024, only 12 of those were classified as non-exempt. The Table below summarizes the non-exempt wells or permits that were approved during 2024 and the corresponding permits that were issued where applicable.

Non-Exempt Permitted Well Registrations for 2024 Calendar

Well #	Land Owner	Ac-Ft / Year	Aquifer	Use	Permit Type
N3-24-001P	NS Retail Holdings, LLC	0.12	Lower Trinity	Public Supply	Drilling & Operating
N3-23-004P	Big Elm Solar	0.30	Alluvial	Domestic	Drilling & Operating
N3-24-005P	Michael Linneman	0.30	Edwards BFZ	Domestic	Drilling & Operating
N3-24-006P	Michael Linneman	0.30	Edwards BFZ	Domestic	Drilling & Operating
N3-24-007P	Michael Linneman	0.30	Edwards BFZ	Domestic	Drilling & Operating

3. Groundwater Database

Objective: Each year, CUWCD will maintain a groundwater database to include information relating to well location, production volume, and other pertinent information deemed necessary by the District to enable effective monitoring of groundwater in Bell County.



Objective Satisfied

District GIS Database

In August of 2021, the Board of Directors voted to move the online GIS system to LRE Water, LLC from Halff Associates, Inc. Since September 2021, staff has been diligently working with the database programmers of LRE Water, LLC to develop the new data management system that went live in January 2022 and replaced the Halff Associates, Inc. GIS system.

Every well registered in the District is available on our database with latitude and longitude coordinates and the elevation of the land surface at the well head. With the well information, the District can attach production and permit information along with other pertinent data.

The public maps are available on the District website's homepage, or by going to the following web address and clicking on Public Access Maps: http://www.cuwcd.org/

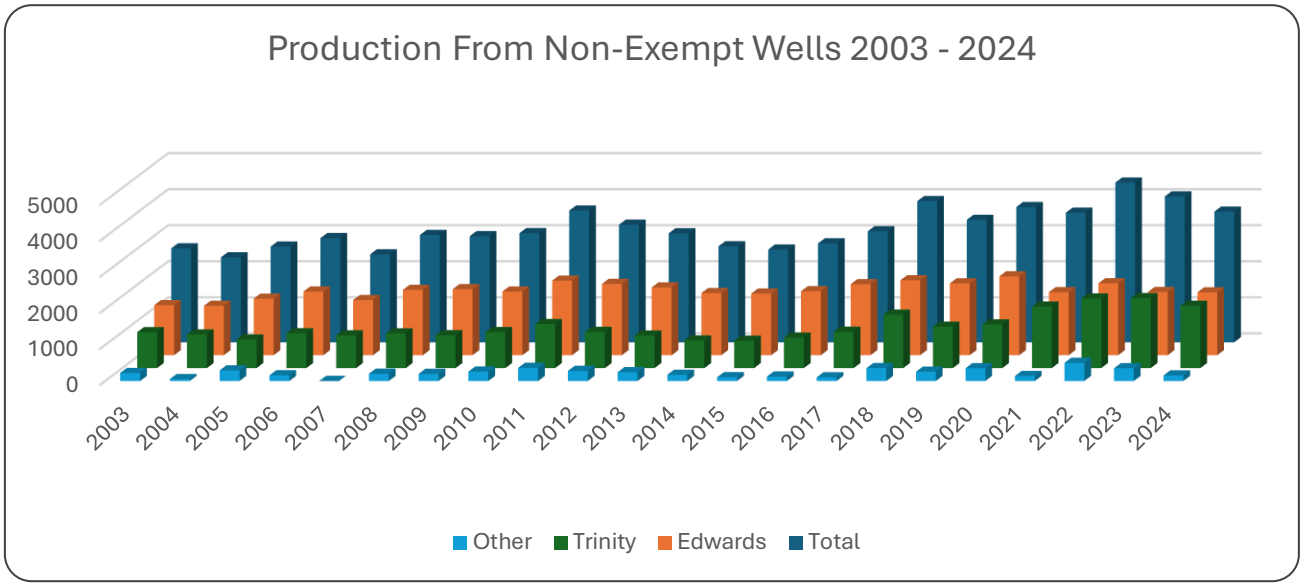
Non-exempt Well Production

The District continued collecting data from non-exempt wells during 2024. Monthly production reports are required by the 5th day of the following month for all wells with operating permits. The table shows the total permitted amount for the non-exempt wells and their total production. In 2024, actual water production figures were significantly lower than the amount permitted. Part of this is due to the issuance of Historic and Existing Use Permits (HEUP). The HEUPs are issued for the full permit amount, regardless of whether the permittee will be using this amount during the year.

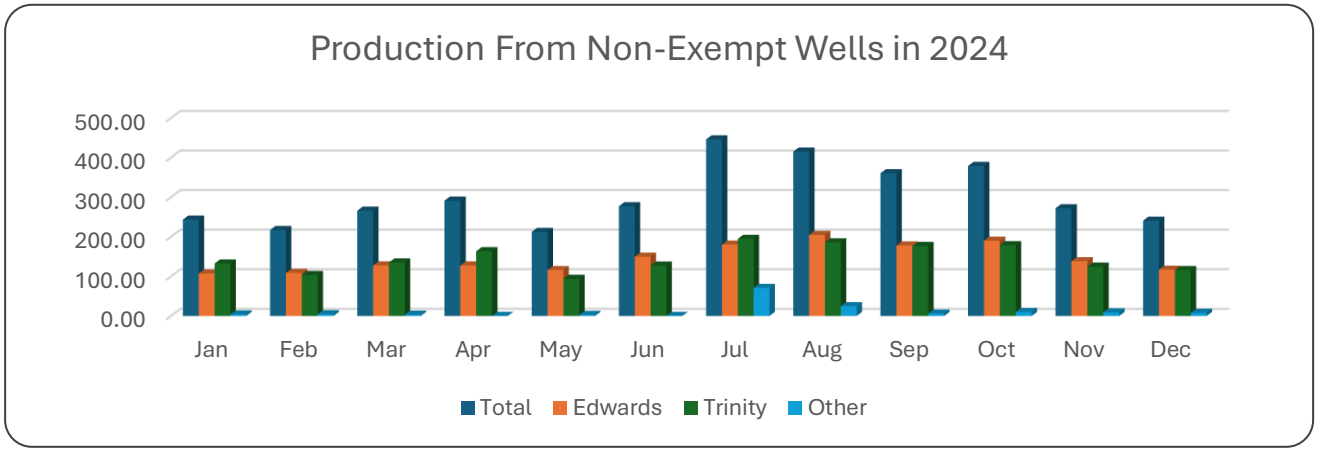
2024 Permitted Wells (Non-Exempt)

Formation	Permitted Ac-Ft	# Permitted Wells	Actual Use Ac-Ft	# Active Permitted Wells	% Usage
Edwards (BFZ)	2,458.04	63	1,744.79	50	70.98%
Trinity (total)	5,113.86	72	1,728.38	57	33.80%
Glen Rose	134.63	7	21.13	6	15.70%
Hensell	470.34	35	44.28	25	9.41%
Hosston	4,508.89	34	1,662.97	29	36.88%
Other Aquifers	579.67	24	155.02	14	26.74%
Total	**8,151.57**	**155**	**3,628.19**	**121**	**44.51%**

The following chart shows 2024 production by month and aquifer. Production was at its highest level during the month of July with a monthly withdrawal of 445.91 ac-ft. Production from other source formations was minimal throughout the year. Production from other source formations is higher during summer months, which reflects agriculture irrigation necessary at that time.



In the second chart, production from 2024 (121 wells) is shown compared to production in years 2003 through 2023. Overall production in 2024 was 3,628.19 ac-ft which is slightly lower than the total production in 2023. The Edwards (BFZ) had a total production for 2024 of 1,744.79 ac-ft, total Trinity aquifer production was 1,728.38 ac-ft, and other formations produced 155.02 ac-ft of water.



See Appendix D for 2024 Well Production Report

Groundwater Transport

During 2024, six entities in Bell County transported groundwater outside the District. A total transport of 11.93 ac-ft. occurred from the Edwards BFZ aquifer and 108.73 ac-ft. from the Trinity aquifer. The District is allowed by state law to charge a transport fee of $0.025/1,000 gallons transported. This generated a total revenue of $982.86 for 2024.

Entity	Aquifer	County	Ac-Ft	Gallons	Fee
Bell-Milam-Falls WSC	Lower Trinity	Falls, Milam, Williamson	62.21	20,269,882	$506.75
Central Texas WSC	Lower Trinity	Falls, Milam, Williamson	43.38	14,137,000	$353.42
East Bell WSC	Lower Trinity	Falls	1.07	348,250	$8.71
Jarrell-Schwertner WSC	Edwards (BFZ)	Williamson	11.93	3,886,000	$97.15
Little Elm Valley WSC	Lower Trinity	Falls	1.91	621,448	$15.54
O&B WSC	Lower Trinity	Falls	0.16	51,730	$1.29
Total			**120.66**	**39,314,310**	**$982.86**

Water Loss in Public Water Systems

The District tracks water loss of all public water supply systems in Bell County that utilize groundwater. Real Losses, also referred to as physical losses, are actual losses of water from the system and consist of leakage from transmission and distribution mains, leakage and overflows from the water system's storage tanks and leakage from service connections up to and including the meter.



Water leaking from a supply line

Bell County Water Loss 2019-2024

Entity	2024 Loss (% of water)	2023 Loss (% of water)	2022 Loss (% of water)	2021 Loss (% of water)	2020 Loss (% of water)	2019 Loss (% of water)
Armstrong WSC	17.00	15.00	12.00	21.00	19.00	19.00
Bell Co. WCID #2	14.70	1.00	11.00	12.00	15.00	14.00
Bell Co. WCID #5	11.69	11.00	3.47	3.00	2.81	24.71
Bell-Milam-Falls WSC	42.00	27.00	36.00	44.00	31.28	41.92
Central Texas WSC	14.00	17.00	19.00	17.00	8.00	9.00
City of Troy	42.20	34.40	22.40	21.98	18.96	21.70
East Bell WSC	10.97	12.30	10.55	14.85	10.74	14.42
Jarrell-Schwertner WSC	20.07	35.00	23.00	38.00	41.00	50.00
Little Elm Valley WSC	33.53	24.73	19.00	26.00	17.54	20.75
Moffat WSC	10.00	23.00	11.00	16.00	10.00	26.00
Oenaville/Bellfalls WSC	7.26	8.46	7.09	7.04	5.54	6.42
Pendleton WSC	23.38	13.81	12.68	18.12	21.51	22.03
Salado WSC	13.83	8.70	2.26	10.20	9.88	8.30
Average % Loss	**20.04**	**17.80**	**14.57**	**19.17**	**16.25**	**21.40**

** Not Reported*

Exempt Well Production

Each year, the exempt wells that have been registered are evaluated. The aquifer from which they are producing is determined and an estimate of their total annual production is calculated. The results are shown below for exempt wells registered through December 31, 2024. Most of the exempt wells in Bell County are used for domestic purposes and their use estimate assumes 106 gallons/person per day (USGS estimate of domestic use outside of a municipal water system) and 2.76 persons/household (U.S. Census Bureau, Population Estimates Program (PEP) July 1, 2019). The exempt well use estimate factors out all plugged, capped, monitor, and inactive wells in the database.

2024 Exempt Well Production

	Reserved	Estimated Use*	# Wells
Edwards (BFZ)	825 ac-ft	361 ac-ft	855
Trinity	8,66 ac-ft	794 ac-ft	1,617
Other Aquifers	N/A	815 ac-ft	1,553
Total	**1,691 ac-ft**	**1,970 ac-ft**	**4,025**

** Domestic use estimate assumes 106 gallons/person per day (USGS estimate of domestic use outside of a municipal water system) and 2.76 persons/household (U.S. Census Bureau, Population Estimates Program (PEP) July 1, 2019)*

See Appendix E for 2024 Exempt Well Use

Combined Well Production Data

Combining the production from the non-exempt wells with the estimated production from the exempt wells, the following production figures result:

Aquifer	Non-Exempt Well Production (Ac-Ft / Year)	% of Total Permitted	Estimated Exempt Well Production (Ac-Ft / Year)	% of Total Reserved	Total Production (Ac-Ft / Year)	% of Total Available
Edwards (BFZ)	1,744.79	70.98	361	43.76	2,105.79	32.55
Trinity	1,728.38	33.80	794	91.69	2,522.38	27.20
Other Aquifers	155.02	26.74	815	N/A	970.02	N/A
Total	**3,628.19**	**44.51**	**1,970**	**68.30**	**5,598.19**	**29.40**

The previous chart shows that overall, exempt wells account for approximately 67.93% of all the groundwater produced in Bell County. In the Trinity, 90.49% of production is attributed to exempt wells and, in the Edwards BFZ, exempt wells account for 44.24% of groundwater production.

Overall, production from the Edwards BFZ aquifer accounts for 32.77% of total groundwater used in Bell County and the Trinity aquifer accounts for 50.30% of total groundwater used in Bell County.

Modeled Available Groundwater - Analysis of Permits and Exempt Use Reserves (in acre-feet)

Aquifer	MAG Modeled *	Reserved for Exempt	Managed	HEU Permit	Operating Permit	Remaining MAG
Edwards (BFZ)	6,469	825	5,644	2,139.20	318.84	3,185.96
Trinity	9,275	866.37	8,408.63	1,502.60	3,611.26	3,294.77
Paluxy	0	0	0	0	0	0
Glen Rose (Upper)	275	140.37	134.63	61.90	72.73	0
Hensell (Middle)	1,100	548	552	259.30	211.04	81.66
Hosston (Lower)	7,900	178	7,722	1,181.40	3,327.49	3,213.11

** The Modeled Available Groundwater (MAG) is the estimated amount of water available for permitting assigned to Clearwater UWCD by the Executive Administrator of TWDB.*

See Appendix F for the 2024 Edwards and Trinity Aquifer Status Reports

4. Annual Newsletter

Objective: Each year, CUWCD will disseminate educational information on groundwater through publication of a District newsletter, quarterly web news, and website.

Objective Satisfied

Annually, the District publishes a newsletter and mails it to registered well owners in Bell County. In 2024, the total number of newsletters printed were 3,150, with 3,035 copies directly mailed to well owners. The others are handed out to people that come into the office and electronic copies are emailed out to permit holders and other interested parties. The District also sent out 1 quarterly report and 24 informational notices through Mail Chimp.

See Appendix G for Annual Newsletter and quarterly web news.
Online: http://www.cuwcd.org/district-overview/district-newsletter/

B. Controlling and Preventing Waste of Groundwater

Outreach and Education

Objective: Each year, CUWCD will disseminate educational information on controlling and preventing the waste of groundwater focusing on water quality protection through at least one classroom or public presentation to civic organizations and invited opportunities to speak.

Objective Satisfied

District staff speak to any group within our geographical boundaries. In 2024, District staff reached 820 adults and children in Bell County directly through informative presentations and making contact at event booths. Among adult groups, District staff present PowerPoint presentations explaining how the District functions and covers important water topics like conservation and watershed management. For youth, educational strategies include the use of our mobile classroom, school curriculum, and field days. We provide a variety of staff and ambassador-led, hands-on curriculum such as the use of the District's Enviroscape watershed model and rainfall simulator. The District also provides educational handouts and promotional items for kids such as color-changing pencils, rulers, and cups. All handouts are branded with District information and most items have water conservation tips printed on them.

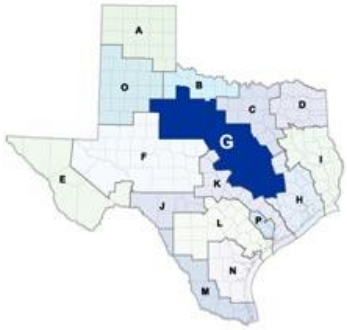
Collaboration with local educational partners result in high quality annual programs and enhanced educational resources for clientele. The District staff continues to expand educational efforts in partnership with Texas A&M AgriLife Extension, USDA-NRCS, USDA–ARS, Texas Parks and Wildlife, Central Texas Master Naturalists, Bell County Master Gardeners, Native Plant Society Tonkawa Chapter, Fort Cavazos Natural Resources Branch, Brazos River Authority, Texas Water Development Board, Big Elm Creek Watershed, Lampasas River Watershed, Nolan Creek Watershed, and the Texas 4-H2O Ambassador program.

See Appendix H for Education and Outreach Events.

C. Addressing Conjunctive Surface Water Management Issues

Regional and Joint Planning Process Participation

Objective: Each year, CUWCD will participate in the regional planning process by attending a minimum of two meetings of the Brazos G Regional Water Planning Group per fiscal year.



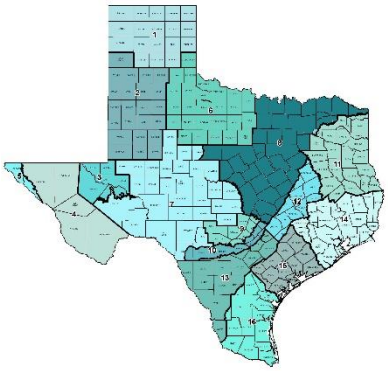
Objective Satisfied

During FY24, District General Manager Dirk Aaron and Asst. General Manager Whitney Ingram attended the scheduled meetings listed below. In 2019, Dirk Aaron was elected by the GMA8 Membership to represent the Groundwater Management

Area as an appointed member of Region G. Dirk also serves on the Brazos G Scope of Work Committee.

October 20, 2023	Attended	February 13, 2024	Attended
January 17, 2024	Attended	March 27, 2024	Attended
May 15, 2024	Attended	August 1, 2024	Attended
September 24, 2024	Attended		

Online: http://www.brazosgwater.org/



In addition to the regional planning group, District General Manager Dirk Aaron, Asst. General Manager Whitney Ingram, and Director Gary Young also attended the meetings for Groundwater Management Area 8. Groundwater Management Areas were created to provide for the conservation, preservation, protection, recharging, and prevention of waste of the groundwater, and of groundwater reservoirs or their subdivisions, and to control subsidence caused by withdrawal of water from those groundwater reservoirs or their subdivisions, consistent with the objectives of Section 59, Article XVI, Texas Constitution.

May 15, 2024	Attended	September 5, 2024	Attended

Online: http://www.gma8.org

D. Addressing Natural Resource Issues Which Impact the Use and Availability of Groundwater, and which are impacted by the Use of Groundwater

Monitoring Water Quality

Objective: Each year, CUWCD will monitor water quality within the District by obtaining water samples from all newly constructed wells and testing the water quality of a minimum 90% of newly constructed wells.

Objective Satisfied

The District has an in-house water quality lab and offers a free screening service to registered well owners. Testing parameters include coliform bacteria; alkalinity; conductivity; total dissolved solids; fluoride; hardness; nitrate; nitrite; pH; phosphate; and sulfate. During FY24, the staff conducted screening on 91 groundwater samples. 21 samples tested were from the Edwards (BFZ) aquifer, 0 samples from the Upper Trinity, 53 samples from the Middle Trinity, 9 samples from the Lower Trinity, and 8 samples from other formations.

The District's lab is intended to provide a general water quality screening only. When a certified test is needed, the District sends properly collected well samples to BioChem located in West, Texas. During FY24, no samples were sent out for certified testing.

A summary of the well screening results are shown in Appendix I.

Objective: Each quarter of the year, CUWCD will monitor the water quality and spring-flow of the Salado Springs Complex and the Robertson springs of Salado in accordance with the necessary agreements under the Endangered Species Act (ESA) and a proposed, soon to be negotiated 4(d)rule with United States Fish and Wildlife Service (USFWS) and such, per Chapter 36.108 GMA8 Joint Planning, to manage to the Edwards BFZ Aquifer DFC.

Objective Satisfied

Quarterly water quality assessments for nitrate, nitrite, and dissolved oxygen of both Salado Spring Complex and groundwater flow from all seven of the downtown springs collectively known as the Salado Spring Complex were completed in 2024 in working directly with Pete Diaz as he conducted the Salado Salamander Surveys.

A summary of the Salado Springs Complex screening results from 2024 is shown in Appendix J.

Objective: Each year, CUWCD, per the agreed-upon five-year reimbursable-task-order with the Texas Fish and Wildlife Conservation Office (TXFWCO), will fund and support the efforts of the assigned research biologist, to assess the status of the Threatened Salado Salamander by systematically monitoring under the federal permit TE676811-9 and state permit SPR-0111-03.

Objective Satisfied

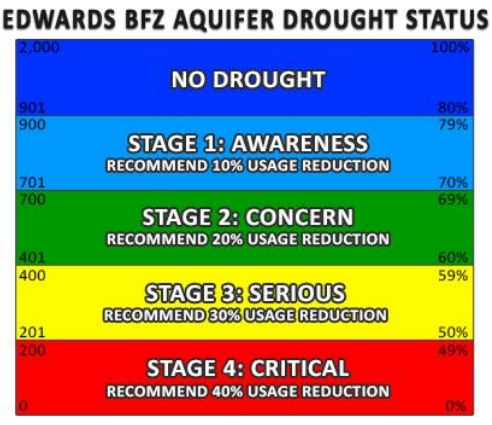
A summary of the formal findings of the assigned research biologist is in Appendix K and on the district website at https://cuwcd.org/salado-salamander/.

TXFWCO's report for FY24 is shown in Appendix K.

E. Addressing Drought Conditions

The District's Groundwater Management Plan requires that the General Manager, Staff, and Board of Directors review the District's drought status on a monthly basis. The decisions to declare drought levels per the District's Drought Management Plan approved on December 17, 2009, are reviewed weekly by the General Manager. The Drought Management plans are designed to reflect conditions of the Trinity and Edwards (BFZ) Aquifers independently of each other based on the specified triggers (PDI and/or Spring Flow).

1. Monitor Drought Conditions in the Edwards Aquifer



Objective: Each month, CUWCD will monitor drought conditions in the Edwards aquifer through the process established in the drought management plan for the Edwards aquifer adopted by the Board of Directors.

Objective Satisfied

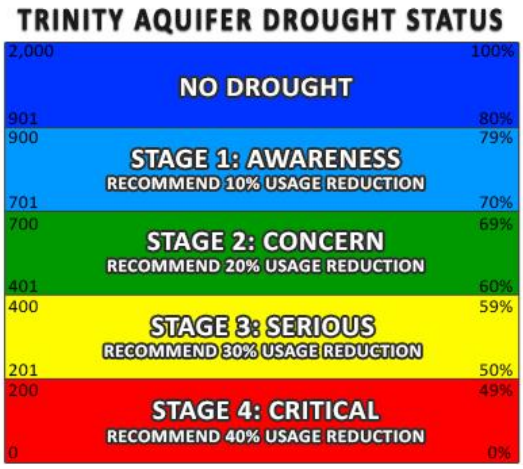
Under the Edwards BFZ Drought Management Plan, a drought stage is triggered when either the Precipitation

Deficit Index (PDI) is less than a drought state trigger condition exceeding 28 consecutive days and shall be reduced or terminated when the PDI is greater than the trigger condition exceeding 42 consecutive days, or the average spring discharge measured via stream flow gauges in Salado Creek fall below the trigger level for the periods described time.
Online: http://www.cuwcd.org/regulatory-program/drought-management/edwards-drought-management-plan/

The chart below shows the declared stages during the fiscal year.

Date	Declared Drought Stage	Salado Creek (Ac-ft/Month)	Salado Creek CFS	PDI Total	PDI % Total
10/10/2023	Stage 3 Drought	331.32	5.568	24.829	75.24
11/7/2023	Stage 3 Drought	352.03	5.916	26.611	80.64
12/1/2023	Stage 3 Drought	260.63	4.38	23.554	71.38
1/2/2024	Stage 3 Drought	504.83	8.48	26.362	79.88
2/11/2024	Stage 1 Drought	2636.04	44.3	30.10	91.21
3/12/2024	Stage 1 Drought	1385.26	23.28	29.034	87.98
4/9/2024	Stage 1 Drought	24468.13	411.2	29.075	88.11
5/6/2024	Stage 1 Drought	40414.07	679.18	32.35	98.03
6/10/2024	No Drought	2349.23	39.48	36.704	111.22
7/2/2024	No Drought	2688.40	45.18	40.173	121.74
8/13/2024	No Drought	1756.56	29.52	44.733	135.55
9/9/2024	No Drought	1256.73	21.12	45.595	138.17

2. Monitor Drought Conditions in the Trinity Aquifer



Objective: Each month, CUWCD will monitor drought conditions in the Trinity aquifer through the process established in the drought management plan for the Trinity aquifer adopted by the Board of Directors.

Objective Satisfied

Under the Trinity Aquifer Drought Management Plan, a drought stage is only to be triggered when the Precipitation Deficit Index (PDI) is less than a drought state trigger condition exceeding 28 consecutive days and shall be reduced or terminated when the PDI is greater than the trigger condition exceeding 42 consecutive days.
Online: http://www.cuwcd.org/regulatory-program/drought-management/edwards-drought-management-plan/

Below are the declared stages during the fiscal year.

Date	Declared Drought Stage	PDI Total	PDI % Total
10/10/2023	No Drought	26.99	81.79
11/7/2023	No Drought	29.87	90.51
12/1/2023	No Drought	26.455	80.17
1/2/2024	No Drought	28.971	87.79
2/11/2024	No Drought	31.517	95.51
3/12/2024	No Drought	31.095	94.23
4/9/2024	No Drought	31.131	94.34
5/6/2024	No Drought	37.521	113.70
6/10/2024	No Drought	42.59	129.09
7/2/2024	No Drought	44.488	134.81
8/13/2024	No Drought	47.395	143.62
9/9/2024	No Drought	47.769	144.75

F. Addressing Conservation, Recharge Enhancement, Rainwater Harvesting, Precipitation Enhancement, and Brush Control, Where Appropriate and Cost-Effective

1. Conservation

Objective: Each year, CUWCD will promote conservation by conducting and hosting educational events with AgriLife Extension Service and Texas 4-H2O Ambassadors on water conservation and by distributing conservation brochures and literature to the public at a minimum of two educational events attended by district staff and directors.

Objective Satisfied

During 2024, the District exceeded this requirement and was able to reach over 820 adults and children in Bell County directly through giving presentations and making contact at event booths where conservation materials were both discussed and handed out. The District also presented the same topics in the ongoing electronic quarterly newsletter and the annual newsletter.

See Appendix H for Education and Outreach Events.

2. Rainwater Harvesting

Objective: Each year, CUWCD will promote rainwater harvesting by posting information on rainwater harvesting on the District website.

Objective Satisfied

The District's Groundwater Management Plan requires the promotion of rainwater harvesting by posting information on the District website. The District satisfied this requirement by including a segment on rainwater harvesting on its website under the Education menu tab along with a link to the Texas A&M AgriLife Extension website and their Rainwater Harvesting Manual. Also included are links to Rainwater Harvesting Contacts and Suppliers and to the Texas A&M AgriLife Extension manual on Rainwater Harvesting Landscape Methods. The District's office has a rainwater harvesting setup for demonstration purposes.

http://www.cuwcd.org/education/rainwater-harvesting/

A copy of the posted information is included under Appendix L.

3. Brush Control

Objective: Each year, the District will provide information relating to brush control on the District web site.

Objective Satisfied

The District's Groundwater Management Plan requires promotion of conservation by providing information relating to brush control on the District website. The District satisfied this requirement by including a segment on brush control on its website under the Education menu tab. For additional information on brush control, links to the Texas A&M AgriLife Extension website are provided. Also included is a link to the Brush Management Fact Sheet produced by Environmental Defense.

http://www.cuwcd.org/education/brush-control/

A copy of the posted information is included under Appendix M.

4. Recharge Enhancement

Objective: Each year, the District will provide information relating to recharge enhancement on the District web site.

Objective Satisfied

The District's Groundwater Management Plan requires promotion of conservation by providing information relating to recharge enhancement, and the District satisfied this requirement by including a segment on recharge enhancement on its website under the Education menu tab. For additional information on recharge enhancement, links to the Texas State Soil and Water Conservation website, and the Leon River Restoration Project website are provided. In addition,

the District has contracted with Baylor University to help gain a better scientific understanding of the Edwards (BFZ) and its recharge zone.

http://www.cuwcd.org/education/recharge-enhancement/

A copy of the posted information is included under Appendix N.

G. Addressing in a Quantitative Manner the Desired Future Conditions of the Groundwater Resources

1. Salado Springs

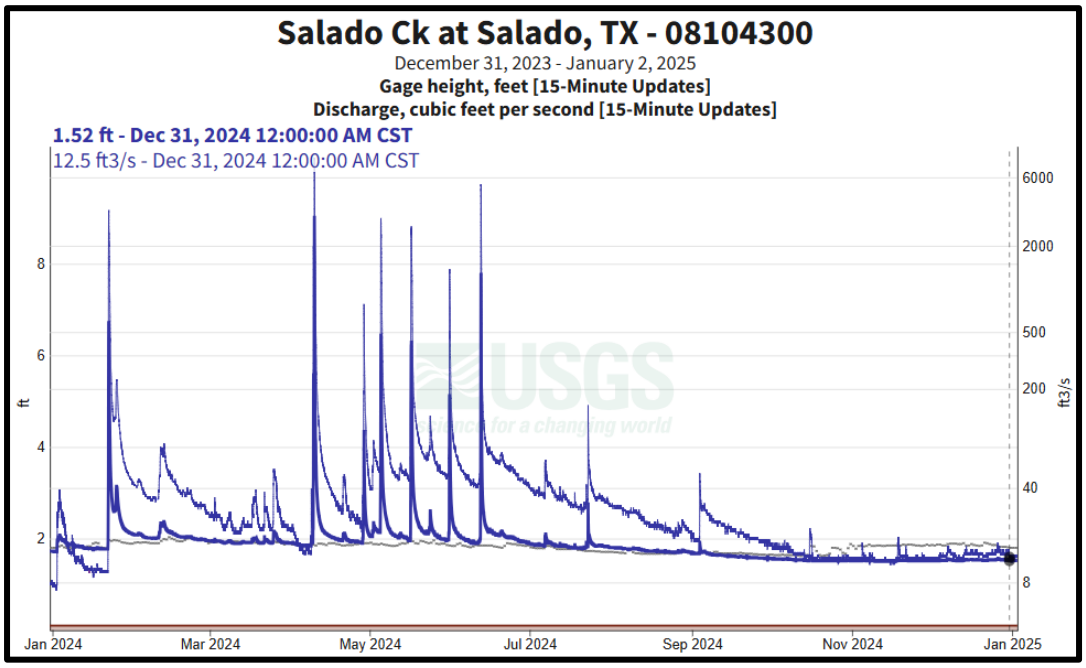
Objective: Each month, CUWCD will operate a gauge system on Salado Creek by contract with USGS Water Science Team in Austin Texas, to accurately record the estimates of the discharge from the Edwards (BFZ) Aquifer at the Salado Springs Complex, Robertson, Big Boiling, Little Bubbly, Side Spring, Critchfield, Benedict and Anderson Springs.

Objective Satisfied

The gauges in the Salado Creek have been an important mechanism to protect spring flow. The District began collecting data from the Salado Creek stream flow gauges during FY08 with the assistance of multiple contractors. During the spring of 2013, an upgraded gauge package by the USGS Water Science Group was installed and the process of analyzing the data and recalibrating the system began. This process was lengthy, but essential to ensure accuracy of the data collected. The new gauges and relationship with the USGS have proved to be an important step forward in monitoring spring flow. The live data can be found online on our website: http://www.cuwcd.org/salado-springs/salado-creek-gauges/

Each month, CUWCD provides a summary of the monthly average discharge rate of Salado Springs and discusses the conservation measures implemented to avoid impairment of the Desired Future Conditions for the Edwards (BFZ) Aquifer established by GMA 8.

The image below captures the spring flow data for the calendar year 2024.



2. (a) Static Water Level Measurements

Objective: Each month, CUWCD will collect at least 15 water-level measurements from the Trinity aquifer monitor wells located in the District.

Objective Satisfied

The Texas Water Development Board (TWDB) typically measures water levels in selected wells in January each year. Clearwater measures water levels in selected wells four times annually to collect more comprehensive data on water levels in Bell County. The District also collects water level measurements from all newly constructed wells in Bell County and from all Wellntel participants. Comparing the water level measurements taken by the District with those taken by the TWDB is sometimes difficult due to differences in measurement procedures and equipment. Clearwater primarily uses a Sonic Wave Meter and only utilizes an e-line if necessary. Large producers are asked to turn the pump off at least one hour prior to the measurement to allow the aquifer levels time to stabilize. TWDB typically uses a steel tape or an airline and does not request the pump to be turned off. During calendar year 2024, the District took water level measurements from 116 wells.

The District has been increasing continuous monitor well locations throughout Bell County, but some wells have very little historical information. The District has 12 continuous monitor wells that are monitored by TWDB. The continuous water level measurements can be viewed on TWDB's website at https://waterdatafortexas.org/groundwater.

A copy of the measurements is included under Appendix O.

2. (b) Changes in Water Levels

Objective: Each year, the Annual Report to the Board of Directors will include a discussion of the change in water levels in each Trinity aquifer layer for which a Desired Future Condition is established by GMA-8.

Objective Satisfied

The District prepares a monthly status report that explains the status of the Trinity aquifers by layer at any given time. The DFC analysis from 2000 to present compares DFC adopted drawdown to actual drawdown figures for Bell County. In addition, potential production from both permitted wells and exempt wells is compared to MAG with figures showing how much actual water is available for permitting. Report can be viewed at https://cuwcd.org/wp-content/uploads/2023/01/20230123_Trinity_Study_BelcoWilcoTravco-Groundwater-Use.pdf.

Refer to Appendix F – Trinity Aquifer Status Report 2024.

4. Miscellaneous Activities

In addition to the Groundwater Management Plan requirements, Clearwater is involved in several miscellaneous activities as follows:

A. Abandoned Wells

The District continues to coordinate with the Texas Department of Licensing and Regulation (TDLR) to identify and investigate reports of abandoned wells. After initial investigation, staff refers abandoned wells to TDLR for further investigation, determination of corrective action, and enforcement. The District did not refer any abandoned wells to TDLR during the calendar year 2024. According to TDLR records, during 2024 a total of 37 wells were plugged in Bell County.

The District continues to work with the Bell County Public Health District for assistance in locating abandoned wells when septic systems are inspected. The District promotes the plugging of abandoned wells by distributing educational information at various conferences and events and hosting well plugging demonstrations with the Texas A&M AgriLife Extension.

B. Bell County Water Symposium

Clearwater UWCD hosted its twenty-third annual water symposium on November 13, 2024 at the Cadence Bank Center in Belton. Event partners included Bell County Engineer's Office, KPA Engineers, LRE Water LLC, Lloyd Gosselink Attorneys at Law, Capital Farm Credit, KT Groundwater, Advanced Groundwater Solutions LLC, ICF, MRB Group, INTERA, Bell County WCID No. 1, Doucet, Collier Consulting, Gamblin Engineering Group, LLC, EnoScientific, Freese and Nichols, and Texas A&M AgriLife Extension-Bell County.

2024 presentation are listed below:

- **Bell County's Unmet Needs for Water**
  Honorable David Blackburn, Bell County Judge
- **The Building Blocks of a Local Alliance: Vision, Policy & Communication**
  Mr. Graham Moore, Executive Director, Alliance Water
- **Panel: Central Texas Water Alliance**
  Moderator: Honorable David Blackburn, Bell County Judge
  Panelists: Senator Pete Flores, District 24; Representative Brad Buckley, District 54; Ricky Garrett, WCID No. 1; Graham Moore, Executive Director, Alliance Water
- **Bell County Groundwater Resources**
  Dirk Aaron, General Manager, CUWCD and Whitney Ingram, Assistant General Manager, CUWCD
- **Communication: The Last Frontier in Science**
  Dr. Hal Neeham, Extreme Weather & Disaster Scientist, Galveston, TX
- **A Tale of Two Trinities**
  Dr. Neil Deeds, INTERA Inc.
- **Cohesion in Water Planning for Rural Water Suppliers: Financial Assistance Programs**
  Scott Galaway, TWDB

Refer to Appendix P for an agenda of the meeting.
Online: http://www.cuwcd.org/education/annual-water-symposium/

C. District Website

The District's website continues to be a public source for both historical records and current information regarding the District. The public can access general documents about the District and Board of Directors, a calendar of events, meeting agendas, press releases, and other water-related educational materials. The website also links well owners to the District's public interface containing property information and well files. The website can be viewed at http://www.cuwcd.org. Below are some highlights of the website available to the public.

- Current Drought Status
- Texas Drought Monitor
- Salado Creek Gauges
- District Rules
- Groundwater Management Plan
- District Newsletter
- Access to online GIS Maps
- Link to TWDB Groundwater Levels
- Link to TWDB Texas Reservoir Levels
- Public Records
- District Forms and Documents
- Educational Resources

5. Summary

Under the direction of the Board of Directors and management under the executive leadership of the General Manager, District staff continued expanding their efforts in developing in-depth aquifer science, enhancing educational outreach to public schools and civic organizations, and refining database management for the District records.

The District highlights many successes in FY24 including the addition of a new Assistant General Manager and opening the doors to a brand-new Boardroom in partnership with Bell County. The District continued to support new collaborations and the advancement of emerging technologies. Consultants worked with the District staff in synergy to build new analytical tools and pursue feasibility studies related to Aquifer Storage and Recovery (ASR).

Collaboration with local educational partners resulted in high quality annual programs and enhanced educational resources for clientele. Clearwater UWCD has maintained positive relationships with Bell County and all cities within Bell County. Educational strategies included the use of our mobile classroom, school curriculum, field days, and informative presentations for civic organizations. Most notably, the annual Bell County Water Symposium boasts the largest attendance to date.

The District is also committed to continuing our efforts to enhance the network of monitor wells in the three layers of the Trinity Aquifer in order to measure drawdown relative to pumping. This allows the Board of Directors to manage the aquifers to the Desired Future Conditions (DFC) rather than simply to the Modeled Available Groundwater (MAG). The District continues to monitor over 120 wells in both the Trinity and Edwards (BFZ) Aquifers, including the addition of 7 cloud-based EnoScientific meters to the Monitor Well Program.

The Board of Directors of Clearwater UWCD officially amended the District Rules (effective October 13, 2023) after investing approximately $1.5 million (since 2014) in advanced scientific endeavors. The rules make significant changes to our permitting process and the protection of landowner rights. Clearwater Directors amended the rules in both a legal and scientific manner. Due to our enhanced understanding, the District has established management zones, limited column pipe sizes depending on the zone, enhanced exempt well spacings, and enhanced tract size limits on non-exempt wells. In addition, we have added remedies for exceptions, waivers, and tract size encumbrances. The new District rules can be found on our website at https://cuwcd.org/wp-content/uploads/2023/10/20231011_CUWCD-Final-Revisions-Rules-.pdf

Appendix A

RECEIVED FOR POSTING
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SHELLEY COSTON
CO. CLK. BELL CO. TX

Clearwater Underground Water Conservation District
Adopted Budget FY2024
8/23/2023

REVENUE	
Application Fee Income	50,000.00
Administrative Fees	500.00
Bell CAD Current Year Tax	837,331.00
Bell CAD Deliquent Tax	10,000.00
Interest Income	60,000.00
Transport Fee Income	1,500.00
Civil Penalties	0.00
Total Income	**959,331.00**
EXPENDITURES	
Administrative Expenses	
Audit	8,200.00
Conferences & Prof Development	6,500.00
Contingency Fund	47,175.00
Director Expenses	7,500.00
Director Fees	12,750.00
Dues & Memberships	5,000.00
Election Expense	0.00
GMA 8 Expenses	29,500.00
Meals	1,000.00
Mileage Reimbursements	5,000.00
Travel & Hotel	5,175.00
Total Administrative Expenses	**127,800.00**
Salary Costs	
Administrative Assistant	59,989.00
Educational Coord/Support Tech	53,561.00
Manager	107,123.00
Assistant General Manager	75,000.00
Part Time/Intern	4,500.00
Office Assistant/Field Tech	50,348.00
Health Insurance	45,204.00
Payroll Taxes & Work Comp	27,552.00
Retirement	12,399.00
Payroll Expenses	565.00
Freshbenies	792.00
Total Salary Costs	**437,033.00**
Operating Expenses	
Bank Service Charges	350.00
Advertisement	4,000.00
Appraisal District	9,000.00
Clearwater Studies	116,030.00
Spring Flow Gage System	16,377.00
GIS Management/Analytics	31,300.00
Computer Licenses/Virus Prtctn	1,908.00
Computer Repairs and Supplies	2,000.00
Computer Software & Hardware	5,000.00
Copier/Scanner/Plotter	6,350.00
Educational Outreach/Marketing	20,500.00
Furniture & Equipment	2,500.00
Legal	40,000.00
Office Supplies	4,500.00
Permit Reviews	50,000.00
Postage	2,875.00
Printing	2,500.00
Reserve for Uncollected Taxes	20,000.00
Subscriptions	1,200.00
Mobile Classroom Expense	2,000.00
Vehicle Expense	5,600.00
Total Operating Expenses	**343,990.00**
Facility Costs	**41,898.00**
Utilities	**8,610.00**
Total Expense	**959,331.00**

For a detailed copy of FY24 Budget, contact CUWCD at 254-933-0120

RESOLUTION AND ORDER
OF THE BOARD OF DIRECTORS OF THE CLEARWATER
UNDERGROUND WATER CONSERVATION DISTRICT
MEETING HELD AUGUST 23, 2023

THE STATE OF TEXAS	§	
	§	**A RESOLUTION AND ORDER**
COUNTY OF BELL	§	
	§	**SETTING ANNUAL TAX RATE**
CLEARWATER UWCD	§	

The Board of Directors of the Clearwater Underground Water Conservation District met in a regular session, open to the public, after due notice, at the Clearwater Underground Water Conservation District, located at 700 Kennedy Court, Belton, Texas, within the boundaries of the District, on the 23th day of August 2023, whereupon the roll was called of the members of the Board of Directors, to wit:

Leland Gersbach	President
Jody Williams	Vice President
C. Gary Young	Secretary
Scott A. Brooks	Director
James Brown	Director

Five (5) of the five (5) Board members were present, thus constituting a quorum.

WHEREUPON, among other business conducted by the Board, Director Scott Brooks introduced the Order set out below and moved for its adoption, which motion was seconded by Director Jody Williams and, after full discussion and the question being put to the Board of Directors, said motion was carried by the following vote:

"Aye": 5; "No": 0; "Abstained": 0; "Absent": 0.

The Order thus adopted is as follows:

WHEREAS, the Board of Directors was authorized by applicable statutory law to levy a sufficient tax to cover all maintenance and operation expenses of the District;

WHEREAS, the Board of Directors reviewed and approved its budget for its fiscal year October 1, 2023, through September 30, 2024, and determined what tax rate should be set to meet such budget requirements;

WHEREAS, the appraisal roll of the District for 2023 has been prepared and certified by the Tax Appraisal District of Bell County and submitted to the District's tax collector; and

NOW, THEREFORE, BE IT ORDERED BY THE BOARD OF DIRECTORS OF THE CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT THAT:

I.

The operation and maintenance tax rate for tax year 2023 shall be $0.002372 per one hundred dollars ($100) of assessed valuation. Be it known that this 2023 tax rate is less than last year's tax rate at $0.002708 per $100 of assessed valuation, but this rate will increase total taxes in Clearwater by 4.03%, or reduce by 5¢ per year on the average appraised value of a residence at $249,753.00.

THIS TAX RATE WILL RAISE MORE TAXES FOR MAINTENANCE AND OPERATIONS THAN LAST YEAR'S TAX RATE.

The Bell County Tax Assessor and Collector shall take all steps necessary and authorized by the law to collect taxes as owed pursuant to this order. Said taxes shall be levied, assessed and collected at the rate of $0.002372 per $100 valuation for 2022 as provided for in the District's enabling act; Chapters 36 Texas Groundwater Water Code, as applicable; and all other applicable laws.

II.

The Board President or Vice President are authorized to execute, and the Secretary or any Assistant Secretary to attest, this order on behalf of the Board of Directors.

PASSED, APPROVED AND ADOPTED this the 23rd day of August 2023.

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

By: _____
Leland Gersbach, Board President (or)
Jody Williams, Board Vice President

ATTEST:

_____
C. Gary Young, Board Secretary (or)
Dirk Aaron, Assistant Secretary

Appendix B

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

Audited Financial Statements

For the Year Ended September 30, 2024

and Independent Auditors' Report

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STRENGTH IN NUMBERS
LMS
LUDWICK, MONTGOMERY & STAPP, P.C.
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INDEPENDENT AUDITORS' REPORT

To the Board of Directors
Clearwater Underground Water Conservation District
Belton, TX

Opinions

We have audited the accompanying financial statements of the governmental activities and each major fund of the Clearwater Underground Water Conservation District, as of and for the year ended September 30, 2024, and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities and each major fund of Clearwater Underground Water Conservation District, as of September 30, 2024, and the respective changes in financial position thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinions

We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards,* issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of Clearwater Underground Water Conservation District, and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about Clearwater Underground Water Conservation District's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of Clearwater Underground Water Conservation District's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about Clearwater Underground Water Conservation District's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and budgetary comparison information on pages 3–7 and 20 be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Management is responsible for the other information included in the annual report. The other information comprises the Texas supplementary information section but does not include the basic financial statements and our auditor's report thereon. Our opinions on the basic financial statements do not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated January 27, 2025, on our consideration of Clearwater Underground Water Conservation District's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of Clearwater Underground Water Conservation District's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering Clearwater Underground Water Conservation District's internal control over financial reporting and compliance.

Ludwick, Montgomery & Stone, PC

Temple, Texas
January 27, 2025

In this section of the annual financial report, we, the managers of Clearwater Underground Water Conservation District (the District), discuss and analyze the District's financial performance. Please read it in conjunction with the independent auditors' report on page 1 and the District's basic financial statements, which begin on page 8.

FINANCIAL HIGHLIGHTS

- The District's net position increased by $67,293 as a result of this year's operations.
- The ending net position was $1,536,036.
- During the year, the District had expenses that were $67,293 less than the 927,393 generated in revenue.
- Total costs of all the District's programs were $860,100.
- The resources available for appropriation were $538 more than budgeted due to an over budgeting of administrative, compensation and benefits, Clearwater studies, facility costs, legal and other operating expenses offset by an over budgeting of revenues.

OVERVIEW OF THE FINANCIAL STATEMENTS

This annual report consists of three parts: (1) Management's Discussion and Analysis (this section), (2) government-wide and fund financial statements, and (3) notes to the financial statements. The government-wide and fund financial statements include the statement of net position and governmental fund balance sheet and the statement of activities and governmental fund revenues, expenditures, and changes in fund balance (on pages 8 and 9). The government-wide and fund financial statements are presented together because the District has only one fund. These provide information about the activities of the District as a whole. They reflect the flow of total economic resources in a manner similar to the financial reports of a business enterprise.

The notes to the financial statements, starting on page 10, provide narrative explanations or additional data needed for full disclosure in the government-wide statements and fund financial statements. This report also contains the budgetary comparison schedule as required supplementary information in addition to the government-wide and fund financial statements themselves.

GOVERNMENT-WIDE FINANCIAL STATEMENTS

The government-wide financial statements are designed to provide readers with a broad overview of the District's finances, in a manner similar to a private-sector business. The government-wide financial statements use the economic resources measurement and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when a liability is incurred regardless of the timing of the related cash flow.

The statement of net position presents information on all of the District's position and liabilities, with the difference between the two reported as net position. The District's net position (the difference between assets and liabilities) provide one measure of the District's financial health or financial position. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position of the District is improving or deteriorating. To fully assess the overall health of the District, however, you should consider nonfinancial factors as well. The analysis of the District's overall financial condition and operations begins on page 8.

GOVERNMENT-WIDE FINANCIAL STATEMENTS (CONTINUED)

The statement of activities presents information showing how the District's net position changed during the most recent year. All changes in net position are reported as soon as the underlying event giving rise to the change occurs, regardless of the timing of related cash flows. Thus, revenues and expenses are reported in this statement for some items that will only result in cash flows in future periods.

These two statements report the District's net position and changes in them.

FUND FINANCIAL STATEMENTS

A fund is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. The District uses fund accounting to ensure and demonstrate compliance with finance-related legal requirements. The District has only one fund, namely the general fund.

The general fund is a governmental fund used to account for essentially the same function reported as governmental activities in the government-wide financial statements. However, unlike the government-wide financial statements, governmental fund financial statements focus on near-term inflows and outflows of spendable resources, as well as on balances of spendable resources available at the end of the year. Such information may be useful in evaluating a government's near-term financing requirements.

The District maintains one general fund in the governmental fund balance sheet and the governmental fund statement of revenues, expenditures, and changes in fund balance.

Because the focus of the general fund is narrower than that of the government-wide financial statements, it is useful to compare the information presented in the general fund with similar information presented for governmental activities in the government-wide financial statements. By doing so, readers may better understand the long-term impact of the government's near-term financial decisions. Both the general fund balance sheets and the general fund statement of revenues, expenditures, and changes in fund balance provide a reconciliation to facilitate this comparison between the general fund and governmental activities. The general fund financial statements are shown in conjunction with the government-wide financial statements on pages 8 and 9.

NOTES TO THE FINANCIAL STATEMENTS

The notes provide additional information that is essential to a full understanding of the data provided in the government-wide and fund financial statements. The notes to the financial statements can be found on pages 10 through 19 of this report.

REQUIRED SUPPLEMENTARY INFORMATION

The budgetary comparison schedule is presented for purposes of additional analysis as required by accounting principles generally accepted in the United States of America. The schedule can be found on page 20 of this report.

GOVERNMENT-WIDE FINANCIAL ANALYSIS

The District implemented GASB 34 during the fiscal year ended September 30, 2004. The following analysis focuses on the Net Position (Table I) and Changes in Net Position (Table II) of the District's governmental fund activities.

GOVERNMENT-WIDE FINANCIAL ANALYSIS (CONTINUED)

Net position of the District's governmental activities increased from $1,468,743 to $1,536,036. Unrestricted net position - the part of net position that can be used to finance day-to-day operations without constraints established by debt covenants, enabling legislation, or other legal requirements was $1,007,586 at September 30, 2024.

The District's total revenues increased by $65,960. The cost of all governmental activities this year was $860,100 compared to $864,458. Therefore, revenues increase and expenses decreased.

Table I
Clearwater Underground Water Conservation District

Net Position

	Governmental Activities 2024	Governmental Activities 2023
Assets:		
Cash	$ 1,024,115	$ 1,023,049
Taxes receivable	21,155	22,628
Accounts receivable	1,000	1,528
Capital assets - net of depreciation	528,450	440,876
Total Assets	1,574,720	1,488,081
Liabilities:		
Current	18,841	19,338
Long term	19,843	-
Total Liabilities	38,684	19,338
Net Position		
Unrestricted	1,007,586	1,027,867
Net investment in capital assets	528,450	440,876
Total Net Position	$ 1,536,036	$ 1,468,743

GOVERNMENT-WIDE FINANCIAL ANALYSIS (CONTINUED)

Table II
Clearwater Underground Water Conservation District

Changes in Net Position

	Governmental Activities 2024	Governmental Activities 2023
Revenues		
Property taxes	$ 820,612	$ 791,897
Permits and other fees	18,797	8,924
Interest and other income	87,984	60,606
Total Revenues	927,393	861,427
Expenses		
Operating expenses	860,100	864,458
Total Expenses	860,100	864,458
Increase (decrease) in net position	67,293	(3,031)
Net position - beginning of the year	1,468,743	1,471,774
Net position - end of the year	$ 1,536,036	$ 1,468,743

FUND FINANCIAL ANALYSIS

The focus of the District's governmental fund is to provide information on near-term inflows, outflows, and balances of spendable resources. Such information is useful in assessing the District's financing requirements. In particular, fund balance may serve as a useful measure of a government's net resources available for spending for program purposes at the end of the year.

As the District completed the current year, its governmental fund, which consists of one general fund, as presented in the governmental fund balance sheet on page 8 reported an ending fund balance of $1,025,115, which is $538 higher than last year's total of $1,024,577. The District's major source of revenue is property taxes. The fund balance represents funds available for operations.

The District's general fund balance of $1,025,115 reported on page 20 differs from the General Fund's budgetary fund balance of $1,024,577 reported on the same schedule. This is principally due to expenses being under budget offset by revenues being over budgeted.

CAPITAL ASSETS

At the end of fiscal year 2024, the District had $528,450 invested in building, land, equipment, and leased equipment, net of accumulated depreciation and amortization. During the year ended September 30, 2024, there were additions of $123,863.

DEBT

The District had no debt during the year or at year end.

ECONOMIC FACTORS AND NEXT YEAR'S BUDGET

The District's board considered many factors when setting the 2025 budget. One of the factors was the appraisal value of property. Additionally, the economy and population growth were considered.

CONTACTING THE DISTRICT'S FINANCIAL MANAGEMENT

This financial report is designed to provide our citizens and taxpayers with a general overview of the District's finances and to show the District's accountability for the funds it receives. If you have questions about this report or need additional financial information, contact the District's business office, Clearwater Underground Water Conservation District, 700 Kennedy Ct., P.O. Box 1989, Belton, TX 76513.

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

Statement of Net Position and Governmental Fund Balance Sheet

September 30, 2024

	General Fund	Adjustments (Note 11)	Statement of Net Position
Assets			
Current Assets:			
Cash and cash equivalents	$ 48,772	$ -	$ 48,772
Temporary investments	975,343	-	975,343
Taxes receivable, net of allowance of $-0-	21,155	-	21,155
Accounts receivable, net of allowance of $-0-	1,000	-	1,000
Total Current Assets	1,046,270	-	1,046,270
Noncurrent Assets:			
Capital assets not being depreciated			
Land	-	29,059	29,059
Capital assets, net of accumulated depreciation:			
Building and equipment, net of	-	480,777	480,777
Right of use assets - leased equipment	-	18,614	18,614
Total Capital Assets, net	-	528,450	528,450
Total Noncurrent Assets	-	528,450	528,450
Total Assets	$ 1,046,270	528,450	1,574,720
Liabilities			
Compensated absences	-	18,841	18,841
Noncurrent liabilities:			
Due within one year	-	4,111	4,111
Due in more than one year	-	15,732	15,732
Total Liabilities	-	38,684	38,684
Deferred Inflows of Resources			
Unavailable revenue - property taxes	21,155	(21,155)	-
Total Deferred Inflows of Resources	21,155	(21,155)	-
Fund Balance			
Unassigned	1,025,115	(1,025,115)	-
Total Fund Balance	1,025,115	(1,025,115)	-
Total Liabilities, Deferred Inflows, and Fund Balance	$ 1,046,270		
Net Position			
Unrestricted		1,007,586	1,007,586
Net investment in capital assets		528,450	528,450
Total Net Position		$ 1,536,036	$ 1,536,036

The accompanying notes are an integral part of these financial statements.

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

Statement of Activities and Governmental Fund Revenues, Expenditures, and Changes in Fund Balance
For the Year Ended September 30, 2024

	General Fund	Adjustments (Note 11)	Statement of Activities
Revenues			
Property taxes	$ 822,084	$ (1,472)	$ 820,612
Permits and other fees	18,797	-	18,797
Interest and other income	87,984	-	87,984
Total Revenues	928,865	(1,472)	927,393
Expenditures			
Administrative	62,865	-	62,865
Amortization: right of use asset	-	5,148	5,148
Capital outlay	123,863	(123,863)	-
Clearwater studies	97,529	-	97,529
Compensation and benefits	359,816	(496)	359,320
Depreciation	-	31,141	31,141
Directors fees	7,350	-	7,350
Educational outreach	19,565	-	19,565
Facility costs	31,326	-	31,326
Finance lease expense	2,415	-	2,415
Legal and professional	21,243	-	21,243
Lease financing principal	3,919	(3,919)	-
Other operating expenses	169,488	-	169,488
Payroll taxes	25,564	-	25,564
Spring flow gauge system	16,300	-	16,300
Utilities	10,846	-	10,846
Total Expenditures	952,089	(91,989)	860,100
Excess of revenues over expenditures	(23,224)	23,224	-
Other Financing Sources			
Issuance of right of use lease liability	23,762	(23,762)	-
Total Other Financing Sources	23,762	(23,762)	-
Net change in Fund Balances	538	(538)	-
Change in net position	-	67,293	67,293
Fund balance/net position:			
Beginning of year	1,024,577	444,166	1,468,743
End of year	$ 1,025,115	$ 510,921	$ 1,536,036

The accompanying notes are an integral part of these financial statements.

1. Nature of Activities

The Clearwater Underground Water Conservation District (the "District") was created in 1989 by the Texas State Legislature and resolution of the Commissioners Court of Bell County, Texas, in order to carry out groundwater management in Bell County. The purpose of the District is to develop and implement an efficient, economical and environmentally sound groundwater management program to protect and enhance the water resources of the District. The District is governed by a five member Board of Directors ("the Board") elected by the qualified voters within the boundaries of the District.

2. Summary of Significant Accounting Policies

The following is a summary of certain significant accounting policies followed in the preparation of the financial statements of Clearwater Underground Water Conservation District.

The District is a governmental entity with its principal office in Belton, Texas from which it oversees groundwater management in Bell County. Principal revenues are property taxes and permit fees. The board of directors constitutes an on-going entity and is the level of government which has governance responsibilities over all activities.

Reporting Entity

The District has developed criteria to determine if the activities of any outside agencies or organizations should be included within its financial statements. The criteria includes the amount of oversight responsibility exercised by the District over the activities of an agency or organization, the scope of public service of an agency or organization, and the nature of any special financing relationships which may exist between the District and an agency or organization. Oversight responsibility includes financial interdependency, selection of the governing authority, designation of management, the ability to significantly influence operations, and accountability for fiscal matters. The District's financial statements include all funds over which the District exercises oversight responsibility. The District does not exercise oversight responsibility over any other reporting entity. Also, the District is not included as a part of any other reporting entity.

Government-wide and Fund Financial Statements

The statement of net position and the statement of activities are government-wide financial statements. They report information on all of Clearwater Underground Water Conservation District. The fund financial statements provide reports on the financial condition and results of operations for one fund category - governmental.

Measurement Focus, Basis of Accounting, and Financial Statement Presentation

The government-wide financial statements use the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of the related cash flows.

2. Summary of Significant Accounting Policies (Continued)

Measurement Focus, Basis of Accounting, and Financial Statement Presentation (Continued)

Governmental fund financial statements use the current financial resources measurement focus and the modified accrual basis of accounting. With this measurement focus, only current assets, current liabilities and fund balances are included on the balance sheet. Operating statements of these funds present net increases and decreases in current assets (i.e., revenues and other financing sources and expenditures and other financing uses).

The modified accrual basis of accounting recognizes revenues in the accounting period in which they become both measureable and available, and it recognizes expenditures in the accounting period in which the fund liability is incurred, if measurable, except for unmatured interest and principal on long-term debt, which is recognized when due. The expenditures related to certain compensated absences and claims and judgments are recognized when the obligations are expected to be liquidated with expendable available financial resources. Clearwater Underground Water Conservation District considers all revenues available if they are collectible within 60 days after year end.

Revenues from local sources consist primarily of permit and other fees and property taxes. These revenues are recognized under the susceptible-to-accrual concept. Miscellaneous revenues are recorded as revenue when received in cash because they are generally not measurable until actually received. Investment earnings are recorded as earned, since they are both measurable and available.

Cash and Cash Equivalents

Cash and cash equivalents includes all short-term liquid investments convertible into cash and includes cash and money market accounts with an original maturity of less than three months.

Taxes Receivable

Taxes receivable are the amount of ad-valorem taxes which have been collected for the District by the various county tax assessor-collectors which were remitted to the District during the ensuing sixty day period. The assessment and collection of these taxes has been handled solely by the counties involved.

Capital Assets

Capital assets, which include office equipment and furniture, are reported in the government-wide financial statements. Assets are recorded at historical cost or estimated historical cost. Capital assets are being depreciated using the straight-line method over the following estimated useful lives:

Equipment	5-15 years
Building and Improvements	10 – 40 years
Right of use assets – leased equipment	5 years

2. Summary of Significant Accounting Policies (Continued)

Leases

Lessee: The District is a lessee for a cancellable lease of a copier. The District recognizes a lease liability and an intangible right-to-use lease asset (lease asset) in the government-wide financial statements.

At the commencement of a lease, the District initially measures the lease liability at the present value of payments to be made during the lease term. Subsequently, the lease liability is reduced by the principal portion of lease payments made. The lease asset is initially measured as the initial amount of the lease liability, adjusted for lease payments made at or before the lease commencement date, plus certain initial direct costs. Subsequently, the lease asset is amortized on a straight-line basis over its useful life.

Key estimates and judgments related to leases include how the Client determines (1) the discount rate it uses to discount the expected lease payments to present value, (2) lease term, and (3) lease payments.

The Client uses the interest rate charged by the lessor as the discount rate. When the interest rate charged by the lessor is not provided, the District generally uses its estimated incremental borrowing rate as the discount rate for leases.

The Client monitors changes in circumstances that would require a remeasurement of its lease and will remeasure the lease asset and liability if certain changes occur that are expected to significantly affect the amount of the lease liability.

Lease assets are reported with other capital assets and lease liabilities are reported with long-term debt on the statement of net position.

Budget

The Board of Directors prepared and formally adopted an annual budget prior to the disbursement of funds.

Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from these estimates.

Fund Accounting

The District reports the following major governmental funds:

General Fund - This is the District's primary operating fund. It accounts for all financial resources of the District.

2. Summary of Significant Accounting Policies (Continued)

Fund Accounting (Continued)

Clearwater Underground Water Conservation District does not have any long-term debt for the year ended September 30, 2024.

In June 1999, the Governmental Accounting Standards Board (GASB) issued Statement No. 34, Basic Financial Statements - and Management's Discussion and Analysis - for State and Local Governments. This statement, known as the "Reporting Model" statement, affects the way the District prepares and presents financial information in addition to requiring the presentation of the Clearwater Underground Water Conservation District's Management's Discussion and Analysis (MD&A). MD&A is considered to be required supplementary data and precedes the financial statements.

GASB 34 provides that special-purpose governments engaged in a single governmental program may combine the fund financial statements and the government-wide financial statements. The District has elected to present its financial statements under this combined approach.

To conform to the requirements of GASB 34, the following changes have been made to the Clearwater Underground Water Conservation District's financial statements:

- Fund balance has been reclassified into the following category of net position: Unrestricted and Net Investment in Capital Assets.
- The balance sheet has been modified to report a statement of net position.
- The balance sheet was adjusted for net capital assets of $528,450 and compensated absences of $18,841 on the statement of net position.
- The statement of revenues, expenditures, and changes in fund balance has been modified to report a statement of activities with operating and non-operating revenues and expenses.
- The statement of revenues, expenditures, and changes in fund balance was adjusted by $31,141 for depreciation, $5,148 for amortization, $496 for decreases in compensated absences and $1,472 for decreases in property taxes.

Deferred Outflows/Inflows

A deferred outflow of resources represents a consumption of net position that applies to a future period and will not be recognized as an outflow of resources (expense) until that future time. A deferred inflow of resources represents an acquisition of net position that applies to a future period and therefore will not be recognized as an inflow of resources (revenue) until that future time.

3. Deposits and Investments

The District is required by Government Code Chapter 2256, *The Public Funds Investment Act*, to adopt, implement, and publicize an investment policy. That policy must address the following areas: (1) safety of principal and liquidity, (2) portfolio diversification, (3) allowable investments, (4) acceptable risk levels, (5) expected rates of return, (6) maximum allowable stated maturity of portfolio investments, (7) maximum average dollar-weighted maturity allowed based on the stated maturity date for the portfolio, (8) investment staff quality and capabilities, and (9) bid solicitation preferences for certificates of deposit.

The Public Funds Investment Act ("the Act") requires an annual audit of investment policies. Audit procedures in this area conducted as a part of the audit of the financial statements disclosed that in the areas of investment practices, management reports and establishment of appropriate policies, the District adhered to the requirements of the Act. Additionally, investment practices of the District were in accordance with local policies.

The Act determines the types of investments which are allowable for the District. These include, with certain restrictions, (1) obligations of the U.S. Treasury, certain U.S. agencies, and the State of Texas, (2) certificates of deposit, (3) certain municipal securities, (4) money market savings accounts, (5) repurchase agreements, (6) bankers acceptances, (7) mutual funds, (8) investment pools, (9) guaranteed investment contracts, and (10) common trust funds.

Additional Contractual Provisions governing deposits and investments are as follows:

The funds of Clearwater Underground Water Conservation District must be deposited and invested under the terms of a contract, contents of which are set out in the Depository Contract Law. The depository bank places approved pledged securities for safekeeping and trust with the District's agent bank in an amount sufficient to protect District funds on a day-to-day basis during the period of the contract. The pledge of approved securities is waived only to the extent of the depository bank's dollar amount of Federal Deposit Insurance Corporation (FDIC) insurance.

At September 30, 2024, the bank balance of the District was $88,664 with $-0- of deposits in excess of FDIC coverage.

3. Deposits and Investments (Continued)

Analysis of Specific Deposit and Investment Risks

GASB Statement No. 40 requires a determination as to whether the District was exposed to the following specific investment risks at year end and, if so, the reporting of certain related disclosures:

a. Credit Risk - Credit risk is the risk that an issuer or other counter party to an investment will not fulfill its obligations. The ratings of securities by nationally recognized rating agencies are designed to give an indication of credit risk. At year end, the District's investments, other than those which are obligations of or guaranteed by the U.S. Government, are related as to credit quality.

   The Clearwater Underground Water Conservation District does not invest in debt securities.

   The State Comptroller of Public Accounts exercises oversight responsibility over TexPool. Oversight includes the ability to significantly influence operations, designation of management and accountability for fiscal matters. TexPool is rated AAA by Standard and Poor's. As a requirement to maintain the rating, weekly portfolio information must be submitted to Standard & Poor's, as well as the office of the Comptroller of Public Accounts for review. TexPool operates in a manner consistent with the SEC's Rule 2a7 of the Investment Company Act of 1940. TexPool uses amortized cost rather than market value to report net position to compute share prices. Accordingly, the fair value of the position in TexPool is the same as the value of TexPool shares.

b. Custodial Credit Risk - Deposits are exposed to custodial credit risk if they are not covered by depository insurance and the deposits are uncollateralized, collateralized with securities held by the pledging financial institution, or collateralized with securities held by the pledging financial institution's trust department or agent but not in the District's name.

   Investment securities are exposed to custodial credit risk if the securities are uninsured, are not registered in the name of the government, and are held by either the counterparty or the counterparty's trust department or agency but not in the District's name.

   At year end, the District was not exposed to custodial credit risk.

c. Concentration of Credit Risk - This risk is the risk of loss attributed to the magnitude of a government's investment in a single issuer. At year end, the District had no positions of 5% or more in the securities of a single issuer.

3. Deposits and Investments (Continued)

The District's undesignated temporary investments at September 30, 2024, are shown below:

	Carrying Amount	Fair Value
TexPool	$ 975,343	$ 975,343
	$ 975,343	$ 975,343

d. Interest Rate Risk - This is the risk that changes in interest rates will adversely affect the fair value of an investment. At year end, the District has a formal investment policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates.

e. Foreign Currency Risk - This is the risk that exchange rates will adversely affect the fair value of an instrument. At year end, the District was not exposed to foreign currency risk.

4. Capital Assets

Capital asset activity for the period ended September 30, 2024 was as follows:

	Cost	Accumulated Depreciation/Amortization	Net
Balance - October 1, 2023	$ 738,540	$ (297,664)	$ 440,876
Additions	123,863	(36,289)	87,574
Disposals	-	-	-
Balance - September 30, 2024	$ 862,403	$ (333,953)	$ 528,450

5. Lease Payable

During August 2023, District entered into a five-year lease agreement as lessees for the use of a copier. As initial lease liability was recorded in the amount $23,762 for the copier during the current fiscal year. As of September 30, 2024, the value of the lease liability was $19,843. The District is required to make monthly principal and interest payments of $528. The lease has an implied interest rate of 4.13%. The District recorded a right of use asset for $23,762 with a useful life of five years. The value of the right of use asset as of the end of the current fiscal year was $18,614 and had accumulated amortization of $5,148.

6. Lease Payable (Continued)

The future principal and interest lease payments as of September 30, 2024 were as follows:

Year Ending September 30,	Principal	Interest	Total
2025	$ 4,111	$ 2,225	$ 6,336
2026	4,649	1,687	6,336
2027	5,257	1,079	6,336
2028	5,826	387	6,213
Total	$ 19,843	$ 5,378	$ 25,221

7. Long-Term Debt

The District has no long-term debt.

8. Risk Management

The District is exposed to various risks of loss related to torts, thefts, damage or destruction of assets, errors and omissions, injuries to employees, and natural disasters. The District purchased commercial insurance to cover general liabilities. There were no significant reductions in coverage in the past year and there were no settlements exceeding insurance coverage.

9. Property Taxes

Clearwater Underground Water Conservation District has contracted with the Tax Appraisal District of Bell County for the assessment and collection of taxes. By September 1 of each year, the rate of taxation is set by the board of directors based upon the valuation of property within the District as of January 1. Taxes are due October 1, and become delinquent after January 31 of the following year.

10. Employee Benefits

a. Annual Leave
Annual leave (vacation) is a benefit provided to eligible, full-time, employees of the District. A full-time employee is one who is regularly scheduled to work thirty to forty hours per week. Annual leave is accrued at eight hours per pay period immediately upon employment but cannot be taken until the employee has reached the one hundred eighty (180) day probationary period. The accrual maximum is twelve days for an employee with up to five years of continuous service. After five years, an employee is entitled to accrue an additional three days for a total of fifteen days per year. An employee may carry-over leave up to a maximum of twenty-four days per fiscal year. Remaining accrued leave is payable up separation. Accrued compensated absences for September 30, 2024 was $18,841.

10. Employee Benefits (Continued)

b. Sick Leave
A full-time employee, as previously defined, is entitled to six days per year. Accrual of sick leave is at four hours prepay period and a full-time employee can accumulate up to twelve days with carry-over. Upon termination of employment, no accumulated sick leave will be paid and therefore, no accrual is recorded.

c. Retirement Plan
The District has established a Governmental 457 Deferred Compensation Plan as their retirement plan for full-time eligible employees. UMB Bank, N.A. is designated as trustee and Security Financial Resources, Inc. is the plan service provider. The District agrees to match employee contributions at 100% of the first 3% and 50% of the next 3% for a maximum match of up to 4.5% depending on the contribution of the employee. As of September 30, 2024, the employer match was $12,392.

11. Litigation

At September 30, 2024, the District was not involved in any litigation.

12. Management Review of Subsequent Events

Management has evaluated subsequent events through January 27, 2025, the date on which the financial statements were available to be issued.

13. Reconciliation to Government-Wide Statements

Total fund balance - total governmental funds	$ 1,025,115
Amounts reported for governmental activities in the statement of net assets are different because:	
Capital assets used in government activities are not financial resources; therfore, they are not reported in the funds.	528,450
Compensated absences are not a current requirement of resources and therefore are not accrued in the general fund.	(18,841)
Long-term liabilities are not due and payable in the current period and therefore not reported in the funds.	(19,843)
Deferred inflows of resources are potential revenue that do not meet the "measurable" and "available" criteria; therefore, it is reported in the funds.	21,155
Total net position	$ 1,536,036

14. Reconciliation to Government-Wide Statements (Continued)

Net change in fund balance - total governmental funds	$	538
Amounts reported for governmental activities in the statement are different because:		
Property tax revenues in the statement of activities that do not provide current financial resources are not reported as revenues in the fund.		(1,472)
Adjustment made to compensated absences		496
Bond and other debt proceeds current finanical resources to governmental, funds, but issuing debt increases long-term liabilitiesin the Statement of Net Position. Repayment of long-term debt principal is an expenditure in the governmental funds, but the repayment reduces long-term liabilities in the statement of net position.		(19,843)
Governmental funds report capital outlays as expenditures; however, in the statement of activities, the cost of those assets is allocated over their estimated useful lives and reported as depreciation expense. This is the amount by which depreciation and amortization of $36,289 was less than the capital outlay of $123,863.		87,574
Change in net position	$	67,293

REQUIRED SUPPLEMENTARY INFORMATION

BUDGETARY COMPARISON SCHEDULE

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

Required Supplementary Information

Budgetary Comparison Schedule - General Fund

For the Year Ended September 30, 2024

	Budgeted Amounts		Actual Amounts	Variance with Final Budget Favorable (Unfavorable)
	Original	Final		
Revenues				
Property taxes	$ 847,331	$ 847,331	$ 822,084	$ (25,247)
Permits and other fees	52,000	52,000	18,797	(33,203)
Interest and other income	60,000	131,100	87,984	(43,116)
Total Revenues	959,331	1,030,431	928,865	(101,566)
Expenditures				
Administrative	106,850	70,468	62,865	7,603
Capital outlay	-	71,100	123,863	(52,763)
Clearwater studies	116,030	106,628	97,529	9,099
Compensation and benefits	409,481	406,481	359,816	46,665
Director's fees	12,750	7,650	7,350	300
Educational outreach	20,500	19,572	19,565	7
Facility costs	41,898	62,322	31,326	30,996
Finance lease expense	-	-	2,415	(2,415)
Legal and professional	48,200	24,186	21,243	2,943
Lease financing principal	-	-	3,919	(3,919)
Other operating expenses	151,083	207,233	169,488	37,745
Payroll taxes	27,552	27,552	25,564	1,988
Spring flow gauge system	16,377	16,377	16,300	77
Utilities	8,610	10,863	10,846	17
Total Expenditures	959,331	1,030,431	952,089	78,342
Excess Revenues Over (Under) Expenditures	-	-	(23,224)	(23,224)
Other Financing Sources				
Issurance of right of use lease liability	-	-	23,762	23,762
Total Other Financing Sources	-	-	23,762	23,762
Net Changes in Fund Balance	-	-	538	538
Fund Balance - Beginning of the Year	1,024,577	1,024,577	1,024,577	-
Fund Balance - End of the Year	$ 1,024,577	$ 1,024,577	$ 1,025,115	$ 538

See independent auditors' report.

TEXAS SUPPLEMENTARY INFORMATION

TSI – 2

CLEARWATER CONSERVATION UNDERGROUND WATER CONSERVATION DISTRICT
TSI - 2: General Fund Expenditures
For the Year Ended September 30, 2024

Personnel expenditures (including benefits)	$ 359,816
Professional fees:	
Auditing	8,169
Legal	13,074
Utilities	10,846
Capital outlay	123,863
Clearwater studies	97,529
Facility costs	31,326
Finance lease expense	2,415
Lease financing principal	3,919
Administrative expenditures	62,865
Directors fees	7,350
Educational outreach	19,565
Spring flow gauge system	16,300
Other expenditures	195,052
Total Expenditures	$ 952,089

See independent auditors' report.

TSI – 3

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

TSI - 3: Temporary Investments

For the Year Ended September 30, 2024

	ID or Certificate Number	Interest Rate	Maturity Date	Balance at End of Year	Accrued Interest Receivable at End of Year
General Fund					
Tex Pool - Investment Pool	449/7935800001	4.9843%	-	$ 482,847	$ -
Tex Pool Prime - Investment Pool	590/7935800001	5.0496%	-	492,496	-
Total - All Funds				$ 975,343	$ -

See independent auditors' report.

TSI – 4

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

TSI - 4: Taxes Levied and Receivable

For the Year Ended September 30, 2024

	Maintenance Taxes
Taxes receivable, beginning of year	$ 22,628
2023 original tax levy	844,484
Less abatements	-
Total to be accounted for	867,112
Tax collections	
Current year	821,961
Prior years	23,996
Total collections:	845,957
Taxes receivable, end of year	$ 21,155
Taxes receivable, by year	
2023	$ 10,208
2022	3,851
2021	2,399
2020	1,854
2019 and prior	2,843
Taxes receivable, end of year	$ 21,155

	2023	2022	2021	2020	2019
Property valuations					
Property valuations, net taxable	$ 35,600,340,607	$ 30,332,466,196	$ 24,999,251,580	$ 22,630,374,553	$20,531,428,738
Tax rates per $100 valuation	$0.00237	$0.00271	$0.00310	$0.00327	$0.00357
Maintenance tax rates					
Total tax rates per $100 valuation	$0.00237	$0.00271	$0.00310	$0.00327	$0.00357
Original tax levy:	844,484	821,429	774,997	740,538	732,972
Percent of taxes collected to taxes levied	97.33%	98.06%	99.60%	98.59%	96.60%

See independent auditors' report.

TSI – 7

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
TSI - 7: Comparative Schedule of Revenues and Expenditures
General Fund - Five Years Ended
For the Year Ended September 30, 2024

	Amounts				
	2024	2023	2022	2021	2020
General Fund					
Revenues					
Property taxes	$ 822,084	$ 793,226	$ 757,692	$ 724,896	$ 716,887
Permits and other fees	18,797	8,924	12,736	24,736	13,866
Interest and other income	87,984	60,606	58,542	807	11,935
Total revenues	928,865	862,756	828,970	750,439	742,688
Expenditures					
Personnel	385,380	324,453	323,054	280,788	278,509
Professional fees	21,243	87,332	75,656	69,403	41,025
Capital Outlay	123,863	-	-	-	-
Clearwater studies	97,529	219,122	108,277	171,082	287,509
Finance lease expense	2,415	-	-	-	-
Lease financing principal	3,919	-	-	-	-
Administrative expenditures	62,865	39,731	25,200	23,918	36,110
Other expenditures	254,875	165,335	185,503	148,555	141,412
Total expenditures	952,089	835,973	717,690	693,746	784,565
Excess (Deficient) revenues over expenditures	$ (23,224)	$ 26,783	$ 111,280	$ 56,693	$ (41,877)
Other Financing Sources					
Issuance of right of use lease liability	23,762	-	-	-	-
Total other financing sources	23,762	-	-	-	-
Net change in Fund Balances	$ 538	$ 26,783	$ 111,280	$ 56,693	$ (41,877)

Percent of Total Fund Revenues				
2024	2023	2022	2021	2020
88.5%	91.9%	91.4%	96.6%	96.5%
2.0%	1.0%	1.5%	3.3%	1.9%
9.5%	7.0%	7.1%	0.1%	1.6%
100.0%	100.0%	100.0%	100.0%	100.0%
41.5%	37.6%	39.0%	37.4%	37.5%
2.3%	10.1%	9.1%	9.2%	5.5%
13.3%	0.0%	0.0%	0.0%	0.0%
10.5%	25.4%	13.1%	22.8%	38.7%
0.3%	0.0%	0.0%	0.0%	0.0%
0.4%	0.0%	0.0%	0.0%	0.0%
6.8%	4.6%	3.0%	3.2%	4.9%
27.4%	19.2%	22.4%	19.8%	19.0%
102.5%	96.9%	86.6%	92.4%	105.6%
-2.5%	3.1%	13.4%	7.6%	-5.6%
2.6%	-	-	-	-
2.6%	-	-	-	-
0.1%	3.1%	13.4%	7.6%	-5.6%

See independent auditors' report.

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

TSI - 8: Board Members, Key Personnel, and Consultants

For the Year Ended September 30, 2024

Complete District Mailing Address:	P.O. Box 1989, Belton, TX 76513
District Business Telephone Number:	(254) 933-0120
Submission Date of the Most Recent District Registration Form: (TWC Sections 36.054 and 49.054)	June 8. 2023
Limit on Fees of Office That a Director may Receive During a Fiscal Year: (TWC Section 36.060)	$9,000

Names:	Term of Office (Elected or Appointed) or Date Hired	Fees of Office Paid for the Year Ended 9/30/2024	Title at Year End
Board Members			
Leland Gersbach	Elected Nov. 2020-2024	$ -	President
Gary Young	Elected Nov. 2022-2026	$ 2,550	Secretary
Jody Williams	Elected Nov. 2020-2024	$ 2,250	Director
Scott Brooks	Elected Nov. 2022-2026	$ -	Director
James Brown	Appointed Mar. 2023 - Nov. 2026	$ 2,550	Director
Key Administrative Personnel			
Dirk Aaron	June 2011	$ 107,123	General Manager
Shelly Chapman	October 2011	$ 59,989	Office Manager
Consultants			
Ludwick, Montgomery, & Stapp, P.C.	July 14, 2021	$ 8,169	Auditor
Lloyd Gosselink, Attorneys at law	2012	$ 61,531	Attorney
Bell County Tax Appraisal District	1989	$ 9,112	Tax appraiser/collector

See independent auditors' report.

STRENGTH IN NUMBERS
LMS
LUDWICK, MONTGOMERY & STAPP, P.C.
CERTIFIED PUBLIC ACCOUNTANTS

1949 SCOTT BOULEVARD
TEMPLE, TEXAS 76504
254.771.0061 - VOICE
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INDEPENDENT AUDITORS' REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS*

To the Board of Directors
Clearwater Underground Water Conservation District

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the governmental activities, each major fund, and the aggregate remaining fund information of Clearwater Underground Water Conservation District, as of and for the year ended September 30, 2024, and the related notes to the financial statements, which collectively comprise Clearwater Underground Water Conservation District's basic financial statements, and have issued our report thereon dated January 27, 2025.

Report on Internal Control over Financial Reporting

In planning and performing our audit of the financial statements, we considered Clearwater Underground Water Conservation District's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of Clearwater Underground Water Conservation District's internal control. Accordingly, we do not express an opinion on the effectiveness of Clearwater Underground Water Conservation District's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

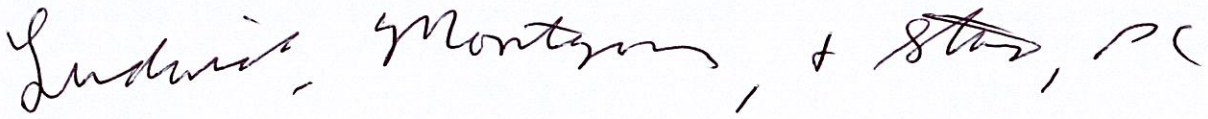
Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that have not been identified.

Report on Compliance and Other Matters

As part of obtaining reasonable assurance about whether Clearwater Underground Water Conservation District's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards.*

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.



Temple, Texas
January 27, 2025

FINANCIAL STATEMENT FINDINGS

There were no findings in the current year.

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
Schedule of Prior Year Findings and Corrective Action Plan
For the Year Ended September 30, 2024

There were no prior year findings.

Appendix C

Well Registration Totals - December 2024

Year	Exempt Wells		Non-Exempt Wells				Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Class 3	Water	Envr	
2002 - 2023	4504	1271	112	42	68	9	26	121	**6153**
2024 - Jan	0	7	0	0	0	0	0	0	**7**
Feb	2	4	0	0	0	2	0	0	**8**
Mar	3	3	1	0	0	1	0	0	**8**
April	1	6	0	0	0	0	0	0	**7**
May	1	4	0	0	0	1	0	0	**6**
June	0	2	0	0	0	3	0	0	**5**
July	0	6	0	0	0	1	0	0	**7**
Aug	1	0	0	0	0	0	0	0	**1**
Sep	1	1	0	0	0	0	0	0	**2**
Oct	0	2	0	0	0	3	0	0	**5**
Nov	0	6	0	0	0	0	0	0	**6**
Dec	1	2	0	0	0	0	0	0	**3**
Total 2024	**10**	**43**	**1**	**0**	**0**	**11**	**0**	**0**	**65**
Grand Totals	**4514**	**1314**	**113**	**42**	**68**	**20**	**26**	**121**	**6218**

Adjustments

Adjustment Type	Exempt Wells		Non-Exempt Wells				Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Class 3	Water	Envr	
2002-Present	**4514**	**1314**	**113**	**42**	**68**	**20**	**26**	**121**	**6218**
**Never Drilled	N/A	-69	N/A	-5	-10	-2	-1	0	-85
**Plugged	-370	-63	-18	-2	-2	-1	-2	-64	-522
****Totals**	**4144**	**1182**	**95**	**35**	**56**	**17**	**23**	**57**	**5611**

(**updated January 2025)

Appendix D

Non-exempt Wells--Edwards BFZ

File No	State #	Well Name	Acre-Feet Hist. Permit	Acre-Feet Oper. Permit	Acre-Feet Total Permit	2024 Monthly Production (gallons) Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	YTD ac-ft	% Permit
		Chick Landscaping	**0**	**2.29**	**2.29**	**2,400**	**2,400**	**2,400**	**2,400**	**2,400**	**2,400**	**2,400**	**2,400**	**2,400**	**2,400**	**2,400**	**2,400**	**28,800**	**0.09**	**4%**
N2-06-002G	5804324	Chick Landscaping Well #2				2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	**28,800**	**0.09**	**4%**
		Jarrell-Schwertner WSC	**301.20**	**153.00**	**454.20**	**8,509,277**	**8,922,539**	**9,158,774**	**7,259,812**	**6,999,354**	**9,827,748**	**10,201,817**	**12,899,707**	**9,821,211**	**11,608,252**	**10,697,437**	**9,310,752**	**115,216,680**	**353.59**	**78%**
N2-02-041G	5804808	JSWSC (Prairie Dell 2)				3,071,658	3,140,243	3,008,053	2,375,686	1,777,622	3,134,122	2,941,620	3,825,146	2,735,384	3,128,452	2,900,277	2,473,657	**34,511,920**	**105.91**	**35%**
N2-02-042G	5804811	JSWSC (Prairie Dell 5)				2,257,110	1,954,983	2,117,822	1,876,910	1,878,873	2,406,085	2,433,775	2,386,330	2,030,146	2,908,473	2,607,987	2,342,735	**27,201,229**	**83.48**	**28%**
N2-03-005P	5804818	JSWSC (Prairie Dell 8)				3,180,509	3,827,313	4,032,899	3,007,216	3,342,859	4,287,541	4,826,422	6,688,231	5,055,681	5,571,327	5,189,173	4,494,360	**53,503,531**	**164.20**	**36%**
		Salado WSC	**1,472.30**	**36.99**	**1,509.29**	**19,414,000**	**18,778,000**	**24,587,000**	**26,345,000**	**22,563,000**	**30,939,000**	**39,317,000**	**44,587,000**	**39,019,000**	**40,565,000**	**26,524,000**	**22,369,000**	**355,007,000**	**1,089.48**	**72%**
N2-02-003G	5804602	Salado WSC (#1)				1,460,000	1,626,000	2,524,000	2,228,000	1,751,000	2,463,000	3,096,000	3,170,000	2,906,000	3,172,000	2,571,000	2,105,000	**29,072,000**	**89.22**	**6%**
N2-02-004G	5804604	Salado WSC (#2)				0	0		0	0	0	0	0	0	0	0	0	**0**	**0**	**0%**
N2-02-005G	5804508	Salado WSC (#3)				2,539,000	3,509,000	3,074,000	3,641,000	3,729,000	3,942,000	4,078,000	4,610,000	3,596,000	4,254,000	2,989,000	3,650,000	**43,611,000**	**133.84**	**9%**
N2-02-006G	5804621	Salado WSC (#4)				5,025,000	3,329,000	3,623,000	3,270,000	3,915,000	3,622,000	4,365,000	4,798,000	3,951,000	4,512,000	3,826,000	3,512,000	**47,748,000**	**146.53**	**10%**
N2-02-007G	5804509	Salado WSC (#5)				1,500,000	1,495,000	3,758,000	4,155,000	2,072,000	5,284,000	6,288,000	8,286,000	6,498,000	6,889,000	3,932,000	2,609,000	**52,766,000**	**161.93**	**11%**
N2-02-008G	5804510	Salado WSC (#6)				1,737,000	2,250,000	4,585,000	4,191,000	3,762,000	5,645,000	8,447,000	7,795,000	7,179,000	8,028,000	4,777,000	3,468,000	**61,864,000**	**189.85**	**13%**
N2-02-009G	5804626	Salado WSC (#7)				1,310,000	1,687,000	3,352,000	2,975,000	1,700,000	3,422,000	4,651,000	6,984,000	6,033,000	5,935,000	2,891,000	1,576,000	**42,516,000**	**130.48**	**9%**
N2-02-010G	5804512	7KX Ranch (#8)				0	0	0	239,000	17,000	934,000	2,717,000	3,454,000	3,556,000	2,338,000	24,000	0	**13,279,000**	**40.75**	**3%**
N2-02-011G	5804513	7KX Ranch (#9)				5,843,000	4,882,000	3,671,000	5,646,000	5,617,000	5,627,000	5,675,000	5,490,000	5,300,000	5,437,000	5,514,000	5,449,000	**64,151,000**	**196.87**	**13%**
		Schwertner Farms	**328.90**	**74.05**	**402.95**	**6,708,417**	**7,476,699**	**7,375,933**	**7,551,828**	**7,841,762**	**7,454,132**	**8,526,429**	**8,450,963**	**8,546,464**	**9,022,808**	**7,382,597**	**6,100,940**	**92,438,972**	**283.69**	**70%**
N2-04-001G	5812302	Schwertner Farms CCL #1				1,473,917	1,812,053	1,696,769	1,673,557	1,757,700	1,627,096	2,042,793	2,086,397	2,069,826	2,178,857	1,667,579	1,269,600	**21,356,144**	**65.54**	**16%**
N2-04-002G	5812303	Schwertner Farms CCL #2				1,473,917	1,812,053	1,696,769	1,673,557	1,757,700	1,627,096	2,042,793	2,086,397	2,069,826	2,178,857	1,667,579	1,269,600	**21,356,144**	**65.54**	**16%**
N2-04-003G	5812304	Schwertner Farms CCL #3				1,473,917	1,812,053	1,696,769	1,673,557	1,757,700	1,627,096	2,042,793	2,086,397	2,069,826	2,178,857	1,667,579	1,269,600	**21,356,144**	**65.54**	**16%**
N2-04-004G	5812206	Schwertner Farms Eastland W.				301,767	258,689	275,383	297,242	321,249	307,190	289,850	285,447	315,095	308,499	283,594	253,487	**3,497,492**	**10.73**	**3%**
N2-04-005G	5812305	Schwertner Farms Blackwell				266,050	221,850	237,150	482,715	299,948	292,740	266,798	232,390	283,390	318,240	306,000	291,720	**3,498,991**	**10.74**	**3%**
N2-04-006G	5812306	Schwertner Farms ES #1				86,050	80,950	100,500	109,000	106,280	98,800	108,235	70,155	121,903	134,534	116,616	107,130	**1,240,153**	**3.81**	**1%**
N2-04-007G	5812307	Schwertner Farms ES #2				722,364	632,366	712,263	660,620	900,371	866,864	727,209	678,300	737,120	771,749	680,170	681,683	**8,771,079**	**26.92**	**7%**
N2-04-008G	5812308	Schwertner Farms ES #3				459,935	427,669	472,498	498,865	542,606	522,750	517,140	473,246	448,018	505,520	489,600	449,565	**5,807,412**	**17.82**	**4%**
N2-10-006P	5812604	Schwertner Farms Little D.				450,500	419,016	487,832	482,715	398,208	484,500	488,818	452,234	431,460	447,695	503,880	508,555	**5,555,413**	**17.05**	**4%**
		Stagecoach Inn	**35.30**	**7.02**	**42.32**	**13,500**	**9,200**	**72,900**	**58,000**	**68,700**	**111,500**	**174,000**	**116,600**	**81,000**	**175,100**	**97,100**	**41,100**	**1,018,700**	**3.13**	**7%**
N2-02-002G	5804623	Stagecoach (deep)				13,500	9,200	72,900	58,000	68,700	111,500	174,000	116,600	81,000	175,100	97,100	41,100	**1,018,700**	**3.13**	**7%**
N2-02-037G		Stagecoach (spring)				0	0	0	0	0	0	0	0	0	0	0		**0**	**0**	**0%**

Non-exempt Wells--Edwards BFZ

File No	State #	Well Name	Acre-Feet Hist. Permit	Acre-Feet Oper. Permit	Acre-Feet Total Permit	2024 Monthly Production (gallons) Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	YTD ac-ft	% Permit
		Not Aggregated																		0%
N1-07-001P	4061802	James Schnitker	0	1.84	1.84	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	**600,000**	**1.84**	**100%**
N1-07-003P	5805405	Ronald Gravette	0	0.38	0.38	10,333	10,333	10,333	10,333	10,333	10,333	10,333	10,333	10,333	10,333	10,333	10,333	**123,996**	**0.38**	**100%**
N1-07-005P	5804817	Patricia Suarez	0	0.38	0.38	10,333	10,333	10,333	10,333	10,333	10,333	10,333	10,333	10,333	10,333	10,333	10,333	**123,996**	**0.38**	**100%**
N1-09-004P	5804322	Domingo Perez	0	0.53	0.53	14,416	14,416	14,416	14,416	14,416	14,416	14,416	14,416	14,416	14,416	14,416	14,416	**172,992**	**0.53**	**100%**
N1-10-001P	4061713	Kenneth Stone	0	0.57	0.57	15,445	15,445	15,445	15,445	15,445	15,445	15,445	15,445	15,445	15,445	15,445	15,445	**185,340**	**0.57**	**100%**
N1-13-002P	4061714	Janet Stone	0	0.34	0.34	9,233	9,233	9,233	9,233	9,233	9,233	9,233	9,233	9,233	9,233	9,233	9,233	**110,796**	**0.34**	**100%**
N1-14-001P	5805406	Karen Duerr	0	0.27	0.27	7,331	7,331	7,331	7,331	7,331	7,331	7,331	7,331	7,331	7,331	7,331	7,331	**87,972**	**0.27**	**100%**
N1-18-002P	5812203	Windy Meadows	0	0.47	0.47	12,762	12,762	12,762	12,762	12,762	12,762	12,762	12,762	12,762	12,762	12,762	12,762	**153,144**	**0.47**	**100%**
N1-20-001P	4061710	Dwayne Ordner	0	0.59	0.59	16,060	16,060	16,060	16,060	16,060	16,060	16,060	16,060	16,060	16,060	16,060	16,060	**192,720**	**0.59**	**100%**
N1-20-002P	4060913	Donald & Sheryl Rich	0	0.39	0.39	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	**127,080**	**0.39**	**100%**
N2-03-004G	5804627	Soccer field	1.50	0.71	2.21	9,720	9,720	9,720	9,720	9,720	9,720	9,720	9,720	9,720	9,720	9,720	9,720	**116,640**	**0.36**	**16%**
N2-04-017G	5804643	Sonic of Salado	0	0.86	0.86	1,360	1,270	1,230	1,370	1,820	2,120	1,970	2,330	2,460	2,260	2,030	1,960	**22,180**	**0.07**	**8%**
N2-07-005G	5803808	RLF Salado Quarries (Office)	0	3.91	3.91															**0%**
N2-07-010G	5804637	Bloomer Mfg.	0	2.07	2.07	0	0	0		4,337	6,639	7,245	7,373	7,951		5,837	3,041	**42,423**	**0.13**	**6%**
N2-08-004P	5804644	Lonnie Sherman	0	1.10	1.10	0	0	210	140	80	150	150	58,790	0	0	0	0	**59,520**	**0.18**	**17%**
N2-09-002P	5804645	O. W. Lowery	0	1.84	1.84	12,350	46,220	24,680	55,430	33,830	49,390	90,620	79,530	44,480	113,320	75,580	54,670	**680,100**	**2.09**	**113%**
N2-09-004G	5804646	Salado UMC	0	1.86	1.86	1,655	850	3,098	2,822	3,130	4,480	16,677	19,323	18,940	21,030	21,200	15,933	**129,138**	**0.40**	**21%**
N2-11-004P	5804631	Charles Broecker	0	0.99	0.99	0	0	4,500	8,000	8,000	8,000	7,000	14,000	18,000	10,000	8,000		**85,500**	**0.26**	**26%**
N2-11-005P	5805108	James & Terry Boston	0	1.66	1.66	42	61	33	43	43	67	115	129	121	133	70	35	**892**	**0.00**	**0%**
N2-15-003P	5804325	Anthony Craft	0	0.60	0.60	2,850	10,620	4,660		1,820	10,590	17,120	20,150	26,400	16,710	4,820	340	**116,080**	**0.36**	**59%**
N2-15-004P	5804633	Scott Law Well #1, Guthrie	0	0.60	0.60															**0%**
N2-15-005P	5804634	Scott Law Well #2, Guthrie	0	0.60	0.60	6,490	7,090	9,540	24,650	8,240	33,190	10,530	21,000	20,200	17,730	13,400	9,310	**181,370**	**0.56**	**93%**
N2-15-006P		Scott Law Well #3	0	0.60	0.60															**0%**
N2-15-007P		Scott Law Well #4	0	0.60	0.60															**0%**
N2-15-008P		Scott Law Well #5	0	0.60	0.60															**0%**
N2-15-009P	5805110	Scott Law Well #6 - Reed	0	0.60	0.60															**0%**
N2-15-010P	5805109	Scott Law Well #7 - Brady Woods	0	0.60	0.60	4,360	7,610	5,640	5,360	4,900	17,300	30,070	39,310	34,790	28,600	16,750	4,210	**198,900**	**0.61**	**102%**
N2-15-011P		Scott Law Well #8	0	0.60	0.60															**0%**
N2-15-012P	5804316	Scott Law Well #9 - Drigalla	0	0.60	0.60	6,630	7,030	9,660	6,460	18,170	46,710	12,100	11,760	10,360	12,150	7,380	9,210	**157,620**	**0.48**	**81%**
N2-16-002G	5804647	Charles Dunifer	0	0.60	0.60	3,200	0	0	960	0	3,000	11,800	9,700	21,000	3,890	400	0	**53,950**	**0.17**	**28%**
N2-17-001P	5804305	Heart of Texas Feed	0	0.14	0.14	660	590	360	770	490	350	840	480	370	850	580	460	**6,800**	**0.02**	**15%**
N2-19-007P	5804640	Brazos Valley Equine Hospital	0	1.32	1.32	24,700	35,700	36,900	46,500	24,300	35,700	43,200	43,500	49,400	43,800	14,194	40,200	**438,094**	**1.34**	**102%**
N2-20-001G	5804319	SDG Properties	0	0.67	0.67															**0%**
N2-20-006G	4061711	Reddylee LLC	0	9.97	9.97	103	17,129	79,770	17,993	36,117	48,180	67,230	106,730	100,880	114,630	6,104	816	**595,682**	**1.83**	**18%**
N2-21-002G	5804320	R&A Hauling	0	2.15	2.15												1,320	**1,320**	**0.00**	**0%**
N2-21-006P	5804321	Salado RV Park	0	2.98	2.98	14,300		16,500	17,100		12,700	17,600	7,600	7,500		25,000	9,300	**127,600**	**0.39**	**13%**
N3-24-005P		Michael Linneman #1	0	0.30	0.30								0					**0**	**0**	**0%**
N3-24-006P		Michael Linnemann #2	0	0.30	0.30								0					**0**	**0**	**0%**
N3-24-007P		Michael Linnemann #3	0	0.30	0.30								0					**0**	**0**	**0%**
Totals:			**2,139.20**	**318.84**	**2,458.04**	**34,892,517**	**35,489,231**	**41,560,011**	**41,570,861**	**37,786,716**	**48,779,569**	**58,722,136**	**66,664,598**	**57,999,150**	**61,924,886**	**45,071,102**	**38,141,220**	**568,601,997**	**1,744.98**	**71%**

Non-exempt Wells--Trinity

			Acre-Feet			2024 Monthly Production (gallons)														
File No	State #	Well Name	Hist. Permit	Oper. Permit	Total Permit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	YTD ac-ft	% Permit
		Armstrong WSC	**154.90**	**333.00**	**487.90**	**2,863,800**	**2,762,110**	**2,399,190**	**1,371,530**	**1,705,070**	**2,343,080**	**2,479,000**	**2,102,000**	**1,071,120**	**3,022,000**	**1,794,000**	**849,000**	**24,761,900**	**75.99**	**16%**
N2-02-024G	5805202	Armstrong WSC #1				800	110	1,190	4,530	2,070	80	0	0	120	0	0	0	**8,900**	**0.03**	**0%**
N2-10-001P	5805502	Armstrong WSC #2				2,863,000	2,762,000	2,398,000	1,367,000	1,703,000	2,343,000	2,479,000	2,102,000	1,071,000	3,022,000	1,794,000	849,000	**24,753,000**	**75.96**	**16%**
		Bell Milam Falls WSC	**262.20**	**0**	**262.20**	**7,392,300**	**7,778,100**	**7,821,950**	**8,695,600**	**5,221,700**	**7,857,000**	**12,026,300**	**8,842,000**	**10,632,800**	**8,926,800**	**8,302,500**	**8,377,000**	**101,874,050**	**312.64**	**119%**
N2-02-038G	5806601	Bell-Milam-Falls WSC (Rogers)				3,261,300	4,486,100	4,301,950	4,951,600	2,386,700	5,730,000	6,581,300	2,433,000	5,350,800	2,333,800	4,172,500	4,155,500	**50,144,550**	**153.89**	**59%**
N2-02-046G	5814402	Bell-Milam-Falls WSC (Bartlett)				4,131,000	3,292,000	3,520,000	3,744,000	2,835,000	2,127,000	5,445,000	6,409,000	5,282,000	6,593,000	4,130,000	4,221,500	**51,729,500**	**158.75**	**61%**
		Central Texas WSC	**0**	**1,776.00**	**1,776.00**	**12,940,000**	**1,078,000**	**11,200,000**	**11,282,000**	**0**	**4,105,000**	**15,688,000**	**12,078,000**	**12,369,000**	**11,726,000**	**9,174,000**	**11,257,000**	**112,897,000**	**346.47**	**20%**
N2-14-004P	5804203	CTWSC Doc Curb				35,000	0	21,000	0	0	0	35,000	177,000	0	0	0	0	**268,000**	**0.82**	**0%**
N2-14-005P	5806202	CTWSC System Split Well				12,905,000	1,078,000	11,179,000	11,282,000	0	4,105,000	15,653,000	11,901,000	12,369,000	11,726,000	9,174,000	11,257,000	**112,629,000**	**345.65**	**19%**
		City of Troy	**119.90**	**350.60**	**470.50**	**1,228,700**	**1,258,200**	**1,119,100**	**1,257,500**	**1,737,900**	**2,466,100**	**1,948,900**	**871,900**	**1,584,700**	**918,900**	**1,397,900**	**382,600**	**16,172,400**	**49.63**	**11%**
N2-02-036G	4054503	City of Troy #1				1,228,700	1,258,200	1,119,100	1,257,500	1,737,900	2,466,100	1,948,900	871,900	1,584,700	918,900	1,397,900	382,600	**16,172,400**	**49.63**	**11%**
N2-15-002P	4054201	City of Troy #2				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0%**
		East Bell WSC	**69.70**	**114.85**	**184.55**	**1,303,820**	**499,400**	**1,143,230**	**1,527,030**	**496,850**	**477,950**	**2,905,200**	**4,005,620**	**4,503,330**	**5,905,940**	**1,319,390**	**736,010**	**24,823,770**	**76.18**	**51%**
N2-02-034G	4063501	East Bell WSC #1				413,220	109,560	460,090	1,069,920	215,200	220,670	1,335,360	2,077,020	1,763,750	2,311,770	371,510	138,690	**10,486,760**	**32.18**	**31%**
N2-04-010P	5806301	East Bell WSC #2				890,600	389,840	683,140	457,110	281,650	257,280	1,569,840	1,928,600	2,739,580	3,594,170	947,880	597,320	**14,337,010**	**44.00**	**29%**
		Leon River Turkey Farms	**60.90**	**0**	**60.90**	**14,500**	**15,600**	**16,200**	**16,100**	**16,700**		**5,200**	**4,800**	**5,500**	**5,300**	**5,000**	**4,950**	**109,850**	**0.34**	**1%**
N2-02-043G	4053301	Leon River Turkey (East)				6,500	6,800	7,100	7,000	7,200		2,200	2,100	2,200	2,100	2,000	1,900	**47,100**	**0.14**	**0%**
N2-02-044G	4053302	Leon River Turkey (West)				1,000	1,200	1,100	1,200	1,400		1,200	1,200	1,500	1,500	1,400	1,350	**14,050**	**0.04**	**0%**
N2-02-045G	5805403	Leon River Turkey				7,000	7,600	8,000	7,900	8,100		1,800	1,500	1,800	1,700	1,600	1,700	**48,700**	**0.15**	**0%**
		Lhoist	**40.00**	**0**	**40.00**	**17,361**												**17,361**	**0.05**	**0%**
N2-03-002G	4060101	LHoist #1				17,361												**17,361**	**0.05**	**0%**
N2-03-003G	4060102	LHoist #2																		**0%**
		Moffat WSC	**47.70**	**209.20**	**256.90**	**6,010,000**	**7,419,000**	**3,309,000**	**3,652,000**	**7,921,000**	**8,672,000**	**10,702,000**	**11,964,000**	**6,815,000**	**4,923,000**	**3,987,000**	**6,143,000**	**81,517,000**	**250.17**	**97%**
N2-02-022G	4053406	Moffat WSC #1				1,039,000	974,000	1,215,000	955,000	1,268,000	2,326,000	2,999,000	4,522,000	2,243,000	1,674,000	1,255,000	1,338,000	**21,808,000**	**66.93**	**26%**
N2-13-001P	4053507	Moffat WSC #2				4,971,000	6,445,000	2,094,000	2,697,000	6,653,000	6,346,000	7,703,000	7,442,000	4,572,000	3,249,000	2,732,000	4,805,000	**59,709,000**	**183.24**	**71%**
		Pendleton WSC	**75.30**	**36.90**	**112.20**	**2,643,100**	**2,283,300**	**3,756,800**	**2,429,600**	**2,277,600**	**3,342,700**	**3,641,000**	**4,659,100**	**3,368,700**	**5,279,700**	**5,016,900**	**3,592,400**	**42,290,900**	**129.79**	**116%**
N2-02-047G	4054401	Pendleton WSC (#1)				2,643,100	1,869,000	2,013,200	2,083,200	2,277,600	2,749,600	3,641,000	4,659,100	3,368,700	2,748,500	1,895,400	2,180,700	**32,129,100**	**98.60**	**88%**
N2-02-048G	4054502	Pendleton WSC (#2)				0	414,300	1,743,600	346,400	0	593,100	0	0	0	2,531,200	3,121,500	1,411,700	**10,161,800**	**31.19**	**28%**

Non-exempt Wells--Trinity

			Acre-Feet			2024 Monthly Production (gallons)														
File No	State #	Well Name	Hist. Permit	Oper. Permit	Total Permit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	YTD ac-ft	% Permit
		Not Aggregated																		0%
N1-05-001P	4057907	John Kurzyniec	0	0.67	0.67	18,250	18,250	18,250	18,250	18,250	18,250	18,250	18,250	18,250	18,250	18,250	18,250	**219,000**	**0.67**	**100%**
N1-07-002P	4060405	Ingo Smith	0	1.57	1.57	42,766	42,766	42,766	42,766	42,766	42,766	42,766	42,766	42,766	42,766	42,766	42,766	**513,192**	**1.57**	**100%**
N1-08-001P	4057908	Yong Conway	0	1.59	1.59	43,120	43,120	43,120	43,120	43,120	43,120	43,120	43,120	43,120	43,120	43,120	43,120	**517,440**	**1.59**	**100%**
N1-09-003P	4053707	Laurie Gehring	0	0.34	0.34	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0%**
N1-11-002P	5803201	Andrew Robertson	0	0.59	0.59	16,021	16,021	16,021	16,021	16,021	16,021	16,021	16,021	16,021	16,021	16,021	16,021	**192,252**	**0.59**	**100%**
N1-16-001P	5803505	Richard Ross	0	0.70	0.70	19,008	19,008	19,008	19,008	19,008	19,008	19,008	19,008	19,008	19,008	19,008	19,008	**228,096**	**0.70**	**100%**
N1-16-004P	4059804	Michael Maples	0	0.39	0.39	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	**127,080**	**0.39**	**100%**
N1-16-005P	4059803	David Cole	0	0.39	0.39	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	10,590	**127,080**	**0.39**	**100%**
N1-16-006P	4057603	Ronald Ham	0	0.53	0.53	14,391	14,391	14,391	14,391	14,391	14,391	14,391	14,391	14,391	14,391	14,391	14,391	**172,692**	**0.53**	**100%**
N1-17-002P	5802506	Advanced Electrical Systems	0	0.88	0.88	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	**288,000**	**0.88**	**100%**
N1-18-001P	5803506	William Lutz	0	0.36	0.36	9,672	9,672	9,672	9,672	9,672	9,672	9,672	9,672	9,672	9,672	9,672	9,672	**116,064**	**0.36**	**99%**
N1-18-003P	4059302	Myers	0	1.98	1.98	53,765	53,765	53,765	53,765	53,765	53,765	53,765	53,765	53,765	53,765	53,765	53,765	**645,180**	**1.98**	**100%**
N1-18-004P	5803404	Justin Scott	0	0.22	0.22	5,973	5,973	5,973	5,973	5,973	5,973	5,973	5,973	5,973	5,973	5,973	5,973	**71,676**	**0.22**	**100%**
N1-19-003P	5802505	Gary Kelley	0	0.20	0.20	5,353	5,353	5,353	5,353	5,353	5,353	5,353	5,353	5,353	5,353	5,353	5,353	**64,236**	**0.20**	**100%**
N1-19-007P	4057906	Cristy & Larry Bickel	0	0.60	0.60	16,292	16,292	16,292	16,292	16,292	16,292	16,292	16,292	16,292	16,292	16,292	16,292	**195,504**	**0.60**	**100%**
N1-19-008P		Cristy & Larry Bickel	0	0.60	0.60															**0%**
N2-02-001G	5806102	Bell Co. WCID #2	184.20	21.60	205.80	0	118	1,977,300	9,322,000	2,510,000	3,380,000	3,380,000	3,813,000	3,547,000	3,589,000	2,628,000	2,079,000	**36,225,418**	**111.17**	**54%**
N2-02-012G	5807701	City of Rogers	139.40	0	139.40															**0%**
N2-02-013G	5805901	City of Holland	158.40	0	158.40															**0%**
N2-02-017G	4055701	Oenaville / Belfalls WSC	16.20	20.79	36.99	33,763	24,026	50,232	49,153	28,569	11,021	8,569	7,485	28,947	28,714	92,660	39,031	**402,170**	**1.23**	**3%**
N2-02-035G	5804642	Mill Creek Country Club, LLC	61.90	60.00	121.90	0	0	0	0	0			0	1,800,000	1,500,000	1,000,000	500,000	**4,800,000**	**14.73**	**12%**
N2-02-039G	4054801	Little Elm Valley WSC	91.20	0	91.20	1,978,250	1,454,200	1,468,900	1,603,050	2,096,000	2,078,800	2,526,250	3,212,200	2,456,600	2,613,100	1,637,200	1,599,100	**24,723,650**	**75.87**	**83%**
N2-02-040G	4062801	Bell Co. WCID #5	20.70	8.00	28.70	482,767	417,500	438,500	445,100	200,900	125,400	432,000	473,000	416,100	458,200	408,300	434,700	**4,732,467**	**14.52**	**51%**
N2-03-001G	4062401	Cen. TX Vet. Hospital	0	60.00	60.00	60	0	0	0	0	0	420	0	0	0	0	0	**480**	**0.00**	**0%**
N2-04-011P	4061407	BellTec	0	1.30	1.30	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0%**
N2-05-003P	4058902	Texas Veterans Land Board	0	36.80	36.80															**0%**
N2-05-004P	5804323	Salado B.P. / Ronnie Tynes	0	11.05	11.05															**0%**
N2-06-008P	4053709	VillasDelSol / John Henderson	0	3.13	3.13	15,000		28,000	25,000	22,000	65,000	82,000	42,000	35,000				**314,000**	**0.96**	**31%**
N2-07-003G	5803503	Killeen Crushed Stone	0	36.00	36.00	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0%**
N2-07-006G	5802101	Kuczek	0	0.16	0.16															**0%**
N2-07-007G	5803303	Garden of Hope of Central Texas	0	0.01	0.01	270	270	270	270	270	270	270	270	270	270	270	270	**3,240**	**0.01**	**99%**
N2-07-008G	5803809	Apache Stone	0	22.66	22.66	50,693	38,531	62,516	58,394	66,107	52,963	62,649	65,588	53,440	53,604	57,189	56,147	**677,821**	**2.08**	**9%**
N2-07-009G	4058701	Parrie Haynes Ranch	0	13.80	13.80	48,430	32,370	25,350	18,370	11,360	379	1,320	0					**137,579**	**0.42**	**3%**
N2-07-011G	5804624	Stagecoach (Spa)	0	0.05	0.05	0	0	0	0	0	0	0	0	0	0	0		**0**	**0**	**0%**
N2-07-012G	4053710	Temple Park Estates	0	9.50	9.50	42,520	50,390	59,660	64,680	35,370	136,270	106,210	1,820	188,175	205,330	93,790	65,340	**1,049,555**	**3.22**	**34%**
N2-08-001P	5803912	5 Womans Materials	0	16.03	16.03	78,450	206,340	124,440	138,980	89,590	169,450	175,610	379,350	254,860		335,500	28,470	**1,981,040**	**6.08**	**38%**
N2-08-002P	5804314	Salado ISD (HS)	0	21.41	21.41	100	0	89,100	400	106,500	362,800	167,700		565,500	980,100	601,200	119,500	**2,992,900**	**9.18**	**43%**
N2-08-003G	4059601	City of Harker Heights	0	1.16	1.16	0	0	0	0	0	0	0	0	0	0	0		**0**	**0**	**0%**
N2-09-001P	4053508	Kimberly Langston	0	12.32	12.32	218	491	123	210	182	620	982	1,189	1,269	1,130	982	590	**7,986**	**0.02**	**0%**
N2-09-005G	5803707	R S Materials Group	0	16.67	16.67	314,259	586,214	215,227	387,421	418,961	394,522	405,945	513,083	455,231	421,237	349,687	486,822	**4,948,609**	**15.19**	**91%**
N2-11-003G	4061408	UMHB	0	7.50	7.50	185	317	529	238	4,031	3,849	9,659	12,881	14,989	15,642	1,813		**64,133**	**0.20**	**3%**
N2-13-002P	5806201	Trinity Oasis LLC (Jack Hilliard Dozer and Materials)	0	279.00	279.00	5,104,000	7,324,400	6,325,699	9,844,500	4,540,700	4,804,300	5,576,500	6,497,300	6,472,300	5,280,600	1,395,700	2,001,400	**65,167,399**	**199.99**	**72%**
N2-19-001P	5804705	CenTex Acres 1 (Crawford)	0	0.61	0.61															**0%**
N2-19-002P	5804706	CenTex Acres 2 (Penney)	0	0.61	0.61	4,460	3,610	4,080	3,800	4,490	4,200	4,500	4,300	4,220	4,430	2,850	5,140	**50,080**	**0.15**	**25%**
N2-19-003P	4053708	Eveans	0	0.50	0.50	14,490	7,980	6,340	11,520	7,020	12,260	12,160	9,700	9,140	11,440	8,820	6,420	**117,290**	**0.36**	**72%**
N2-20-002P	5803406	Hines Texas, LLC #1	0	4.14	4.14	0	0	9,880	31,650	66,530	35,190	62,950	55,930	88,090	71,800	54,500	119,440	**595,960**	**1.83**	**44%**
N2-20-003P	5803407	Hines Texas, LLC #2	0	4.14	4.14	67,390	47,390	63,660	40,490	0	0	0	0	0	0	0	0	**218,930**	**0.67**	**16%**
N2-20-004P	5803408	Hines Texas, LLC #3	0	4.14	4.14	177,690	138,660	116,950	189,600	84,010	0	13,600	5,150	0	1,000	440	1,630	**728,730**	**2.24**	**54%**
N2-21-001P	5804709	Victory Rock LLC	0	30.00	30.00			1,934,600	452,700	556,100	211,800	546,400	386,300	320,700	591,500	291,800	495,700	**5,787,600**	**17.76**	**59%**
N2-21-003P		David & Denea Reaves	0	0.54	0.54															**0%**
N2-21-004P	5803409	Hines Texas, LLC #4	0	4.14	4.14	43,280	30,870	24,320	39,470	22,100	23,920	41,680	31,140	20,810	34,160	21,300	27,920	**360,970**	**1.11**	**27%**
N2-21-005P	5802601	Nathan & Danielle McNeal	0	0.40	0.40	5,890	4,170	5,530	4,250	4,960								**24,800**	**0.08**	**19%**
N2-22-002P	4059805	Scott Gillman	0	0.39	0.39		3,750	4,750	5,060	3,310	13,910	6,600	9,080	4,990	7,980	3,740	4,710	**67,880**	**0.21**	**54%**
N3-23-009P	4053711	James Boger	0	0.67	0.67	2,905	1,780	1,960	1,654	2,680	3,389	3,880	2,150	2,020	3,210	1,730	240	**27,598**	**0.08**	**13%**
N3-23-013G	4060504	American Rockwool	0	2.60	2.60							169,300	213,240	223,748	92,733	312,688	110,278	**1,121,987**	**3.44**	**132%**
N3-24-011P		Belton Partners LLC	0	2.50	2.50															**0%**
Totals:			**1,502.60**	**3,611.26**	**5,113.86**	**43,168,442**	**33,756,878**	**44,093,177**	**53,259,111**	**30,548,351**	**41,443,934**	**63,482,545**	**60,553,367**	**57,603,340**	**56,962,611**	**40,586,640**	**39,813,599**	**565,271,995**	**1,734.76**	**34%**

Non-exempt Wells--Other

			Acre-Feet			2024 Monthly Production (gallons)														
File No	State #	Well Name	Hist. Permit	Oper. Permit	Total Permit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	YTD ac-ft	% Permit
		Bradley Ware	0	160.00	160.00	1,140,479	1,270,820	912,383	0	749,457	0	2,671,981	2,997,832		1,792,182	2,183,203	2,509,055	16,227,392	49.80	31%
N2-11-001G	5802106	Bradley B. Ware				521,362	912,384	619,117	0	162,925	0	1,759,597	1,922,523		1,205,650	1,759,597	1,564,086	**10,427,241**	**32.00**	**20%**
N2-11-002G	5802107	Bradley B. Ware				619,117	358,436	293,266	0	586,532	0	912,384	1,075,309		586,532	423,606	944,969	**5,800,151**	**17.80**	**11%**
		Strasburger Farms	271.80	33.84	305.64	0	0	0	0	0	0	19,023,000	0	0	0	0	0	19,023,000	58.38	19%
N2-02-026G		DO NOT USE - Strasburger Farms (#2)																		0%
N2-02-027G	5806801	Strasburger Farms (#4)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0%**
N2-02-028G		DO NOT USE-Strasburger Farms (#5)																		0%
N2-02-029G	5806802	Strasburger Farms (#6)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0%**
N2-02-030G	5806901	Strasburger Farms (#10)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0%**
N2-02-031G	5806902	Strasburger Farms (#11)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0%**
N2-02-032G	5806803	Strasburger Farms (#15)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0%**
N2-02-033G	5806804	Strasburger Farms (#16)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0%**
N2-12-002P	5806805	Strasburger Farms (#5)				0	0	0	0	0	0	11,322,000	0	0	0	0	0	**11,322,000**	**34.75**	**11%**
N2-18-001P	5806501	Strasburger Farms (#2)				0	0	0	0	0	0	7,701,000	0	0	0	0	0	**7,701,000**	**23.63**	**8%**
		Not Aggregated																		0%
N1-04-001P	5806701	Stephen Spinn	0	0.56	0.56	15,207	15,207	15,207	15,207	15,207	15,207	15,207	15,207	15,207	15,207	15,207	15,207	**182,484**	**0.56**	**100%**
N1-11-001P	4060603	Roy Rodriquez	0	0.55	0.55	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	**180,000**	**0.55**	**100%**
N1-16-007P	5805903	Wells Fargo Bank	0	0.79	0.79	21,390	21,390	21,390	21,390	21,390	21,390	21,390	21,390	21,390	21,390	21,390	21,390	**256,680**	**0.79**	**100%**
N1-21-001P	5814101	Kelly Carter	0	0.87	0.87	23,664	23,664	23,664	23,664	23,664	23,664	23,664	23,664	23,664	23,664	23,664	23,664	**283,968**	**0.87**	**100%**
N2-06-007G	4061903	Misty Creek HOA	0	6.45	6.45	14,200	112,000	14,500	14,700	15,200	15,500	15,000	17,000	15,000	15,800	15,000		**263,900**	**0.81**	**13%**
N2-07-013G	5806104	D.R. Dorsey Properties	0	2.47	2.47	12	9	4	20	21	6	11	7	11	8	3		**112**	**0.00**	**0%**
N2-07-014P	4061607	Barking Oaks	0	0.62	0.62	5,680	5,620	5,660	5,890	6,070	6,120	5,980	5,860	5,760	5,570	5,890	6,080	**70,180**	**0.22**	**35%**
N2-08-005G	4061511	Lone Star Paving	0	1.07	1.07	115	151	186	112	247	141	380	484	153	720	620	1,320	**4,629**	**0.01**	**1%**
N2-08-007G	4061512	Trio Investments	0	0.18	0.18	300	200	100	100	200	100	300	200	100	200	100	200	**2,100**	**0.01**	**4%**
N2-10-007P	4061715	Goode Towing	0	0.05	0.05	0	0	0		0	0	0	0	0	0	0	0	**0**	**0**	**0%**
N2-14-001G	5806806	Mikeska	0	100.00	100.00	0	0	0	0	0	0	1,303,405	4,956,200	1,824,768	1,401,161	684,288	4,105,728	**14,275,550**	**43.81**	**44%**
N2-16-001P	4061410	Strike 3 Bail Bonds	0	0.12	0.12	270	220	210	260	220	280	230	260	220	320	260	220	**2,970**	**0.01**	**8%**
Totals:			**271.80**	**307.87**	**579.67**	**1,236,317**	**1,464,281**	**1,008,304**	**96,343**	**846,676**	**97,408**	**23,095,548**	**8,053,104**	**1,921,273**	**3,291,222**	**2,964,625**	**6,697,864**	**50,772,965**	**155.82**	**27%**

Appendix E

CUWCD Exempt Well Use Summary

As of: 2/3/2025

Aquifer	Total Active Registered Exempt Wells[3]	Registered Domestic Wells	Estimated Domestic Use Gallons/Day[1,2]	Estimated Domestic Use Ac-ft/Year[1,2]	Registered Stock Wells	Estimated Stock Use Gallons/Day[4]	Estimated Stock Use Ac-ft/Year[4]	Total Estimated Use Gallons/Day[7]	Total Estimated Exempt Well Use Ac-ft/Year[7]	MAG Reserved Exempt Well Use
Glen Rose (Upper Trinity)	*424*	*346*	*101,226*	*113*	*78*	*67,392*	*75*	*168,618*	*189*	
Hensell (Middle Trinity)	*1,022*	*962*	*432,367*	*484*	*60*	*51,840*	*58*	*484,207*	*542*	
Hosston (Lower Trinity)	*171*	*161*	*47,102*	*53*	*10*	*8,640*	*10*	*55,742*	*62*	
Trinity (Total)[6]	**1,617**	**1,469**	**580,695**	**650**	**148**	**127,872**	**143**	**708,567**	**794**	**866**
Edwards BFZ	**855**	**728**	**212,984**	**239**	**127**	**109,728**	**123**	**322,712**	**361**	**825**
Edwards Equivalent	471	374	109,417	123	97	83,808	94	193,225	216	
Buda	28	15	4,388	5	13	11,232	13	15,620	17	
Lake Waco	8	3	878	1	5	4,320	5	5,198	6	
Austin Chalk	224	139	40,666	46	85	73,440	82	114,106	128	
Ozan	159	114	33,352	37	45	38,880	44	72,232	81	
Pecan Gap	66	44	12,873	14	22	19,008	21	31,881	36	
Kemp	15	11	3,218	4	4	3,456	4	6,674	7	
Alluvium	582	375	109,710	123	207	178,848	200	288,558	323	
Other[5]	**1,553**	**1,075**	**314,502**	**352**	**478**	**412,992**	**463**	**727,494**	**815**	
CUWCD Total Active	**4,025**	**3,272**	**1,108,180**	**1,241**	**753**	**650,592**	**729**	**1,758,772**	**1,970**	

1. Domestic use estimate assumes 106 gallons/person per day (USGS estimate of domestic use outside of a municipal water system) and 2.76 persons/household (U.S. Census Bureau, Population Estimates Program (PEP) July 1, 2019)

2. Benjamin G. Wherley, Ph.D. Associate Professor- Turfgrass Science & Ecology Dept. of Soil and Crop Sciences Texas A&M University estimate of 2,000ft^2 warm season turfgrass requires 38,855gal/yr/lawn or 106gal/day/lawn; "Ranchette" Avg. lawn size is 13,042ft^2 , 6.5X larger; 6.5 X 106gal/day/lawn= 689gal/day/lawn; ~217 "Ranchette" Middle Trinity Wells; 689 X 217=an additional 150,924gal/day/lawn; ***490ac-ft/yr or an 89% increase in Middle Trinity exempt well use from the 2018 estimate of 258ac-ft/yr.***

3. Exempt well use estimate factors out all plugged, capped, monitor and inactive wells in the database.

4. Source of stock water estimates is Texas Agrilife Extension @ 18 gallons water per day per cow. Livestock water use estimates are based on the 2017 Census of Agriculture, USDA National Agricultural Statistics Service. 36,868 cows / 771 stock wells= 48 cows/stock well; 48* 18gpd= 846 gal/day/stock well, ***747ac-ft/yr or a 34% increase in annual stock use from the 2018 estimate of 556ac-ft/yr.***

5. The "Other" designation is the total of minor aquifer and alluvium source designation of the exempt wells.

6. Trinity Aquifer wells registered with unknown depth are assigned to the Middle Trinity per Board decision.

7. All estimates of groundwater use by exempt well owners is based on assumptions and scientific data, but by no means are they to be interpreted as recommended practices by CUWCD.

Appendix F

Edwards (BFZ) Aquifer Status Report –December 2024

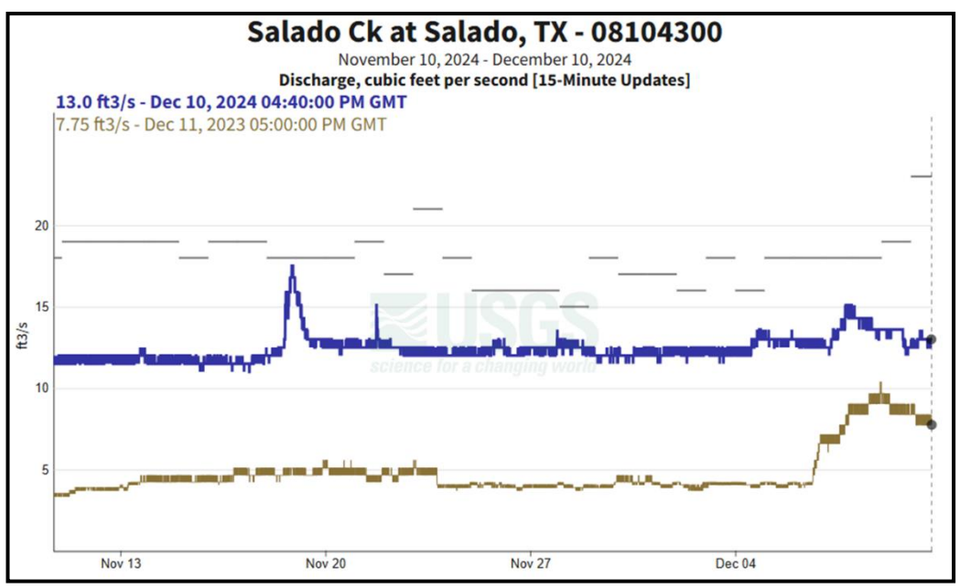
DFC Analysis Over Time (2000-Present) Modeled Available Groundwater				*HEUP and OP Permit Analysis* Relative to the Modeled Available Groundwater			*2024 YTD Prod.* Jan - Dec 1744.79 Ac-ft 70.98%	*Pending Applications*		*Exempt Well Reservations*		
	DFC Adopted * Minimum Spring Flow	**Status of DFC** ** Current / Low	**MAG** *** Ac-ft	HEUP Ac-ft	OP Ac-ft	Total Permitted Ac-ft	**2023 Actual Production**	Available for Permitting Ac-ft	Pending Applications Ac-ft	Exempt Well Reservation Ac-ft	Exempt Well Use Estimation Ac-ft	Available Exempt Use Ac-ft
Edwards (BFZ) Aquifer	**100 Ac-ft** per month or **1.68 cfs**	**828.30 Ac-ft** 12/10/2024 vs **220 Ac-ft** 08/20/2014	6469	2139.20	318.84	**2458.04**	**1754.63 Ac-ft 71.33%**	3185.96	**500**	825	361	464

**Desired Future Conditions (DFC) established by Clearwater UWCD and approved by GMA8 and TWBD, is the description of how the aquifer should look in the future (50 years based on maintaining the Salado Spring Complex discharge during a repeat of drought conditions similar to the drought of record in the 1950's, under drought of record, a five-day average of discharge amounting to 200 ac-ft-month is preferred and 100 ac-ft-/month is the minimum acceptable spring flow. Spring flow is measured and estimated by the USGS Gage in Salado Creek located below the Salado Creek Spring Complex.*

***Status of the DFC is the estimated spring flow over a five-day average from the springs releasing artesian pressure from the Edwards BFZ Aquifer expressed as acre feet per month of spring flow into Salado Creek.*

****The Modeled Available Groundwater (MAG) is the estimated amount of water available for permitting assigned to Clearwater UWCD by the Executive Administrator of TWDB, based on the desired future conditions.*

7KX Investments N2-19-005P (500 ac-ft/yr)



CFS is measured continuously at the downstream gage with USGS developing the rating curve according to industry standards and maintaining the information for public access on the USGS website.

5 - day average for December 5th – December 10th was 13.92 CFS = 828.30 ac-ft/month

5 - day average for November 14th – November 19th was 13.22 CFS = 786.65 ac-ft/month

DFC Analysis Over Time (2000-Present) Modeled Available Groundwater			*HEUP and OP Permit Analysis* Relative to the Modeled Available Groundwater			*2024 YTD Total Prod. Jan - Dec* 1728.38 ac-ft 33.80%		*Pending Applications*		*Exempt Well Reservations*		
Trinity Aquifer (by layer)	**DFC Adopted *** **Average Drawdown** (by layer)	**MAG **** Ac-ft Current	**HEUP Ac-ft** (by layer)	**OP Ac-ft** (by layer)	**Total Permitted Ac-ft** (by layer)	**2023 YTD Prod.** (by layer)	**2024 YTD Prod.** (by layer)	**Available for Permitting Ac-ft** (by layer)	**Pending Applications Ac-ft** (by layer)	**Exempt Well Reserve Ac-ft** (by layer)	**2024 Exempt Well Use Estimate Ac-ft** (by layer)	**Available Exempt Use Ac-ft** (by layer)
Pawluxy	NA	0	0	0	**0**	0	0	0	0			0
Glen Rose (upper)	**-1.38 ft/yr** -83 ft/60 yrs	275	61.9	72.73	**134.63**	35.94	21.13	0	0	140.37	190	0
Hensell (middle)	**-2.28 ft/yr** -137 ft/60 yrs	1100	259.3	211.04	**470.34**	44.70	44.28	81.66	0	548	542	6
Hosston (lower)	**-5.50 ft/yr** -330 ft/60 yrs	7900	1181.4	3327.49	**4508.89**	1860.31	1662.97	3213.11	***1146.6	178	60	118
Total		**9275**	1502.6	3611.26	**5113.86**	1940.95 (37.99%)	1728.38 (33.80%)	3294.77	**1146.6**	866.37	784	132

**Desired Future Conditions (DFC) is the description of how the aquifer should look in the future (60 years).*

***The Modeled Available Groundwater (MAG) is the estimated amount of water available for permitting assigned to Clearwater UWCD by the Executive Administrator of TWDB.*

****Pending applications*

City of Temple N3-23-004P (239 ac-ft/yr)

UMHB N3-23-005P (64 ac-ft/yr)

Mustang Springs N3-23-010P & N3-23-011P (249.8 ac-ft/yr)

Lake Thomas RV Resort N3-24-002P (16.8 ac-ft/yr)

Jarrell Schwertner WSC N3-24-008P (577 ac-ft/yr)

Appendix G

Clearwater Source

Clearwater Underground Water Conservation District

www.cuwcd.org

2024 Annual Newsletter | October 2024 | Volume 20, Issue 1

Call to Action : Turning Plans into Pipelines



Since the impoundment of Lake Belton in 1954, Central Texas has had an abundant water supply for residents, businesses, and industry. Three generations have relied on that supply for their needs. Now, some 70 years later, new supply options are needed. Texas is the fastest growing state in the country, with Bell County and the Central Texas region growing at a faster rate than Texas. Growth along the Interstate 35 and Interstate 14 corridors is forecasted to continue for the foreseeable future.

Under the leadership of Bell County, several water purveyors, and stakeholders, discussions are occurring with the idea that a more regionalized approach to water planning and development is the best approach for meeting the needs of Central Texas over the next 70 years. Five benefits of actionable solutions include 1) meeting current water supply challenges, 2) economic development, 3) public health and safety, 4) environmental protection, and 5) long-term sustainability.

No single entity in the region has the capacity, either in existing water supply and/or infrastructure to meet the needs and challenges for the region with the anticipated demands of the growth and expansion that is forecasted. A consortium of entities, leveraging individual interests and resources, will help address this challenge.

Furthermore, a reliable regional water source is essential to support sustainable economic growth, enabling new businesses to establish themselves in the area and existing industries to expand without facing water-related constraints. Paramount is the access to a secure and clean water supply is critical for public health, reducing the risk of waterborne diseases, and ensuring that residents have access to safe drinking water at all times. Leadership believes that developing a managed regional water source will also help protect local ecosystems by reducing the over-extraction of groundwater and preserving rivers and lakes from depletion and pollution. Ultimately, this investment would provide a long-term solution to water scarcity, ensuring that future generations have the resources they need to thrive in an increasingly volatile global water landscape.

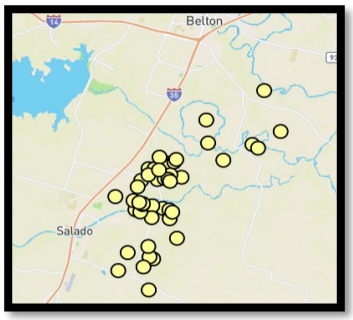
The CUWCD Board of Directors and staff recognize the need for resiliency as we navigate growth and climate variability concerns from the citizens we serve in Bell County. This year's annual Bell County Water Symposium will be held on November 13th at the Cadence Bank Center in Belton.

Topics from featured speakers and the keynote address will be a "Call to Action". Since inception, Clearwater has spent over 1.3 million dollars in scientific endeavors to better understand both the resource and emerging technologies. To us, groundwater is no longer "so secret, occult, and concealed," and there are feasible strategies—like ASR—to pursue long-term solutions to meet the projected need in Bell County. More than a vision, the call to action is for Central Texas to start "Turning Plans into Pipelines" to ensure the viability of this precious resources for future generations.

Dirk Aaron, General Manager
Clearwater UWCD

Elevated Fluoride in the Edwards

In 2015, CUWCD investigated water quality changes in the Edwards aquifer. Results from the investigation showed increasing levels of Fluoride in the groundwater. While Fluoride in drinking water is beneficial at low concentrations, levels in some areas of the Edwards aquifer (about 2 miles or more east of I-35) now exceed the maximum contaminant level for drinking water of 4.0 mg/L.



The Fluoride concentration in groundwater produced from the Edwards Aquifer is naturally occurring. That is, the element enters the water as the minerals that make up the rock comprising the aquifer dissolve. While it is naturally occurring, there are strategies well owners can use to reduce the water's fluoride concentration prior to consumption. An effective and common method is a reverse osmosis system either under your sink(s) or for the whole home.

The map above shows well points in the Edwards BFZ and Edwards Equivalent aquifers, screened for water quality by CUWCD, with elevated Fluoride levels at 4.0 or greater mg/L. To check the Fluoride concentration in your well water, a no-cost water screening by CUWCD is afforded annually to every well owner in Bell County.

CUWCD Maintains Commitment to No-New Revenue Rate



Clearwater UWCD proudly reaffirms its longstanding commitment to maintaining a no-new revenue property tax rate. The Board adopted the rate of $0.002230 per $100 of assessed valuation, costing the average Bell County homeowner about $6.09 on the average appraised value of a residence. This rate reflects our dedication to fiscal responsibility and community service.

At the heart of our mission is the development and application of the best available science to inform our policy decisions. We believe that sound science is the cornerstone of effective water resource management. Our qualified staff conducts research to support policies that protect groundwater now and for future generations. These science-driven decisions are transparent and benefit the community.

We also ensure efficient financial management, balancing operational needs with minimizing taxpayer costs. Our continued focus on fiscal responsibility strengthens the long-term resiliency of the District.

Engaging with Bell County residents remains a key priority. We actively listen to their concerns and provide information while our dedicated staff delivers the highest level of service. Clearwater UWCD will continue to protect groundwater, maintain transparency, and uphold the trust of the community.

Leland Gershbach, Board President
Clearwater UWCD

Board of Directors

Leland Gersbach - Precinct 1
2013-Present (President)

Jody Williams - Precinct 3
2018-Present (Vice President)

Gary Young - Precinct 2
2014-Present (Secretary)

Scott Brooks - Precinct 4
2018-Present (Director)

James Brown - At large
2023-Present (Director)

Mission Statement

To implement an efficient, economical, and environmentally sound groundwater management program to protect and enhance the water resources of the District.

Water Quality Screening

The District's in-house lab offers registered well owners free screening for common constituents and bacteria. Annual screening is recommended.

Join the District for the 23rd Annual
Bell County Water Symposium

November 13, 2024

8:00 AM - 3:30 PM

Cadence Bank Center - Assembly Hall

This event is free but requires RSVP by November 8th*

Phone: 254-933-0120

Email: tsmith@cuwcd.org

Noon Lunch Provided

Call to Action:
Turning Plans into Pipelines

Featured Presentations

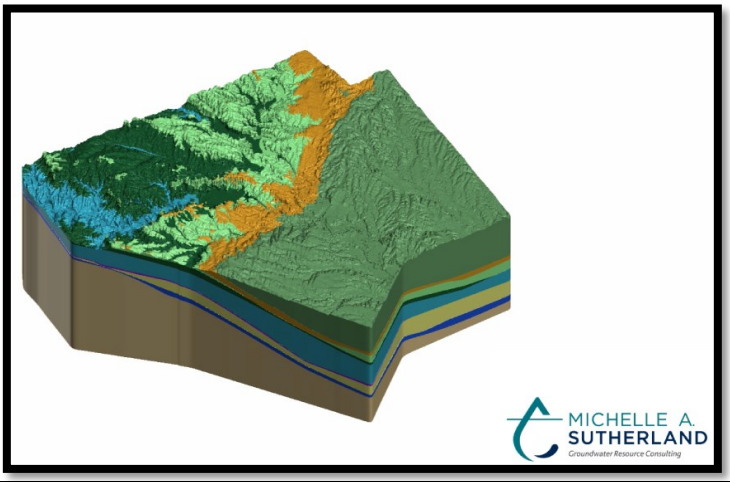
A Tale of Two Trinities
Dr. Neil Deeds
Vice President, Principal Water Resources Engineer, INTERA Inc.

Communication: The Last Frontier in Science
Dr. Hal Needham
Extreme Weather & Disaster Scientist

3-D Model of Bell County Aquifers for Landowners

In 2014 the Board had Mr. Allan Standen prepare and develop a 3-D Model of the District and its aquifers. The finished model is has been complete for 9 years and is calibrated annually therefore it is the primary tool for landowners to accurately understand the stratigraphy below their property. To use this tool (the Virtual Bore), call the CUWCD office and ask staff for assistance. The tool allows us to offer the best information as it relates to groundwater at any given location. Models are not perfect so this model requires annual calibration and updating as new information becomes available. Upon request, we are willing to assist landowners who need information on their land and its groundwater resources.

We also encourage well owners to make sure that our files are complete on their respective wells. We acknowledge that a well is a tremendous financial asset when properly registered and constructed in accordance with the Texas Department of Licensing and Regulations. Clearwater UWCD communicates with local and region wide well drillers and pump installers on the State rules of construction and completion of wells and ensures that those rules are adhered to on behalf of the well owner.



CUWCD Invests in Data Analysis Tools

Over the past decade, CUWCD has prioritized investment in scientific research, data analysis tools, and groundwater flow modeling to help the Board of Directors with making informed decisions regarding management of Bell County's groundwater resources. An example of the culmination of these efforts is the Board's application of research to aid with the delineation of District management zones. The research also guided the development of data analysis tools used in permitting and assessing the condition of the aquifers as well as the development of the Clearwater Groundwater Management Model.

In August of this year, the CUWCD Board once again invested in technology tools to help them manage the groundwater resources of Bell County. In addition to resource management, the Board foresees these tools as effective means for communicating aquifer conditions with the goal of making these tools accessible through the District's website. The two tools the Board approved for improvement and development are (1) the Aquifer Status Tool, and (2) the Clearwater Groundwater Management Model Dashboard.

CUWCD currently maintains water-level measurements for 1,350 wells in Bell County. Of these 1,350 wells, 168 wells have three or more water-level measurements collected over time. While most of the water-level data have been collected in the last 15 years under the direction of CUWCD, there are a few wells with water-level data spanning more than 50 years. While these data by themselves are informative, water levels by themselves may not mean much to most people. However, through a few relatively simple evaluations the data provide tremendous insight into the condition of the Bell County groundwater resources. A challenge for the District is: How can we efficiently use the data to communicate information and conditions about the managed aquifers?

This tool evaluates water-level data from each well to calculate the long-term trend. The tool then recalculates the trend for each monitoring well when new water-level measurements are collected. The District is then able to quickly access these automated evaluations when considering the trend in water level relative to the adopted desired future conditions or how a new permit may affect the water-level trend.

In 2023, CUWCD developed a local groundwater flow model to aid with aquifer management called the Clearwater Groundwater Management Model ("CGMM"). The CGMM is a revision of the regional groundwater model used for joint planning with other groundwater conservation Districts. The CGMM is focused on Bell County with the properties of the model updated based on the scientific research conducted over the last several years. While the CGMM is robust model for the District to use in evaluating permit applications and considering various desired future conditions for the aquifers, it is not easily accessible for District staff.

To make the CGMM more accessible, the Board approved development of a dashboard that will allow District staff to add potential operating permits or pumping scenarios to the model. The dashboard will allow the District staff to simulate the pumping and then visualize the model results. The purpose of the tool is to make the CGMM and other future groundwater mathematical models more accessible to District staff and constituents.

The investments by CUWCD in improving the understanding of the local aquifers and making that understanding accessible to the public keep CUWCD at the forefront of groundwater management in Texas. The data collection and analysis provide transparency regarding the conditions of the aquifers in Bell County and inform our understanding of aquifer conditions in neighboring areas which may impact Bell County. The tools being developed and improved will continue to improve CUWCD's ability to effectively manage our local groundwater resources.

Mike Keester, Principal
KT Groundwater

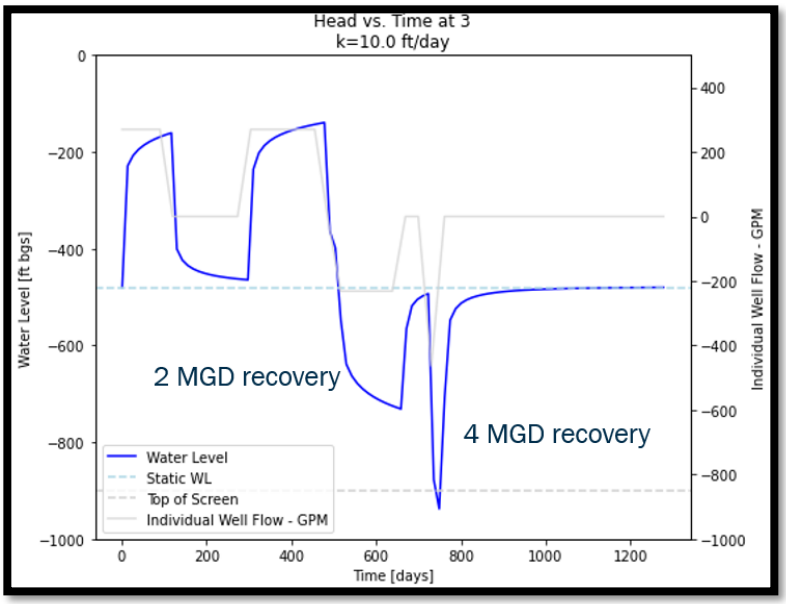
Continuing Efforts to Establish ASR in Bell County

Under the leadership of Judge David Blackburn and CUWCD Manager Dirk Aaron, Bell County launched a county wide Aquifer Storage and Recovery (ASR) study. These projects aim to assess the feasibility of using ASR to address the region's water needs. This past spring, two concurrent Aquifer Analysis projects were underway as a result of that preliminary initiative. Both efforts centered on the Lower Trinity, or the Hosston formation. Fort Cavazos is pursuing ASR as a means to mitigate chronic drought effects or curtailments and a means of replacement water supply in an emergency outage situation lasting only a few days. The City of Temple site, about 16 miles to the east, is looking to establish a source for industrial uses in an area of their city with particularly large users. They are seeking approval to use fully treated wastewater effluent for injection and storage so that this non-potable water could be used during drought or curtailments but primarily to support a growing industrial base on the east side of the city. Both of these projects were led by Dr. Neil Deeds of INTERA Inc., Georgetown, Texas.

The **Fort Cavazos Project** included drilling a monitor well and a small production well as there is very little data on the Hosston in the area on the Military Reservation near North Nolan Road and the Boy Scout Campground. Desktop data suggested that the Hosston would be 850 to 950 feet below ground level at the targeted location. INTERA established that there were three fatal flaws that could occur during the drilling phase that would deem an ASR project at this site infeasible: 1) The Hosston/ Lower Trinity is not present, or very thin. 2) The lithology in the Hosston has high percentage of clays/shales. 3) The static water level is too deep leaving insufficient available drawdown for production.

The Hosston was found to be only 60 feet thick at this location, but the size and shape of the large sand and small gravel was very promising that the formation could support the Fort Cavazos criteria for ASR which were: 1) To mitigate the effects of a chronic drought (5 months), Fort Cavazos determined 2 million gallons per day of ASR water would be needed and 2) To sustain services during an emergency outage at the Belton Water Treatment Plant, 4 million gallons per day would be needed for up to 15 days.

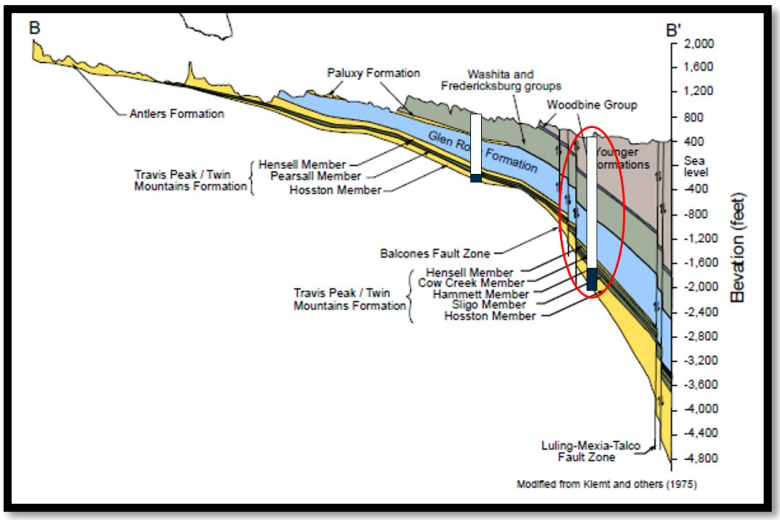
The static water level at the well location was 485 feet below the ground surface while the bottom of the upper confining layer is at 940 feet below the surface. A hydrogeologic model was developed using the findings from the monitoring well and the test well. The graph on the left shows that the first criteria by Fort Cavazos staff, of 2 million gallons per day for 15 weeks is attainable. The second criteria of 4 million gallons per day shows to slightly overdraft the aquifer, but so slightly that Dr. Deeds is confident that with minor changes to well spacing and configuration, both criteria will be met.



Aside from proving there were no fatal flaws, this project has a lot of potential for water supply purposes. First, the wellfield will be entirely on the Fort Cavazos Military Reservation. Second, their water supply line from Bell County Water Control & Improvement District #1 (WCID 1) is within 100 feet from the test wells. Once a wellfield is established, the infrastructure cost for injection and withdrawal will be nominal. Third, there is no record of a Hosston well owner anywhere in that area even off the reservation, meaning storage and withdrawal will not affect any nearby well owners. Fourth, at this far west location, well depth is only about 1,000 feet for a Hosston well, meaning cost is relatively cheap in terms of water production wells.

With all of this potential, Fort Cavazos and WCID 1 have awarded a project to Camp Dresser & McKee-Smith (CDM-Smith) and INTERA Inc. to develop a 30% wellfield design and provide buildout costs for the wellfield for full scale ASR to meet their objectives.

The **City of Temple Well Project**, being 16 miles east of the Fort Cavazos site is a very different Hosston story. The Hosston is much deeper and much thicker as shown on the geologic cross section below.



Since the aquifer at the Temple site has been studied with extensive data on hand, the objectives were not exploratory. The objectives provided to INTERA were to: 1) Construct a Lower Trinity well to provide a water supply to an industrial partner (data center) southeast of town, 2) Construct well to meet UIC requirement for ASR (e.g. HSLA steel casing), and 3) Potentially convert well to ASR in the future, with recycled water as a source.

The well did not disappoint! The formation is more than 300 feet thick with extraordinary lithology for water production and storage purposes. Initial testing indicates more than 2,000 gallons per minute is possible without impacting any neighboring well owners.

The City of Temple intends to pursue ASR and use recycled water for injection purposes as a significant water conservation strategy for industrial, non-potable uses to support their growing industrial district.

(continued on page 4)

Contact Us

www.cuwcd.org

Phone: 254-933-0120

Physical Address: 700 Kennedy Court
Belton, TX 76513

Mailing Address: P.O. Box 1989
Belton, TX 76513

Contact the District office if you would like to be added to our e-mail list for more frequent updates.

Clearwater
Underground Water Conservation District
Every drop counts!
P.O. Box 1989
Belton, TX 76513



Baylor Geoscience works with CUWCD



Several people have used tracers to learn more about flow in the Edwards aquifer near the Downtown Salado Spring Complex (DSSC) but Toluwaleke Ajayi (A.J.) is the first person to "model" the flow in this area using dye tracing techniques. A.J. is a Ph.D. student working with Dr. Joe C. Yelderman Jr. (Dr. Joe), a hydrogeology professor and Chair of Geosciences at Baylor University. Dr. Joe placed dye in the Stagecoach Inn Cave Well (Cave Well) and A.J. along with Wayne Hamilton (Baylor scientist) , monitored the flow from Big Boiling, Doc Benedict, Anderson, and Critchfield springs. Results confirmed previous work by Dr. Stephanie Wong indicating all the springs are connected. The more quantitative measurements by A.J. showed that 73% of the dye traveled to Big Boiling Spring, 7.76% traveled to Anderson Spring, and 4.3% traveled to Doc Benedict Spring. Under the flow conditions during the dye test the first arrival of dye traveled from the Cave Well to Big Boiling Spring in 45 minutes and peaked shortly after only one hour. Finally, 14% of the dye was undetected after 72 hours indicating some of the dye remained in immobile regions of the aquifer. This information can be used to help protect and manage groundwater in this area of the Edwards aquifer. The complete results from A.J.'s research will be available to CUWCD and the public after A.J.'s paper is reviewed and hopefully published in the journal *Water* later this year.

Elena Muir, Baylor University Geosciences graduate student, is working on a project to study reservoir and aquifer interaction. Her thesis titled "The interactions of Stillhouse Hollow and Belton Reservoirs with the Trinity and Edwards aquifers of Central Texas" centers on the effects that infrastructure from the 1950-1960's may have on the local groundwater. Her project team is sampling springs and wells from the Edwards Balcones Fault Zone and the Trinity aquifers. 2 reservoirs, 10 springs, and 40 wells are included in the study where Muir analyzes historic water levels and conducts chemical sampling. The data collection utilizes loggers that are deployed in select springs. Water samples from wells and springs are used to detect the chemical and isotopic composition. The research is well underway. Selected well owners were contacted, well sampling has begun, and the creation of a rating curve for Tahuaya Spring to measure the discharge is in progress. Additionally, Muir is planning to investigate potential lake leakage through tracing the residual signature of zebra mussel "eDNA" in the water.



Continuing Efforts to Establish ASR in Bell County



(continued from page 3)

These two Bell County sites establish that Lower Trinity (Hosston) ASR is feasible for drought mitigation, emergency supply for short duration on the western edge of the formation and also feasible for large industrial uses and additional water supply in the area just east of Temple. Water scarcity is a growing problem in Texas, particularly in the rapid growing area of Central Texas along the Interstate 35 corridor. Additional sources of supply are extremely expensive and usually not readily available. It is absolutely critical that innovative approaches to extending the supplies we have, such as ASR, be a major component of a long-term water supply strategy in the Bell County area.

Ricky Garrett, General Manager
WCID 1

CUWCD Hires Assistant General Manager

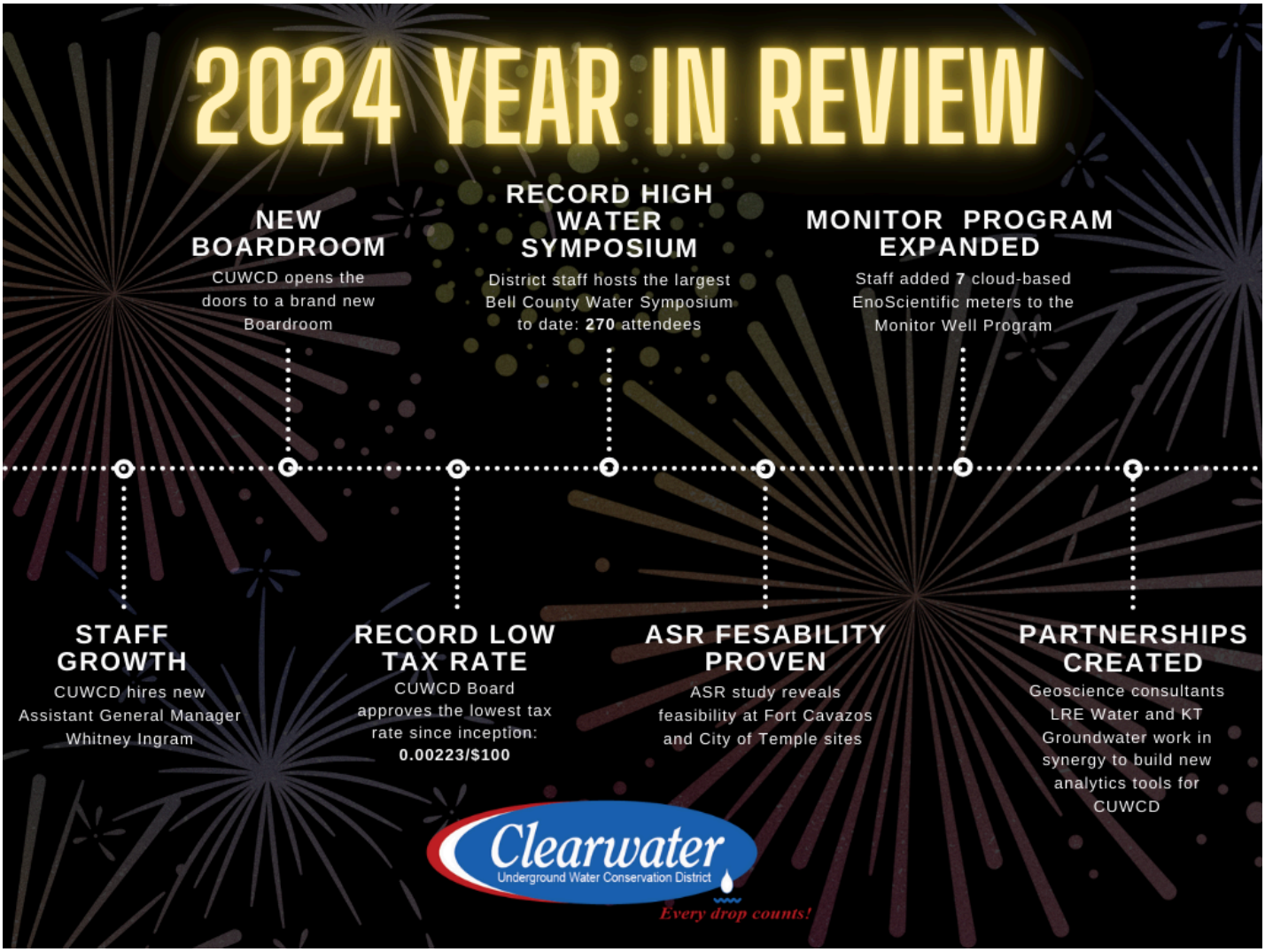


Whitney Ingram joined CUWCD as Assistant General Manager on March 1, 2024. She works closely with the GM, staff, and Board of Directors to provide groundwater regulation and education. This position serves as the primary contact for the District's communication and outreach while participating in scientific endeavors, strategic planning, reporting, and accountability. Ingram will also represent CUWCD on water-related coalitions and at conferences.

CUWCD Active Well Registration Totals

Aquifer	Exempt Wells	Non-Exempt Wells	Monitor Wells
Glen Rose (Upper Trinity)	433	7	5
Hensell (Middle Trinity)	1,065	32	48
Hosston (Lower Trinity)	206	34	27
Edwards BFZ	915	64	46
Minor Aquifers & Alluvium	1,639	24	3
Totals	4,258	161	129

As we look back on 2024, the staff at Clearwater UWCD would like to acknowledge the remarkable highlights of 2024. **A full annual report of the District will be available in March 2025.**



2024 Year In Review

- Staff Growth
  - CUWCD hires new Assistant General Manager, Whitney Ingram
- New Boardroom
  - CUWCD opens the doors to a brand new Boardroom in partnership with Bell County
- Record Low Tax Rate
  - CUWCD approves the lowest tax rate since the inception of the District, 0.00223/$100
- Record High Attendance
  - Staff hosted the largest Bell County Water Symposium to date, 270 attendees
- ASR Feasibility Proven

    - ASR study reveals feasibility at Fort Cavazos and the City of Temple sites
- Monitor Program Expanded
    - Added 7 cloud-based EnoScientific meters to the Monitor Well Program with 6 more to be added in 2025
- Partnerships Created
    - Geoscience consultants LRE Water and KT Groundwater work in synergy to build new analytics tools for CUWCD

Clearwater's Most Frequently Asked Questions of 2024

- Why do I pay taxes to Clearwater UWCD?
    - CUWCD is a political subdivision of Bell County created in 1989 by the 71st Texas Legislature (HB 3172) and confirmed by the voters of Bell County in an election held in August 1999. Funding for the District comes from ad valorem taxes. The Tax Appraisal District of Bell County is responsible for the fair market appraisal of properties within Clearwater's jurisdiction. Since the District began assessing taxes, the Board of Directors has consistently kept the same tax rate or lowered it every year.
- How do I put a well on my property?
    - Not all property in Bell County is eligible for a groundwater well. If the tract size is 10 acres or greater, the property may be eligible for an exempt well. An exempt well is solely for domestic use or watering livestock, incapable of producing more than 25,000 gallons of groundwater per day. If the tract size is less than 10 acres or greater than or equal to 2 acres and platted after March 1, 2004, the owner may be eligible to pursue drilling and operating permits for a non-exempt well with the District. Tracts smaller than 2 acres are not eligible for a well. If the tract was platted before March 1, 2004, the property is not subject to the tract size requirement and may still be eligible for an exempt well. Permit exemptions are outlined in District Rule 6.3. To find out if your property is eligible for a well, District staff can guide you through the process.
- I found a well on my property. Does the District have any information on this well?
    - As of 2002, all wells must be registered with the District. CUWCD maintains a database of all wells within Bell County. Property owners can view public well data on the interactive map. If you find a well on your property that has not been registered, please contact District staff so that the well can be registered.
- I've noticed a change in my well water. How can I check my water quality?
    - The District has an in-house water quality lab and offers a free screening service to registered well owners, annually. Testing parameters include coliform bacteria, alkalinity, conductivity, total dissolved solids, fluoride, hardness, nitrate, nitrite, pH, phosphate, and sulfate. The District's lab is intended to provide a general water quality screening only. When a certified test is needed, the District sends properly collected well samples to BioChem located in West, Texas.

Clearwater will unveil a brand new website in 2025. We have recently launched pages on Facebook and YouTube. Follow and connect with us!
Facebook – Clearwater Underground Water Conservation District
YouTube – @ClearwaterUWCD



For more information and formal postings of meetings, we encourage you to visit our website.

CHECK OUT CUWCD WEBSITE HERE

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Our mailing address is:
P.O. Box 1989
Belton, Texas 76513

Telephone Number:
254-933-0120

Fax Number:
254-933-8396

Hours:

Monday – Friday 8:00 am to 5:00 pm
Closed from 12:00 to 1:00 pm for lunch

Appendix H

CUWCD 2024 Education and Outreach Events

Date	People	Event Information	Presentation	Booth
1/4/24	33	Temple Rotary Club	X	
1/17/24	152	Bell County Crops Conference	X	X
2/21/24	20	Bell County Master Gardener's Association	X	
2/23/24	46	Killeen Rotary Club	X	
3/14/24	18	Leadership Belton	X	
3/23/24	40	Bell County Master Gardener's Association Plant Sale		X
5/17/24	45	Temple Business League	X	
5/31/24	68	Texas Groundwater Association Water Well Drillers Continuing Education Class	X	
6/11/24	20	City of Harker Heights' Girls Outdoors Program		X
7/2/24	17	Texas A&M University – Central Texas STEM Camp	X	X
7/24/24	26	Ag Water Tour	X	
8/12/24	7	City of Temple's Master Plan Stakeholders	X	
10/8/24	20	Texas Ag Industries Association	X	
11/13/24	270	Bell County Water Symposium	X	X
12/4/24	38	Temple Founder's Lions Club	X	
Total reached	820			

Appendix I

Results of Groundwater Samples in CUWCD Lab

Test Date	District Well #	Latitude	Longitude	Elevation	Depth (ft)	Aquifer[2]	Coliform Bacteria[3]	Ecoli	Conductivity (µs/cm)	Total Dissolved Solids (mg/L)	Salinity (mg/L)	pH	Alkalinity (mg/L)	Hardness (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphate (mg/L)	Sulfate[4] (mg/L)	Fluoride[4] (mg/L)	Chloride, mg/L	Calcium, mg/L	Magnesium, mg/L	CaCO3, mg/L CaCO3	Sodium Ion, mg/L
FY24																								
10/4/2023	E-20-022GU	30.906356	-97.382804	568.875	40	Alluvium	Not Tested	Not Tested	815	400	400	8	360	320	0.272	1.8	0.09	28	0.5	4.01	129	7.12	352	8.12
10/4/2023	E-22-109P	30.978888	-97.490194	609.069	215	Edwards (BFZ	Not Tested	Not Tested	1827	917	920	8.65	360	120	0.003	0	0.16	275	5.5	212	23.3	10.7	102	40.7
10/4/2023	E-23-058P	31.062631	-97.905116	936.858	550	Lower Trinity	Not Tested	Not Tested	9790	5350	5540	8.25	260	440	0	0.36	0.13	567	2.5	2331	93.9	52.3	450	272
10/5/2023	E-22-104P	30.906825	-97.384279	569.055	48	Alluvium	Not Tested	Not Tested	815	400	400	8	360	320	0.272	1.8	0.09	28	0.5	4.01	129	7.12	352	8.12
10/10/2023	E-22-082P	30.97072	-97.81252	855.399	480	Middle Trinity	Not Tested	Not Tested	1338	670	670	8.95	380	60	0.006	0.186	0	116	3.25	117	10.1	4.25	42.6	34.8
10/19/2023	E-23-043P	30.946965	-97.582017	711.378	905	Middle Trinity	Not Tested	Not Tested	1551	774	780	8.7	360	80	0.005	0.8	0.18	168	3	128	9.5	4.13	40.7	39.2
10/19/2023	E-23-065P	30.91964	-97.73965	851.935	830	Lower Trinity	Not Tested	Not Tested	1699	853	860	8.83	380	80	0.004	0.1	0.06	110	6	196	7.54	3.81	34.5	39.9
11/28/2023	E-03-411P	30.974821	-97.497621	606.35	160	Edwards (BFZ	Not Tested	Not Tested	1199	593	600	8.5	300	200	0.1	0.004	0.39	136	4	0	40.7	24.1	201	20
11/28/2023	E-23-076P	30.905479	-97.776769		630	Lower Trinity	Not Tested	Not Tested	1933	974	980	8.74	400	120	0	0	0.35	59	2	174	8.8	3.4	36	52.5
11/28/2023	E-23-080P	30.936633	-97.583894	667	150	Edwards (BFZ	Not Tested	Not Tested	686	335	330	8.43	340	240	0.004	2.3	0.1	12	0.5	0	99.9	27.2	362	3.14
12/6/2023	E-23-062P	31.19914	-97.47816	686.742	910	Middle Trinity	Not Tested	Not Tested	2700	1378	1420	8.89	340	120	0.004	0.06	0.08	533	2.9	94.6	15.5	13.4	93.9	53
12/6/2023	N3-23-009P	31.159997	-97.477239	656.168	902	Middle Trinity	Not Tested	Not Tested	2210	1118	1120	8.79	320	120	0.011	0	0.12	385	1.85	64.6	21.4	10.3	95.6	49.8
12/8/2023	E-06-033P	30.946824	-97.588419	733.268	910	Middle Trinity	Not Tested	Not Tested	1615	809	810	8.49	360	120	0.002	0.177	0	175	1.55	4.55	16.5	9.68	80.9	33.5
12/14/2023	E-23-018P	30.995305	-97.443	465.478	37	Alluvium	Not Tested	Not Tested	758	372	370	8.24	240	320	0.021	1.1	0.15	38	0	0	122	21	392	2.07
12/14/2023	E-23-050P	30.970194	-97.502353	590.551	197	Edwards (BFZ	Not Tested	Not Tested	1325	659	670	8.49	280	200	0.002	2.2	0.07	167	5	0	25.1	16.1	129	31.7
12/14/2023	E-23-072G	30.91496	-97.60051	656.83	850	Middle Trinity	Not Tested	Not Tested	4610	2410	2460	8.33	420	320	0	0.7	0.14	1160	6.5	268	48.6	53.1	339	92
12/15/2023	E-23-047P	31.07942	-97.88215	984.252	425	Middle Trinity	Not Tested	Not Tested	2310	1172	1180	8.45	320	380	0.002	0.179	0	551	1.75	16.1	64	50.8	368	37
1/3/2024	N1-07-005P	30.898092	-97.545861	764.2	340	Edwards (BFZ	Not Tested	Not Tested	763	373	370	8.63	280	220	0.002	0.447	0	59	1.1	0	50.1	23.6	222	8.9
1/10/2024	E-23-049P	30.99895	-97.6412	688.976	656	Middle Trinity	Not Tested	Not Tested	1316	653	660	9.34	360	40	0.544	0.406	0.33	160	2.9	0	2.68	2.33	16.3	29.1
1/29/2024	E-23-053P	30.917637	-97.744737	967.801	880	Lower Trinity	Not Tested	Not Tested	2016	1017	1030	8.54	400	80	0.003	1.5	0.06	13	2.5	219	1.9	4.65	23.9	48.9
1/29/2024	E-24-003P	30.93222	-97.67657	875.674	820	Middle Trinity	Not Tested	Not Tested	1112	549	550	8.65	320	100	0.004	0	0.03	119	1.6	0	16.4	9.24	78.8	21.3
2/28/2024	E-22-055P	30.940011	-97.591484	702.284	890	Middle Trinity	Not Tested	Not Tested	2340	1189	1200	8.42	400	200	0.006	0.5	0.27	511	3.5	0	35.9	20	172	42.1
2/28/2024	E-22-092P	30.913221	-97.667916	855.039	830	Middle Trinity	Not Tested	Not Tested	1115	552	550	8.52	320	100	0.004	1.5	0.14	138	3	0	9.98	8.47	59.7	22.3
2/28/2024	E-23-022P	31.161238	-97.473963	653.815	900	Middle Trinity	Not Tested	Not Tested	2640	1343	1360	8.73	360	160	0.003	0.1	0.85	461	3.5	114	12.7	11	77.1	43.9
2/28/2024	E-23-075P	30.879502	-97.610652	742.101	890	Middle Trinity	Not Tested	Not Tested	1304	647	650	8.46	340	100	0.003	0.8	0.23	146	3	0	13.9	9.86	75.2	26.7
2/28/2024	N2-19-005P	30.912222	-97.556944	721.785	200	Edwards (BFZ	Not Tested	Not Tested	627	305	300		300	200	0.005	3.5	0.13	13	1.5	0	87.7	17.2	290	4.95
2/28/2024	E-22-055P	30.940011	-97.591484	702.284	890	Middle Trinity	Not Tested	Not Tested	2390	1215	1230	8.43	420	200	0.003	0.7	0.23	524	3	0	36.6	20.7	176	42.7
3/8/2024	E-15-056P	30.942742	-97.589807	715.998	895	Middle Trinity	Not Tested	Not Tested	1499	748	750	8.86	340	80	0.001	0.6	0.29	191	3.5	0	8.91	5.69	45.6	22.8
3/8/2024	E-23-020P	30.854881	-97.440811	564.547	60	Alluvium	Not Tested	Not Tested	1042	513	510	8.05	260	400	0.002	33.6	0.28	30	1.5	0	185	22.2	552	4.64
3/8/2024	E-23-040P	30.923388	-97.798964	821.849	600	Middle Trinity	Not Tested	Not Tested	1409	699	700	8.71	340	80	0	0.4	0.22	190	5	0	8.12	7.23	50	28.1
3/8/2024	E-23-061P	30.945563	-97.504661	629.11	260	Edwards (BFZ	Not Tested	Not Tested	1491	744	750	8.6	300	140	0	0.3	0.14	6	0	20.7	13.4	107		28
3/15/2024	E-23-082P	30.989844	-97.837837	748.052	460	Lower Trinity	Not Tested	Not Tested	2184	1106	1120	8.91	440	80	0.033	0.32	0	831	8	218	1.8	10.1	46.1	44.3
3/20/2024	E-24-004P	30.97857	-97.63597	893.107	840	Middle Trinity	Not Tested	Not Tested	1571	785	790	8.91	240	100	0.001	0	0.89	308	2.5	127	12.2	10.7	74.3	35.5
3/20/2024	E-24-012P	30.94393	-97.59543	725.087	900	Middle Trinity	Not Tested	Not Tested	2420	1228	1230	8.45	360	140	0.005	0.3	0.23	493	3.5	196	15.7	18.6	116	50.2
3/20/2024	E-24-013P	30.97145	-97.60955	823.465	880	Middle Trinity	Not Tested	Not Tested	1351	671	670	8.69	320	120	0.004	0.5	0.35	164	2	114	23	13	111	28.8
4/2/2024	E-02-1215G	31.082273	-97.533265	609.26	713	Middle Trinity	Absent	Absent	4290	2230	2280	8.44	320	320	0.896	2.9	0.57	741	6.2	679	37.4	48	291	75.4
4/2/2024	E-05-010P	30.921512	-97.576403	704.817	140	Edwards (BFZ	Not Tested	Not Tested	651	316	310	8.24	300	260	0.007	3.8	0.24	20	0.05	13	94.1	18.3	310	26.6
4/12/2024	E-02-456G	31.082122	-97.540471	607.286	710	Middle Trinity	Not Tested	Not Tested	4020	2100	2160	8.89	440	300	0.005	0.5	0.21	769	8.25	632	29.2	45.5	260	66.3
4/12/2024	E-24-001P	30.9168	-97.49602	744.451	720	Edwards (BFZ	Not Tested	Not Tested	3280	1691	1720	8.72	400	120	0.004	1.7	0.09	547	8.35	426	16.3	15	102	62.7
4/12/2024	E-24-007P	30.88352	-97.54954	804.493	500	Edwards (BFZ	Not Tested	Not Tested	986	488	490	8.54	300	200	0.004	0.2	0.56	120	3.65	0	37.9	24.2	194	17
4/16/2024	E-24-022P	30.986	-97.35196	489.053	58	Alluvium	Not Tested	Not Tested	808	396	400	8	280	320	0.002	25.2	0	30	0.38	4.94	124	13	362	3.37
4/19/2024	E-03-181P	30.959035	-97.487946	562.28	180	Edwards (BFZ	Not Tested	Not Tested	2194	1110	1120	8.83	360	120	0.008	0.202	0.19	334	6.4	260	13	16.4	99.8	43
5/1/2024	E-02-2580G	30.963791	-97.523048	591.73	138	Edwards (BFZ	Present	Present	1460	731	730	8.25	440	380	0	6.68	0.02	50	0.33	198	144.4	25.6	466	13
5/9/2024	E-24-002P	30.88964	-97.60638	736.379	881	Middle Trinity	Not Tested	Not Tested	1203	596	600	9.34	320	80	0	1.02	0	129	2.25	103	7.27	14.1	76.2	20.2
5/13/2024	N2-09-001P	31.200335	-97.438182	731.699	1000	Middle Trinity	Not Tested	Not Tested	6660	3560	3650	8.66	500	380	0.001	0.259	0.03	2200	6.1	392	8.91	8.77	36	101
5/31/2024	E-23-012P	30.939292	-97.496296	658.689	340	Edwards (BFZ	Not Tested	Not Tested	1772	889	890	8.5	320	160	0.004	0.8	1.22	247	5.75	194	16.1	16.7	109	27.8
5/31/2024	E-23-012P	30.939292	-97.496296	658.689	340	Edwards (BFZ	Not Tested	Not Tested	1759	884	890	8.54	340	160	0	2.7	1.31	232	6.1	184	15.2	16.8	107	30.1
6/7/2024	E-23-081P	30.92588	-97.6885401	856.948	770	Middle Trinity	Not Tested	Not Tested	1197	596	590	8.7	320	140	0.003	0.41	0	143	1.1	99.2	22.5	17.2	127	24.3
6/14/2024	E-12-010P	30.919464	-97.621805	752.856	850	Middle Trinity	Not Tested	Not Tested	1382	689	690	8.55	320	80	0	1.6	1.03	160	2.35	125	4.49	11.2	57.3	28
6/14/2024	E-20-030GU	30.924245	-97.622813	770.801	855	Middle Trinity	Not Tested	Not Tested	2130	1079	1090	8.54	360	120	0.013	0	0.13	411	1.9	196	12.3	19	109	36.3
6/17/2024	E-03-330G	31.018955	-97.492715	584.591	90	wards Equival	Present	Absent	744	363	360	9.17	260	20	0.076	19.48	3.08	24	1.4	14.7	7.95	6.36	26.1	14.8
6/19/2024	E-24-031P	30.90579	-97.70746	949.543	850	Middle Trinity	Not Tested	Not Tested	1460	728	730	8.6	340	200	0.003	0.417	0.09	281	2.4	67.8	24	24.7	161	20.6
6/20/2024	E-09-045P	30.953638	-97.484074	550.264	380	Edwards (BFZ	Not Tested	Not Tested	2670	1357	1380	8.8	380	120	0.327	0.361	0	397	6.5	363	10.1	16.6	93.5	45.5
6/21/2024	E-15-010P	30.961998	-97.568183	695.55	120	Edwards (BFZ	Not Tested	Not Tested	578	281	280	8.15	240	280	0.01	1.4	0.11	6	0.2	8.6	88.2	18.3	295	1.04
6/21/2024	E-15-010P	30.961998	-97.568183	695.55	120	Edwards (BFZ	Not Tested	Not Tested	578	281	280	8.15	240	280	0.01	1.4	0.11	6	0.2	8.6	88.2	18.3	295	1.04
6/21/2024	E-24-005P	30.95749	-97.5737	696.606	100	Edwards (BFZ	Not Tested	Not Tested	697	339	340	8.06	300	360	0.002	0.9	0.07	18	0.5	7.5	89.4	32.8	358	2.05
6/21/2024	E-24-017P	30.999155	-97.606458	683.725	720	Middle Trinity	Not Tested	Not Tested	1099	541	540	9.2	340	80	0.173	0	0.17	120	2.1	82.8	2.16	8.57	35.2	20.5
7/9/2024	E-23-028P	30.983939	-97.453643	554.25	270	Edwards (BFZ	Not Tested	Not Tested	4020	2090	2120	8.62	300	200	0.008	0.3	0.15	905	7.5	424	29.3	26.4	182	62.4
7/9/2024	E-23-083P	31.064309	-97.901805	962.907	540	Lower Trinity	Not Tested	Not Tested	3180	1632	1650	8.56	300	240	0.127	1.2	0.07	549	4.1	467	29.7	28.8	193	55.1
7/12/2024	N2-05-003P	31.028455	-97.760019	906.59	615	Middle Trinity	Not Tested	Not Tested	3300	1697	1720	8.5	340	300	0	0.204	0.03	768	5.35	372	31.3	39.4	240	54.9
7/18/2024	E-02-1527G	30.945483	-97.541237	597.722	135	Edwards (BFZ	Present	Present																
7/25/2024	E-24-020P	31.0007	-97.6395	700.174	640	Middle Trinity	Not Tested	Not Tested	1436	713	710	9.42	340	80	0	0.13	0.08	235	2.95	76.2	3.71	9.92	50	25.6
8/6/2024	E-12-010P	30.919464	-97.621805	752.856	850	Middle Trinity	Not Tested	Not Tested	1653	798	800	8.72	320	80	0	2.6	0.27	324	2.8	146	8.14	15.2	82.8	31.3
8/6/2024	E-20-030GU	30.924245	-97.622813	770.801	855	Middle Trinity	Not Tested	Not Tested	2020	1019	1030	8.68	320	120	0.008	0.8	0.12	382	3	179	8.5	18.3	96.3	35.5
8/12/2024	E-22-085P	31.02529	-97.899609	885.827	400	Middle Trinity	Not Tested	Not Tested	3710	1912	1940	8.53	300	360	0.011	0	0.1	579	2.25	582	54.3	46.6	327	61
8/12/2024	E-23-055P	30.985236	-97.820526	744.721	400	Middle Trinity	Not Tested	Not Tested	1907	961	970	9.23	380	160	0.012	0.2	0.6	189	4.6	249	2.77	10.4	49.6	36.6
8/12/2024	E-24-015P	31.00825	-97.76287	903.187	760	Lower Trinity	Not Tested	Not Tested	2001	1006	1010	8.65	240	120	0.001	0.6	0.1	177	7.15	238	4.02	8.23	33.8	41.6
8/12/2024	E-24-025P	30.97669	-97.77835	755.359	670	Lower Trinity	Not Tested	Not Tested	2400	1219	1230	8.63	460	120	0.016	0.4	0.17	160	7.1	352	0.595	10.6	43.6	51.4
8/12/2024	E-24-026P	31.000716	-97.878569	755.684	380	Lower Trinity	Not Tested	Not Tested	1094	541	540	8.6	240	180	0	0.4	0.39	84	1.25	150	22.7	25.1	160	17.3
8/15/2024	E-12-010P	30.919464	-97.621805	752.856	850	Middle Trinity	Not Tested	Not Tested	1615	809	810	8.56	320	100	0	0.5	0.19	257	2.5	129	7.66	15.3	81.9	32.3
8/15/2024	E-20-030GU	30.924245	-97.622813	770.801	855	Middle Trinity	Not Tested	Not Tested	2100	1061	1070	8.46	360	120	0.011	0.6	0.16	386	3	177	9.4	19.6	104	36.4

8/15/2024	E-23-004GU	30.92032	-97.624425	772.391	860	Middle Trinity	Not Tested	Not Tested	1588	794	800	8.67	320	100	0.002	0.7	0.52	224	2.5	141	6.33	14.3	74.5	27.9
8/21/2024	E-20-030GU	30.924245	-97.622813	770.801	855	Middle Trinity	Not Tested	Not Tested	1932	973	980	8.76	340	120	0.007	1	0.06	352	2.7	171	8.67	17.5	93.5	36.7
8/21/2024	E-23-004GU	30.92032	-97.624425	772.391	860	Middle Trinity	Not Tested	Not Tested	1376	684	690	9.07	320	120	0.018	0.1	0.09	194	2.2	132	3.4	14.1	66.3	26.2
8/22/2024	E-02-2465G	30.977896	-97.80444	832.08	460	Middle Trinity	Not Tested	Not Tested	1545	773	780	9.22	340	80	0.005	0.84	0.95	211	2.65	126	3.86	15.4	72.9	27.6
8/22/2024	E-12-010P	30.919464	-97.621805	752.856	850	Middle Trinity	Not Tested	Not Tested	1659	831	840	8.74	320	120	0.003	1.1	0.12	289	2.85	128	8.7	14.3	80.5	31.7
8/27/2024	E-20-030GU	30.924245	-97.622813	770.801	855	Middle Trinity	Not Tested	Not Tested	2163	1097	1100	8.69	380	140	0.007	0.9	0.13	417	2.75	191	12.3	20.7	116	31.4
8/27/2024	E-23-004GU	30.92032	-97.624425	772.391	860	Middle Trinity	Not Tested	Not Tested	1401	697	700	9.19	320	80	0.001	0.1	0.3	162	2.4	156	3.41	12.7	60.9	26.6
8/27/2024	E-12-010P	30.919464	-97.621805	752.856	850	Middle Trinity	Not Tested	Not Tested	1663	832	840	8.58	320	100	0.007	1.1	0.06	272	2.45	134	10.4	14.7	86.3	33.6
9/4/2024	E-12-010P	30.919464	-97.621805	752.856	850	Middle Trinity	Not Tested	Not Tested	1640	821	830	8.47	340	120	0.002	2.1	0.1	273	2.35	216	16.2	9.42	79.1	34.3
9/4/2024	E-20-030GU	30.924245	-97.622813	770.801	855	Middle Trinity	Not Tested	Not Tested	2420	1228	1240	8.32	380	160	0.003	1	0.21	464	3.1	307	22.5	19.5	136	48.6
9/4/2024	E-23-004GU	30.92032	-97.624425	772.391	860	Middle Trinity	Not Tested	Not Tested	1494	744	750	8.49	340	100	0	2.4	1.25	212	1.85	143	12.2	8.67	66.1	28.4
9/12/2024	E-12-010P	30.919464	-97.621805	752.856	850	Middle Trinity	Not Tested	Not Tested	1515	755	760	8.34	320	100	0.002	0.3	0.17	212	2.1	129	12.7	7.1	60.8	32.3
9/12/2024	E-20-030GU	30.924245	-97.622813	770.801	855	Middle Trinity	Not Tested	Not Tested	2280	1159	1170	8.17	360	160	0.004	1	0.11	457	3.25	216	20.8	16.7	120	46.8
9/12/2024	E-23-004GU	30.92032	-97.624425	772.391	860	Middle Trinity	Not Tested	Not Tested	1489	744	750	8.34	300	120	0	4	1.47	203	2	158	11.3	6.85	56.5	27.8
9/16/2024	E-24-027P	30.944455	-97.510524	612.983	198	Edwards (BFZ	Not Tested	Not Tested	844	413	410	9.08	280	200	0	0.29	0.41	89	2.6	22.8	43.3	27.3	220	11.2
9/18/2024	N3-24-004P	31.157818	-97.236567	595.145	45	Alluvium	Not Tested	Not Tested	820	403	400	8.95	220	180	0.267	9.42	0.11	74	0.65	85.9	58.8	6.85	175	10.6
9/19/2024	E-02-360G	30.859693	-97.358652	546.858	35	Alluvium	Present	Absent	1443	717	720	8.19	240	320	0.004	5.1	0.86	64	0	158	149	14.7	433	10.3
9/19/2024	E-12-010P	30.919464	-97.621805	752.856	850	Middle Trinity	Not Tested	Not Tested	1627	815	820	8.54	340	120	0.008	1.3	0.05	270	2.8	120	15.4	10.5	81.5	36.4
9/19/2024	E-20-030GU	30.924245	-97.622813	770.801	855	Middle Trinity	Not Tested	Not Tested	2087	1054	1060	8.5	360	120	0.001	0.8	0.07	388	3	207	17.3	14.2	102	47.3
9/19/2024	E-23-004GU	30.92032	-97.624425	772.391	860	Middle Trinity	Not Tested	Not Tested	1843	927	930	8.46	360	120	0	2.9	0.28	308	3.55	255	19.1	12.6	99.4	37.9

Appendix J

Salado Spring Samples

Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	DO mg/L	DO %	Turbidity
Big	21-Sep-16	156	48	7.96	284	584	4.26	0.003	0.315			
Boiling	16-Feb-17	119	46	7.57	355	727	4.28	0.007	0.341			
	21-Feb-17	208	120	7.69	293	602	2.9	0.002	0.31			
-97.536574	25-May-17	150	32	8.02	286	587	1.8	0.006	0.3			
30.943783	30-May-17	2:50	30	7.65	287	592	4.5	0.000	0.01			
	29-Jun-17	925	28	7.58	286	587	2.1	0.001	0.3			
	5-Jul-17	10:56	25	7.94	293	602	4.02	0.003	0.26			
	11-Aug-17	1245	21	7.84	294	602	1.8	0.004	0.2			
	14-Aug-17	1102	16	7.64	295	606	2.1	0.002	0.3			
	12-Mar-18	200	12	8.02	290	600		0.002	0.3			
	19-Mar-18	301	22	7.83	291	597		0	0.3			
	23-Mar-18	216	12	7.93	292	601		0.003	NT			
	26-Mar-18	944	12	8.02	290	596		0.003	NT			
	11-Sep-18	1028	23	8.05	297	612		0	0.2			
	29-May-19	1120	122	8.2	320	667		0.005	0.5			
	22-Jun-20	942	11	8.06	287	590		0.008	NT			
	13-Jul-20	215	10	8.06	282	583	4.29	0.002	NT			
	28-Jul-20	1042	10	7.84	296	609	4.48	0.016	NT			
	31-Aug-20	926	6	8.2	290	595	3.8	0.024	NT	7.38	85.2	
	10-Sep-20	1017	18	7.98	298	612	3.1	0.022	NT	7.65	86.5	
	3-Dec-20	830	12	8.02	293	604	4.1	0.003	NT	7.49	84.7	
	2-Jun-21	113	116	7.99	300	616	3.3	0.004	NT	6.37	73.1	0.45
	22-Jun-21	203	547	8.09	295	605	4.7	0.006	NT	7.48	85.3	0.39
	23-Sep-21	1015	18	7.97	296	609	2.8	0.002	NT	7.56	85.7	0.13
	18-Oct-21	1007	14	7.98	298	615	2.9	0	NT	7.26	85.2	0.04
	20-Jun-22	913	11	7.92	298	614	2.4	0.001	NT	7.32	85.5	0.03
	19-Jan-23	1002	6.5	8.07	299	613	2.4	0.001	NT			
	19-Jan-23	333	6.2	8.08	298	613	4	0.001	NT			
	28-Feb-23	1045	9.1	8.21	289	593	2.2	0.005	NT	7.43	85.4	0.08
	7-Mar-23	147	19.9	7.97	298	616	3.5	0.006	NT	7.19	84.6	0.06
	11-Jul-23	943	3.04	8.11	299	615	3.6	0.005	NT	7.27	87.5	0.05
	20-Jul-23	944	4.25	7.88	298	614	4.2	0.003	NT	8.07	97.7	0.07
	4-Aug-23	901	3.74	8.09	300	616	2.9	0.001	NT	8.81	99.2	0.19
	12-Dec-23	324		8.28	296	609	3.5	0.003	NT			0.06
	26-Jan-24		522	7.06	NT	579			NT	8.16	NT	NT
	23-May-24		43	7.15	NT	588	NT	NT	NT	7.68	NT	NT
	10-Mar-25	157	10.5	8.4	300	616	3.6	0.004	NT	7.54	84.7	0.34
	17-Feb-25	312	8.62	8.71	292	599	3.9	0.004	NT	7.43	85.5	0.09

Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	DO mg/L	DO %	Turbidity
	21-Sep-16	214	48	7.77	284	584	4.34	0.003	0.346			
Side Spring	16-Feb-17	122	46	7.57	295	608	4.29	0.004	0.296			
	21-Feb-17	210	120	7.66	293	602	2.3	0.004	0.38			
-97.536704	25-May-17	153	32	7.96	286	593	2.8	0.001	0.2			
30.943861	30-May-17	2:52	30	7.81	279	575	2.1	0.000	0.01			
	29-Jun-17	928	28	7.63	284	582	1.8	0	0.3			
	5-Jul-17	10:57	25	7.89	291	599	3.96	0.005	0.22			
	11-Aug-17	1247	21	7.77	290	595	2.9	0.002	0.2			
	14-Aug-17	1105	16	7.63	294	603	2.2	0.004	0.3			
	12-Mar-18	203	12	8.07	294	605		0.006	0.3			
	19-Mar-18	303	22	7.87	291	597		0.002	0.3			
	23-Mar-18	218	12	8.03	293	603		0	NT			
	26-Mar-18	946	12	8.07	290	598		0.005	NT			
	11-Sep-18	1030	23	8.1	299	616		0.002	0.3			
	29-May-19	1122	122	8.04	297	611		0.004	0			
	22-Jun-20	941	11	8.11	285	587		0.003	NT			
	13-Jul-20	217	10	8.07	283	582	4.31	0.001	NT			
	28-Jul-20	1043	10	7.95	296	608	4.62	0.019	NT			
	31-Aug-20	928	6	8.29	287	592	4.3	0.016	NT	7.47	86.7	
	10-Sep-20	1020	18	7.92	297	611	3.9	0.018	NT	7.07	80.3	
	3-Dec-20	828	12	8.07	293	603	4.6	0.009	NT	7.54	83.6	
	2-Jun-21	116	116	8.09	301	621	1.5	0.008	NT	6.07	69.2	0.32
	22-Jun-21	207	547	8.14	293	604	3.4	0.005	NT	7.08	80.7	0.67
	23-Sep-21	1018	18	7.94	296	610	4.5	0.004	NT	8.5	96.4	0.06
	18-Oct-21	1008	14	7.96	299	614	2.4	0.004	NT	7.65	81.2	0
	20-Jun-22	916	11	7.92	299	616	2.9	0	NT	7.25	84.5	0.15
	28-Feb-23	1048	9.1	8.18	289	597	2.6	0.002	NT	7.45	83.8	0.21
	7-Mar-23	150	19.9	7.98	300	615	3.7	0.002	NT	7.2	84.2	0.25
	11-Jul-23	945	3.04	8.11	298	614	2.4	0.008	NT	7.48	88.5	0.16
	20-Jul-23	947	4.25	7.89	297	611	3.6	0.003	NT	8.26	98.9	0.2
	4-Aug-23	905	3.74	8.11	288	593	2.4	0.001	NT	8.65	97.1	0.31
	12-Dec-23	326		8.24	289	597	3.2	0.007	NT	NT	NT	0.14
	26-Jan-24	NT	NT	7.37	359	552	NT	NT	NT	8.28	NT	NT
	23-May-24	NT	NT	7.51	376	578	NT	NT	NT	7.02	NT	NT
	24-Oct-24	NT	NT	7.21	382	587	NT	NT	NT	8.1	NT	NT
	20-Dec-25	NT	NT	6.89	321	494.2	NT	NT	NT	NT	NT	NT
	10-Mar-25	200	10.5	8.32	303	622	5.3	0.005	NT	6.03	69	1.15
	17-Mar-25	316	8.62	8.61	289	595	5.1	0.001	NT	6.48	72.3	0.76

Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	DO mg/L	DO %	Turbidity
Critchfield	21-Sep-16	244	48	7.73	285	586	4.18	0.003	0.368			
	16-Feb-17	136	46	7.56	295	607	4.3	0.005	0.262			
-97.534881	21-Feb-17	222	120	7.63	293	601	3.1	0.005	0.21			
30.943319	25-May-17	200	32	7.89	289	593	1.9	0.005	0.3			
	30-May-17	2:57	30	7.68	293	602	2.5	0.002	0.27			
	29-Jun-17	935	28	7.6	290	597	2.1	0.002	0.2			
	5-Jul-17	11:03	25	7.83	292	600	3.93	0.004	0.23			
	11-Aug-17	1257	21	7.75	295	608	3.4	0.002	0.2			
	14-Aug-17	1110	16	7.6	293	604	3.4	0.003	0.2			
	12-Mar-18	215	12	7.94	287	587		0.002	0.3			
	19-Mar-18	305	22	8.08	278	573		0.007	0.2			
	23-Mar-18	223	12	7.89	286	589		0.007	NT			
	26-Mar-18	950	12	7.98	290	598		0.009	NT			
	11-Sep-18	1038	23	8.06	287	592		0.011	0.3			
	29-May-19	1131	122	8	297	611		0.004	0			
	22-Jun-20	953	11	7.89	298	616		0.005	NT			
	13-Jul-20	224	10	7.83	296	608	4.16	0.002	NT			
	28-Jul-20	214	10	7.84	297	611	4.31	0.024	NT			
	31-Aug-20	940	6	8.13	289	593	4	0.016	NT	3.09	36.7	
	10-Sep-20	1030	18	7.86	297	612	2.3	0.017	NT	5.53	61.1	
	3-Dec-20	852	12	7.96	294	606	4.5	0.027	NT	7.64	75.2	
	2-Jun-21	125	116	7.9	307	637	2.8	0.002	NT	6.21	71.2	0.25
	22-Jun-21	218	547	8.05	302	623	3.1	0	NT	6.45	73.9	0.58
	23-Sep-21	1027	18	7.93	297	611	3.4	0	NT	8.5	96	0.06
	18-Oct-21	1015	14	7.96	298	614	3.5	0	NT	6.18	71.5	0.03
	20-Jun-22	926	11	7.9	303	622	2.7	0.007	NT	4.22	65.3	1.75
	19-Jan-23	940	6.5	8.07	298	611	2.9	0.02	NT			
	19-Jan-23	315	6.2	8.09	290	598	2.3	0.023	NT			
	28-Feb-23	1058	9.1	8.18	287	589	3.2	0.016	NT	4.67	63.6	0.36
	7-Mar-23	158	19.9	7.98	297	611	1.3	0.016	NT	4.85	62.7	0.35
	11-Jul-23	955	3.04	8.1	306	628	0.4	0.012	NT	6.85	85.6	1.29
	20-Jul-23	1001	4.25	7.89	320	658	0.4	0.007	NT	5.8	72	2.14
	4-Aug-23	918	3.74	8.06	348	715	0	0.003	NT	5.24	65.2	4.03
	12-Dec-23	332		8.09	348	714	0	0	NT			1.65
	10-Mar-25	210	10.5	8.3	300	617	3.8	0.005	NT	8.12	89.8	1.86
	17-Mar-25	327	8.62	8.56	281	578	2.7	0.006	NT	6.23	71.5	3.06

Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	DO mg/L	DO %	Turbidity
	21-Sep-16	251	48	7.92	288	598	4.08	0.003	0.273			
Doc Benedict	16-Feb-17	142	46	7.55	295	608	3.99	0.005	0.345			
	21-Feb-17	245	120	7.62	297	602	2.3	0.004	0.39			
-97.534948	25-May-17	205	32	7.82	296	611	2.3	0.006	0.3			
30.943967	30-May-17	3:06	30	8.09	288	592	2.3	0.002	0.42			
	29-Jun-17	940	28	7.55	271	558	2.1	0.008	0.2			
	5-Jul-17	11:07	25	7.81	293	603	3.85	0.004	0.26			
	11-Aug-17	100	21	7.71	295	602	3.5	0.001	0.2			
	14-Aug-17	1115	16	7.58	293	602	2.1	0.002	0.3			
	12-Mar-18	219	12	7.95	290	599		0	0.3			
	19-Mar-18	315	22	8.01	286	590		0.012	0.3			
	23-Feb-18	228	12	7.89	294	604		0	NT			
	26-Mar-18	953	12	7.96	290	596		0.001	NT			
	11-Sep-18	1045	23	7.92	294	604		0	0.3			
	29-May-19	1140	122	7.96	305	628		0.001	0.5			
	22-Jun-20	955	11	7.89	395	607		0.006	NT			
	13-Jul-20	227	10	7.95	287	592	4.31	0.001	NT			
	28-Jul-20	158	10	7.82	297	612	4.47	0.02	NT			
	31-Aug-20	945	6	8.09	292	601	3.9	0.027	NT	8.23	95.1	
	10-Aug-20	1037	18	7.79	297	611	2.7	0.017	NT	7.42	83.9	
	3-Dec-20	858	12	7.95	294	604	4.7	0.003	NT	7.49	83.4	
	2-Jun-21	134	116	7.88	303	624	2.2	0.007	NT	6.22	71.7	0.61
	22-Jun-21	225	547	8.03	303	620	1.1	0.004	NT	6.08	70.5	0.69
	23-Sep-21	1032	18	7.93	298	613	3.2	0.005	NT	8.49	96.1	0.14
	18-Oct-21	1018	14	7.94	299	615	1.9	0.006	NT	7.24	81.3	0.16
	20-Jun-22	930	11	7.92	303	623	2.8	0.005	NT	6.82	77.4	0.6
	19-Jan-23	946	6.5	8.08	305	628	3.5	0	NT			
	19-Jan-23	319	3.2	8.09	303	622	3	0.003	NT			
	28-Feb-23	1102	9.1	8.16	290	598	2.5	0.005	NT	7.28	85.6	0.22
	7-Mar-23	204	19.9	7.99	298	614	3.6	0	NT	7.37	86.3	0.26
	11-Jul-23	1000	3.04	8.1	299	616	2.7	0.009	NT	7.41	92.7	0.44
	20-Jul-23	1005	4.25	7.95	299	614	2.2	0.009	NT	8.64	96.3	0.94
	4-Aug-23	924	3.74	8.13	298	614	2	0.008	NT	8.43	95.2	1.37
	12-Dec-23	334		8.2	294	604	4.6	0.002	NT			0.01
	10-Mar-25	217	10.5	8.23	304	624	5	0.002	NT	7.16	81.7	0.44
	17-Mar-25	330	8.62	8.5	290	598	4.5	0	NT	7.28	85.7	0.1

Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	DO mg/L	DO %	Turbidity
Anderson	21-Sep-16	300	48	7.87	284	584	4.18	0.005	0.354			
	16-Feb-17	152	46	7.72	297	612	3.99	0.008	0.473			
-97.534503	21-Feb-17	251	120	7.58	295	608	2.4	0.002	0.44			
30.944111	25-May-17	210	32	7.78	295	606	0.9	0.006	0.3			
	30-May-17	3:13	30	7.86	294	604	3.9	0.000	0.27			
	29-Jun-17	945	28	7.59	291	599	2.5	0	0.3			
	5-Jul-17	11:11	25	7.79	292	602	3.88	0.004	0.26			
	11-Aug-17	105	21	7.59	292	600	1.7	0.11	0.1			
	14-Aug-17	1120	16	7.66	291	598	1.9	0.006	0.3			
	12-Mar-18	222	12	7.84	288	596		0.009	0.3			
	19-Mar-18	318	22	7.96	287	589		0.004	0.3			
	23-Mar-18	232	12	7.86	288	594		0.002	NT			
	26-Mar-18	956	12	7.91	290	598		0.001	NT			
	11-Sep-18	1052	23	7.93	291	599		0.003	0.3			
	29-May-19	1146	122	7.93	298	616		0.003	0.5			
	22-Jun-20	1000	11	7.84	298	614		0.01	NT			
	13-Jul-20	231	10	7.88	296	609	4.1	0.022	NT			
	28-Jul-20	202	10	7.74	297	612	4.47	0.023	NT			
	31-Aug-20	953	6	7.98	299	614	3.3	0.34	NT	7.79	89.8	
	10-Sep-20	1042	18	7.81	297	611	3	0.021	NT	7.18	81.1	
	3-Dec-20	906	12	7.91	294	606	3.1	0.006	NT	7.3	81	
	2-Jun-21	140	116	7.8	309	627	1.5	0.006	NT	7.83	95.2	0.45
	22-Jun-21	237	547	8.02	290	596	3.8	0.002	NT	7	81.2	4.97
	23-Sep-21	1040	18	7.92	298	612	2.3	0.004	NT	8.73	98.5	0.29
	18-Oct-21	1022	14	7.93	298	612	3	0.007	NT	7.42	85.6	0.02
	20-Jun-22	936	11	7.92	301	620	2.9	0.002	NT	7.35	81.4	0.2
	19-Jan-23	952	6.5	8.06	303	623	3.7	0.003	NT			
	19-Jan-23	324	6.2	8.08	301	620	3.1	0	NT			
	28-Feb-23	1107	9.1	8.14	292	601	2.9	0.001	NT	7.25	83.3	0.3
	7-Mar-23	210	19.9	7.99	297	610	3.6	0.003	NT	7.38	83.6	0.27
	11-Jul-23	1005	3.04	8.12	298	613	2.2	0.006	NT	7.57	93.3	0.43
	20-Jul-23	1012	4.25	7.97	297	612	2.9	0.006	NT	8.69	96.5	0.56
	4-Aug-23	928	3.74	8.13	297	612	3.5	0.003	NT	8.53	96.2	0.42
	12-Dec-23	338		8.17	296	608	2.3	0.008	NT			0.08
	8-Aug-24											
	24-Oct-24											
	20-Dec-24											
	10-Mar-25	223	10.5	8.27	298	614	4.4	0	NT	8.3	93.9	0.15
	17-Mar-25	332	8.62	8.48	291	599	4.8	0.007	NT	8.67	96.5	0.11

Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	DO mg/L	DO %	Turbidity
Upstream	21-Sep-16	224	48	8.05	241	499	2.58	0.008	0.235			
	16-Feb-17	124	48	7.59	242	500	2.05	0.017	0.326			
-97.536988	21-Feb-17	212	120	7.73	201	417	0.1	0.002	0.3			
30.943897	25-May-17	156	32	8.22	240	493	1.9	0.003	0.3			
	30-May-17	2:55	30	7.9	232	479	2.4	0.005	0.26			
	29-Jun-17	930	28	7.61	250	514	2.3	0.008	0.3			
	5-Jul-17	10:58	25	7.83	265	546	3.1	0.012	0.23			
	11-Aug-17	1250	21	7.66	235	487	2.1	0.014	0.1			
	14-Aug-17	1107	16	7.71	254	524	1.2	0.013	0.3			
	12-Mar-18	205	12	8.32	242	499		0.007	0.2			
	19-Mar-18	305	22	7.93	224	463		0.008	0.2			
	23-Mar-18	220	12	8.23	242	603		0.006	NT			
	26-Mar-18	948	12	8.15	241	498		0.008	NT			
	11-Sep-18	1032	23	8.38	162	338		0.013	0			
	22-Jun-20	939	11	8.25	259	534		0.003	NT			
	13-Jul-20	205	10	8.38	262	540	3.48	0.019	NT			
	28-Jul-20	1032	10	8.44	275	575	3.33	0.044	NT			
	31-Aug-20	912	6	7.98	267	551	2.9	0.052	NT	7.7	96.4	
	10-Sep-20	950	18	8.56	274	562	2.5	0.032	NT	5.83	65	
	3-Dec-20	1110	12	8.67	262	543	1.4	0.016	NT	9.94	96.7	
	2-Jun-21	100	116	8.32	207	430	0.3	0.006	NT	6.94	79.2	12.73
	22-Jun-21	153	547	8.61	109	229	0	0.02	NT	6.46	79.9	257
	23-Sep-21	1000	18	8	295	606	2	0.006	NT	8.73	98.1	0.81
	18-Oct-21	955	14	8.02	278	574	2.4	0.006	NT	8.14	93.1	1.02
	20-Jun-22	900	11	8.2	290	595	1.7	0.025	NT	7.86	91.3	3.77
	28-Feb-23	1036	9.1	8.21	243	506	0.9	0.01	NT	6.88	78.2	2.38
	7-Mar-23	135	19.9	8.3	238	491	0.5	0.007	NT	6.95	80.1	2.27
	11-Jul-23	950	3.04	8.29	268	553	1.1	0.009	NT	8.51	98	2.61
	20-Jul-23	933	4.25	7.98	263	546	2.5	0.015	NT	7.72	96.5	4.74
	4-Aug-23	846	3.74	8.23	274	564	1.1	0.032	NT	8.76	99.6	9.97
	12-Dec-23	319		8.52	291	601	3.5	0.003	NT			0.19
	10-Mar-25	145	10.5	8.64	258	531	1.2	0.002	NT	8.6	93.7	1.8
	17-Mar-25	212	8.62	8.45	248	513	2.2	0.008	NT	8.55	93.5	2.04

Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	DO mg/L	DO %	Turbidity
	21-Sep-16	315	48	7.99	253	523	2.99	0.005	0.312			
	16-Feb-17	156	46	7.81	253	522	2.43	0.014	0.159			
Down stream	21-Feb-17	254	120	7.81	211	438	1.20	0.008	0.260			
	25-May-17	215	32	7.78	257	529	2.00	0.005	0.200			
-97.533989	30-May-17	3:17	30	7.86	257	530	2.60	0.003	0.290			
39.944543	29-Jun-17	950	28	7.61	292	601	2.4	0.004	0.2			
	5-Jul-17	11:13	25	7.8	278	573	3.56	0.006	0.22			
	11-Aug-17	110	21	7.69	263	542	2.4	0.005	0.2			
	14-Aug-17	1125	16	7.73	272	563	2.2	0.01	0.2			
	12-Mar-18	230	12	7.83	270	557		0.002	0.3			
	19-Mar-18	322	22	8.35	260	529		0.003	0.3			
	23-Mar-18	235	12	7.89	270	557		0.005	NT			
	26-Mar-18	1000	12	7.94	269	554		0.006	NT			
	11-Sep-18	1056	23	8.02	191	396		0.012	0.1			
	22-Jun-20	1005	11	7.86	283	581		0.009	NT			
	13-Jul-20	234	10	7.87	291	599	3.91	0.024	NT			
	28-Jul-20	207	10	7.84	277	570	3.84	0.017	NT			
	31-Aug-20	1002	6	7.92	291	603	3.8	0.035	NT	8.34	101.1	
	10-Sep-20	1051	18	7.8	269	556	3	0.033	NT	8.13	91.5	
	3-Dec-20	912	12	7.91	281	578	4	0.17	NT	8.91	91.2	
	2-Jun-21	149	116	7.92	220	456	1.6	0.005	NT	8.09	92.3	8.69
	22-Jun-21	241	547	8.24	130	291	0	0.023	NT	6.52	80.4	208
	23-Sep-21	1050	18	7.91	293	605	3.4	0.004	NT	8.85	99.8	1.01
	18-Oct-21	1028	14	7.97	274	564	1.4	0.008	NT	8.54	90.8	0.7
	20-Jun-22	942	11	7.92	290	600	2.1	0.006	NT	8.45	88.7	0.77
	28-Feb-23	1112	9.1	8.17	267	550	2.9	0.002	NT	8.22	91.4	0.842
	7-Mar-23	215	217	8.2	272	554	3.1	0.004	NT	8.07	92.3	0.872
	11-Jul-23	1012	3.04	8.1	288	594	3.6	0.002	NT	8.03	98.5	0.67
	20-Jul-23	1020	4.25	8.02	287	590	3.4	0.004	NT	7.98	97.1	0.7
	4-Aug-23	936	3.74	8.13	288	593	3.8	0.002	NT	8.33	98.3	1.72
	12-Dec-23	342		8.23	289	594	3.2	0.004	NT			0.15
	10-Mar-25	234	10.5	8.32	276	569	4.1	0.002	NT	8.04	90.1	0.78
	17-Mar-25	335	8.62	8.46	272	560	3.9	0.006	NT	7.98	89.8	0.91

Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	DO mg/L	DO %	Turbidity
	13-Nov-15	unk	unk	unk	279	575	4.00	0.002	0.200			
	22-Sep-16	400	48	7.69	285	588	4.32	0.004	0.341			
Cave Well	16-Feb-17	214	46	7.65	294	608	4.31	0.005	0.293			
	21-Feb-17	308	120	7.75	293	603	4.20	0.000	0.400			
-97.53777	25-May-17	225	32	7.77	292	601	2.20	0.003	0.300			
30.942044	30-May-17	3:29	30	7.66	292	602	1.30	0.003	0.020			
	11-Aug-17	140	21	7.6	293	603	3	0.003	0.1			
	19-Mar-18	333	22	7.9	284	582		0.001	0.3			
	23-Mar-18	242	12	7.87	292	601		0.002	NT			
	26-Mar-18	1009	12	7.89	290	599		0.002	NT			
	11-Sep-18	1110	23	7.93	289	594		0.004	0.3			
	22-Jun-20	1027	11	7.83	296	609		0.005	NT			
	13-Jul-20	242	10	7.85	297	610	4.41	0.019	NT			
	28-Jul-20	222	10	7.81	296	611	4.63	0.026	NT			
	31-Aug-20	1015	6	7.9	296	609	4	0.028	NT	7.38	85.2	
	10-Sep-20	1100	18	7.79	295	602	4.2	0.029	NT	6.89	78	
	3-Dec-20	1120	12	7.93	293	605	4.7	0.015	NT	7.67	85.6	
	2-Jun-21	215	116	7.87	298	614	3.6	0.003	NT	8.4	97.7	0.14
	22-Jun-21	258	547	8	294	605	3.7	0.008	NT	7.57	86.5	0.8
	23-Sep-21	1104	18	7.9	298	611	3.4	0.002	NT	8.56	97	0
	18-Oct-21	1037	14	7.95	298	612	3.2	0.004	NT	8.23	95.2	0.02
	20-Jun-22	956	11	7.92	302	622	2.7	0.004	NT	7.89	87.5	0.2
	11-Jul-23	1026	3.04	8.08	298	613	3.7	0.003	NT	8.02	97.8	0.15
	20-Jul-23	1036	4.25	7.97	299	614	3.4	0.007	NT	8.62	97.4	0.33
	4-Aug-23	947	3.74	8.13	296	610	3	0.002	NT	8.3	93.7	0.06
	12-Dec-23	356		8.24	295	608	3.3	0.001	NT			0.05
	17-Mar-25	306	8.62	8.44	294	606	4.2	0.001	NT	8.37	97.5	0.01

Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	DO mg/L	DO %	Turbidity
Robertson	12-Mar-18	145	12	8.58	297	617	7.3	0	0			
	19-Mar-18	254	22	7.89	285	589	5.7	. 11	0.3			
	23-Mar-18	210	12	8.56	294	615		0.001	NT			
-97.540273	26-Mar-18	935	12	8.53	311	653		0.003	NT			
30.944542	11-Sep-18	1017	23	8.5	205	424		0.027	0			
	22-Jun-20	932	11	8.48	284	592		0.003	NT			
	13-Jul-20	250	10	8.02	301	617	4.29	0.001	NT			
	28-Jul-20	235	10	8.03	297	611	4.61	0.021	NT			
	10-Sep-20	950	18	8.56	274	562	2.5	0.007	NT	7.71	86	
	3-Dec-20	1130	12	8.26	291	599	2.9	0.025	NT	8.87	97	
	2-Jun-21	230	116	8.2	299	612	2.4	0.004	NT	7.04	85.5	1.75
	22-Jun-21	315	547	8.22	284	583	2.1	0.01	NT	7.54	86.3	0.38
	23-Sep-21	1113	18	8.08	297	612	4.7	0.005	NT	8.83	99.6	1.21
	18-Oct-21	1046	14	8.12	278	609	3.5	0.005	NT			0.35
	12-Dec-23	410		8.21	295	608	2.9	0.006	NT			0.79
	10-Mar-25	300	10.5	8.28	293	602	4.8	0.005	NT	7.35	86	2.22
	17-Mar-25	233	8.62	8.43	281	578	3.7	0.011	NT	7.46	86.1	1.99

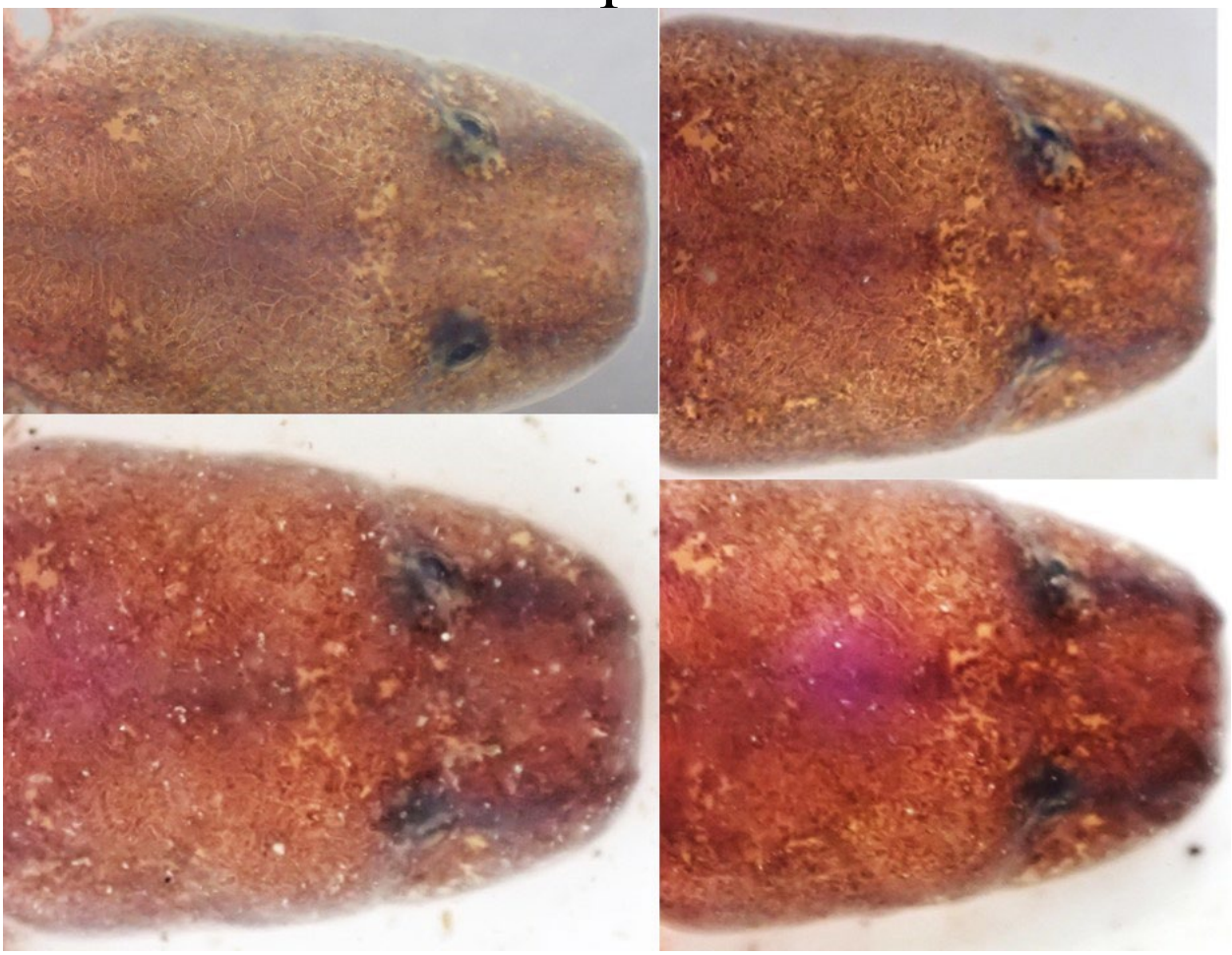
Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	DO mg/L	DO %
Little Bubbly	29-May-19	1117	122	8.09	300	616		0.005	NT		
-97.536847											
30.943759											

Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	Phosphate	Sulfate	Alkalinity	Hardness
S-20-001	17-Jul-20	950	NA	8.41	340	685	0.114	0.016	1.43	0.182	26.9	300	300
30.94159													
-97.519797													

Location	Date	Time	CFS	PH	TDS	Cond.	Nitrates	Nitrites	Fluoride	Phosphate	Sulfate	Alkalinity	Hardness
S-20-002	17-Jul-20	950	NA	8.06	664	1337	0.151	0.017	0.46	0.212	44	200	360
30.941474													
-97.519509													

Appendix K

Salado Salamander Monitoring
Final Report 2024



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Chaodytes ruthae from Robertson Springs.

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Executive Summary

Monitoring of the Salado salamander (*Eurycea chisholmensis*) concluded in December of 2024 finalizing the tenth year of monitoring at the Salado Downtown Spring Complex (DSC) and at Robertson Springs in Bell County (Figure 2). Eleven Salado salamander were detected during 2024 monitoring at Robertson Springs. No salamanders were observed or collected from the DSC. Flow at Side Spring in the DSC have been lower due to infrequent rainfall and consequent dropping of the aquifer. Salamanders were captured during active and passive searches. Rainfall in 2024 reached an average of 49 ft^3/s which is about the average of annual discharge since 2015 (45 ft^3/s; Gauge #08104300 accessed 1/29/2025).

Monitoring continued at Solana Ranch Spring #1 (SR1), providing a sixth year of quarterly data. A total of 78 detections composed of 43 individual salamanders (determined through photographic analysis) were documented over the 2024 seasonal monitoring period. A total of three juveniles were collected in May at SR1.

Sampling at Kings Garden on the Tres Palacios Tract was added to the overall monitoring program for the Salado salamander in 2022. This site was visited four times during 2024 and during each visit salamanders were detected. Kings Garden much like SR1 is a stable site with detections present at each visit including juvenile salamanders documented in the spring. A total of 88 detections composed of 55 individual salamanders (determined through photographic analysis) were documented over 2024. No juveniles were collected in 2024 at Kings Garden.

Introduction

The Salado salamander (*Eurycea chisholmensis*) was first described as a species in 2000 (Chippindale et al. 2000). Although the salamander had been discovered earlier and was in a collection kept at Baylor University by B.C. Brown, no formal description had been made. In addition, collecting individuals from this population proved to be difficult (Chippindale et al. 2000). Due to the limited knowledge about the species (population density, life history patterns), potential threats (dewatering and urbanization), and limited geographical range, this species was listed as threatened by the U.S. Fish and Wildlife Service (USFWS) on February 21, 2014. Critical habitat was designated in 2021 and more information can be found at *http://www.fws.gov/southwest/es/austintexas*.

The Salado salamander is the most northern population of fully aquatic *Eurycea* in Texas. The species is highly restricted geographically and is hypothesized to have a very low population within Central Texas (Norris et al. 2012). Nice et al. (2021) presented an analysis on the effective population size, showing that the northern populations (i.e. DSC, Robertson, Solana) have a lower effective population size compared to sampled populations in the southern group of Salado salamanders (Cowan Creek Spring and Twin Springs). Genetic diversity among all measured Salado salamander sites (Nice et al. 2021) was low, showing a Nei's G_{st} 0.0121, and between northern (Robertson and the DSC) and southern salamander sites, (Cowan and Twin springs) very low; $G_{st} = 0.0042$ (Nice et al. 2021).

Since the listing in 2014, the TXWFCO and TPWD have added two additional Salado salamander locations, one at Anderson Spring in the DSC and one at Keeta Spring further upstream along Salado Creek in the proximity of Kings Garden. Recently, on the Solana Ranch four other salamander locations were discovered by consultants during surveys for development (Figure 1). At this time, the Salado salamander has been documented at 19 locations above Lake Georgetown.

There have been three peer-reviewed publications relating to the Salado salamander (Diaz et al. 2020; Nice et al. 2021; Diaz et al. 2023) since monitoring began. In addition, five peer-reviewed publications describing the aquifer community in this northern section of the Edwards Aquifer have come from the Salado salamander work (Okan Külköylüoğlu et al. 2017; Gibson et al. 2020; Alvear, Dominique et al. 2020a; Alvear, Dominique et al. 2020b; Perez et al. 2023). A new aquifer species in the family Dytiscidae, is being submitted for publication and if formally accepted will be termed *Chaodytes ruthae*, in honor of the Robertson family for their dedication to conservation over the years. Our data on *C. ruthae* suggests strong genetic and morphological evidence for this new genus and species. The data collected on the northern segment of the Edwards Aquifer will hopefully be valuable by aiding in management decisions as the Village of Salado, Bell County and the northern portion of Williamson County continue to expand their conservation plans into the future.

Before the listing of the species, an active research or monitoring program had not been established for this species. In addition, the known community structure of aquifer-dwelling species in the northern segment of the aquifer was not well studied. Due to these gaps in scientific knowledge of the species and the aquifer, the TXFWCO has been collecting data on

habitat associations, reproduction, seasonality, surface densities, and the aquifer community with the intent of creating a long-term data set for the species within its known geographical range.

Methods

Sampling was conducted quarterly this year at the DSC, Robertson Springs, Kings Garden, and SR1 (Figure 1). The DSC consists of Big Boiling, Side Spring, and Anderson Spring. Timed searches were used at the Robertson Spring complex (RSC), while Side and Anderson springs were searched entirely due to the small area of the springs. Solana Ranch Spring #1 was sampled from the spring orifice to a location where the spring run fans out and enters the main channel. Any areas where the water emerged from under the gravel and cobble were searched. Another smaller spring adjacent to the main spring was also entirely searched (from spring run to spring orifice) on each visit. Sampling at Kings Garden Spring was sampled quarterly and followed the same methods as Solana listed below. Sampling at Kings Garden was done from the spring orifice down to a pool approximately 20 feet from the opening. The pool creates a shift from a cobble and gravel run to silt substrates, which are present due to the slower flowing water in the pool.

All springs were actively searched by uniformly turning over rocks and sifting through vegetation and debris. During timed searches all mesohabitats were searched for salamanders. Salamanders were captured using small aquarium nets. Captured salamanders were placed into mesh bags and kept in the spring run for processing (see below).

If a salamander was captured during any survey the primary substrate and vegetation were documented. If a salamander was captured in the drift net placed over an orifice, a designation of cave conduit was applied for substrate. All captured salamanders had two sets of photographs taken. First, photographs alongside a ruler were taken to determine total length of the salamander (mm) using the program ImageJ (Schneider et al. 2012). Following that, a close-up photograph of the head was taken and analyzed with the program WildID (Bolger et al. 2012) to determine if any individuals were recaptures (Bendik et al. 2013).

Drift nets with 250 μm mesh were positioned over the spring opening and used for passive sampling at Robertson and SR1 when spring flow was available. Nets were left in place for seven days to passively collect organisms as part of the monitoring regime. Aquatic invertebrates captured during this sampling were taken back to the lab, sorted, identified, and

enumerated. Most taxa were photographed using a dissecting scope with certain taxa sent to experts for identification.

Due to low surface densities encountered at the sites over the years, the data have been collapsed and examined cumulatively. As in previous reports the overall dataset has been updated to include the 2024 collections. Data was grouped into seasonal blocks for a size distribution analysis. The relative abundance of salamanders was calculated for each season separated into size classes. Size classes are from 0-19, 20-29, 30-39, 40-49, 50-59, 60-69 mm; 1, 2, 3, etc. respectively. Associated substrate and vegetation percentages were updated to reflect the new collections.

Solana Ranch Spring #1 statistical analysis included the probability of capture from quarterly data collected from 2020 – 2024. The probability calculations marked each time a salamander was captured and identified as "1", therefore the capture history of a salamander for 2019 may resemble 101001 (six number places for six events, 0 = not detected, 1 = detected). For this example, the probability is the sum of the captures divided by the number of events, therefore, 0.5. Examining the average probabilities of capture history provides some insight into the effort of sampling between years.

Water level and flow data was collected from the Cemetery Well (Monitor well #5804628) and from the USGS gauge on the Salado Creek (USGS #08104300) from 2014 to 2023. This data was plotted with the total collection of salamanders from each year of sampling since 2015. This analysis was conducted to determine if there is an indicator for the issuance of spring flow at Robertson, and to identify preliminary trends associated with the salamander collections.

Data collected over the years on the northern *Eurycea* spp. has been examined for this report is based on the question: What does a stable site look like in terms of a salamander surface population? Is the answer a number, a location, persistence overtime, presence of juveniles?

The northern clade of *Eurycea* in the sub genus Septentriomolge cover about 45 miles from the Colorado River north to Salado and at this time are made up of three closely related species. These species are known to have a defined breeding season with highest surface densities in the spring and into summer (Bendik 2017; Pierce et al. 2014; Diaz et al. 2023). These species have had monitoring programs going back for over ten years now and have collected various types of data regarding the life history strategies, ranges, and surface estimates.

How to evaluate a site with salamanders present or even an individual salamander has been a question to many individuals working with this genus of lungless brook salamanders. There has been work done on tail width ratios for the species (Nissen and Bendik 2020; Pierce 2022), researchers have documented shrinking in salamanders following long times underground (Bendik and Gluesenkamp 2012), captive populations have documented toe loss (COA reports), and rarely at sites, deformities and loss of limbs have been documented (Diaz Activities 2021). These individual deformities are informative, however, they do not address the bigger question of population structure at the site and how that relates to site stability overtime.

Results

Robertson and Downtown Spring Complex

No spring flow was detected at RSC since approximately June of 2022 till January 26th of 2024. The last collection of a salamander from RSC was in April of 2022 from Bathtub (Middle) Spring. After the rain events in the first and third weeks of January the springs on the Robertson property began to flow again. A net was set on Creek Spring within the Robertson Spring complex on January 30, 2024, and removed on February 9, 2024, after collecting eight salamanders over the collection period. No salamanders were captured at any DSC sites during 2024.

A total of 192 Salado salamanders have been captured since 2015 from the Robertson Spring complex and DSC sampling locations. Only three of these salamanders do not have associated substrate or vegetation data, leaving 189 salamanders to examine with substrate and vegetation associations. A total of 75 (39%) salamanders were captured in drift nets, presumably leaving the aquifer. Of the remaining 114 salamanders caught on the surface, 76 (66%) were caught in gravel as the primary substrate, and 28 (24%) were caught in cobble as the primary substrate (Table 2). Other substrates included boulder, sand and silt. Data from past habitat sampling at Robertson Springs has shown around 50% of the substrate to be silt (Diaz et al. 2016). Salamanders are captured in different types of vegetation, however, in most cases it is caught within watercress (47 individuals; 39%; *Nasturtium* sp.), although in contrast, 54 (45%) were captured in areas with no vegetation.

From the 192 total individuals detected, 181 were used to examine the temporal shift in size for surface populations at the DSC and Robertson Springs. The updated temporal shift in

surface population size classes displays a classic ecological progression from smaller to larger, over the course of the year (Figure 3). In spring, the majority of salamanders captured were in the smallest size class ranging from 10 to 19 mm. The spring trend line shows (dashed blue line) a minimal bimodal hump, with a smaller hump in the fifth size class. In summer (solid green line), the smallest size class is still prevalent by one salamander. However, the second hump in the third size class is comparable. During fall (dot and dash purple line), the community is dominated by the fourth size class. The winter trend line (dotted red) changed a bit due to the additions from the February collections this year. The initial hump of the line in the first size class has smoothed out to show about the same amount of smaller salamanders on the surface with most salamanders in the 4th size class. Overall, more salamanders have been detected in spring, with the fewest detected in winter, with juveniles more prevalent in spring with adults more dominant in fall and winter.

Solana Ranch Spring #1

A total of 78 salamanders were captured at SR1 during 2024 monitoring. After removing recaptures of individual adult salamanders, the capture history shows that 43 adult salamanders were detected and photographed during 2024. This year, potentially due to lower flows, most metrics regarding recaptures and new salamanders encountered are lower than in previous years (Table 3). Probabilities for recapture are listed in Table 3 and have been adjusted from previous reports as the numbers were corrected to reflect the actual captures, recaptures and new individuals. Three of the 43 salamanders were considered juveniles (<25 mm). Reviewing salamander capture data dating back to 2017, the majority of the surface captures were adults (92%). The size average, based on the 608 salamanders detected since 2017, is 53 mm. The largest Salado salamander (87 mm) captured to date was in October 2020. The most frequently encountered salamander (on cover) was captured in 2019 and has been recaptured 9 other times, as recently as August of 2024 and has grown from around 63 mm to 67 mm.

The temporal shifts in size class follow the same trends as the DSC and Robertson springs, but the overall population exhibits larger salamanders on the surface year-round (Figure 4). During the fall there have been no documented occurrences of salamanders in the first or second size class. This type of graph when compared to individual graphs from the other springs in the monitoring area highlight the permanence of the small spring at Solana Ranch by

exhibiting most of the salamander community at size classes 4 – 6 throughout the year (Figure 5).

Densities for each survey event were calculated by taking the salamander count and dividing by the area searched. The estimated area searched for salamanders at Solana Spring #1 was created by using a Trimble Geo7X with submeter accuracy and was determined to be 13.9 m^2. The average density of adults was calculated at 1.85 salamanders per m^3 and the average density of juveniles when present was 0.08 salamanders per m^2. Relationships with rainfall and the discharge of Salado Creek were examined for trends. Rainfall seemed to predict the density estimates the best when rainfall was calculated from the week before the sampling event (Figure 6).

Kings Garden and Pecan Springs

Kings Garden is located just south of the Bell County line and north of Cobbs Spring, for *E. chisolmensis* this will be a new genetic sample based on historical sampling (Figure 1). Other reports have shown a small genetic shift highlighting species variability from Robertson springs and associated sites to the north of Solana Ranch (Nice 2021). The goal now is to monitor Kings Garden Spring quarterly with active searches while sampling aquifer taxa using the passive sampling techniques previously described following the surveys.

Kings Garden Spring run consists of two branches (main and secondary). The branch termed "secondary" was searched for salamanders in April of 2022, however, none were detected. Cobble and gravel substrates were present in the run although most were embedded or covered in silt. The "main" branch has a noticeable orifice where water emerges and flows over cobble and gravel substrates. The flow continued down over a small riffle covered in watercress, and aquatic moss with cobble and gravel substrate. The salamanders were detected in this riffle that was supported by laminar flow. Downstream of the riffle section was a larger silt dominated shallow pond. The silted pond flowed into another riffle that feeds into a more stream like habitat (narrow with flow). This second riffle below the silted pond also has salamanders, however they are not always detected in this riffle.

In 2024 Kings Garden was sampled in April, July, October and December. Sampling in 2024 was conducted in the main branch along the first riffle below the orifice. A total of 88 detections were made during the quarterly sampling events including 15 juvenile salamanders. Following post processing with Wild ID to determine matches among events, a total of 55

individual salamanders were detected. The most salamanders were captured in October this year (n = 22). A total of 12 recaptures from previous years were documented in 2024 (Table 4). Shifts in community relative abundance are similar to what is seen at Solana Ranch Spring #1 (Figure 7) in that the largest representation of juveniles is seen in spring. The curve for spring has size class six as the dominant class which is a bit different than at Solana with size class five being dominant. This may be an artifact of less time sampling, changes in the weather cycles, and/or the change of the curve over time as we populate the data with observations. At this time the curve in the spring appears to show a healthy population at this site.

Our interest in Pipe and Pecan springs would involve restoration work at Pecan Spring. These springs were modified and now have no apparent orifice where water was discharging. Historically, each spring did have flow producing a slow spring run. The restoration should consider altering flow velocity. The low flow coming from either of these springs may allow the accumulation of silt within the interstitial spaces causing embedded cover objects. An elevational gradient from orifice to the end of a spring run could be used to combat the low flow issue. At Pecan Spring my recommendation would be to remove the blocks at the end of the pool and let time and a good rain clean the area. A conversation with Tim Brown in 2023 about the structure at Pecan Spring was interesting as he mentioned the blocks at the end of the pool were limestone, and there weren't quarries back in the time period that the Texas Historic Commission would be interested in; however the rest of the structure, probably so.

Stream Flow and Well Height Data

During this study, assessments of a potential connection between surface salamander population densities and rainfall, stream flow and/or well gauge height were examined. The Cemetery Well (#5804628) has shown the best connection between water level (gauge height) and surface population densities. Recently the available data from the Cemetery Well has been sporadic. From 2015 to 2019, the data was reported monthly. Gaps in the well data began to appear during 2020. For 2020, data is available from March to December is available. In 2021, only data from January and February are available. In 2022, the data reporting increased and includes data from February to December. Data for 2023, is mostly complete and in 2024 the data is complete however, there appear to have been some malfunction of the sensor in April, May and June.

We compared Cemetery Well (feet below surface (fbs)), Salado Creek flow (USGS, ft^3/s), and the number of captured salamanders per year (Figure 8). The goal is to be able to predict when Robertson Springs would have flows based off the Cemetery Well. We understand the Cemetery Well has an inverse relationship with salamander abundance at Robertson Springs (Figure 8). So, as the feet below surface decrease we observe more salamanders at Robertson Springs. Salamanders were captured at Robertson Spring when levels at the Cemetery Well water levels ranged from 12 to 75 feet below the surface. Although there have been varying levels of effort over the years, our data demonstrates that if the springs are dry no salamanders will be detected at the surface. Once the springs on the Robertson property go dry, a large percentage of salamanders are removed from the overall potential yearly. Only when flows return to Robertson Springs do the probabilities of capturing a salamander return.

Surface Estimates and Relative Abundance of Northern Eurycea

Northern *Eurycea* data collected for this exercise were from public reports and peer-reviewed publications. The criteria for data was that the sites had three or more years of available data. Due to the breeding season of the salamanders, only data from spring seasons were used because the juveniles should be present and larger surface densities are available, representing a potentially larger proportion of the overall population. Data was broken into size classes by ten-millimeter groups. Impervious cover scores were collected for each catchment (HUC-14) and estimates of surface populations for open, closed, or genetic estimates were collected.

Eight northern *Eurycea* sites fit the requirements for data. An additional ninth site, Barton Springs, was added to the data collection to provide a larger permanent spring for comparison. Barton Spring has documented the presence of juveniles all year as in San Marcos Springs (Tupa and Davis 1976) to the south. However, even the Barton Springs data from shows a peak in juvenile abundance in the spring months (March, April, May; Bendik et al. In Review: Animal Conservation). A total of 3,783 salamanders from the spring season were used for data analysis from the eight northern *Eurycea* spring sites to create the relative abundance curve for the northern populations, and 4,640 salamanders when data from Barton Springs was included. Impervious cover data was collected from USGS national land cover datasets from all years available (Table 6).

No ecologically meaningful correlations were seen between the impervious cover scores (2021) and any of the size classes. The curve created using the average of the size classes from

the available nine sites shows a slight bimodal curve. There is a small peak in the 1st size class then another large peak in the 5th size class when looking at the northern data only (Figure 9). The data with Barton Springs included about mirrors the solely northern *Eurycea* relative abundance average except it shows more representation of other size classes.

A total of 32 population estimates have been undertaken for the northern *Eurycea* group. These estimates are made up of nine genetic estimates of effective population size, nine open models and 13 closed models. There are a total of 11 models for *E. tonkawae*, five for E. *naufragia*, and 15 for *E. chisholmensis* (Table 8). These data were separated into open and closed models for each species. One caveat is that *E. naufragia* only has one open model estimate at this time, all other estimates are averages of each type of model. The general trend is for the surface abundance estimates to decrease from the southern species *E. tonkawae* to the most northern species, *E. chisholmensis* (Figure 9).

Discussion

Following 11 years of monitoring *E. chisholmensis*, many of the life history patterns (cryptic, depositing eggs in aquifer, breeding season), habitat associations (proximity to spring orifice, watercress, rocks), diets (opportunistic generalist) and associated aquifer communities are similar if not the same as other more well know species south of the Colorado River. Although the Hill Country ends with the southwestern distribution of *E. tonkawae*, these patterns persist, as in hypothesized western species, to the northern end of the neotenic *Eurycea* in Salado Texas.

Many of the concepts within this report have been expanded on year by year. The patterns examined for the Cemetery Well and the potential relationship with the spring complex at Robertson are still elusive although the data for this year on well depths is more complete. While a relationship was shown it is not predictive enough with the salamander data to be useful at this time. The effects of time spent underground for surface species have been documented and correlate to loss of tail width during long periods without surface interaction (Bendik and Gluesenkamp 2013). The temporal shifts in salamander size are classic responses that highlight the breeding season of this species (Diaz et al. 2023). This breeding season in the northern *Eurycea* group appears unique and could be facilitated by the shallowing of the aquifer as the limestone generally decreases in depth as the aquifer moves north. This shallowing of the

limestone in this northern segment (Jones 2003; Collins 2002) could cause the influx of recharge water into inhabited areas more quickly than in deeper portions of the aquifer to the south.

This year we were interested in the northern species grouped as a whole and how their surface densities or surface estimates that might explain or provide insights into why the surface populations of Salado salamanders are smaller in general than the species to the south. Right now, there are 19 known locations for the Salado salamander, and of those sites only four or five are large enough to conduct mark and recapture estimates. The trend seen in smaller surface abundance estimates in the species as you move north, from *E. tonkawae* to *E. chisholmensis,* is interesting and corresponds with a general narrowing of karst availability following the same northern trend (Collins 2002; Jones 2003). In general, the karst thickness goes from a combined ~420 ft of combined thickness in Travis County to ~260 ft in southern Bell County. The reduced available karst in the range of the Salado salamander would imply less space available for salamanders to occupy than thicker karst spaces to the south, and in turn smaller overall abundances. This trend is alluded to in genetic estimates of effective population size between the northern and southern populations of Salado salamanders (Table 7; Nice et al. 2021).

Although these three species (*E. tonkawae*, *E. naufragia*, and *E. chisholmensis*) share a number of biological traits and strategies, trying to compare their habitats or springs is difficult as they encompass different types of apparent landscapes. The landscape not only changes south to north organically but shifts from heavily populated areas north of the Colorado River to less densely populated areas into southern Bell County. Underlying geological differences in flow paths, conduit size, karst thickness, porosity, all known and unknown, are also most likely to occur differently for each species and potentially at each site. In addition, the different timespans in which development has been present around an individual spring site has proven to be a factor showing negative correlations in densities of salamanders within older developments (Bendik et al. 2014) and larger body burdens of contaminants in salamanders at these older sites (Diaz et al. 2020). Taking what we know about the southwestern *E. tonkawae* populations in the most northeast stretches of the Hill Country, in gaining streams, is problematic to compare to *E. tonkawae* sites in the Brush Creek area with flatter surface topography, losing streams, higher population density and comparatively newly developed areas (Figure 10).

Other insights into why the surface densities or surface populations of *E. chisholmensis* are historically small (Norris et al. 2012), are addressed extensively in previous reports. Briefly,

the hydroperiod of the springs (i.e. the duration of discharge over time), proximity to larger order streams, (i.e. ecological disturbance), individuals are slow to emerge from the subsurface (~1 salamander every 30 days; Diaz and Bronson-Warren 2018), and finally this species is on the northern fringe of neotenic *Eurycea* distribution in Texas. In comparison, the surface populations present at SR1 and Kings Garden, to the south of Salado, have always been detectable and relatively consistent. Kinbgs Garden and SR1 have consistent hydroperiods, are not near a larger order stream or river, and are south of the known northern locations for these salamanders and presumably on a thicker layer of available kart formations.

The views expressed in this paper are those of the authors and do not necessarily reflect the view of the U.S. Fish and Wildlife Service or Texas Parks and Wildlife Department.

Table 1. Number of Salado salamanders collected during quarterly monitoring using active and passive sampling techniques in 2024.

Season	Robertson	Downtown Spring Complex	Solana Ranch Spring #1	Kings Garden
Spring	0	0	29	32
Summer	0	0	33	22
Fall	1	0	12	26
Winter	10	0	4	8

Table 2. Habitat associations of the Salado salamander, determined by 189 salamanders collected from 2015 to 2024 at the Downtown Springs Complex (DSC) and Robertson Springs.

	#	%
Cave Conduit	75	39.68
Substrate		
Silt	3	2.63
Sand	3	2.63
Gravel	7	66.67
Cobble	28	24.56
Boulder	4	3.51
Vegetation		
***Sagittaria* sp.**	1	0.83
***Nasturtium* sp.**	47	39.17

Filamentous Algae	5	4.17
***Ludwigia* sp.**	3	2.50
***Amblystegium* sp.**	5	4.17
***Hydrocotyle* sp.**	2	1.67
none	54	45.00
Organic Debris	2	1.67
Grass	1	0.83

Table 3. History of quarterly monitoring data from Solana Spring Ranch #1 (SR1). "Recaps Previous Years" are individuals that were captured more than once between sampling years.

	2020	2021	2022	2023	2024
Recaps Previous Years	15	30	34	41	29
Recaps for Year	16	10	13	11	5
New Individuals	67	63	46	50	38
Naive Probability of recap	15	30	34	41	29

Table 4. History of quarterly monitoring data from Kings Garden Spring. "Recaps Previous Years" are individuals that were captured more than once between sampling years.

	2022	2023	2024
Recaps Previous Years	0	7	12
Recaps for Year	0	6	5
New Individuals	23	38	50
Naive Probability of recap	0	8	13

Table 5. Water quality collected during monitoring in 2024.

		Date	Temperature °C	Dissolved Oxygen mg/L	pH	Conductivity µs/cm
Big Boiling	Bell	1/26/2024	20.64	8.16	7.06	579
Robertson	Middle	1/26/2024	20.8	8.26	7.45	552
Robertson	Beaver Spring	1/26/2024	20.3	8.26	7.47	551
Side	Bell	1/26/2024	20.8	8.28	7.37	552
Stagecoach	Bell	1/26/2024	20.37	NA	7.29	594.7
Robertson	Middle	2/9/2024	20.57	7.02	7.29	449
Robertson	Middle	2/13/2024	20.34	7.21	7.34	459
Kings Garden	Williamson	4/23/2024	20.97	7.38	7.04	481.6
Solana	Bell	5/14/2024	20.55	7.9	7.4	454
Solana	Bell	5/14/2024	20.57	7.49	7.42	454.6
Big Boiling	Bell	5/23/2024	20.98	7.68	7.15	588
Robertson	Middle	5/23/2024	21.08	7.26	7.54	562.7
Robertson	Beaver Spring	5/23/2024	20.94	7.8	7.14	569
Side	Bell	5/23/2024	21.14	7.02	7.51	578

Kings Garden	Williamson	7/26/2024	21.28	6.61	7.57	534
Solana	Bell	8/7/2024	21.44	6.9	7.93	408.2
Anderson	Bell	8/8/2024	21.72	6.67	8.15	514
Robertson	Middle	8/8/2024	22.13	6.7	8.24	503
Stagecoach	Bell	8/8/2024	24.43	6.3	8.21	495.6
Anderson	Bell	10/24/2024	21.28	7.88	7.17	589
Robertson	Middle	10/24/2024	20.99	7.93	7.21	584
Robertson	Beaver Spring	10/24/2024	21.38	5.52	7.23	588
Side	Bell	10/24/2024	21.00	8.1	7.21	587
Stagecoach	Bell	10/24/2024	20.99	8.12	7.11	587
Kings Garden	Williamson	10/28/2024	21.72	6.8	8.21	513.6
Kings Garden	Williamson	12/18/2024	21.3	7.27	6.84	539.2
Anderson	Bell	12/20/2024	20.7	6.94	6.76	522.6
Robertson	Middle	12/20/2024	20.34	6.58	6.89	503.5
Side	Bell	12/20/2024	20.2	0.687	6.89	494.2
Solana	Bell	1/8/2025	19.18	8.00	7.00	429.6

Table 6. Data used to create an average relative abundance of northern Eurycea in the spring and impervious cover scores for each catchment (HUC-14) the spring is in. DSC = Downtown Spring Complex in Salado Texas. $\bar{x}$ = Average.

		USGS Impervious Cover			Size Class Relative Abundance								
	n	2006	2011	2021	1	2	3	4	5	6	7	Adults	Juveniles
Solana	323		0.07	0.17	0.10	0.03	0.02	0.11	0.40	0.31	0.03	623	51
Twin Springs	364	1.49	1.75	4.65	0.01	0.01	0.04	0.09	0.54	0.28	0	1058	18
DSC/Robertson	73	5.06	6.25	10.86	0.47	0.21	0.12	0.08	0.10	0.03	0	93	79
Swinbank	985	5.38	6.26	11.78	0.01	0.02	0.09	0.23	0.43	0.18	0.006	3615	57
Cowen	212	1.34	7.57	19.24	0.10	0.11	0.07	0.16	0.35	0.18	0.004	641	50
Avery Deer Spring	343	13.22	22.36	40.10	0.09	0.11	0.07	0.16	0.33	0.18	0.035	606	39
Avery Deer SH	534	13.22	22.36	40.10	0.07	0.15	0.15	0.10	0.29	0.19	0.015	1222	93
Hill Marsh	949	13.22	22.36	40.10	0.03	0.07	0.09	0.19	0.45	0.14	0	1006	32
Eliza	857	13.24	16.80	27.36	0.17	0.19	0.22	0.24	0.27	0.29	0.324	552	305
$\bar{x}$					0.12	0.11	0.10	0.15	0.35	0.20	0.05		
$\bar{x}$ **No Barton Springs**					0.11	0.09	0.09	0.14	0.36	0.19	0.01		

Table 7. List of all available surface estimates for the northern *Eurycea* group. Date signifies when the study began and years is how long it went on after that. Cam = Cambrian Environmental.COA = City of Austin. TXST = Texas State University. SWU = Southwestern University.

Species	Location (Spring)	Date	Years	Who	Type	Closure	Capture Probability (*p*)	$N_{something}$
E. tonkawae	Avery Deer	2013	11	TXST/Cam	POPAN 5	Open	0.09	114
E. tonkawae	Avery Springhouse	2013	11	TXST/Cam	POPAN 5	Open	0.059	445
E. tonkawae	Brushy Creek	2015	8	TXST/Cam	POPAN 5	Open	0.298	3
E. tonkawae	Hill Marsh	2013	11	TXST/Cam	POPAN 5	Open	0.046	928
E. tonkawae	PC (1&2)	2013	10	TXST/Cam	POPAN 5	Open	0.105	150
E. tonkawae	PC1	2023	1	Cam	Robust CMR	Closed	0.431	162.0
E. tonkawae	PC2	2023	1	Cam	Robust CMR	Closed	0.228	386.4
E. tonkawae	Lanier	2007	3	COA	CMR	Closed	0.26	225
E. tonkawae	Wheeles	2007	3	COA	CMR	Closed	0.19	581
E. tonkawae	Ribelin	2007	3	COA	CMR	Closed	0.26	144
E. tonkawae	Spicewood	2022	1	Cambrian	Robust CMR	Closed	0.522	5.8
E. naufragia	Swinbank	2012	10	SWU/Cambrian	POPAN 5	Open	0.093	374
E. naufragia	Swinbank	2012	1	SWU	Robust CMR	Closed	0.350	137
E. naufragia	Capitol Aggregates (Avant)	2020	1	Cambrian	Robust CMR	Closed	0.143	88.7
E. naufragia	Cedar Breaks Hiking Trail	2020	1	Cambrian	Robust CMR	Closed	0.190	206.0
E. naufragia	Buford Hollow	2020	1	Cambrian	Robust CMR	Closed	0.190	6.0
E. chisholmensis	Cobbs	2016	5	Cambrian	POPAN 5	Open	0.1	161
E. chisholmensis	Cowan	2016	8	Cambrian	POPAN 5	Open	0.141	56
E. chisholmensis	Twin	2012	9	SWU/Cambrian	POPAN 5	Open	0.065	112
E. chisholmensis	Twin	2021	3	Cambrian	Robust CMR	Closed	0.195	55.4

E. chisholmensis	Twin	2012	1	SWU	Robust CMR	Closed	0.046	119.0
E. chisholmensis	Solana	2019	1	TPWD/USFWS	CMR	Closed	0.55	41
E. chisholmensis	Solana	2020	1	TPWD/USFWS	LincolnPetersen	Closed	0.11	80
E. chisholmensis	Anderson	2018	1	USFWS/TXST	Genetic			1328
E. chisholmensis	Big Boiling	2018	1	USFWS/TXST	Genetic			719
E. chisholmensis	Side	2018	1	USFWS/TXST	Genetic			25
E. chisholmensis	Robertson	2018	1	USFWS/TXST	Genetic			2600
E. chisholmensis	Solana	2018	1	USFWS/TXST	Genetic			2209
E. chisholmensis	Cowan	2018	1	USFWS/TXST	Genetic			2441
E. chisholmensis	Twin	2018	1	USFWS/TXST	Genetic			1877
E. chisholmensis	Northen Group	2018	1	USFWS/TXST	Genetic			1785
E. chisholmensis	Southern Group	2018	1	USFWS/TXST	Genetic			1931

Table 8. The three northern Eurycea species (*E. tonkawae*, *E. naufragia*, and *E. chisholmensis)* and their average of open and closed models along with the averages for just open and closed models. N = the number of estimates used to create the averages.

Species	Average	N
Jollyville	286	11
Open	328	5
Closed	251	6
Georgetown	162	5
Open	374	1
Closed	109	4
Salado	91	6
Open	110	3
Closed	74	4

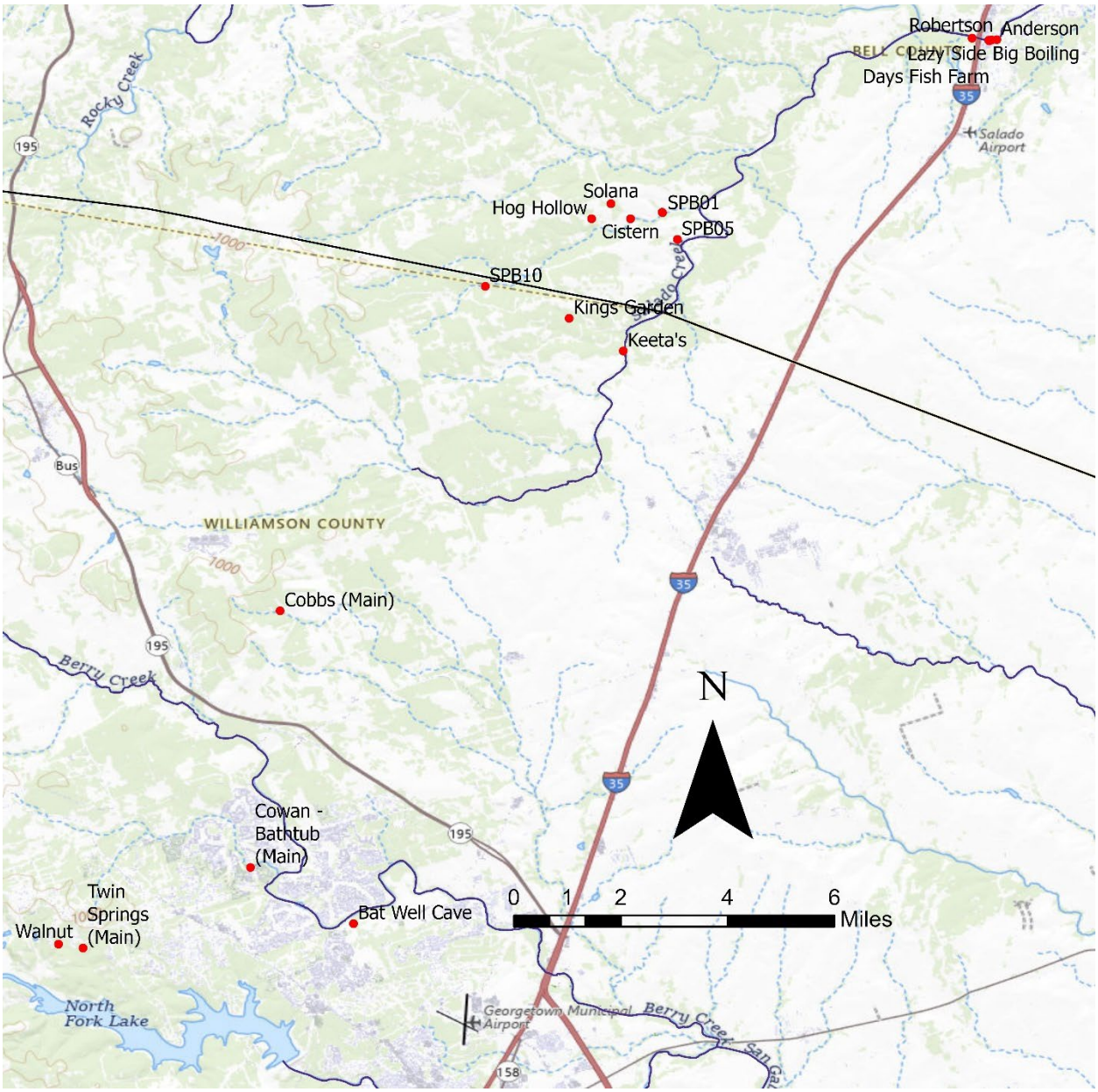


Figure 1. Study area for Salado salamander monitoring or searches conducted from 2015 to 2024.

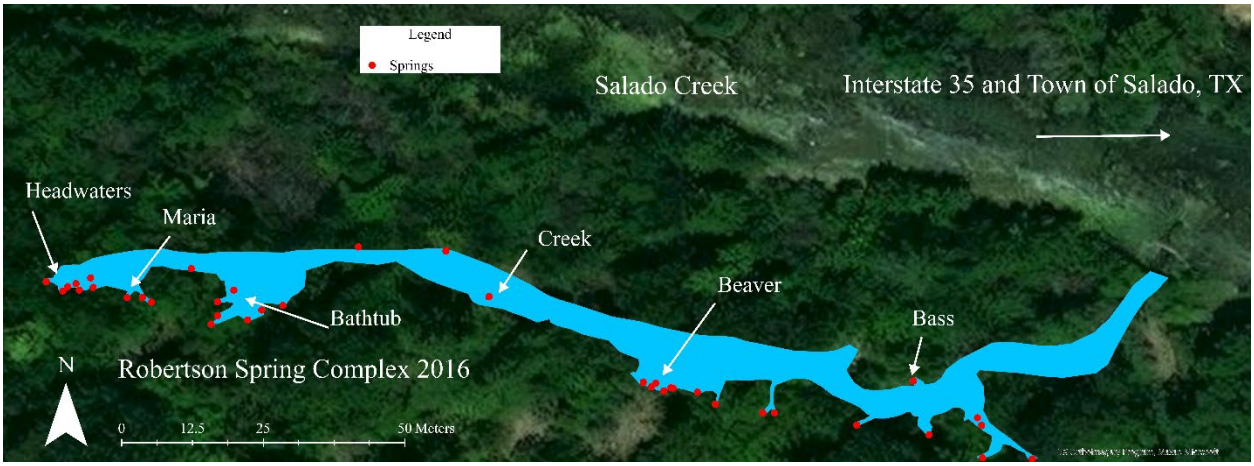


Figure 2. Map of Robertson Springs showing spring zones mapped in 2016 during optimal flow conditions at the site. Red dots are orifices, and the blue is the spring run terminating into Salado Creek. From July of 2022 to January 2024, the system was dry to the creek.

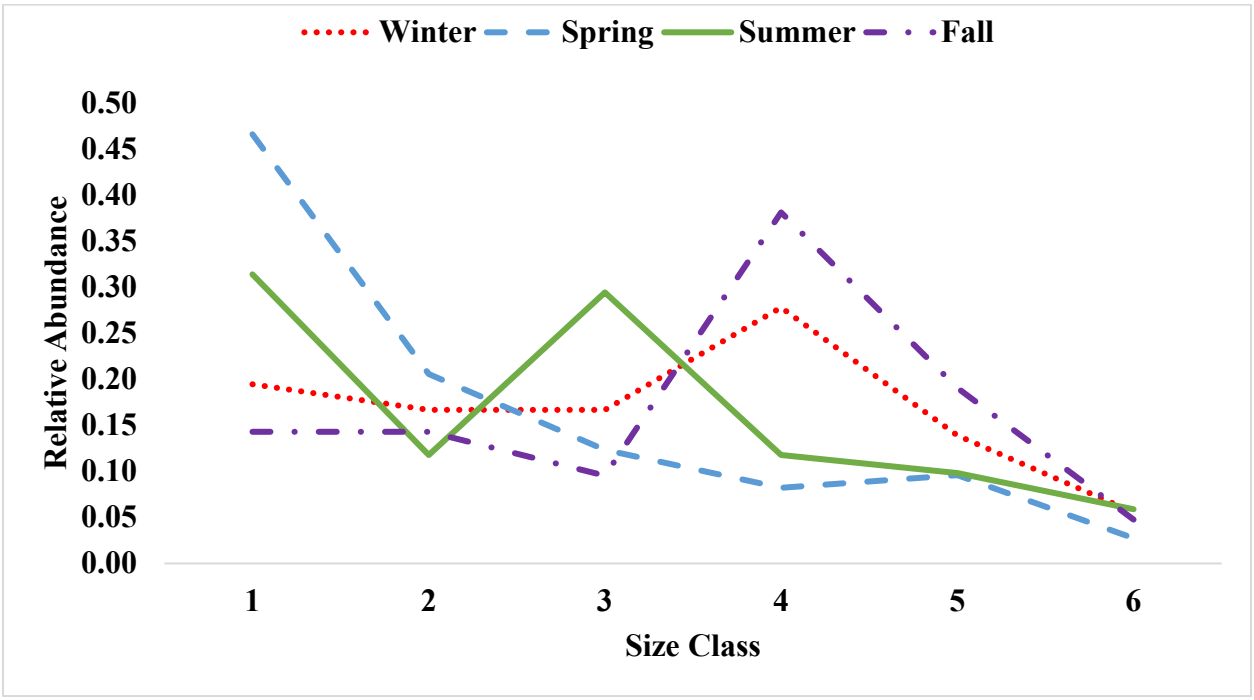


Figure 3. Relative abundance of Salado salamanders reflecting the dominant size class captured from the Downtown Spring Complex (DSC) and Robertson Springs by season from 2015 to 2024 for 181 salamanders. Size classes range from 10 - 19.99 mm = 1; 20 - 29.99 mm = 2; etc.



Figure 4. Relative abundance of Salado salamanders reflecting the dominant size class captured from the Solana Ranch Spring #1 by season from 2018 to 2024 for 747 salamander observations. Size classes range from 10 - 19.99 mm = 1; 20 - 29.99 mm = 2; etc.

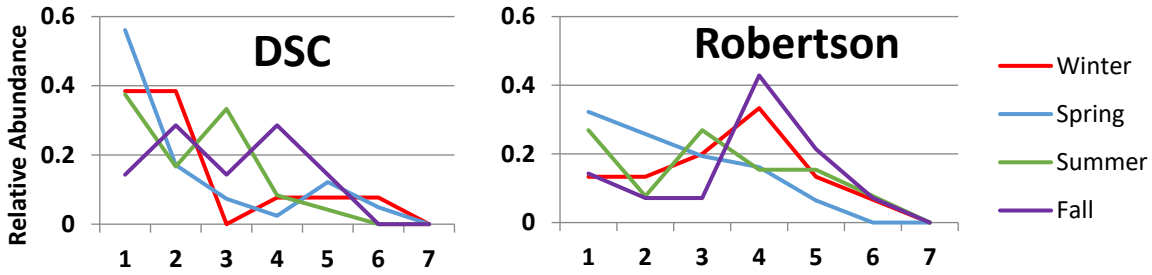


Figure 5. Relative abundance of Salado salamanders reflecting the dominant size class captured from the Downtown Spring Complex (DSC) and Robertson Springs by season from 2015 to 2024. Salamander observations; 86 from Robertson Springs and 85 from the DSC. Size classes (x-axis) range from 10 - 19.99 mm = 1; 20 - 29.99 mm = 2; etc.

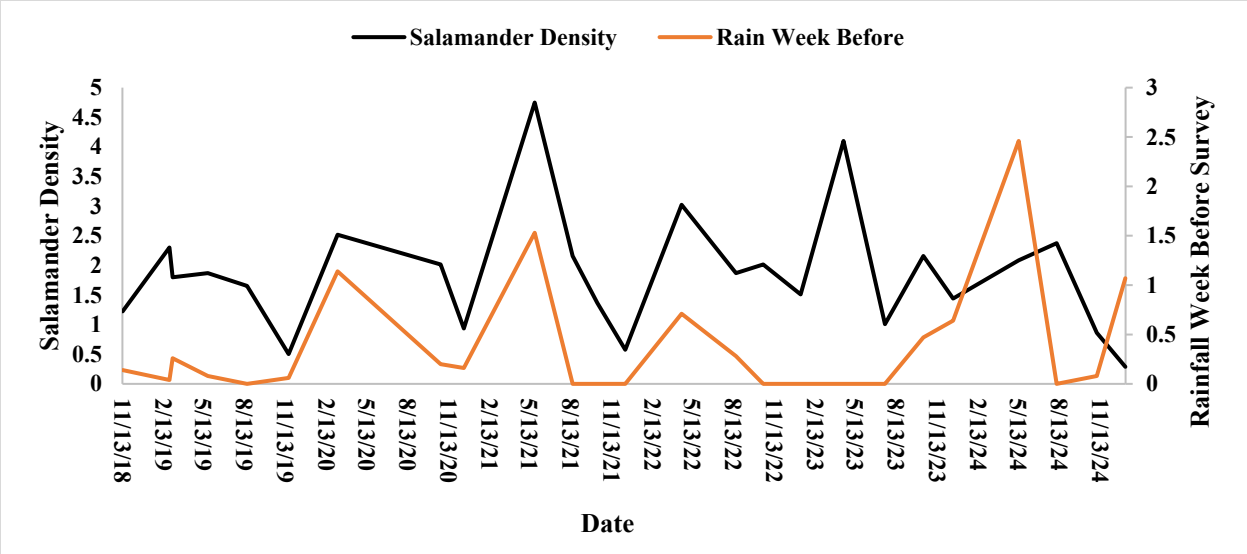


Figure 6. Salamander density at Solana Ranch Spring #1 over time and the rain fall in inches the week before the survey taken from WeatherUnderground.

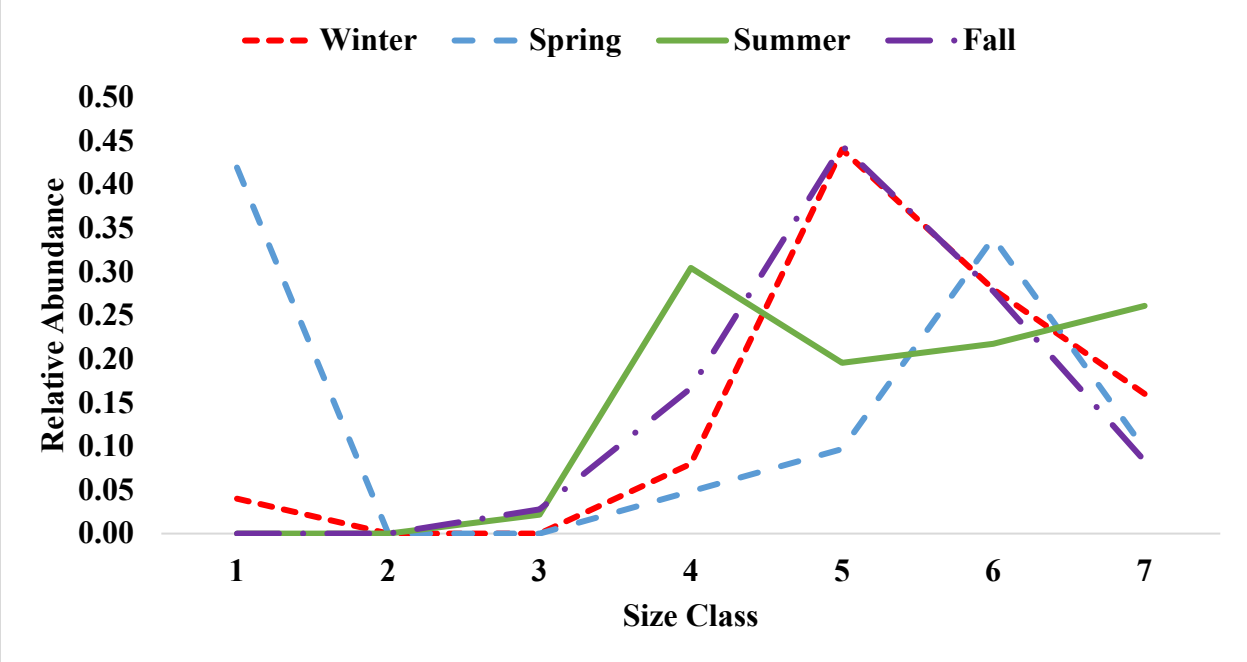


Figure 7. Relative abundance of Salado salamanders reflecting the dominant size class captured from King Garden Spring by season from 2022 to 2024 for 169 salamander observations. Size classes range from 10 - 19.99 mm = 1; 20 - 29.99 mm = 2; etc.

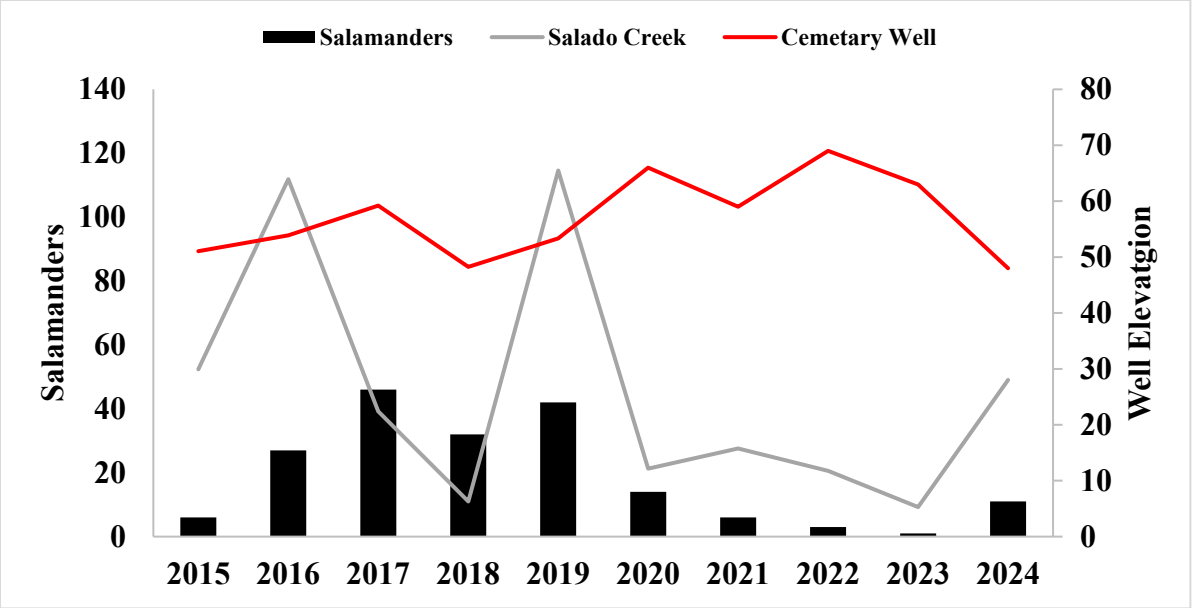


Figure 8. Data collected from the Cemetery Well (Monitor well #5804628; feet below surface) and from the USGS gauge on the Salado Creek (USGS #08104300; ft^3/sec) plotted with the total collection of salamanders (n) from each year sampled at the Downtown Spring Complex (DSC) and Robertson Springs.

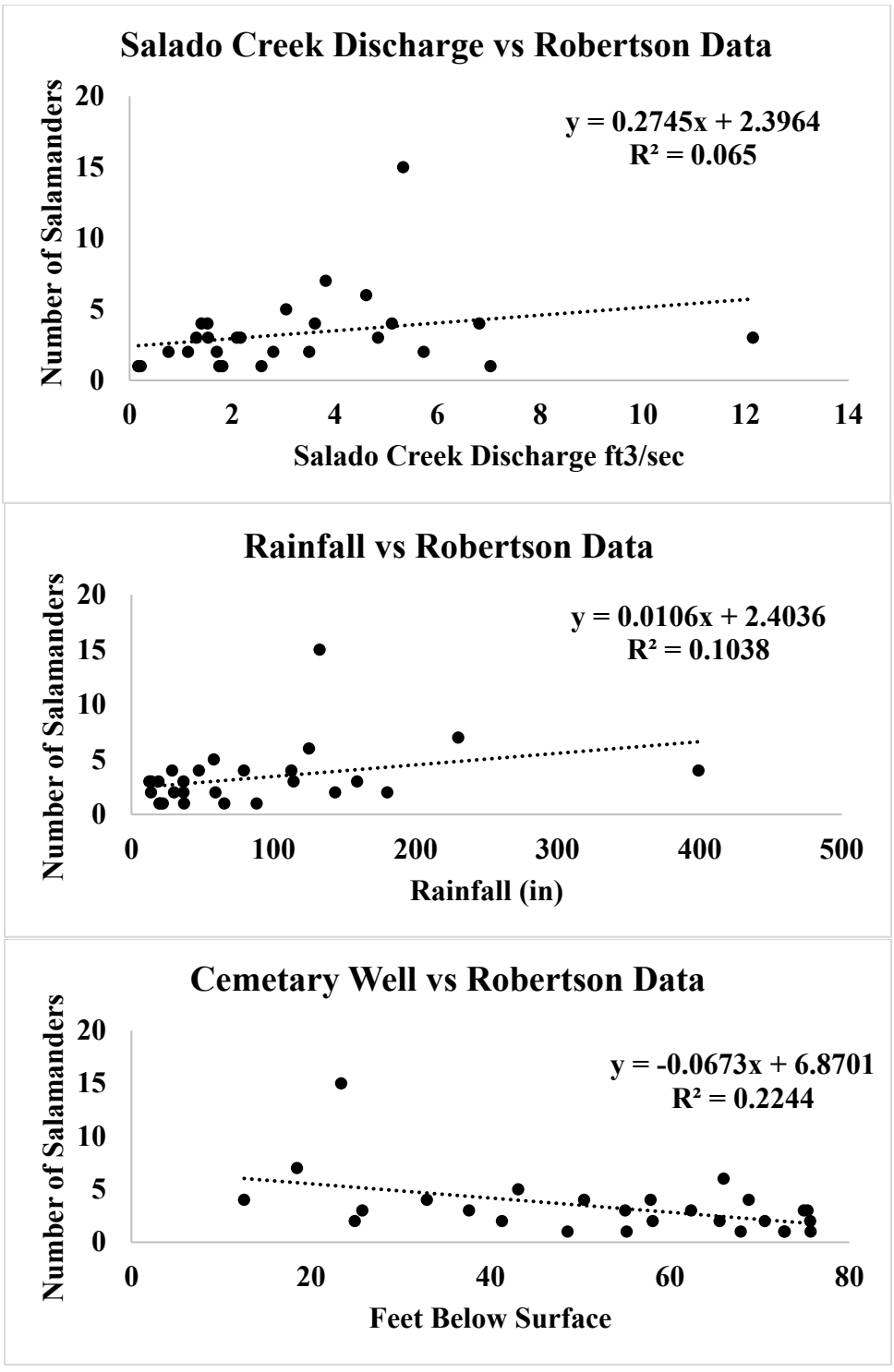


Figure 7. Relationships between Salado salamander capture data from Robertson Springs (2015 to January 2023) and predictors of abundance data.

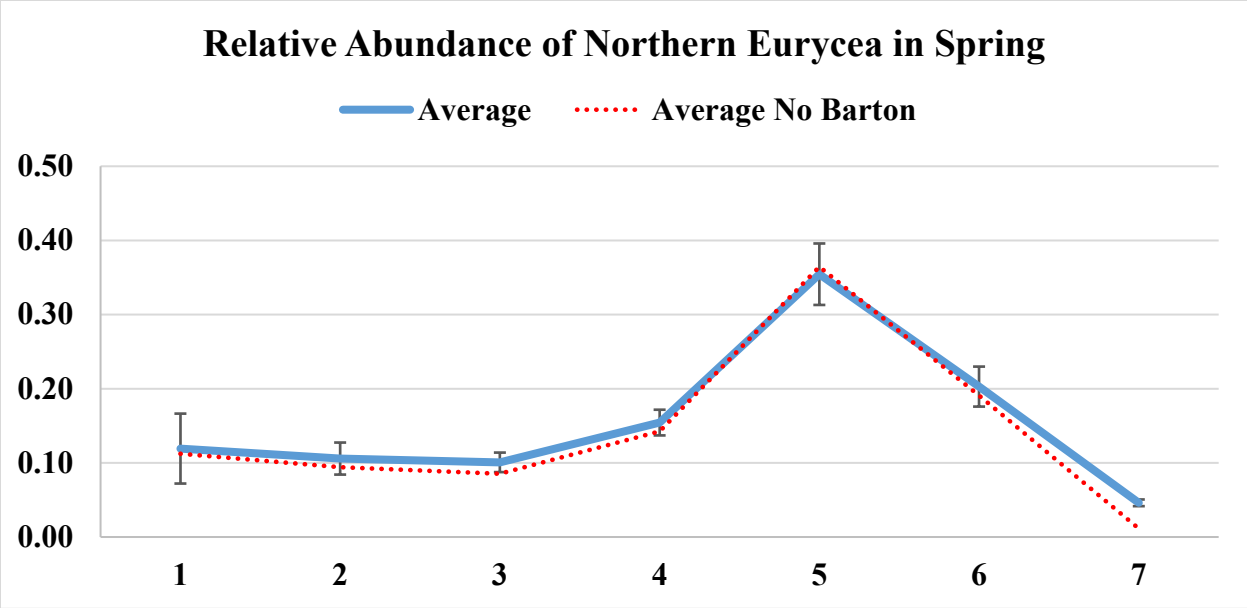


Figure 8. Average relative abundance of northern *Eurycea* in the spring season collected from 8 sites with large enough surface densities to execute mark and recapture work representing 3,783 salamanders. Error bars represent standard error for each size class.

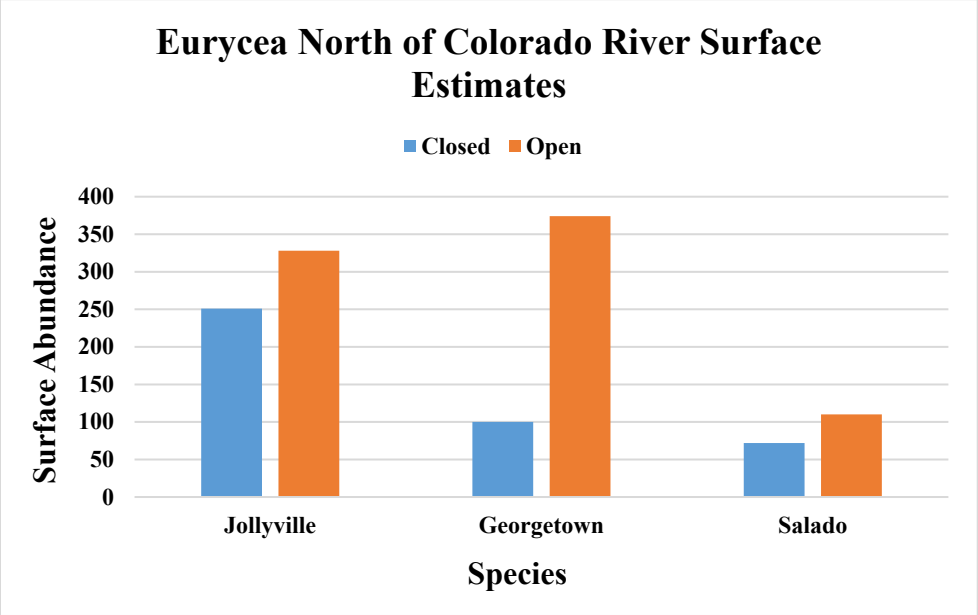


Figure 9. Bar chart showing average of estimates from different abundance models for each northern species of *Eurycea* species (*E. tonkawae*, *E. naufragia*, and *E. chisholmensis)*. It should be noted that the Georgetown open model is comprised of only one individual estimate, not an average as the others, as it was the only open model available for *E. naufragia* at the time of this report. All closed model averages show a decreasing trend in surface abundances as species ranges move north.

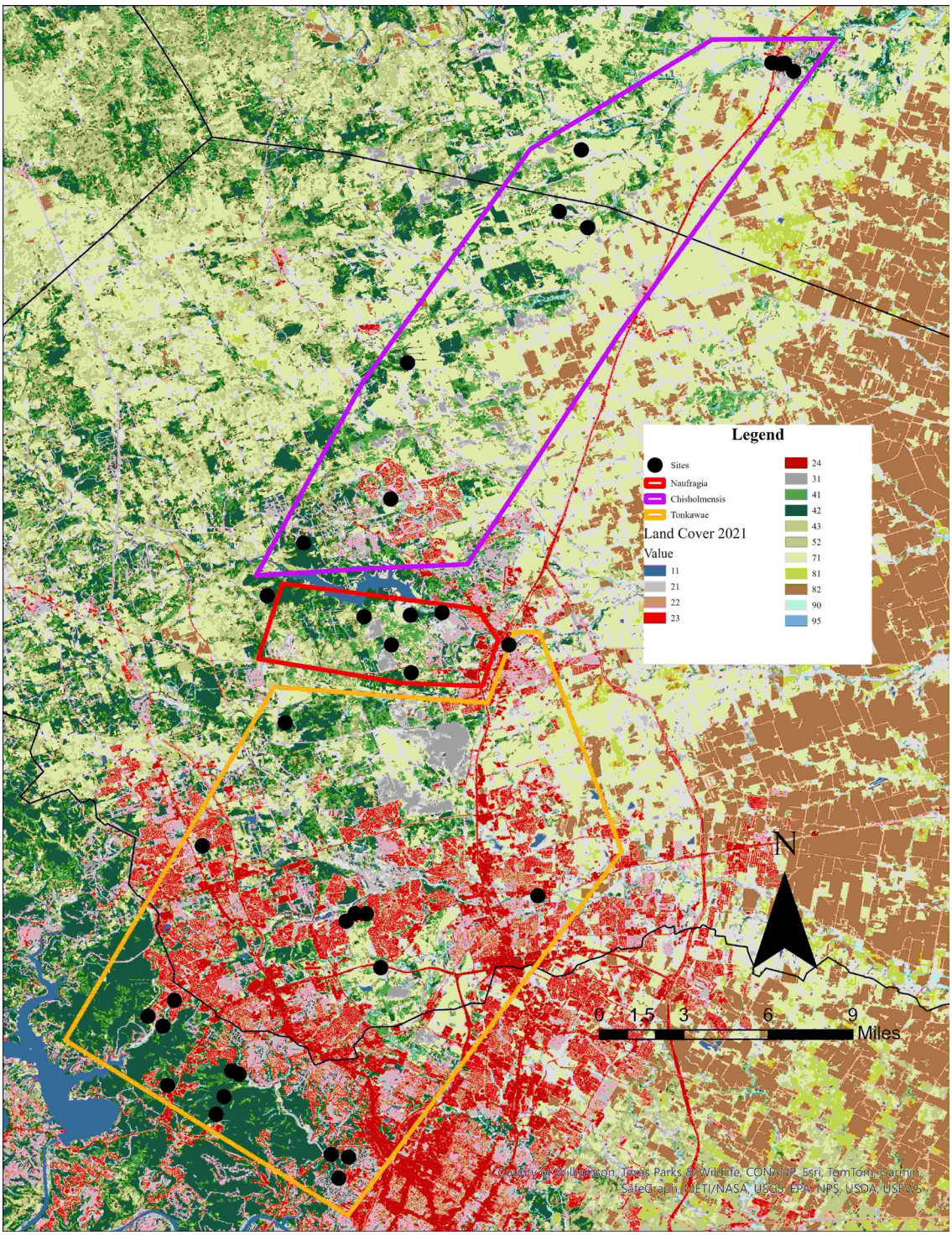


Figure 10. Three northern Eurycea species ranges and land cover present across their respective ranges. Colors signify different types of land cover. Reddish colors = Development.

The views presented herein are those of the authors and do not necessarily represent those of the U.S. Fish and Wildlife Service or Texas Parks and Wildlife Department.

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Appendix L

RAINWATER HARVESTING

Rainwater harvesting is an innovative alternative water supply approach anyone can use. Rainwater harvesting captures, diverts, and stores rainwater for later use.



Implementing rainwater harvesting is beneficial because it reduces demand on existing water supply, and reduces run-off, erosion, and contamination of surface water.

Rainwater can be used for nearly any purpose that requires water. These include landscape use, stormwater control, wildlife and livestock watering, in-home use, and fire protection.

A rainwater harvesting system can range in size and complexity. All systems have basics components, which include a catchment surface, conveyance system, storage, distribution, and treatment.

For more information, please visit the **Texas A&M AgriLife Extension – Rainwater Harvesting website** and the **Texas Water Development Board – Rainwater Harvesting website.**

Related Resources



Rainwater Harvesting Book: Homeowners and landowners can construct systems to capture, store and use rainwater to water their landscape plants.



SEARCH

Appendix M

BRUSH CONTROL

Brush Busters is a cooperative program of the Texas AgriLife Research and Extension Service to expedite the adoption of Tactical Brush Management Systems (TBMS) technology.

Brush Busters methods are easily understood, even by those with little or no previous experience in brush control. We recommend only "select" treatments capable of killing at least 7 out of 10 of the plants treated. Brush Busters methods make every attempt to keep equipment costs and complexity to a minimum, and whenever possible, to use non-restricted herbicides. One-page pamphlets are available from most County Extension offices that describe, in a simple 3-step process, the Brush Busters control methods for mesquite, pricklypear and cedar. Videos are available for checkout through most County Extension offices that demonstrate the Brush Busters control methods. For those who are computer literate, a CD-ROM Brush Busters program is a vailable that uses interactive video, audio and graphics to teach the use of Brush Buster methods for mesquite control.

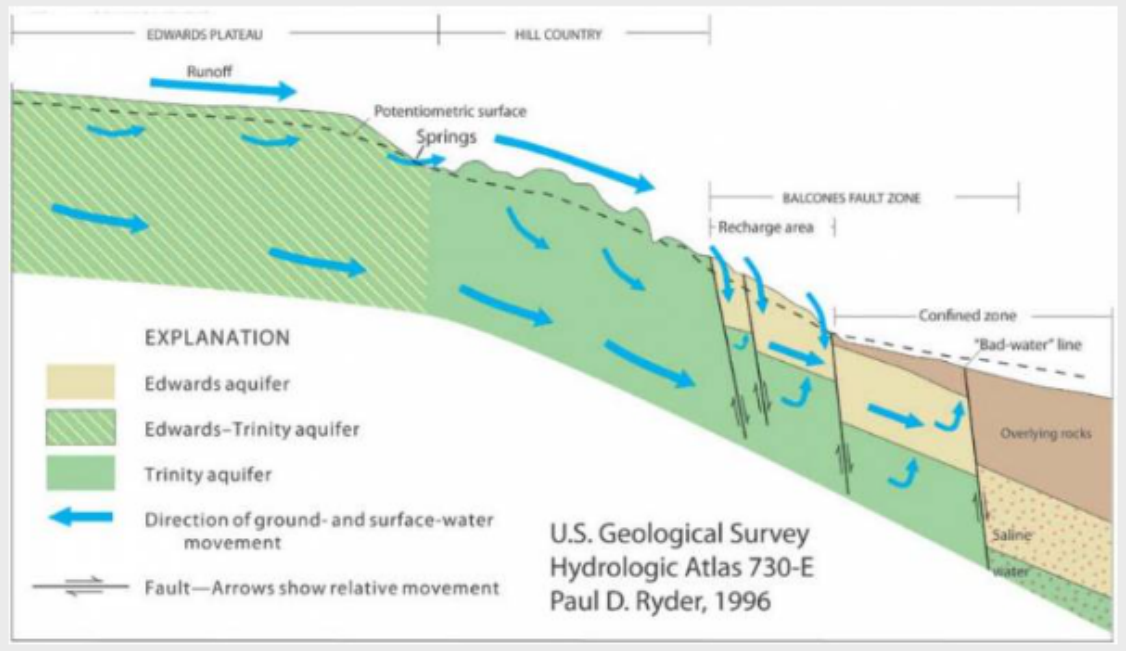
- Cedar
  - Leaf Spray Method
  - Spot Spray Method
  - Top Removal Method
  - How to Estimate Costs for Controlling Small Cedar
- Cut Stumps
  - Cut Stump Spray for Hardwood Species
  - Cut Stump Spray for Redberry Cedar
- Huisache
  - Leaf Spray Method
  - Stem Spray Method
- Macartney Rose
  - Leaf Spray Method
- Mesquite
  - Leaf Spray Method
  - Stem Spray Method
  - How to Estimate Cost for Controlling Mesquite
- Pricklypear
  - Pad or Stem Spray Method
  - Top Removal Method
  - How to Estimate Costs for Controlling Pricklypear
- Saltcedar
  - Leaf Spray Method
  - Stem Spray Method
- Tallowtrees
  - Leaf Spray Method
  - Stem Spray Method
- Yucca
  - Herbicide + Oil Whorl Spray
  - Undiluted Whorl Spray
- Equipment



SEARCH

Appendix N

RECHARGE ENHANCEMENT



Recharge enhancement is an important tool to help encourage recharge of our groundwater. Urban development decreases direct recharge from precipitation but introduces new sources of water which, in most instances, can increase groundwater recharge if applied properly.

Best Management Practices for Recharge Enhancement

Onion Creek Recharge Enhancement



SEARCH

Appendix O

Clearwater UWCD - Edwards BFZ Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statutory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #	58-05-404	58-12-501	58-04-910	58-04-908	58-05-106	58-04-635	58-04-704	58-12-204	58-12-205	58-04-418	58-04-638	58-04-639	58-04-363	40-61-712	58-04-641	58-04-702	58-04-816	58-04-628	58-13-502	58-04-502	58-03-702	40-61-409	M-22-0019	58-12-203	40-61-710	40-60-913	58-04-623	58-04-602	58-04-508	58-04-509	58-04-510	58-04-626	58-04-512	58-04-513	58-04-627	58-04-637	58-04-317	58-04-631	58-05-108	58-04-633	58-04-634	58-05-110	58-05-509	58-04-316	58-04-305	58-04-640	58-04-319	40-61-711	58-04-321	N3-22-0010
CUWCD #	E-02-021P	E-02-0401	E-06-054P	E-16-002P	E-18-009P	E-18-0005U	E-18-107P	E-19-020P	E-19-021P	E-19-035P	E-19-075YU	L-19-0011U	S-19-1139	T-21-0908U	Magnolia	hur. W. Capinos's Croc	Rest Stop	Salado Cemetary of Bertle	M-05-8032	Salado ISD	Gault - Edwards	Bell Co. DOT	Windy Meadows	Dillman Trust	Donald & Sheryl Rich	Stagecoach (deep)	Salado WSC (#1)	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Salado ISD (WS)	Bloomer Mfg.	James Construction	Charles Boeseker	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #3 - Bradley	Scott Law Well #3 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SOG Properties	Reddyles LLC	Salado RV Park	
Well Name	Avila	Tilbo	Young	Coppin	Thaler	Brown	Edwards	Yepez	Yepez	Fishbeck	Campbell	Lowry	Law	Magnolia	hur. W. Capinos's Croc	Rest Stop	Salado Cemetary of Bertle	Salado ISD	Gault - Edwards	Bell Co. DOT	Windy Meadows	Dillman Trust	Donald & Sheryl Rich	Stagecoach (deep)	Salado WSC (#1)	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Salado ISD (WS)	Bloomer Mfg.	James Construction	Charles Boeseker	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #3 - Bradley Woods	Scott Law Well #3 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SOG Properties	Reddyles LLC	Salado RV Park	
Highest	-78.70	-210.60	-24.91	-58.30	-76.20	-41.37	-63.90	-236.00	-230.55	-33.72	-10.80	-10.36	-53.80	-90.76	-63.75	-69.82	-116.65	-4.40	-37.10	-38.10	-53.32	-126.14	-80.72	-233.49	-22.53	-69.12	-166.10	-215.57	-56.14	-66.74	-60.00	-58.40	-75.59	-72.49	-34.60	-94.93	-74.50	-67.10	-69.99	-46.54	-41.42	-73.80	-17.95	-19.22	-71.27	-80.00	-69.80	-30.24	-77.80	-106.00
Lowest	-100.00	-222.60	-40.10	-73.30	-128.10	-50.40	-68.00	-252.80	-252.00	-40.00	-15.20	-13.90	-87.40	-110.59	-63.75	-78.25	-129.53	-89.10	-83.30	-60.00	-59.97	-130.75	-86.00	-248.00	-56.80	-59.90	-106.50	-64.07	-72.74	-92.34	-120.10	-97.70	-103.19	-103.70	-50.70	-108.40	-75.30	-78.10	-85.50	-108.53	-108.04	-86.29	-63.70	-57.20	-75.10	-102.21	-70.40	-32.01	-81.22	-106.00
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4/30/2014 17:00																			-61.40																														
5/1/2014 0:00				-70.70												-73.98	-125.66	-72.25		-52.00	-57.20						-88.70	-31.00							-45.30													
7/31/2014 17:00																			-62.80																														
8/1/2014 0:00				-70.90												-74.24	-128.09	-82.71		-52.50	-57.30						-90.20	-33.80							-45.50													
8/4/2014 0:00																													-70.74	-88.30	-115.80	-91.80	-95.77	-83.91															
10/31/2014 17:00																			-56.80																														
11/1/2014 0:00				-67.60												-74.33	-127.60	-77.79		-53.70	-58.58						-87.00	-31.20							-50.70													
12/1/2014 0:00																													-58.44	-77.14	-110.90	-66.90	-88.27	-102.50															
12/31/2014 18:00																			-59.00																														
1/1/2015 0:00				-67.40												-73.77	-125.52	-80.01		-41.10	-59.01						-77.70	-29.60							-47.50													
1/5/2015 0:00																												-31.07	-58.30	-76.30	-89.90	-66.10	-87.57	-102.10														
2/2/2015 0:00																												-29.77	-58.24	-83.04	-108.10	-65.70	-86.47	-102.71														
3/3/2015 0:00																												-30.67	-58.44	-74.74	-105.90	-64.70	-86.37	-102.81														
4/6/2015 0:00																												-29.17	-57.94	-83.50	-108.70	-65.70	-86.07	-103.10														
5/4/2015 0:00																												-29.77	-67.54	-84.54	-110.60	-88.90	-86.87	-103.21														
5/31/2015 17:00																			-53.80																														
6/1/2015 0:00				-61.10												-72.97	-121.67	-23.43		-38.30	-53.32						-74.80	-23.97	-64.64	-81.14	-106.30	-63.50	-80.47	-76.61															
6/1/2015 17:00																																									-46.00							
7/6/2015 0:00																												-26.77	-69.34	-80.74	-83.20	-62.50	-83.07	-76.61														
8/3/2015 0:00																												-54.87	-69.74	-82.14	-110.50	-85.30	-87.47	-77.70														
9/1/2015 17:00																			-59.50																-44.10													
9/14/2015 0:00				-69.20												-72.70	-122.76	-77.55		-50.40	-58.26						-79.30	-27.70	-68.04	-83.54	-113.50	-65.30	-88.89	-78.51															
10/5/2015 0:00																												-28.47	-68.54	-84.84	-113.20	-66.50	-91.30	-79.80														
11/2/2015 0:00																												-25.07	-57.54	-83.04	-91.60	-64.70	-82.87	-77.21														
11/29/2015 18:00				-61.20															-59.00	-45.40		-54.33													-38.80													
11/30/2015 0:00																-72.03	-120.44	-16.20									-70.80	-23.90																				
12/4/2015 0:00																													-57.34																			
12/7/2015 0:00																												-24.77	-57.34	-71.14	-84.00	-61.20	-79.27	-102.60														
1/1/2016 0:00																-72.83																																
1/4/2016 0:00																												-24.60	-57.34	-79.54	-83.50	-61.30	-78.09	-102.49														
1/4/2016 18:00																			-55.40	-47.00															-38.80													
1/5/2016 0:00				-62.20												-71.91	-119.60	-61.53			-57.16						-69.30	-24.60																				
2/1/2016 0:00																												-25.60	-57.50	-70.34	-80.50	-60.20	-79.69	-102.59														
3/7/2016 0:00																												-26.60	-57.90	-71.94	-105.50	-61.50	-81.69	-102.69														
4/1/2016 12:00																																			-102.79												
4/4/2016 0:00																												-25.80	-66.34	-73.50	-109.10	-62.70	-81.10	-102.79														
4/18/2016 17:00																			-50.50	-47.50															-38.14													
4/19/2016 0:00				-62.65												-71.39	-120.16	-15.78			-56.49						-68.50	-26.30																				
5/2/2016 0:00																												-25.40	-58.50	-71.54	-105.10	-61.30	-80.00	-102.69														
9/1/2016 0:00																-71.27	-117.89				-55.51																											
9/2/2016 0:00																		-4.49																														
9/6/2016 0:00																												-23.00	-56.70	-68.64	-101.90	-58.40	-76.29	-102.99														
7/5/2016 0:00																												-25.20	-67.50	-73.74	-109.70	-61.00	-82.69	-74.19														
8/1/2016 0:00																												-26.40	-67.74	-80.30	-109.20	-83.70	-85.20	-75.79														
8/25/2016 0:00																												-25.40	-65.94	-72.54	-109.00	-61.70	-82.09	-74.89														
8/29/2016 17:00																			-53.60	-48.33																					-59.50	-58.50						
8/29/2016 18:00																																							-73.80								
8/30/2016 0:00																											-74.22																				
10/1/2016 0:00																												-26.40	-61.40	-73.54	-111.90	-62.90	-84.49	-76.49														
10/6/2016 0:00																-71.60	-120.43	-74.40																													
10/19/2016 0:00																-71.75	-121.11	-73.02			-57.56																										
11/1/2016 0:00																-71.78	-121.40				-57.75																										
11/2/2016 0:00																		-72.91																														
11/7/2016 0:00																												-27.20	-59.14	-73.34	-110.30	-62.90	-82.69	-76.69														
11/28/2016 0:00																												-27.40	-58.74	-72.74	-108.70	-62.50	-82.89	-76.69														
12/1/2016 0:00																-71.95	-121.79	-65.21			-57.79																										
12/6/2016 0:00																-71.93	-121.67	-51.22			-57.74																										
12/12/2016 0:00																												-27.57	-58.14	-72.50	-101.70	-63.14	-83.29	-102.69														
12/19/2016 0:00																												-27.77	-58.34	-72.54	-107.30	-63.20	-83.29	-102.49														
1/4/2017 18:00																			-52.20	-48.80															-40.80				-74.70		-47.40	-47.70					
1/5/2017 0:00																-72.00	-121.90	-63.20		-58.00							-75.40																				
1/5/2017 18:00					-84.10																																										
1/9/2017 0:00																												-27.80	-58.34	-73.54	-107.50	-63.70	-84.09	-102.69														
2/6/2017 0:00																-72.06	-121.71	-53.37			-57.52							-27.37	-58.14	-73.54	-88.30	-62.90	-83.09	-85.23														
3/5/2017 0:00																-72.23	-121.11				-57.43																										
3/6/2017 0:00																		-43.11											-57.94	-72.74	-86.80	-62.10	-82.29	-83.69														
3/6/2017 12:00																												-27.20																				
3/30/2017 17:00					-81.30														-48.00	-48.10		-57.48													-47.20						-47.60	-46.90					
3/31/2017 0:00				-65.50												-72.35	-120.90	-60.13									-75.00																				
4/3/2017 0:00																												-26.97	-61.70	-72.74	-86.90	-62.10	-102.70	-82.49														
5/8/2017 0:00																-72.46	-121.15	-69.82			-57.26							-55.17	-67.94	-82.94	-112.70	-86.70	-83.29	-102.99														
6/4/2017 0:00																-72.48	-121.34				-57.43																										
6/5/2017 0:00																		-63.60										-27.37	-68.44	-79.94	-82.10	-62.60	-84.19	-76.49														
7/3/2017 0:00																													-70.94	-83.14	-110.80	-85.30	-90.99	-79.29														
7/5/2017 17:00					-105.10														-46.40	-44.70															-50.30				-75.20		-58.60	-58.00					
7/6/2017 0:00		-37.40	-66.50													-72.59	-122.22	-73.75			-58.06						-88.90																				
7/31/2017 0:00																												-31.17	-71.54	-85.04	-114.90	-87.10	-94.89	-81.93														
8/9/2017 0:00																-72.67	-122.76	-71.86			-57.88																										
9/5/2017 0:00																-72.70	-123.00	-54.90			-56.92																										
9/11/2017 0:00																												-28.77		-76.74	-111.80	-90.50	-93.09	-80.49														
10/2/2017 0:00																												-29.07	-70.54	-75.14	-110.80	-66.00	-92.89	-79.69														
10/2/2017 17:00					-99.10														-52.50	-52.20															-44.10				-74.70		-57.30	-56.50					
10/3/2017 0:00		-37.30	-66.90																				-79.40																								
11/6/2017 0:00																-72.85	-123.66	-54.90			-58.36							-29.37	-70.14	-74.74		-64.70	-91.99	-80.09														
11/26/2017 18:00																																													-71.80			
12/4/2017 0:00																-72.85	-123.96	-56.04			-58.41							-29.77	-70.54	-76.24	-111.90	-91.50	-86.99	-102.89														
12/28/2017 18:00					-79.30														-53.10	-51.20		-58.49

Clearwater UWCD - Edwards BFZ Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statutory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #	58-05-404	58-12-501	58-04-910	58-04-908	58-05-106	58-04-635	58-04-704	58-12-204	58-12-205	58-04-418	58-04-638	58-04-639	58-04-363	40-61-712	58-04-641	58-04-702	58-04-816	58-04-628	58-13-502	58-04-502	58-03-702	40-61-409	58-12-203	40-61-710	40-60-913	58-04-623	58-04-402	58-04-508	58-04-509	58-04-510	58-04-626	58-04-512	58-04-513	58-04-627	58-04-637	58-04-317	58-04-631	58-05-108	58-04-633	58-04-634	58-05-110	58-05-509	58-04-316	58-04-305	58-04-640	58-04-319	40-61-711	58-04-321
CUWCD #	E-05-021P	E-02-045E	E-04-054P	E-10-092P	E-13-009P	E-18-060Q	E-18-107P	E-19-020P	E-19-021P	E-19-035Q	E-19-075Q	E-19-081Q	E-19-113P	L-21-0580	L-21-0476	W-06-0010	W-06-0011	W-06-0032	M-12-014E	M-13-0941	M-14-041P	M-16-0021	M-22-001P	N1-18-002P	N1-20-001P	N1-20-002P	N1-20-003P	N1-20-004P	N1-20-005P	N1-20-006P	N1-20-007P	N1-20-008P	N1-20-009P	N1-20-010P	N1-20-011P	N1-20-012P	N1-20-013P	N1-20-014P	N1-20-015P	N1-20-016P	N1-20-017P	N1-20-018P	N1-20-019P	N1-20-020P	N1-20-021P	N1-20-022P	N3-22-001P
Well Name	Avila	Tilton	Young	Coppin	Thaler	Brown	Edwards	Yopuu	Yopuu	Fishbeck	Campbell	Lowry	Low	Magnolia	hur. W. Capinon's Croc	Rest Stop	Salado Cemetary of Bertle	Salado ISD	Gault - Edwards	Bell Co DOT	Windy Meadows	Dillman Trust	Donald & Sheryl Rich	Stagecoach (deep)	Salado WSC (#1)	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Salado ISD (MS)	Bloomer Mfg.	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #6 - Reed	Scott Law Well #7 - Brady Woods	Scott Law Well #9 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SDG Properties	Reddyles LLC	Salado RV Park
Highest	-78.70	-210.60	-24.91	-58.30	-76.20	-41.37	-63.90	-236.00	-230.55	-33.72	-10.80	-10.36	-53.80	-90.76	-63.75	-69.82	-116.65	-4.48	-37.10	-38.10	-53.32	-126.14	-80.72	-233.49	-22.53	-69.12	-66.10	-21.57	-56.14	-66.74	-60.00	-58.40	-75.59	-72.49	-54.60	-94.93	-74.50	-67.10	-69.99	-46.54	-45.42	-73.80	-17.95	-19.22	-71.27	-80.00	-69.80	-30.24	-77.80	-106.00
Lowest	-100.00	-222.60	-40.10	-73.30	-128.10	-50.40	-68.00	-252.80	-252.00	-40.00	-15.20	-13.90	-87.40	-110.59	-63.75	-78.25	-129.53	-89.10	-83.30	-60.00	-59.97	-130.75	-86.00	-248.00	-56.80	-59.90	-106.50	-64.07	-72.74	-92.34	-120.10	-97.70	-103.19	-103.70	-50.70	-108.40	-75.30	-78.10	-85.50	-108.53	-108.04	-86.29	-63.70	-57.20	-75.10	-102.21	-70.40	-32.01	-81.22	-106.00
7/2/2018 12:00																												-50.97			-117.90	-91.10	-100.89	-85.89															
7/5/2018 9:30			-39.30																																													
7/5/2018 9:40				-68.10																																													
7/5/2018 10:15																											-82.10																					
7/5/2018 12:00																-73.36	-126.74	-46.42			-58.71																											
7/5/2018 16:30																				-51.20																												
7/5/2018 16:36																																		-43.80														
7/5/2018 16:40																																				-75.70												
7/5/2018 16:51																																													-71.60			
7/5/2018 17:35					-133.40																																			-73.18								
7/5/2018 17:47																																									-72.32							
7/5/2018 17:50																																															
7/5/2018 18:28																			-51.00																												
7/9/2018 12:00																												-32.97	-59.48	-80.54	-91.50	-95.20	-99.49	-84.69														
7/16/2018 12:00																												-34.01	-59.64	-78.74	-89.70	-93.70	-100.89	-84.69														
7/23/2018 12:00																												-50.97	-69.24	-91.54	-119.20	-91.70	-103.19	-86.29														
7/30/2018 8:00																												-50.97	-69.54	-92.34	-120.10	-92.50	-102.99	-102.89														
8/6/2018 12:00																-73.29	-128.87				-58.72							-50.97	-69.54	-90.74	-119.70	-92.30	-103.09	-102.69														
8/9/2018 12:00																		-40.05																														
8/13/2018 12:00																-73.29	-127.84	-46.20			-58.73							-34.07	-59.40	-80.14	-91.20	-94.90	-100.90	-84.99														
8/20/2018 12:00																												-50.97	-69.24	-90.54	-118.90	-97.00	-101.29	-85.99														
8/27/2018 12:00																												-50.97	-72.54	-90.54	-119.10	-97.70	-103.19	-86.29														
9/3/2018 12:00																-73.36	-129.06	-42.24																													
9/10/2018 12:00																												-33.70	-58.74	-78.04	-87.70	-89.90	-97.69	-82.89														
9/17/2018 12:00																												-32.77	-58.84	-77.54	-87.10	-89.50	-96.69	-82.39														
9/24/2018 12:00																												-31.57	-58.54	-77.14	-87.30	-87.30	-96.49	-84.40														
9/27/2018 10:10				-68.10																																												
9/27/2018 10:32			-37.90																																													
9/27/2018 12:00																-73.41		-66.67																														
9/27/2018 17:17																				-50.00																												
9/27/2018 17:26																																		-42.60													
9/27/2018 17:30																																				-75.20											
9/27/2018 17:41																																												-71.50			
9/27/2018 18:02					-96.80																																										
9/27/2018 18:12																																							-57.71								
9/27/2018 18:14																																								-58.48							
9/27/2018 19:18																			-61.80																												
9/28/2018 12:00																	-125.56				-56.65																											
10/1/2018 10:59																											-83.20																				
10/1/2018 12:00																												-33.77	-59.64	-75.94	-86.90	-66.30	-98.59	-82.49														
10/8/2018 12:00																													-58.54	-75.04	-84.50	-66.10	-94.09	-80.79														
10/10/2018 12:00																												-33.97																			
10/15/2018 12:00																												-33.57	-58.64	-75.34	-84.50	-94.30	-93.69	-80.59														
10/22/2018 12:00																												-27.17	-56.94	-74.34	-83.00	-90.80	-88.09	-78.69														
11/5/2018 11:00																-73.06																														
11/5/2018 12:00																	-123.01	-17.44			-55.76							-27.57	-57.84	-73.64	-81.90	-89.20	-86.89	-77.49														
11/12/2018 12:00																												-27.97	-57.94	-73.14	-105.30	-89.90	-84.90	-77.17														
11/19/2018 12:00																												-27.97	-58.14	-73.54	-106.10	-63.70	-84.49	-102.69														
11/26/2018 12:00																												-28.17	-58.14	-73.74	-107.10	-63.70	-84.49	-102.69														
12/3/2018 0:00																																-63.70														
12/3/2018 12:00																-73.08	-122.45	-55.90			-56.99							-28.17	-58.34		-107.40		-84.49	-102.89													
12/4/2018 12:00																														-73.94																
12/6/2018 12:00						-68.00																																									
12/18/2018 18:00																																										-18.50				
12/19/2018 16:00																																								-45.42							
12/27/2018 9:30			-37.60																																												
12/27/2018 10:40																											-74.40																			
12/27/2018 12:00																-72.86	-121.15	-30.36			-56.95																										
12/27/2018 16:50																				-48.00																											
12/27/2018 16:53																																				-73.40											
12/27/2018 17:05																																												-71.40			
12/27/2018 17:37					-76.20																																										
12/27/2018 17:49																																							-46.54							
12/27/2018 18:00																																									-17.95					
12/27/2018 18:40																			-65.40																												
12/28/2018 5:52																																								-47.65						
12/31/2018 12:00																												-26.90	-57.74	-71.34	-103.90	-61.90	-81.79	-102.69														
1/4/2019 12:00																-72.34	-119.33	-43.46			-55.75																										
1/11/2019 12:00																												-25.77	-57.54	-69.94	-103.90	-60.10	-79.49	-102.69														
1/4/2019 11:27																											-75.00																			
1/4/2019 12:00																-72.45	-119.23	-57.45			-56.90							-26.17	-57.94	-69.84	-79.70	-60.20	-79.79	-102.69														
1/16/2019 12:00								-246.00																																						
1/23/2019 12:00									-246.00																																					
1/28/2019 10:32				-65.80																																										
1/28/2019 11:00			-37.70																																											
1/28/2019 11:35																											-92.80																			
1/28/2019 12:00																-72.47	-120.05	-61.90			-57.33																										
1/28/2019 17:45																				-48.60																											
1/28/2019 18:00																																		-40.60												
1/28/2019 18:48																																				-74.00										
1/28/2019 18:58																																												-71.40		
1/28/2019 19:05					-83.30																																										
1/28/2019 19:24																																							-49.99							
1/28/2019 19:26																																								-49.80						
1/28/2019 19:30																																										-20.98				
1/28/2019 20:05																			-54.00																												
1/31/2019 12:00																												-26.67	-58.04	-72.54	-110.70	-61.90	-81.29	-102.69														
2/4/2019 7:00																-71.69																														
2/6/2019 9:50																											-69.80																			
2/6/2019 10:00																	-119.38																														
2/6/2019 12:00																		-4.70			-55.69							-23.57	-56.14	-70.74	-78.50	-60.90	-75.59	-72.49														
2/6/2019 12:00																-71.56	-118.24	-57.38			-55.09							-25.07	-57.34	-78.54	-104.00	-59.90	-79.29	-73.09														
2/6/2019 9:52																											-73.20																			
2/6/2019 12:00																					-55.96																										
2/27/2019 5:35																																						-53.88							
2/27/2019 12:00																	-118.13	-34.76																													
2/27/2019 12:05																											-84.60																			
2/27/2019 13:27																																												-71.40		
2/27/2019 13:52			-37.40																																											
2/27/2019 14:15				-63.90																																										
2/27/2019 17:10																			-52.30																												
2/27/2019 17:38																																								-53.48						
2/27/2019 17:40																																									-22.22					
2/27/2019 18:52																																		-39.60												
2/27/2019 18:54																																				-73.00										
2/27/2019 19:04					-81.50																																										
2/1/2019 12:00																												-25.37	-57.54		-108.30	-60.20	-78.19	-73.69														
2/1/2019 14:00																														-70.94																
2/1/2019 17:25													-61.50																																		
2/22/2019 11:45	-210.60																																														
2/22/2019 12:00																	-119.77	-75.60			-56.70							-26.17	-57.94	-81.54	-109.00	-83.20	-85.19	-75.79														
2/22/2019 13:20															-63.75																																
2/22/2019 13:30																						-126.73															-71.60										
2/22/2019 13:35																																			-74.90												
2/22/2019 14:09																																												-74.70			
2/22/2019 14:10													-74.50																																		
2/22/2019 14:15								-240.01																																						
2/22/2019 14:20																																						-72.67								
2/22/2019 14:31																																							-73.51							
2/22/2019 14:55	-81.80																																														
2/22/2019 15:00																																		-98.40												
2/22/2019 15:30				-64.90																																											
2/22/2019 15:35			-37.40																																												
2/22/2019 15:58											-10.80																																		
2/22/2019 16:00												-10.36																																	
2/22/2019 16:10										-36.11																																			
2/22/2019 16:18																				-48.60																											
2/22/2019 16:40																																				-74.00										
2/22/2019 17:36					-101.70																																										
2/23/2019 13:25																							-234.00																								
2/23/2019 14:45																											-106.50																			
2/23/2019 17:10						-44.60																																								
2/23/2019 20:00																			-58.30																												
2/24/2019 14:30									-236.25																																					
2/24/2019 15:00																																		-41.00												
8/5/2019 12:00																	-119.59	-75.26			-56.96							-55.67	-69.54	-74.34	-87.10	-88.90	-86.09	-76.29														
8/6/2019 11:45																											-79.70																			
8/26/2019 17:25																																									-76.62					
8/26/2019 21:27																																						-76.34							
9/3/2019 12:00																-72.16	-121.07	-76.71			-57.45																										
9/4/2019 12:00																												-50.77	-70.54	-83.24	-111.30	-85.10	-89.09	-78.09														
9/11/2019 19:25																																								-75.24						
9/11/2019 19:28																																						-75.23							
9/14/2019 17:00																																												-80.00		
9/23/2019 9:20																							-237.80																								
9/25/2019 9:40						-63.90																																								
9/25/2019 10:13										-36.35																																			
9/25/2019 10:18			-37.70																																											
9/25/2019 10:43				-66.10																																										
9/25/2019 11:28																											-84.80																			
9/25/2019 12:00																-72.27	-122.11	-76.08																													
9/25/2019 13:46																																												-74.30		
9/25/2019 17:59												-12.15																																		
9/25/2019 18:02											-13.35																																		
9/25/2019 19:11																				-53.20																											
9/25/2019 19:14																																		-43.90												
9/25/2019 19:20																																				-74.90										
9/25/2019 19:23						-48.00																																								
9/26/2019 14:48																						-127.22																								
9/26/2019 20:15																			-58.20																											
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9/26/2019 20:45													-77.50																																	
9/26/2019 20:47																																						-73.66							
9/26/2019 20:50																																								-73.99						
9/26/2019 21:12					-124.20																																										
9/27/2019 12:00																					-57.82																										
10/9/2019 9:10								-244.40																																						
11/4/2019 12:00																	-122.12	-68.41			-58.23																										
12/1/2019 12:00																	-122.73	-67.27			-58.42							-50.77	-70.54	-72.14	-80.80	-62.70	-83.88	-102.69														
12/4/2019 11:43																											-82.60																			
12/27/2019 9:10																							-238.40																								
12/27/2019 9:27							-64.80																																							
12/27/2019 9:50										-36.60																																			
12/27/2019 9:55			-37.30																																											
12/27/2019 11:13																																		-99.10												
12/27/2019 12:00																-72.59	-123.03				-58.40																										
12/27/2019 17:00											-13.24																																		
12/27/2019 17:28												-11.65																																	
12/27/2019 17:41																																				-75.20										
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12/27/2019 18:23																																												-71.30		
12/30/2019 0:00																														-72.74																
12/30/2019 12:00																												-50.67	-65.94		-81.10	-63.50	-84.49	-102.67														
12/30/2019 14:10																																				-74.50										
12/30/2019 15:08																						-128.53																								
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12/30/2019 19:19													-57.50																																	
12/30/2019 19:21																																						-52.95							
12/30/2019 19:23																																							-53.05						
12/30/2019

Clearwater UWCD - Edwards BFZ Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #	58-05-404	58-12-501	58-04-810	58-04-408	58-05-106	58-04-635	58-04-704	58-12-204	58-12-205	58-04-418	58-04-638	58-04-639	58-04-363	40-61-712	58-04-641	58-04-702	58-04-816	58-04-628	58-13-502	58-04-502	58-03-702	40-61-409	M-22-001P	58-12-203	40-61-710	40-60-913	58-04-623	58-04-602	58-04-508	58-04-509	58-04-510	58-04-626	58-04-512	58-04-513	58-04-627	58-04-637	58-04-317	58-04-631	58-05-108	58-04-633	58-04-634	58-05-110	58-05-309	58-04-316	58-04-305	58-04-640	58-04-319	40-61-711	58-04-321
CUWCD #:	E-02-021P	E-02-045S	E-06-054P	E-16-002P	E-16-009P	E-18-003Q	E-18-107P	E-19-020P	E-19-020P	E-19-021P	E-19-075Q	E-19-081Q	E-19-113P	J-21-008Q	Magnolia	hur. W. Capinos	N-06-001Q	Rest Stop	Salado Cemetary of Bertle	Salado ISD	Gault - Edwards	Bell Co. DOT	M-22-001P	Windy Meadows	Dillman Trust	Donald & Sheryl Rich	Stagecoach (deep)	Salado WSC (#1)	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Salado ISD (MS)	Bloomer Mfg.	James Construction	Charles Boeckler	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #6 - Reed	Scott Law Well #7 - Brady Woods	Scott Law Well #9 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SDG Properties	Reddyles LLC	Salado RV Park
Well Name	Avila	Tribo	Young	Coppin	Thaler	Brown	Edwards	Yepez	Yepez	Fishbeck	Campbell	Lowry	Low	Magnolia	hur. W. Capinos	Cruz	Rest Stop	Salado Cemetary of Bertle	Salado ISD	Gault - Edwards	Bell Co. DOT		Windy Meadows	Dillman Trust	Donald & Sheryl Rich	Stagecoach (deep)	Salado WSC (#1)	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Salado ISD (MS)	Bloomer Mfg.	James Construction	Charles Boeckler	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #6 - Reed	Scott Law Well #7 - Brady Woods	Scott Law Well #9 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SDG Properties	Reddyles LLC	Salado RV Park
Highest	-78.70	-210.60	-24.91	-58.30	-76.20	-41.37	-63.90	-230.00	-230.55	-33.72	-10.80	-10.36	-53.80	-90.76	-63.75	-69.82	-156.65	-4.48	-37.10	-38.10	-53.32	-126.14	-80.72	-233.49	-22.53	-69.12	-166.03	-21.57	-56.14	-66.74	-60.00	-58.40	-75.59	-72.49	-54.60	-94.93	-74.50	-67.30	-69.99	-46.54	-41.42	-73.80	-17.95	-19.22	-71.27	-80.00	-69.80	-30.24	-77.80	-106.00
Lowest	-100.00	-222.60	-40.10	-73.30	-128.10	-50.40	-68.00	-252.80	-252.00	-40.00	-15.20	-13.90	-87.40	-110.59	-63.75	-78.25	-129.53	-89.10	-83.30	-60.00	-59.97	-130.75	-86.00	-248.00	-56.80	-59.90	-106.50	-64.07	-72.74	-92.34	-120.10	-97.70	-103.19	-103.70	-50.70	-108.40	-75.30	-78.10	-85.50	-108.53	-108.04	-86.29	-63.70	-57.20	-75.10	-102.21	-70.40	-32.01	-81.22	-106.00
2/3/2020 12:05																	-123.03																															
2/4/2020 12:00																															-81.00																	
2/28/2020 16:10																																													-87.99			
3/2/2020 11:25																											-91.40																					
3/2/2020 12:00								-72.76	-122.94												-57.70							-50.77	-70.74	-72.74	-80.80	-63.40	-84.39	-102.69																
3/5/2020 11:29																												-50.87	-70.74	-73.04	-82.50	-63.50	-84.09	-102.69																
3/30/2020 12:00																											-78.80																					
4/1/2020 10:31																																															
4/10/2020 12:00																									-33.00																						
4/3/2020 2:00								-72.73																																							
5/4/2020 9:52																											-84.00																					
5/6/2020 12:00																					-57.15							-50.87	-71.14	-83.74	-87.90	-65.10	-84.49	-102.99																
5/26/2020 20:08																																															
6/1/2020 12:00																	-122.63	-65.78			-57.89							-50.77	-71.14	-73.54	-86.30	-63.70	-88.89	-78.89																
6/15/2020 12:00																												-64.07	-71.64	-86.94	-92.70	-67.50	-94.29	-81.59																
6/23/2020 12:00																												-50.77	-71.64	-78.24	-91.50	-67.30	-90.49	-81.29																
6/23/2020 9:40																								-239.40																						
6/23/2020 9:59						-65.70																																								
6/23/2020 10:24										-37.40																																				
6/23/2020 10:29			-38.20																																											
6/23/2020 12:00																	-123.40	-76.52			-58.17																										
6/24/2020 11:22																																												-71.40			
6/23/2020 17:41												-11.83																																		
6/23/2020 17:42											-13.42																								-43.70												
6/23/2020 17:50																				-52.60																										
6/23/2020 17:55																																														
6/23/2020 18:04					-47.10																																-74.80									
6/26/2020 14:10																						-127.70																								
6/26/2020 14:38																																														
6/26/2020 18:36																			-57.00																										
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6/26/2020 19:07	-85.00																																													
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6/26/2020 19:18																																									-72.17						
6/26/2020 19:20																																										-72.21					
6/26/2020 19:25																																											-44.35				
6/26/2020 19:33																																												-81.50			
6/26/2020 19:47					-119.70																																										
6/29/2020 12:00																												-50.77	-71.94	-87.54	-114.20	-91.50	-87.39	-80.79																
7/29/2020 11:00																											-95.60																					
8/3/2020 9:32																												-51.00	-71.90																				
8/3/2020 9:33																														-86.50																		
8/3/2020 9:34																															-113.50	-90.80																
8/3/2020 9:35																																		-93.50													
8/3/2020 12:00								-72.92	-124.90	-81.18											-58.52																										
8/7/2020 9:35																																			-82.00												
8/10/2020 12:00																												-50.77	-72.34	-87.19	-114.40	-91.30	-93.69	-82.09															
8/11/2020 10:07										-37.50																																					
8/11/2020 10:12			-39.50																																												
8/11/2020 10:46																								-242.20																								
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8/11/2020 15:50																																					-74.80										
8/11/2020 17:01																																											-96.80			
8/11/2020 17:21												-13.08																																		
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8/11/2020 18:49																																									-83.61					
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8/11/2020 19:07	-93.20																																														
8/17/2020 0:00																												-50.77																				
8/17/2020 12:00																													-72.64	-87.54	-114.90	-91.90	-94.09	-82.59														
8/24/2020 12:00																												-50.97	-72.74	-89.14	-114.90	-91.70	-94.39	-82.39														
9/7/2020 12:00								-72.89	-124.80	-73.87											-57.14																										
9/9/2020 12:00																												-50.97	-71.54	-75.34	-86.00	-65.70	-86.49	-79.99														
9/10/2020 11:13																											-87.40																				
9/14/2020 12:00																												-50.97	-71.34	-77.54	-110.30	-67.10	-87.29	-80.49														
9/21/2020 12:00																												-50.97	-71.54	-78.54	-110.00	-66.90	-86.49	-80.19														
9/30/2020 11:08																								-240.80																						
9/30/2020 11:23						-66.80																																								
9/30/2020 11:43										-37.70																																				
9/30/2020 11:48			-39.70																																											
9/30/2020 12:00								-73.01	-124.50	-68.21											-57.73																										
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9/30/2020 16:44																																												-70.40		
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9/30/2020 20:40																																											-30.24			
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9/30/2020 20:56					-103.90																																									
10/1/2020 12:00																												-50.87	-69.54	-86.94	-110.70	-67.50	-88.89	-80.59														
11/1/2020 10:53																											-86.40																				
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11/28/2020 11:17																											-84.00																				
11/28/2020 12:00								-73.24		-69.06											-58.75																								
11/28/2020 12:02				-67.50																																								
11/28/2020 15:10																						-128.95																						
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11/28/2020 20:18																																										-26.44				
11/28/2020 20:25																																											-26.49			
12/29/2020 20:06																																					-74.70									
1/1/2021 12:00								-73.30	-124.72	-61.34											-58.48																										
1/1/2021 12:00								-73.45	-125.07												-58.67																										
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1/29/2021 11:39										-38.10																																				
1/29/2021 11:43			-37.70																																											
1/29/2021 12:00								-73.37	-124.77												-58.65							-50.57	-70.54	-75.54	-85.00	-65.80	-86.79	-102.89														
1/29/2021 12:01				-67.90																																										
1/29/2021 12:21						-67.40																																							
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1/29/2021 12:37							-243.00																																						
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1/29/2021 16:15																																					-73.80								
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1/29/2021 17:12																																										-74.10			
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1/29/2021 20:33																																								-52.12						
1/29/2021 20:35																																									-52.78					
1/29/2021 20:40																																											-21.85			
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4/22/2021 11:58																																			-102.80										
4/22/2021 12:00								-73.55	-125.23												-58.60							-50.57	-63.54	-75.34	-84.70	-66.30	-87.29	-98.09														
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5/3/2021 12:00								-73.52													-58.05								-69.64	-74.34	-83.90	-65.10	-92.89	-80.89														
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5/3/2021 17:00																												-63.37																		

Clearwater UWCD - Edwards BFZ Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #	58-05-404	58-12-501	58-58-410	58-04-408	58-05-106	58-04-635	58-58-704	58-12-204	58-12-205	58-04-418	58-04-638	58-04-639	58-04-363	40-61-712	58-04-641	58-04-702	58-04-816	58-04-628	58-13-502	58-04-502	58-03-702	40-61-409	M-22-001P	58-12-203	40-61-710	40-60-913	58-04-623	58-04-602	58-04-508	58-04-509	58-04-510	58-04-626	58-04-512	58-04-513	58-04-627	58-04-637	58-04-317	58-04-631	58-05-108	58-04-633	58-04-634	58-05-110	58-05-509	58-04-316	58-04-305	58-04-640	58-04-319	40-61-711	58-04-321	
CUWCD #	E-02-021P	E-02-042E	E-06-054P	E-16-002P	E-19-009P	E-18-060Q	E-18-107P	E-19-020P	E-19-029P	E-19-031P	E-19-075Q	E-19-081Q	E-19-113P	E-21-008Q	E-21-047Q	N-06-001Q	N-06-001Q	Salado Cemetarary of Bertle	M-12-014Q	Salado ISD	Gault - Edwards	Bell Co DOT	M-22-001P	Windy Meadows	Dillman Trust	Donald & Sheryl Rich	Stagecoach (deep)	Salado WSC (#1)	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Salado ISD (MS)	Bloomer Mfg.	James Construction	Charles Boeckler	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #6 - Reed	Scott Law Well #7 - Brady Woods	Scott Law Well #9 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SDG Properties	Reddyles LLC	Salado RV Park	
Well Name	Avila	Tilbe	Young	Coppin	Thaler	Brown	Edwards	Yepez	Yepez	Pickbeck	Campbell	Lowry	Low	Magnolia	hur. W. Capinon's Croc	Rest Stop	Salado Cemetarary of Bertle	M-06-402	M-12-014Q	Salado ISD	Gault - Edwards	Bell Co DOT	M-22-001P	Windy Meadows	Dillman Trust	Donald & Sheryl Rich	Stagecoach (deep)	Salado WSC (#1)	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Salado ISD (MS)	Bloomer Mfg.	James Construction	Charles Boeckler	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #6 - Reed	Scott Law Well #7 - Brady Woods	Scott Law Well #9 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SDG Properties	Reddyles LLC	Salado RV Park	
Highest	-78.70	-210.60	-24.91	-58.30	-76.20	-41.37	-63.90	-230.00	-230.55	-33.72	-10.80	-10.36	-53.80	-90.76	-63.75	-69.82	-156.65	-4.48	-37.10	-38.10	-53.32	-126.14	-80.72	-233.49	-22.53	-69.12	-166.50	-215.57	-56.54	-66.74	-60.00	-58.40	-75.59	-72.49	-54.60	-94.93	-74.50	-67.50	-69.99	-46.54	-45.42	-73.80	-17.95	-59.22	-71.27	-80.00	-69.80	-30.24	-77.80	-106.00
Lowest	-100.00	-222.60	-40.10	-73.30	-128.10	-50.40	-68.00	-252.80	-252.00	-40.00	-15.20	-13.90	-87.40	-110.59	-63.75	-78.25	-129.53	-89.10	-83.30	-60.00	-59.97	-130.75	-86.00	-248.00	-56.80	-59.90	-106.50	-64.07	-72.74	-92.34	-120.10	-97.70	-103.19	-103.70	-50.70	-108.40	-75.30	-78.10	-85.50	-108.53	-108.04	-86.29	-63.70	-57.20	-75.10	-102.21	-70.40	-32.01	-81.22	-106.00
5/5/2021 9:57																											-91.60																							
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6/28/2021 12:06								-238.80																																										
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6/1/2022 17:00															-73.47	-119.26					-58.30									-81.00	-91.80	-92.90	-91.49	-81.79													
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6/13/2022 11:00															-72.51	-118.64					-58.

Clearwater UWCD - Edwards BFZ Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #	58-05-404	58-12-501	58-04-910	58-04-908	58-05-106	58-04-635	58-04-704	58-12-204	58-12-205	58-04-418	58-04-638	58-04-639	58-04-363	40-61-712	58-04-641	58-04-702	58-04-816	58-04-628	58-13-502	58-04-502	58-03-702	40-61-409	M-22-001P	58-12-203	40-61-710	40-60-913	58-04-623	58-04-602	58-04-508	58-04-509	58-04-510	58-04-626	58-04-512	58-04-513	58-04-627	58-04-637	58-04-317	58-04-631	58-05-108	58-04-633	58-04-634	58-05-110	58-05-509	58-04-316	58-04-305	58-04-640	58-04-319	40-61-711	58-04-321
CUWCD #	E-02-021P	E-02-046S	E-04-054P	E-10-045P	E-10-009P	E-58-060U	E-58-107P	E-19-020P	E-19-029P	E-19-031P	E-19-075GU	E-19-081GU	E-19-113P	T-21-098(U)	T-21-099(U)	E-19-119P	E-19-126P	M-05-001U	M-12-014G	M-13-094G	M-14-005P	M-14-002G	M-22-001P	N1-18-002P	N1-20-001P	N1-20-003P	N2-02-002G	N2-02-003G	N2-02-005G	N2-02-010G	N2-02-011G	N2-02-012G	N2-02-013G	N2-03-004G	N2-07-010G	N2-10-002P	N2-11-004P	N2-11-005P	N3-15-002P	N3-15-003P	N3-15-004P	N3-15-005P	N3-15-012P	N3-15-013P	N4-17-001P	N4-20-005G	N4-22-005P	N3-22-005P
Well Name	Avila	Tribu	Young	Coppin	Thaler	Brown	Edwards	Yopuc	Yopuc	Fishbeck	Campbell	Lowry	Low	Magnolia	hur. W. Capinon's Croc	Rest Stop	Salado Cemetargaty of Bartle	Gault - Edwards	Salado ISD	Salado ISD	Gault - Edwards	Bell Co DOT		Windy Meadows	Dillman Trust	Donald & Sheryl Rich	Stagecoach (deep)	Salado WSC (41)	Salado WSC (45)	Salado WSC (46)	Salado WSC (47)	7KX Ranch (48)	7KX Ranch (49)	Salado ISD (MS)	Bloomer Mfg.	James Construction	Charles Boeckler	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #3 - Brady	Scott Law Well #4 - Reed	Scott Law Well #7 - Brady Woods	Scott Law Well #3 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SDG Properties	Reddyles LLC	Salado RV Park
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Lowest	-100.00	-222.60	-40.10	-73.30	-128.10	-50.40	-68.00	-252.80	-252.00	-40.00	-15.20	-13.90	-87.40	-110.59	-63.75	-78.25	-129.53	-89.10	-83.30	-60.00	-59.97	-130.75	-86.00	-248.00	-56.80	-59.90	-106.50	-64.07	-72.74	-92.34	-120.10	-97.70	-103.19	-103.70	-50.70	-108.40	-75.30	-78.10	-85.50	-108.53	-108.04	-86.29	-63.70	-57.20	-75.10	-102.21	-70.40	-32.01	-81.22	-106.00
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Clearwater UWCD - Edwards BFZ Monitor Wells

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CUWCD #	E-02-021P	E-02-046S	E-06-054P	E-10-002P	E-10-009P	E-58-003U	E-58-107P	E-19-020P	E-19-029P	E-19-031P	E-19-075SU	E-19-081SU	E-19-113P	J-21-090SU	Magnolia	hur. W. Capinos's Croc	Rest Stop	Salado Cemetary of Bertie	Salado ISD	Gault - Edwards	Bell Co. DOT	M-22-001P	Windy Meadows	Dillman Trust	Donald & Sheryl Rich	Stagecoach (deep)	Salado WSC (#1)	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Salado ISD (MS)	Bloomer Mfg.	James Construction	Charles Boecker	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #6 - Reed	Scott Law Well #7 - Brady Woods	Scott Law Well #9 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SDG Properties	Reddyles LLC	Salado RV Park	N3-22-001P
Well Name	Avila	Tribo	Young	Coppin	Thaler	Brown	Edwards	Yopuc	Yopuc	Fishbeck	Campbell	Lowry	Low	Magnolia	hur. W. Capinos's Croc	Rest Stop	Salado Cemetary of Bertie	Salado ISD	Gault - Edwards	Bell Co. DOT	M-22-001P	Windy Meadows	Dillman Trust	Donald & Sheryl Rich	Stagecoach (deep)	Salado WSC (#1)	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Salado ISD (MS)	Bloomer Mfg.	James Construction	Charles Boecker	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #6 - Reed	Scott Law Well #7 - Brady Woods	Scott Law Well #9 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SDG Properties	Reddyles LLC	Salado RV Park	N3-22-001P
Highest	-78.70	-210.60	-24.91	-58.30	-76.20	-41.37	-63.90	-230.00	-230.55	-33.72	-10.80	-10.84	-53.80	-90.76	-63.75	-69.82	-116.65	-4.48	-37.10	-38.30	-53.32	-126.14	-80.72	-233.49	-22.53	-69.32	-166.10	-215.57	-56.14	-66.74	-60.00	-58.40	-75.59	-72.49	-54.60	-94.93	-74.50	-67.30	-69.99	-46.54	-45.42	-73.80	-17.95	-19.22	-71.27	-80.00	-69.80	-30.24	-77.80	-106.00
Lowest	-100.00	-222.60	-40.10	-73.30	-128.10	-50.40	-68.00	-252.80	-252.00	-40.00	-15.20	-13.90	-87.40	-110.59	-63.75	-78.25	-129.53	-89.10	-83.30	-60.00	-59.97	-130.75	-86.00	-248.00	-56.80	-59.90	-106.50	-64.07	-72.74	-92.34	-120.10	-97.70	-103.19	-103.70	-50.70	-108.40	-75.30	-78.10	-85.50	-108.53	-108.04	-86.29	-63.70	-57.20	-75.10	-102.21	-70.40	-32.01	-81.22	-106.00
2/20/2023 18:00																												-50.97	-58.94	-75.54	-84.50	-66.10	-86.49	-103.49																		
2/23/2023 18:00																																	-87.29																		
2/27/2023 18:00																												-50.97	-59.34	-75.94	-88.50	-66.30	-86.79	-102.69																		
3/6/2023 18:00																-74.33		-46.07			-58.65							-51.00	-59.70	-84.70	-85.90	-67.00	-87.10	-102.80																		
3/8/2023 14:54																	-125.15																																		
3/13/2023 17:00																												-50.90	-60.10	-85.90	-90.40	-67.70	-87.10	-103.10																		
3/15/2023 17:00																												-51.00	-68.20	-76.10	-88.60	-66.50	-87.10	-102.70																		
3/27/2023 6:28																																										-90.90						
3/27/2023 13:44																						-128.14																												
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3/27/2023 14:10																																				-74.90												
3/27/2023 14:23																																														-80.93	
3/27/2023 14:32																																						-72.30										
3/27/2023 14:45																									-59.13																							
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3/27/2023 15:30																							-241.10																									
3/27/2023 15:40		-218.40																																													
3/27/2023 16:00										-39.60																																					
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3/27/2023 16:40																											-85.80																				
3/27/2023 17:00													-74.36	-125.56	-66.97					-58.86								-51.00	-59.70	-76.10	-112.40	-68.30	-80.10	-103.70																
3/27/2023 17:02																																														
3/27/2023 17:05																																			-42.80												
3/27/2023 17:08																																						-75.70								
3/27/2023 17:13					-46.40																																								
3/27/2023 17:19												-12.66																																		
3/27/2023 17:21											-14.37																																		
3/27/2023 18:56																			-83.30																											
3/27/2023 19:17	-82.70																																													
3/27/2023 19:25													-59.90																																	
3/27/2023 19:29																																							-57.17								
3/27/2023 19:36																																										-25.48				
3/27/2023 19:44																																											-24.98			
3/27/2023 19:55					-90.10																																									
3/27/2023 20:07																								-28.30																							
3/30/2023 19:39																																										-27.18				
4/3/2023 17:00																												-51.00	-68.00	-77.70	-91.90	-67.70	-88.60	-102.70																
4/10/2023 17:00																												-50.10	-68.80	-75.90	-83.70	-68.60	-86.70	-102.70																
4/17/2023 17:00																												-50.97	-59.34	-78.54	-110.30	-68.30	-88.39	-102.69																
4/24/2023 17:00																												-50.97	-68.94	-77.34	-87.30	-70.90	-87.59	-102.99																
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5/1/2023 17:00																-74.38	-125.30	-31.40			-57.89							-50.10	-59.30	-77.70	-112.70	-67.30		-102.70																
5/8/2023 17:00																												-50.97	-59.14	-77.34	-87.30	-93.10	-87.59	-102.99																
5/15/2023 17:00																												-50.97	-58.94	-74.94	-83.54	-65.70	-86.69	-102.69																
5/22/2023 17:00																												-50.97	-68.44	-76.54	-85.90	-66.70	-86.69	-103.09																
5/30/2023 17:00																												-50.97	-68.54	-76.84	-88.00	-67.20	-87.09	-102.89																
6/5/2023 17:00																-74.42	-125.02				-58.37							-50.97	-68.74	-87.04	-113.30	-78.00	-87.79	-103.19																
6/5/2023 18:38																											-83.30																				
6/13/2023 17:00																												-50.97		-87.34	-92.20	-91.50	-93.49	-81.99																
6/19/2023 17:00																												-50.10	-68.90	-87.90	-113.70		-94.30	-83.30																
6/20/2023 15:15																																-91.90																
6/26/2023 5:05																											-86.40																				
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6/26/2023 13:31														-108.19																																	
6/26/2023 14:04																																				-74.70												
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6/26/2023 14:28																																						-73.20									
6/26/2023 14:39																									-58.40																						
6/26/2023 15:03																																								-71.40						
6/26/2023 15:20																								-242.10																							
6/26/2023 15:26								-243.70																																						
6/26/2023 15:29									-237.90																																					
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6/26/2023 16:57																																			-106.70												
6/26/2023 17:00																-74.43	-126.00	-41.33										-50.97	-69.44	-87.74	-114.40	-91.90	-94.59	-83.09																
6/26/2023 17:13											-14.43	-12.79																																			
6/26/2023 17:26					-47.00																																									
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6/26/2023 17:41																																														
6/26/2023 17:43																																			-43.00												
6/26/2023 17:52																																										-96.80				
6/26/2023 18:21																			-66.80																												
6/26/2023 18:43	-92.00																																													
6/26/2023 18:51																																							-72.08								
6/26/2023 18:53																																								-90.33						
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6/26/2023 19:04																																									-68.03						
6/26/2023 19:10																																														
6/26/2023 19:19					-117.20																																									
6/26/2023 19:53																									-37.60																						
7/10/2023 17:00																												-50.10	-70.00	-87.84	-90.40	-69.20	-93.10	-82.90																
7/24/2023 17:00																												-50.87	-70.44	-87.54	-89.30	-69.50	-91.29	-82.69																
7/31/2023 17:00																													-63.64	-77.74	-90.10	-68.30	-90.29	-81.69																
8/7/2023 15:45																											-92.20																				
8/7/2023 17:00																-74.47	-127.77	-39.13			-59.87							-50.10	-70.40	-87.40	-87.90	-67.60	-91.40	-82.00																
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8/21/2023 17:00																												-50.90	-70.70	-78.70	-90.10	-69.10	-89.30	-81.90																
9/5/2023 16:06																											-91.40																				
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9/11/2023 17:00																												-50.87	-62.14	-79.94	-89.10	-70.50	-90.89	-82.99																
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9/25/2023 13:57														-110.21																																
9/25/2023 14:28																																			-74.90												
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9/25/2023 14:55																																						-75.10								
9/25/2023 15:07																									-59.90																						
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9/25/2023 15:56																							-245.70																								
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9/25/2023 16:51																																														
9/25/2023 16:59																											-91.60																				
9/25/2023 17:00													-74.51	-128.86						-59.97								-50.87	-62.04	-79.34		-69.70	-88.59	-81.69																
9/25/2023 18:00												-13.82																																		
9/25/2023 18:01											-15.20																																		
9/25/2023 18:16					-50.40																																								
9/25/2023 18:23																																						-75.50								
9/25/2023 18:33																																													
9/25/2023 18:35																																			-44.50												
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9/25/2023 19:14																			-75.70																												
9/25/2023 19:36	-95.10																																													
9/25/2023 19:47																																							-88.61								
9/25/2023 19:50																																								-89.42						
9/25/2023 19:58																																										-55.01				
9/25/2023 20:02																																											-52.79				
9/25/2023 20:07																																											-48.03				
9/25/2023 20:18					-121.80																																									
9/25/2023 20:32																									-48.40																						
10/2/2023 17:00																												-50.87	-69.14	-85.34	-87.20	-69.50	-89.09	-81.69																
10/9/2023 17:00																												-50.87	-61.94	-78.94	-108.50	-70.10	-88.29	-81.19																
10/16/2023 17:00																												-50.87	-61.54	-79.54	-87.20	-96.70	-88.49	-81.49																
10/23/2023 17:00																												-50.87	-61.84	-79.74	-87.50	-96.70	-88.79	-81.49																
10/30/2023 17:00																												-50.10	-61.00	-78.30	-89.30	-68.90	-87.90	-81.10																
11/6/2023 18:00													-74.53	-128.15	-52.66					-58.83								-50.97	-63.14	-85.84		-68.30	-87.69	-80.39																
11/8/2023 19:35																											-86.30																				
11/13/2023 18:00																												-50.77	-64.54	-76.34		-67.20	-87.19	-80.19																
11/20/2023 18:00																												-50.87	-69.74	-76.34	-84.30	-67.40	-87.09	-80.19																
11/27/2023 18:00																												-40.67	-69.94	-76.34	-84.10	-67.30	-87.19	-80.19																
12/4/2023 17:08																											-80.60																				
12/4/2023 18:00													-74.57	-127.41	-50.16					-58.73								-38.77	-60.24	-77.54	-75.60	-68.10	-88.59	-102.89																
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12/18/2023 18:00																												-32.77	-60.14	-77.44	-88.60	-68.10	-88.59	-102.89																
12/27/2023 14:55																						-127.23																								
12/27/2023 15:03														-103.86																																
12/27/2023 15:23																																				-75.27											
12/27/2023 15:35																																													-79.64	
12/27/2023 15:45																																					-70.91									
12/27/2023 15:55																									-59.78																					
12/27/2023 16:23																																												-71.96		
12/27/2023 16:40																							-242.66																							
12/27/2023 16:49		-220.81																																											
12/27/2023 17:16										-36.14																																			
12/27/2023 17:22			-33.16																																-102.92									
12/27/2023 17:37																											-79.02																				
12/27/2023 17:47																																					-74.15								
12/27/2023 17:58													-74.56	-127.22						-58.48								-48.97	-60.04	-77.34	-85.40	-94.10	-88.09	-102.89																
12/27/2023 18:00																																														
12/27/2023 18:03					-46.52																																									
12/27/2023 19:24												-11.43																																		
12/27/2023 19:25											-11.04																																		
12/27/2023 19:38																																										-92.64				
12/27/2023 20:03																			-80.53																											
12/27/2023 20:29	-85.18																																												
12/27/2023 20:37																					-61.19																								
12/27/2023 20:39																																							-58.41							
12/27/2023 20:42																																								-58.67						
12/27/2023 20:49																																									-30.81				
12/27/2023 20:53																																										-28.89			
12/27/2023 20:55																																											-26.02			
12/27/2023 21:54					-86.90																																									
12/27/2023 22:09																								-30.52																						
12/27/2023 22:26																																													-32.01	
1/9/2024 0:00																												-31.97	-59.24	-76.14	-87.30	-66.70	-87.49	-103.09																
1/10/2024 0:00																																											-21.40				
1/23/2024 0:00																												-30.17	-58.54	-74.94	-86.50	-65.70	-86.89	-102.89																
1/30/2024 0:00																												-36.17	-58.94	-74.74	-85.90	-65.50	-88.49	-102.89																
2/6/2024 0:00													-74.36	-124.16	-17.55					-57.42								-29.77	-60.24	-74.34	-105.00	-65.00	-85.19	-102.89																
2/13/2024 0:00																												-29.97	-59.94	-73.74	-103.70	-64.50	-85.29	-102.89																
2/20/2024 0:00																												-30.70	-59.20	-73.90	-82.00	-89.40	-85.20	-102.90																
2/27/2024 0:00																												-50.97		-82.94	-83.80	-64.80	-85.69	-103.09																
3/5/2024 0:00													-74.23	-123.48	-54.36					-58.14							-77.98	-50.10	-58.40	-84.10	-87.90	-65.70	-85.70	-79.50															
3/13/2024 0:00																												-50.10	-59.00	-74.10	-105.80	-64.30	-88.50	-78.90																
3/19/2024 0:00																												-50.97	-59.44	-73.54	-85.10	-64.00	-85.29	-102.89																
3/26/2024 0:00		-215.00	-24.91	-68.14	-84.76	-44.57			-35.84	-11.02	-10.73

Clearwater UWCD - Edwards BFZ Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #	58-05-404	58-12-501	58-04-810	58-04-408	58-05-106	58-04-635	58-04-704	58-12-204	58-12-205	58-04-418	58-04-638	58-04-639	58-04-363	40-61-712	58-04-641	58-04-702	58-04-816	58-04-628	58-13-502	58-04-502	58-03-702	40-61-409		58-12-203	40-61-710	40-60-913	58-04-623	58-04-402	58-04-508	58-04-509	58-04-510	58-04-626	58-04-512	58-04-513	58-04-627	58-04-637	58-04-317	58-04-631	58-05-108	58-04-633	58-04-634	58-05-110	58-05-509	58-04-316	58-04-305	58-04-640	58-04-319	40-61-711	58-04-321
CUWCD #	E-03-021P	E-02-046E	E-04-054P	E-16-042P	E-16-043P	E-18-043U	E-18-107P	E-19-020P	E-19-021P	E-19-025U	E-19-075SU	E-19-081SU	E-19-113P	T-21-090U	E-22-047S	N-04-001D	N-05-001U	Salado Cemetarary at Bertle	N-12-014G	Salado ISD	Gault - Edwards	Bell Co DOT	M-22-001P	NI-18-002P	NI-20-001P	NI-20-003P	N1-02-002U	Salado WSC (41)	Salado WSC (93)	Salado WSC (45)	Salado WSC (46)	Salado WSC (47)	7KX Ranch (48)	7KX Ranch (49)	Salado ISD (MS)	Bloomer Mfg.	James Construction	Charles Boeckler	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #6 - Reed	Scott Law Well #7 - Brady Woods	Scott Law Well #9 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SDG Properties	Reddyles LLC	Salado RV Park
Well Name	Avila	Tilbo	Young	Coppini	Thaler	Brown	Edwards	Yepez	Yepez	Fishbeck	Campbell	Lowry	Low	Magnolia	hur. W. Capinos's Croc	Rest Stop	Salado Cemetarary at Bertle	Windy Meadows	Dillman Trust	Donald & Sheryl Rich	Stagecoach (sleep)	Salado WSC (41)	Salado WSC (93)	Salado WSC (45)	Salado WSC (46)	Salado WSC (47)	7KX Ranch (48)	7KX Ranch (49)	Salado ISD (MS)	Bloomer Mfg.	James Construction	Charles Boeckler	James & Terry Reston	Scott Law Well #1, Guthrie	Scott Law Well #2, Guthrie	Scott Law Well #6 - Reed	Scott Law Well #7 - Brady Woods	Scott Law Well #9 - Jana Lever	Heart of Texas Feed	Brazos Valley Equine Hospital	SDG Properties	Reddyles LLC	Salado RV Park
Highest	-78.70	-110.60	-24.91	-58.30	-76.20	-41.37	-63.90	-230.00	-230.55	-33.72	-10.80	-10.36	-53.80	-90.76	-63.75	-69.82	-116.65	-4.40	-37.10	-38.30	-53.32	-126.14	-80.72	-233.49	-22.53	-69.12	-166.10	-21.57	-56.14	-66.74	-60.00	-58.40	-75.59	-72.49	-54.60	-94.93	-74.50	-67.30	-69.99	-46.54	-45.42	-73.80	-17.95	-19.22	-71.27	-80.00	-69.80	-30.24	-77.80	-106.00
Lowest	-100.00	-222.60	-40.10	-73.30	-128.10	-50.40	-68.00	-252.80	-252.00	-40.00	-15.20	-13.90	-87.40	-110.59	-63.75	-78.25	-129.53	-89.10	-83.30	-60.00	-59.97	-130.75	-86.00	-248.00	-56.80	-59.90	-106.50	-64.07	-72.74	-92.34	-120.10	-97.70	-103.19	-103.70	-50.70	-108.40	-75.30	-78.10	-85.50	-108.53	-108.04	-86.29	-63.70	-57.20	-75.10	-102.21	-70.40	-32.01	-81.22	-106.00
8/13/2024 0:00																												-29.77	-59.74	-74.54	-68.90	-63.80	-43.89	-102.89																		
8/20/2024 0:00																												-50.87	-58.74	-77.94	-90.60	-65.10	-86.14	-102.89																		
8/27/2024 0:00																												-31.37	-60.74	-77.64	-84.30	-90.10	-43.89	-102.89																		
9/4/2024 0:00																											-78.22																						
9/17/2024 0:00																												-50.87	-68.84	-74.50	-108.90	-64.10	-86.39	-102.89																		
9/24/2024 0:00	-86.78	-214.85	-30.15	-65.68	-102.95	-46.16			-35.78	-13.20	-11.53	-75.99	-107.54	-73.06	-123.08	-74.64	-73.25	-49.86	-58.39	-130.75			-237.35	-36.41	-54.14	-79.42	-34.37	-67.14	-75.14	-84.10	-92.30	-87.79	-102.69	-41.97	-100.39	-75.25	-70.88	-69.99	-72.07	-71.22	-41.59	-39.25	-35.21	-71.45	-92.22			-80.13	
10/1/2024 0:00																												-63.67	-69.14	-75.64	-110.50	-64.90	-87.19	-102.89																		
10/8/2024 0:00																												-46.17	-59.54	-66.74	-87.00	-67.20	-86.69	-103.19																		
10/22/2024 0:00																												-50.87	-69.34	-76.14	-111.30	-65.60	-87.89	-102.89																		
11/5/2024 0:00								-73.12	-124.22	-74.36										-58.58		-83.32					-80.62	-34.67	-59.14	-83.74	-85.90	-65.50	-86.69	-102.89																	
11/19/2024 0:00																												-63.37	-58.74	-75.14	-87.00	-65.30	-86.69	-103.29																		
11/26/2024 0:00																													-61.34	-74.74	-106.10	-64.70	-86.39	-102.89																	
12/3/2024 0:00								-73.24	-124.37	-71.60										-58.71		-92.55					-81.62	-34.77	-59.74	-74.84	-86.70	-64.90	-86.69	-102.89															-71.72			
12/4/2024 0:00																						-82.95																										
12/5/2024 0:00																						-82.83																										
12/6/2024 0:00																						-82.89																										
12/7/2024 0:00																						-82.37																										
12/8/2024 0:00																						-81.87																										
12/9/2024 0:00																						-81.63																										
12/10/2024 0:00																						-81.82																										
12/11/2024 0:00																						-81.84																										
12/12/2024 0:00																						-81.78																										
12/13/2024 0:00																						-81.65																										
12/14/2024 0:00																						-81.44																										
12/15/2024 0:00																						-81.01																										
12/16/2024 0:00																						-80.72																										
12/17/2024 0:00																						-80.82						-30.37	-68.14	-74.54	-86.50	-64.70	-85.89	-102.89																		
12/18/2024 0:00																						-80.76																										
12/19/2024 0:00																						-81.28																										
12/20/2024 0:00																						-81.21																										
12/21/2024 0:00																						-81.19																										
12/23/2024 0:00																						-81.06																										
12/24/2024 0:00																						-80.85																										
12/26/2024 0:00	-81.24	-216.53	-29.87	-66.29	-89.78	-46.35		-240.84	-240.24	-35.74	-13.56	-11.59	-59.22	-108.60		-73.25	-124.18	-68.27	-72.15		-58.72	-129.22	-80.79	-238.95	-30.06	-54.56	-79.73	-50.97	-68.54	-73.54	-82.00	-64.50	-85.89	-102.89		-100.86	-74.99	-74.35	-72.94	-55.88	-55.50	-27.64	-27.68	-25.14	-71.77	-89.94			-79.17	
12/25/2024 0:00																						-81.03																										
12/26/2024 0:00																						-81.20																										
12/27/2024 0:00																						-81.22																										
12/28/2024 0:00																						-80.84																										
12/29/2024 0:00																						-81.08																										
12/30/2024 0:00																						-80.82																										
12/31/2024 0:00																						-80.95						-32.57	-58.94	-75.04	-83.50	-92.10	-86.19	-102.89																		
Since Last																																																	
Historic																																																

	1-time Measurement
	Sonic Measurement
	TWDB Measurement
	No Reading Available

Keep in mind that the Edwards (BFZ) is a Karst aquifer and static water levels are a measurement of aquifer health in conjunction with spring flow. The desired future conditions established by Clearwater for the Edwards (BFZ) aquifer are based on maintaining Salado Spring discharge into Salado Creek during a repeat of conditions similar to the 1950's drought of record. Under the drought of record conditions, a spring discharge of 200 acre-feet per month is preferred and 100 acre-feet per month is the minimum acceptable spring flow.

Minimum Number of Measurements: 3

Average Drawdown	**0.4 ft/yr**
Drawdown of Water Level	
Increase of Water Level	

Clearwater UWCD - Upper Trinity Monitor Wells

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Well Name	McCallum #1	McCallum #2	Fant	R Family Land	CTC	Robinson	Myers	risty & Larry Bickel					
Highest	-131.20	-131.10	-280.10	-84.97	-77.83	-4.93	-170.79	-164.14	0.00	0.00	0.00	0.00	0.00
Lowest	-190.70	-191.80	-418.80	-237.50	-87.59	-489.97	-498.81	-182.83	0.00	0.00	0.00	0.00	0.00
2/24/1993 0:00			-301.70										
2/8/1994 0:00			-308.25										
1/26/1995 0:00			-280.10										
1/12/1998 0:00			-302.27										
1/13/1999 0:00			-297.20										
2/19/2004 0:00			-304.70										
11/1/2006 0:00	-142.10	-142.50											
1/1/2007 0:00	-144.30	-144.20											
7/1/2007 0:00	-131.20	-131.10											
1/1/2008 0:00	-134.50	-134.40											
7/1/2008 0:00	-151.80	-151.50											
1/1/2009 0:00	-145.40	-145.00											
7/1/2009 0:00	-159.60	-159.50											
1/1/2010 0:00	-152.10	-152.00			-87.59	-7.38							
7/1/2010 0:00	-150.60	-151.30			-77.83	-14.51							
1/1/2011 0:00	-149.70	-150.00			-79.64	-16.03							
2/25/2011 0:00			-326.12										
7/1/2011 0:00	-166.80	-165.70			-80.53	-16.42							
9/1/2011 0:00	-170.10	-170.90			-81.01	-28.97							
11/1/2011 0:00	-163.80	-164.30			-80.28	-48.35							
1/1/2012 0:00	-156.50	-157.30			-79.72	-64.19							
5/1/2012 0:00	-156.40	-157.60			-78.99	-13.83							
10/9/2012 0:00			-332.23										
1/1/2013 0:00	-155.00	-157.30			-81.66	-16.64							
5/1/2013 0:00	-160.80	-161.30			-82.13	-16.34							
8/1/2013 0:00	-172.60	-173.30			-82.70	-15.16							
11/1/2013 0:00	-159.20	-160.00			-82.35	-13.11							
2/1/2014 0:00	-156.80	-157.70			-82.68	-14.94							
5/1/2014 0:00	-163.00	-162.90			-83.07	-15.95							
8/1/2014 0:00	-169.70	-167.70			-83.56	-15.96							
11/1/2014 0:00	-165.10	-166.60			-83.42	-21.88							
1/1/2015 0:00	-157.60	-158.40			-83.54	-15.98							
6/1/2015 0:00	-153.20	-154.20			-83.92	-10.12							
9/14/2015 0:00	-167.90	-167.90			-83.48	-15.17							
11/30/2015 0:00	-155.50	-156.50			-82.72	-10.51							
1/1/2016 0:00						-4.93							
1/5/2016 0:00	-154.70	-155.60			-83.50								
4/19/2016 0:00	-155.03				-83.82	-7.72							
4/19/2016 6:00		-157.10											
6/1/2016 0:00						-8.28							

Clearwater UWCD - Upper Trinity Monitor Wells

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Well Name	McCallum #1	McCallum #2	Fant	R Family Land	CTC	Robinson	Myers	risty & Larry Bickel					
Highest	-131.20	-131.10	-280.10	-84.97	-77.83	-4.93	-170.79	-164.14	0.00	0.00	0.00	0.00	0.00
Lowest	-190.70	-191.80	-418.80	-237.50	-87.59	-489.97	-498.81	-182.83	0.00	0.00	0.00	0.00	0.00
8/30/2016 0:00	-159.00	-162.50			-84.45								
10/3/2016 0:00					-84.30								
10/6/2016 0:00			-310.15										
10/19/2016 0:00					-84.25								
12/1/2016 0:00					-84.07								
12/6/2016 0:00					-83.91								
12/29/2016 0:00	-153.60	-153.80											
1/5/2017 0:00					-83.90								
2/6/2017 0:00					-83.92								
3/5/2017 0:00					-83.96								
3/30/2017 0:00	-154.10	-154.40			-84.00								
5/8/2017 0:00					-84.23								
6/4/2017 0:00					-84.21								
7/7/2017 0:00	-162.70	-162.90			-84.51								
8/9/2017 0:00					-83.28								
9/5/2017 0:00					-83.37								
10/2/2017 0:00	-160.90	-161.40			-83.30								
10/2/2017 14:09						-14.20							
11/6/2017 0:00					-83.29								
11/6/2017 14:13						-14.05							
12/4/2017 0:00					-83.20								
12/4/2017 14:13						-14.12							
12/27/2017 0:00	-156.70	-156.80			-83.31								
12/27/2017 14:14						-13.81							
3/5/2018 0:00						-13.86							
3/8/2018 12:00					-83.18								
3/29/2018 0:00						-13.98							
3/29/2018 12:00					-83.41								
5/7/2018 0:00						-13.54							
5/7/2018 14:21					-83.78								
6/3/2018 20:00					-83.99								
6/4/2018 0:00						-11.75							
6/21/2018 11:57		-162.70											
6/21/2018 12:00					-84.21								
6/22/2018 11:53	-162.60												
7/5/2018 0:00						-11.18							
8/6/2018 12:00					-84.54								
8/13/2018 12:00					-84.38								
9/3/2018 12:00					-84.46								
9/4/2018 12:00						-12.81							

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Well Name	McCallum #1	McCallum #2	Fant	R Family Land	CTC	Robinson	Myers	risty & Larry Bickel					
Highest	-131.20	-131.10	-280.10	-84.97	-77.83	-4.93	-170.79	-164.14	0.00	0.00	0.00	0.00	0.00
Lowest	-190.70	-191.80	-418.80	-237.50	-87.59	-489.97	-498.81	-182.83	0.00	0.00	0.00	0.00	0.00
9/10/2018 9:30							-477.86						
9/28/2018 12:00					-84.30	-11.83							
9/28/2018 12:14	-165.70												
9/28/2018 12:17		-166.00											
9/28/2018 14:20							-473.69						
10/17/2018 16:07			-410.82										
11/5/2018 12:00					-83.46	-5.69							
12/3/2018 12:00					-83.64	-8.36							
12/26/2018 9:12							-475.93						
12/26/2018 11:24	-157.10												
12/26/2018 11:27		-157.40											
12/26/2018 12:00					-83.35								
12/31/2018 12:00						-8.77							
2/4/2019 12:00					-83.48	-8.75							
3/4/2019 12:00					-83.91	-9.39							
3/26/2019 9:35							-468.48						
3/26/2019 11:25	-154.00												
3/26/2019 11:28		-154.10											
3/26/2019 12:00					-84.02								
4/1/2019 12:00						-10.07							
5/6/2019 8:00					-84.51								
5/6/2019 12:00						-9.56							
6/3/2019 12:00					-84.88	-9.55							
6/26/2019 9:18							-467.55						
6/26/2019 11:13	-154.10												
6/26/2019 11:16		-154.40											
7/1/2019 12:00						-9.42							
8/5/2019 12:00					-84.81	-11.04							
9/2/2019 12:00						-11.73							
9/3/2019 12:00					-85.08								
9/27/2019 10:00							-473.06						
9/27/2019 11:41	-164.50												
9/27/2019 11:43		-165.00											
9/27/2019 12:00					-84.98								
10/7/2019 12:00						-12.85							
10/16/2019 11:40				-213.14									
10/18/2019 8:02				-215.47									
10/18/2019 22:02				-212.47									
11/4/2019 12:00					-85.22	-13.56							
12/2/2019 6:00						-13.35							

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Lowest	-190.70	-191.80	-418.80	-237.50	-87.59	-489.97	-498.81	-182.83	0.00	0.00	0.00	0.00	0.00
12/2/2019 12:00					-85.26								
12/26/2019 6:00						-13.80							
12/26/2019 10:11							-473.97						
12/26/2019 12:00					-85.07								
12/26/2019 12:57				-222.86									
12/26/2019 13:20	-158.50												
12/26/2019 13:22		-158.80											
2/2/2020 12:00					-85.10								
2/3/2020 6:00						-14.03							
3/2/2020 6:00						-13.62							
5/4/2020 5:00						-12.01							
5/4/2020 12:00					-84.70								
6/1/2020 12:00					-85.11								
6/2/2020 5:00						-12.07							
6/24/2020 9:28							-474.09						
6/25/2020 5:00						-12.54							
6/25/2020 10:17				-226.63									
6/25/2020 10:34	-171.30												
6/25/2020 10:37		-171.40											
6/25/2020 12:00					-85.38								
8/3/2020 5:00						-13.26							
8/3/2020 12:00					-85.74								
9/7/2020 5:00						-13.53							
9/7/2020 12:00					-84.94								
10/1/2020 12:00					-85.03								
10/2/2020 5:00						-13.28							
10/2/2020 9:02							-483.66						
10/2/2020 10:57	-170.90												
10/2/2020 11:00		-171.30											
10/2/2020 11:15				-233.62									
12/1/2020 12:00					-85.07								
12/27/2020 12:00					-85.07								
12/29/2020 10:30				-235.20									
12/30/2020 13:38	-167.80												
12/30/2020 13:41		-168.00											
12/30/2020 14:38							-480.20						
2/1/2021 6:00						-12.46							
3/1/2021 6:00						-12.88							
3/30/2021 10:11				-237.50									
3/30/2021 10:40								-164.14					

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Lowest	-190.70	-191.80	-418.80	-237.50	-87.59	-489.97	-498.81	-182.83	0.00	0.00	0.00	0.00	0.00
3/31/2021 5:00						-13.30							
3/31/2021 12:00					-85.49								
3/31/2021 14:53		-170.10											
3/31/2021 15:35							-478.98						
4/2/2021 14:49	-169.90												
5/3/2021 5:00						-13.09							
5/3/2021 12:00					-84.93								
6/29/2021 10:07				-236.56									
6/29/2021 10:38								-165.87					
6/30/2021 12:00					-85.47								
6/30/2021 15:10	-172.90												
6/30/2021 15:12		-173.40											
6/30/2021 16:11							-477.89						
9/2/2021 11:40								-168.11					
9/29/2021 12:00					-85.51								
9/29/2021 14:37								-170.24					
9/29/2021 14:48	-177.90												
9/29/2021 14:50		-178.20											
9/29/2021 16:00							-482.21						
10/13/2021 14:30			-418.80										
11/1/2021 12:00					-85.26								
12/29/2021 12:00					-85.06								
12/29/2021 15:07								-166.48					
12/29/2021 15:18	-171.90												
12/29/2021 15:20		-172.20											
12/29/2021 16:14							-481.40						
2/7/2022 18:00					-85.36								
4/6/2022 11:00					-85.55								
4/6/2022 19:17								-171.89					
4/6/2022 19:28	-176.40												
4/6/2022 19:31		-176.70											
4/6/2022 20:39							-482.14						
5/2/2022 11:00					-85.75								
6/29/2022 11:00					-86.28								
6/29/2022 12:43								-176.54					
6/29/2022 12:54	-184.70												
6/29/2022 12:57		-184.50											
6/29/2022 13:48							-485.73						
8/1/2022 11:00					-86.32								
8/22/2022 11:00					-86.32								

Clearwater UWCD - Upper Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #	40-57-902	40-57-903	58-04-103	40-57-905	40-58-201	57-15-903	40-59-302	40-57-906					
CUWCD #	E-02-721G	E-02-722G	E-16-052GU	E-19-224P	M-10-001P	17-CTGCD_Robin	N1-18-003P	N1-19-007P					
Well Name	McCallum #1	McCallum #2	Fant	R Family Land	CTC	Robinson	Myers	risty & Larry Bickel					
Highest	-131.20	-131.10	-280.10	-84.97	-77.83	-4.93	-170.79	-164.14	0.00	0.00	0.00	0.00	0.00
Lowest	-190.70	-191.80	-418.80	-237.50	-87.59	-489.97	-498.81	-182.83	0.00	0.00	0.00	0.00	0.00
9/6/2022 11:00					-86.14								
10/5/2022 11:00					-86.06								
10/5/2022 12:59								-178.05					
10/5/2022 13:10	-185.30												
10/5/2022 13:13		-185.30											
10/5/2022 13:57							-491.81						
11/1/2022 11:00					-85.75								
12/29/2022 18:00					-85.25								
12/29/2022 21:00								-172.25					
12/29/2022 21:16	-178.40												
12/29/2022 21:19		-178.10											
12/29/2022 22:22							-481.26						
2/6/2023 6:00						-17.18							
2/6/2023 18:00					-85.27								
3/6/2023 6:00						-13.49							
3/6/2023 18:00					-85.46								
3/29/2023 5:00						-13.29							
3/29/2023 17:00					-85.77								
3/29/2023 19:08								-170.48					
3/29/2023 19:21	-177.80												
3/29/2023 19:23		-177.60											
3/29/2023 20:22							-488.82						
5/1/2023 5:00						-13.65							
5/1/2023 17:00					-85.62								
6/5/2023 5:00						-11.72							
6/5/2023 17:00					-85.79								
6/28/2023 5:00						-12.85							
6/28/2023 17:00					-86.12								
6/28/2023 19:04								-175.48					
6/28/2023 19:18	-182.80												
6/28/2023 19:20		-183.90											
6/28/2023 20:19							-490.09						
8/7/2023 17:00					-86.45								
9/5/2023 17:00					-86.36								
9/29/2023 17:00					-86.24								
9/29/2023 19:00								-182.83					
9/29/2023 19:15	-190.70												
9/29/2023 19:18		-191.80											
9/29/2023 20:10							-498.81						
11/6/2023 18:00					-85.74								

Clearwater UWCD - Upper Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #	40-57-902	40-57-903	58-04-103	40-57-905	40-58-201	57-15-903	40-59-302	40-57-906					
CUWCD #	E-02-721G	E-02-722G	E-16-052GU	E-19-224P	M-10-001P	17-CTGCD_Robin	N1-18-003P	N1-19-007P					
Well Name	McCallum #1	McCallum #2	Fant	R Family Land	CTC	Robinson	Myers	risty & Larry Bickel					
Highest	-131.20	-131.10	-280.10	-84.97	-77.83	-4.93	-170.79	-164.14	0.00	0.00	0.00	0.00	0.00
Lowest	-190.70	-191.80	-418.80	-237.50	-87.59	-489.97	-498.81	-182.83	0.00	0.00	0.00	0.00	0.00
12/29/2023 18:00					-85.44								
12/29/2023 21:52								-174.64					
12/29/2023 21:59	-179.50												
12/29/2023 22:02		-180.50											
12/29/2023 22:32							-487.47						
2/6/2024 0:00				-85.08									
3/5/2024 0:00				-85.09									
3/29/2024 0:00	-174.93	-175.44		-85.40		-486.83	-170.79						
5/7/2024 0:00				-84.97									
6/4/2024 0:00				-85.78									
6/28/2024 0:00	-173.34	-174.23		-86.00			-171.22						
8/6/2024 0:00				-86.34									
9/28/2024 0:00	-184.96	-184.43		-85.98		-487.03	-178.75						
11/5/2024 0:00				-85.49									
12/3/2024 0:00				-85.68									
12/28/2024 0:00				-85.33									
12/31/2024 0:00	-178.36	-179.24				-489.97	-174.38						
Since Last													
Historic													

E-line Measurement
Sonic Measurement
TWDB Measurement
No Reading Available

The desired future conditions established by Clearwater Underground Water Conservation District for the Upper Trinity is no more than 155 feet of drawdown after 50 years.

The average drawdown goal per year is -3.1 feet.

Minimum Number of Measurements: 5

Average Drawdown	**1.4 ft/yr**
Drawdown of Water Level	
Increase of Water Level	

Clearwater UWCD - Middle Trinity Monitor Wells

Staff measures well quarterly in order to closely monitor the aquifer levels as part of our statutory responsibility. The Texas Water Development Board collected some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of the aquifer's overlaying area in the transmissivity of the TWDB web and as additional well in Salado, shown in red.

Point #	18-04-406	18-04-407	18-04-514	18-02-402	18-02-411	18-04-405	40-53-308	18-03-704	18-04-104	18-03-104	18-04-411	18-04-414	18-04-415	18-04-416	18-03-313	18-02-203	18-04-416	18-02-302	18-04-417	18-03-709	18-02-504	18-03-706	40-57-601	18-02-501	18-03-701	18-02-202	18-03-201	17-16-201	17-24-503	18-03-203	18-01-202	40-49-601	18-02-304	18-03-405	18-03-305	18-03-304	18-03-404	40-53-303	40-57-603	18-03-506	18-02-901	40-61-407	18-03-503	18-02-103	18-04-314	18-04-315	40-61-408	18-04-708	18-04-705	18-04-706	40-53-708	18-04-707
O/W/CI #	E-SE-140615	E-SE-140715	E-SE-140914	E-SE-440F	E-DE-050P	E-DE-060P	E-DE-060P	E-DE-051P	E-DE-080P	E-SE-030P	E-SE-010P	E-SE-020P	E-SE-021P	E-SE-022P	E-SE-023P	E-SE-031	E-SE-032	E-SE-033	E-SE-034	E-SE-035	E-SE-036	E-SE-037	E-DE-021P	E-SE-001	E-SE-002	E-SE-003	E-SE-004	E-SE-005	E-SE-006	E-SE-007	E-SE-008	E-SE-009	E-SE-010	E-SE-011	E-SE-012	E-SE-013	E-SE-014	E-SE-015	E-SE-016	E-SE-017	E-SE-018	E-SE-019	E-SE-020	E-SE-021	E-SE-022	E-SE-023	E-SE-024	E-SE-025	E-SE-026	E-SE-027	E-SE-028	E-SE-029	E-SE-030	E-SE-031
Well Name	N. Springs	Finch	S. Spring Fed	Mukamoose	Rutlidge	Wm Fitzjerrars Monitor	Bonds	Staplehorst	Christian	Sloan	Eckstrom	Lee	Pedigo	Frisbie	Goodwill	Script	Brown	Hicks	Georgia	H Camp W	Whites	Copperas Cove - Middle	Swartzkopp Monitor W	Gault - Middle Trinity	W Ridge Monitor W	Allen	Fischer	Ramirez	Matthaei	Bailey	Turnbull	Lauria Gehring	Richard Ross	Michael Maples	David Cole	Ronald Hale	William Lott	City of Holland	Bell Ranch	Killeen Cruthird Stone	Axelle Cowboy Chum	Salado ISD 2H2	CJ Evans	Vilmow	BL Materials	Pilot Acres 1 Settlement	Pilot Acres 2 Phinney	Pilot Acres 3 Phinney	Fowate	Victoria Nash LLC	Scott Gilliland
Highest	373.90	370.40	313.00	399.58	493.20	381.40	359.70	439.80	346.90	333.40	302.26	374.00	375.04	287.00	399.72	390.00	403.01	469.23	331.00	580.40	357.90	299.47	454.00	423.73	254.90	398.07	213.38	386.80	337.27	427.76	81.30	373.23	540.76	512.22	588.08	171.33	422.80	423.80	389.43	381.20	253.00	513.20	17.20	305.30	343.30	62.00	288.10	318.20	301.10	696.30	430.79	430.40	440.95	300.00	408.08
Lowest	473.40	450.80	409.90	517.90	533.40	474.70	448.60	742.73	481.40	411.50	506.00	462.34	480.02	441.79	358.36	476.35	483.30	494.14	374.22	593.23	580.40	343.38	523.79	725.98	317.80	422.00	250.30	368.00	340.57	473.83	328.18	589.15	393.71	540.91	631.13	294.22	459.64	500.74	443.77	440.96	304.13	580.46	529.94	391.30	497.30	359.50	385.50	367.99	335.00	761.39	503.41	504.55	483.23	500.00	495.94
10/31/2000 18:00																																																					
11/31/2000 18:00																																																					
9/30/2003 17:00																																																				
11/31/2003 18:00																																																				
6/30/2004 17:00																																																				
11/31/2004 18:00																																																				
3/31/2005 18:00																																																				
12/31/2005 18:00																																																				
1/1/2006 0:00																																																				
6/30/2006 17:00																																																				
8/31/2006 17:00																																																				
9/30/2006 17:00																																																				
10/31/2006 18:00																																																				
12/31/2006 18:00																																																				
1/1/2007 0:00				410.50		281.40	373.60																				265.50																												
2/8/2007 0:00								566.00																																													
6/30/2007 17:00																																																				
9/30/2007 17:00				399.58		287.20	377.90																				254.90																												
12/31/2007 18:00																																																					
1/1/2008 0:00				410.58		290.70	380.80																				260.50																												
1/1/2008 0:00									346.90																																												
6/30/2008 17:00																																																				
9/30/2008 17:00				433.42		333.20	440.60																				278.80																												
1/1/2008 0:00																																																				
12/31/2008 18:00																																																				
1/1/2009 0:00				426.67		322.60	387.90		368.40																		282.90																												
6/30/2009 17:00																																																				
7/1/2009 0:00				445.58		367.40	368.50		377.40																		292.20																												
7/1/2009 12:00																																																				
12/31/2009 12:00																																																				
1/1/2010 0:00				429.58		325.30	361.20		371.40														306.94				280.10			337.38	427.97	84.67																							
1/1/2010 12:00																																																					
6/30/2010 17:00																																																				
7/1/2010 0:00				436.38		344.00	376.80		377.30														295.47				285.90			337.27	427.76	84.71																							
9/30/2010 17:00																																																					
12/31/2010 18:00												341.00																																										
1/1/2011 0:00				426.70		333.80	370.20		380.10														308.10				285.40			337.42	430.89	91.56																							
1/1/2011 12:00																																																					
6/30/2011 17:00																																																				
7/1/2011 0:00				468.16		402.20	360.70		404.50														313.40				310.60			338.13	427.89	97.59																							
9/30/2011 17:00																																																				
8/31/2011 17:00																																																				
9/1/2011 0:00						403.50	360.50		411.00														318.94				323.80			339.31		102.00																							
9/1/2011 12:00																																																				
10/31/2011 17:00																																																				
11/1/2011 0:00				470.40		384.80	363.00		412.30														316.65				318.00	408.10		338.50	444.40	100.99																							
11/1/2011 12:00																																																				
12/31/2011 18:00																																																				
1/1/2012 0:00				456.93		375.60	360.60		398.60														309.74				302.80	398.07		338.66	438.81	92.28																							
1/1/2012 12:00																																																				
10/30/2012 11:35																																																				
12/31/2012 18:00																																																				
1/1/2013 0:00				454.34		369.40	359.70		400.50														312.56				301.70	416.08	-218.47	338.83	446.13	98.91																							
1/1/2013 12:00																																																				
6/30/2013 17:00																																																				
7/1/2013 0:00				461.13		387.70	365.80		411.20	555.40													313.45				311.40	402.45	-218.88	338.87		97.72																							
1/1/2013 12:00																																																				
6/30/2013 0:00																								-476.40																													
7/31/2013 17:00																																																				
8/1/2013 0:00	-621.40	-624.10	-364.20	-472.46		-416.20	-369.80		-422.20	-568.20													317.87	-478.60			323.80	-404.83	-225.45	338.96	-448.42	-99.63																							
8/1/2013 12:00																																																				
11/30/2013 18:00																																																				
12/1/2013 0:00	-331.00	-333.80	-335.90			-385.00	-369.40		-421.70	-572.40													314.73	-472.40			325.50	-405.83	-222.98	338.99		-100.00																							
12/1/2013 12:00																																																				
11/8/2013 7:00												-374.00																																									
12/31/2013 18:00																																																				
1/1/2014 0:00	-383.80	-386.50	-322.90			-373.60	-368.50		-416.10	-565.80													311.78	-464.90	-430.00		320.50	-404.89		338.82		-99.77																							
1/1/2014 12:00																								-477.40																													
6/30/2014 17:00																																																				
7/1/2014 0:00	-402.00	-405.50	-335.20			-389.30	-373.40		-417.80	-572.70													313.33	-473.70	-645.00		-405.21			338.98	-447.29	-98.87																							
1/1/2014 12:00																																																				
12/31/2014 0:00																																																				
1/1/2015 0:00	-409.70	-413.10	-351.90			-411.00	-373.50		-425.50	-581.20													314.87	-477.10	-655.90		-426.90	-406.32	-224.91	339.06	-448.41	-100.09																							
8/1/2014 12:00																																																				
9/30/2014 0:00																-397.00																																						
10/31/2014 17:00																																																				
11/1/2014 0:00	-411.20	-415.10	-348.80			-405.50	-375.90	-678.00	-432.50	-584.40													316.99	-479.80	-650.98		-343.30	-407.45	-224.34	339.01	-450.72	-101.46																							
11/1/2014 12:00																																																				
12/31/2014 18:00																																																				
1/1/2015 0:00	-386.00	-388.50	-324.30			-374.40	-370.60	-665.20	-420.60	-568.70													312.52	-468.30	-648.91		-327.90	-406.51	-223.19	338.90	-449.74	-100.32																							
1/1/2015 12:00																																																				
1/6/2015 18:00																																																				
1/31/2015 17:30																																																				
6/30/2015 17:00	-384.10	-386.30	-324.00			-376.00	-371.10	-659.20	-415.50	-563.30													307.36	-465.30	-630.83		-320.30	-403.68	-219.65		-443.67	-97.48																							
9/1/2015 12:00																																																				
9/14/2015 0:00																																																				
9/1/2015 0:00																																																				
9/14/2015 17:00																																																				
10/31/2015 0:00	-411.50		-352.20			-410.50	-375.70	-678.60	-429.00	-582.80													314.51	-478.70	-652.11		-405.49	-223.84		336.14																							
9/14/2015 0:00																																																				
11/1/2015 0:00																																																				
11/19/2015 7:00																																																				
11/29/2015 18:00																																																				
11/30/2015 0:00	-387.40		-327.20			-377.10	-371.90	-683.80	-423.60	-571.10													313.26	-473.00	-642.10		-405.04	-219.49			-446.60	-94.14																							
12/3/2015 18:00																																																				
1/1/2016 0:00																																																				
1/1/2016 12:00																																																				
1/6/2016 18:00																																																				
1/31/2016 17:30																																																				
6/30/2016 0:00	382.70		-319.90			-370.90	-368.40	-657.20	-421.20	-562.70													307.95	-467.40	-639.33																													
6/1/2016 0:00																																																				
6/28/2016 0:00	-374.00		-316.85			-368.74	-366.50	-650.00	-413.60	-556.80													306.26	-459.10	-629.44		-401.51	-214.67			-443.86	-95.41																							
6/28/2016 12:00																																																				
9/1/2016 0:00																																																				
9/1/2016 12:00																																																				
9/28/2016 17:00				-469.60																																																
9/30/2016 0:00								-572.20	-696.20														309.65	-461.40	-629.95		-330.90	-408.73	-217.75		-444.12	-97.62																							
9/1/2016 0:00	-374.60	-387.10	-317.70																																																	
10/1/2016 0:00						369.90																	307.50																													
10/1/2016 12:00																																																				
10/6/2016 0:00																																																				
10/6/2016 12:00																																																				
10/31/2016 0:00																																																				
11/1/2016 0:00																																																				
11/1/2016 12:00																																																				
11/7/2016 0:00																																																				
11/14/2016 0:00																																																				
11/21/2016 0:00																																																				
11/28/2016 0:00																																																				
12/5/2016 0:00																																																				
12/12/2016 0:00																																																				
12/19/2016 0:00																																																				
12/26/2016 0:00	-373.90	-377.30	-313.00					-650.90			-561.60																																										
1/9/2017 0:00																																																				
1/9/2017 12:00									411.30														308.10																													
1/9/2017 12:00																																																				
1/31/2017 0:00																																																				
1/31/2017 12:00				-459.70																																															
2/6/2017 0:00																																																				
2/6/2017 12:00																																																				
2/28/2017 0:00																																																				
3/1/2017 0:00																																																				
3/1/2017 12:00																																																				
3/30/2017 0:00				-469.60				-572.20	-696.20														309.65	-461.40	-629.95		-330.90	-408.73	-217.75		-444.12	-97.62																							
3/31/2017 0:00																																																				
4/1/2017 0:00	-374.60	-387.10	-317.70			-369.90			-414.30	-557.10													307.50																													
10/1/2017 0:00																																																				
10/4/2017 0:00																																																				
10/5/2017 0:00																																																				
10/6/2017 0:00																																																				
10/13/2017 0:00																																																				
10/20/2017 0:00																																																				
10/27/2017 0:00																																																				
11/3/2017 0:00																																																				
11/9/2017 0:00																																																				
11/16/2017 0:00																																																				
11/17/2017 0:00																																																				
11/20/2017 0:00																																																				
11/27/2017 0:00																																																				
12/4/2017 0:00																																																				
12/11/2017 0:00																																																				
12/18/2017 0:00																																																				
12/26/2017 0:00	389.30	392.80	-326.30			-378.90																																														
1/2/2018 0:00																																																				
1/5/2018 0:00																																																				
1/5/2018 0:00																																																				
1/5/2018 10:07																																																				
1/5/2018 10:08																																																				
1/5/2018 10:11																																																				
1/5/2018 10:13																																																				
1/5/2018 10:14																																																				
1/5/2018 12:00																																																				
1/5/2018 13:04																																																				
1/5/2018 13:00																																																				
1/29/2018 0:00				462.90																																															
1/29/2018 10:25								-578.20																																												
1/29/2018 10:44																																																				
1/29/2018 11:38																																																				
1/29/2018 12:00																																																				
1/29/2018 13:00																																																				
1/29/2018 14:38								-670.10																																												
1/29/2018 14:55																																																				
1/29/2018 14:50																																																				
1/29/2018 15:00																																																				
1/29/2018 15:35									419.60	-576.70																																									
1/29/2018 15:25																																																				
1/30/2018 0:00																																																				
1/30/2018 9:58	-333.30																																																			
1/30/2018 10:00		-397.00																								

Clearwater UWCD - Middle Trinity Monitor Wells

Staff measures well quarterly in order to closely monitor the aquifer levels as part of our statutory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of the measurements remaining done in the measurements of the TWDB wells and an additional well in Salado, shown in red.

Date #	18-34-406	18-34-407	18-34-514	55-63-902	55-62-402	54-64-405	48-52-308	18-25-704	18-34-504	18-33-104	18-34-411	18-34-414	18-34-415	18-34-416	18-34-417	18-33-708	18-32-504	18-34-708	48-57-601	54-62-503	54-63-701	18-32-302	18-39-201	17-32-201	17-24-503	18-39-203	18-31-202	40-40-601	54-63-304	55-63-405	18-17-504	48-53-707	48-59-305	40-59-804	40-59-903	40-57-603	18-33-506	18-31-901	40-61-407	18-03-503	54-62-103	18-04-314	54-64-315	40-61-408	18-36-706	18-34-705	18-34-706	40-53-708	18-34-707
OWCD #	E-SE-140601	E-SE-140701	E-SE-140901	E-SW-644P	E-DE-050P	E-DE-060P	E-DE-061P	E-DT-012P	E-DE-080P	E-DE-081P	E-DE-082P	E-13-050P	E-DD-051P	E-14-050P	E-14-059P	E-15-050P	E-17-050P	E-18-041P	E-18-042P	E-20-109P	E-26-120P	E-21-032P	E-18-043P	E-18-044P	E-17-CTCC5_Al	M-17-CTCC5_Fischer	M-17-CTCC5_Matting	M-17-TW36 Briggs	M-17-TW38 Kemper	M-18-TW36 Cove	M-SE11102	M-SE17504	N1-09-002P	N1-16-004P	N1-16-005P	N1-16-006P	N1-16-007P	N1-16-008P	N2-10-013L	N2-10-014L	N2-10-015L	N2-04-012P	N2-07-003L	N2-07-004L	N2-07-005L	N2-08-002P	N2-08-004P	N2-10-005P	N2-10-006P	N3-14-003P	N3-15-001P	N3-15-002P	N3-19-002P	N3-19-003P	N3-20-007L	N3-22-003P
Well Name	N. Springs	Finch	S. Spring Fed	Mulcahey	Rathbun	Wm Pridgeon Monitor	Brooks	Spyglass	Christian	Sloan	Eckstrom	Lee	Pedigo	Frisbie	Goodwill	Script	Rowan	Wiley	Coppenia Cove - Middle	Swartzberg Monitor W	Gault - Middle Trinity	W Ridge Monitor W	Allen	Fischer	Rowsoul	Matthieu's	Bailey	Tuttle	Laurel Gehring	Richard Ross	Mitchell Maples	Gerald Cude	Ronald Nale	William Lutz	City of Holland	Bell Plz	Killeen Crushed Stone	Audie Cowboy Chism	Salado ISD YHS	CJ Evans	SWMR	BL Materials	I-Plex Acres 2	Settlement Ctr	Pitt Acres 2 Phoney	Feware	Victory Rock LLC	Scott Gilliland
Highest	373.90	370.40	313.00	399.58	491.20	391.40	359.70	439.80	346.90	335.40	353.40	374.00	375.04	287.00	399.72	390.00	403.01	484.23	331.00	580.40	357.90	295.47	454.00	423.72	254.90	398.07	212.38	386.80	337.27	427.76	81.30	373.23	540.76	512.22	588.08	271.23	422.80	423.80	389.43	381.20	253.00	513.20	537.20	305.30	343.30	62.80	288.10	318.20	301.10	696.30	430.79	430.40	440.91	300.00	408.08
Lowest	473.40	450.80	409.90	517.90	515.40	434.70	440.40	742.73	481.40	451.50	506.00	462.34	469.02	441.79	356.36	476.35	483.30	484.14	374.22	664.23	580.40	413.60	543.38	529.53	407.50	447.50	337.50	520.18	189.15	383.71	540.90	431.13	290.22	459.64	500.74	443.77	443.96	369.13	447.80	367.99	335.00	429.94	497.30	359.50	385.50	387.99	335.00	762.39	520.41	524.55	463.23	489.74	435.84
3/4/2018 0:00																																																	
3/4/2018 1:00																									-533.43																								
3/4/2018 10:20																																				-526.30													
4/25/2018 9:45				481.20																																												
4/25/2018 10:00						380.72																																										
4/25/2018 10:55																																																
4/25/2018 11:00																			310.87				327.93					447.23	335.16	281.07																			
4/25/2018 12:30																																																
4/25/2018 13:38																						496.71																											
4/25/2018 14:25																																																
4/25/2018 15:06																																																
5/1/2018 11:00									430.90																																							
5/1/2018 11:20	-521.40																																															
5/1/2018 9:23		-525.60																																														
5/1/2018 9:35					-550.00																																										
5/1/2018 9:47			367.40																																												
5/1/2018 11:28																																																
5/2/2018 11:37																																																
5/2/2018 14:30																																																
5/2/2018 14:44																																																
5/15/2018 16:25																																																
5/16/2018 8:48																																																
5/16/2018 9:12																																																
5/16/2018 11:39									-587.90																																							
5/16/2018 11:50													-425.20																																			
5/16/2018 12:00																							-659.82																									
5/16/2018 13:00																									-416.70	-233.83	-598.00	-339.40																				
5/17/2018 12:42	-427.20																																															
5/17/2018 13:45		-430.60																																														
5/17/2018 14:05			365.70																																													
5/17/2018 14:55					424.70																																											
5/18/2018 9:21													-430.90																																			
5/18/2018 11:05									-600.90																																							
5/18/2018 12:00																			312.26				-663.13	-343.19																								
5/18/2018 13:00																																																
5/18/2018 14:30																																																
5/18/2018 15:24																																																
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7/25/2018 8:30																																																
7/25/2018 9:05																																																
7/25/2018 9:45				491.00																																											
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7/25/2018 10:17																																																
7/27/2018 10:22																																																
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7/27/2018 11:40																																																
7/27/2018 15:22																																																
7/27/2018 18:58																																																
7/28/2018 9:00													-428.70																																			
7/28/2018 9:18								444.50																																								
7/28/2018 9:43																																																
7/28/2018 10:00									-601.80																																						
7/28/2018 10:59																																				-538.88												
7/28/2018 11:12																						-523.79																									
8/28/2018 11:51																																																
8/28/2018 12:00																			-321.18				-616.80	-230.72	-598.40	-339.20	-440.27	-335.80	-283.52																			
8/28/2018 13:00																																				-279.24												
8/28/2018 13:36						383.87																																										
8/28/2018 14:05				482.80																																											
10/1/2018 10:18																																																
10/29/2018 14:11																																																
11/1/2018 11:00																			318.97				-674.76	-346.51	-415.20	-222.28	-387.80	-339.10	-446.96	-332.02	-281.21																			
11/7/2018 11:00																																																
11/28/2018 14:02																																																
12/3/2018 12:00																			318.89				-674.76	-342.39	-414.60	-219.58	-387.70	-339.10	-446.94	-98.55	-280.06																			
12/26/2018 8:55				470.20																																												
12/26/2018 9:43																																																
12/26/2018 9:53																																																
12/26/2018 10:10						381.52																																										
12/26/2018 11:00																																																
12/26/2018 13:47																																																
12/26/2018 14:00																			319.56				-339.54					-446.67	-95.94	-178.95																			
12/26/2018 15:22																						-486.70																									
12/26/2018 15:38																																																
12/26/2018 16:00									-583.80																																						
12/26/2018 16:20								429.90																																							
12/27/2018 9:03													-416.20																																		
12/27/2018 9:20	395.40																																														
12/27/2018 9:31		-398.40																																													
12/27/2018 9:58										413.20																																					
12/27/2018 10:07					381.00																																										
12/27/2018 10:11			330.80																																												
12/27/2018 11:00																																																
12/27/2018 12:00																							-668.69																									
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12/27/2018 14:47																																																
12/31/2018 12:00																									-613.70	-216.86	-387.80	-338.90																				
1/2/2019 0:00																																																
1/2/2019 10:00																		-682.00																													
1/4/2019 12:00																			315.06				-668.32	-333.81	-412.60	-214.68	-387.80	-338.90	-446.28	-81.30	-277.77																			
1/4/2019 19:00					384.61																																											
1/11/2019 9:30																																																
1/11/2019 11:00																																																
1/4/2019 12:00																			313.30				-663.32	-331.88	-412.40	-213.66	-387.60	-339.30	-446.40	-84.34	-278.16																			
1/4/2019 19:00					379.71																																											
1/28/2019 9:17				465.50																																											
2/26/2019 10:03																																																
3/26/2019 10:31																																																
3/26/2019 11:05																																																
3/26/2019 11:50																																																
3/26/2019 12:00																			312.41				-682.77					-446.54	-85.90	-278.78	-340.76																		
3/26/2019 12:55																																																
3/26/2019 13:21						379.50																																										
3/26/2019 13:05																						480.68																											
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3/26/2019 14:34																																																
3/26/2019 14:37																																																
3/26/2019 14:51									-575.10																																							
3/26/2019 15:39								423.30																																								
3/26/2019 15:25													-414.20																																		
3/26/2019 15:40			329.60																																												
3/26/2019 16:20	-301.30																																															
3/28/2019 12:00																							-662.54																									
3/28/2019 12:52																																																
3/28/2019 15:29																																																
3/28/2019 15:42																																																
3/28/2019 16:02																																																
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3/28/2019 16:50																																																
4/1/2019 12:00																									-612.30	-213.84	-387.90	-339.40																				
4/1/2019 16:00					388.49																																											
5/1/2019 9:27																																																
5/1/2019 11:00																									-333.90																							
5/6/2019 7:00																			315.36									-446.49																				
5/6/2019 8:00																																																
5/6/2019 11:00																														-178.37																	
5/6/2019 12:00							679.15																-658.15		-611.80	-213.45	-387.70	-338.90																			
5/6/2019 13:00					388.37																																											
5/6/2019 13:00							679.92												315.95				-658.09		-612.50	-212.94	-387.30	-339.00	-446.36	-83.44	-277.67																		
5/9/2019 18:00					395.23																																											
5/9/2019 4:00																									-333.33																							
6/5/2019 1:15																																																
6/26/2019 6:48				470.10																																												
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6/26/2019 10:50																																																
6/26/2019 12:00																			314.99				-658.16	-335.11				-446.38		-178.03																		
6/26/2019 12:55						379.03																																										
6/26/2019 12:22																						477.07																									
6/26/2019 13:00																																																
6/26/2019 14:34																																																
6/26/2019 14:55																																																
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6/26/2019 14:30									-569.30																																						
6/26/2019 14:50								423.50																																							
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6/27/2019 9:08																																															
6/27/2019 9:30	398.70																																														
6/27/2019 14:30			330.90																																												
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6/27/2019 16:55																																																
7/1/2019 0:00							676.67																																									
7/1/2019 12:00																									-611.70	-212.38	-387.30	-339.20																			
7/1/2019 18:00					394.04																																											
7/8/2019 12:00																							-664.18																									
8/5/2019 12:00							686.45												319.63				-667.79	-348.96				-446.76	-105.95	-284.07																		
8/5/2019 18:00					427.34																				-617.90	-225.94	-389.00	-339.30																			
9/1/2019 12:00							696.16																		-614.80	-219.79	-388.80	-339.40																			
9/3/2019 12:00																																																
9/25/2019 12:45			374.60																																												
9/26/2019 10:00																																																
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9/26/2019 23:35																																																
9/27/2019 9:42			490.80																																													
9/27/2019 9:47						382.27																																										
9/27/2019 12:17																																																
9/27/2019 12:00																			316.46				-684.63					-447.71	-94.22	-279.98	-368.65																		
9/27/2019 12:06																																																
9/27/2019 13:33																						-687.82																									
9/27/2019 14:44																																																
9/27/2019 15:05																																																
9/27/2019 15:19									-603.40																																						
9/27/2019 15:31								440.10																																							
10/5/2019 12:00																												-339.40																		
10/7/2019 12:00							704.13																		-616.30	-222.81	-388.50																			
10/7/2019 12:00					435.60																																										
10/8/2019 11:36	-433.60																																														
10/8/2019 11:35																																																
10/8/2019 12:06																																																
11/4/2019 12:00																			315.87				-685.38		-616.10	-221.27	-388.10		-447.96	-96.73	-278.62	-369.87																	
11/7/2019 12:00																										-221.30		-339.60	-447.83																			
11/7/2019 12:00																			314.47				-683.26							-278.71	-366.71																		
11/8/2019 11:00																														-97.17																		
11/26/2019 8:00																										-219.67		-339.30																			
12/26/2019 9:48				475.50																																											

Clearwater UWCD - Middle Trinity Monitor Wells

Staff measures well quarterly in order to closely monitor the aquifer levels as part of our statutory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of the measurements of the TWDB wells and an additional well in Sabella, shown in red.

Name #	58-04-406	58-04-407	58-04-514	65-60-902	58-02-415	66-04-305	66-03-328	58-03-704	58-04-409	58-03-134	58-04-411	58-04-414	58-04-415	58-04-313	58-02-203	58-04-416	58-02-302	58-04-417	58-03-709	58-02-504	58-04-706	48-57-601	58-02-503	58-03-701	58-02-202	58-09-201	57-16-201	57-24-503	58-09-203	58-01-202	40-40-601	58-03-304	58-03-405	58-01-205	58-17-504	48-53-707	58-03-305	48-59-804	48-53-803	48-57-603	58-03-506	58-01-901	48-61-407	58-03-503	58-02-103	58-04-314	58-04-315	48-61-408	58-06-708	58-04-705	58-04-706	48-53-708	58-04-707	N3-29-007E	N3-29-009E
GCWCD #	E-58-140GS	E-58-140TS	E-58-140MS	E-65-644P	E-05-059P	E-05-060P	E-06-062P	E-07-011P	E-08-085P	E-59-060P	E-10-018P	E-59-091P	E-13-056P	E-14-052P	E-14-053P	E-15-050P	E-17-010P	E-17-016P	E-18-041P	E-20-109P	E-26-122P	E-21-032P	M-59-065P	M-13-001P	M-14-002P	M-16-001C	17-CTSCD_AI	M-17-CTSCD_Fischer	M-17-CTSCD_Ramos3	Y-17-CTSCD_Matting	M-17-TWDB Briggs	M-17-TWDB Kemper	M-18-TWDB Cove	M-19-002P	M-20-001P	M-581102	Bailey	58-03-506	N1-18-001P	N1-18-002P	N1-18-003P	N1-18-004P	N1-18-005P	N1-18-006P	N1-18-007P	N1-18-008P	N1-18-009P	N1-18-010P	N1-18-011P	N1-18-012P	N1-18-013P	N2-18-014P	N2-18-015P	N2-18-016P	N2-18-017P	N2-18-018P	N2-18-019P	N2-18-020P	N2-18-021P	N2-18-022P
Well Name	N. Springs	Finch	S. Spring Fed	Mutzenmeir	Rathbun	Weir (Sharpstown Monitor)	Weir (Sharpstown Monitor)	Brooks	Tarpley Home	Christian	Sloan	Eckstrom	Lee	Pedigo	Frisbie	Goodwill	Sorge	Nowak	Wiley	Georgi	H Camp W	Whites	Copperas Cove - Middle	Smartsburg Monitor W	Koch - Middle Trinity	W Ridge Monitor W	Allen	Fischer	Ramos	Matting	Briggs	Kemper	Cove	Hill Hensell	Hines Monitor Well	Bailey	Tuttle	Laurie Gehring	Richard Ross	Michael Maples	David Cole	Ronald Nale	William Lipf	City of Holland	Bell Plt	Killeen Crushed Stone	Axelle Cowboy Chum	Salado ISD (HS)	CJ Evans	SWMI	BL Materials	I-Plex Acres 1	I-Plex Acres 2	Windermere	Iris Acres 2 Phinney	Feware	Victory Park LLC	Scott Gilstrap
Highest	373.90	370.40	313.00	399.58	493.20	281.40	359.70	439.80	346.90	555.40	413.20	302.26	374.00	375.04	287.00	399.70	390.00	403.01	466.03	468.23	331.00	680.40	357.90	299.47	454.00	423.72	396.80	337.27	427.76	81.30	373.23	640.76	512.22	588.08	371.23	422.80	423.80	389.43	381.20	253.00	513.20	537.20	305.30	343.30	62.80	288.10	318.20	301.10	696.30	430.79	430.40	440.91	300.00	408.08
Lowest	473.40	450.80	409.90	517.90	615.40	474.70	448.60	742.70	681.40	651.90	556.00	462.34	689.03	461.79	358.36	476.35	483.30	484.14	724.22	564.23	580.40	412.60	565.38	523.78	729.38	357.80	460.00	540.57	474.83	539.28	389.05	760.24	640.91	431.13	296.22	459.64	500.24	441.77	440.95	310.20	580.40	528.94	381.50	387.98	315.00	385.50	367.98	335.00	761.39	503.41	524.55	483.23	389.74	435.04
11/26/2019 10:40																																																					
11/26/2019 10:49																																						406.00																
11/26/2019 11:26						384.70																																														
11/26/2019 12:00																						316.24							447.62	97.48	176.72	365.32																						
11/26/2019 12:28																																								271.35														
11/26/2019 12:22																																													143.50							
11/26/2019 13:31															289.00																																				
11/26/2019 14:30																								491.40																												
11/26/2019 15:16																																					469.68															
11/26/2019 15:30																																								538.76												
11/26/2019 15:41																																																		
11/26/2019 16:03									438.50																																									
11/27/2019 9:33								709.17																																										
11/27/2019 9:29											436.15																																						
11/27/2019 9:40	408.50																																																
11/27/2019 10:09												423.66																																					
11/27/2019 10:25			345.40																																														
11/27/2019 12:00																									685.25																										
11/27/2019 12:41																																																	
11/27/2019 12:18					402.01																																												
11/27/2019 12:41														400.10																																				
11/27/2019 13:53																		420.13																																
11/27/2019 20:20																410.00																																		
11/28/2019 8:40													422.89																																				
11/28/2019 9:30																																																	
11/30/2019 10:13																																																	
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Clearwater UWCD - Middle Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statutory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of the measurements remaining and in the maintenance of the TWDB wells and an additional well in Ellis County.

Date #	58-04-406	58-04-407	58-04-514	58-02-402	58-04-415	58-04-416	58-04-417	58-04-418	58-04-419	58-04-420	58-04-421	58-04-422	58-04-423	58-04-424	58-04-425	58-04-426	58-04-427	58-03-709	58-02-504	58-04-706	48-57-601	58-02-903	58-03-701	58-02-302	58-03-201	17-16-201	17-24-503	58-09-303	58-01-202	40-40-601	58-03-304	58-03-403	58-27-504	48-53-707	58-03-305	48-59-804	48-59-803	48-57-603	58-03-506	58-01-901	48-61-407	58-03-503	58-02-103	58-04-314	58-04-315	48-61-408	58-06-708	58-04-705	58-04-706	48-53-708	58-04-707	N3-23-003*
OWCD #	E-58-140GS	E-58-140TS	E-58-140MS	E-58-644P	E-05-053P	E-05-052P	E-06-062P	E-07-011P	E-08-085P	E-09-095P	E-10-018P	E-58-614S	E-10-051P	E-10-052P	E-13-056P	E-13-058P	E-17-010P	E-18-042P	E-20-109P	E-20-122P	E-21-032P	M-13-001P	M-09-065P	M-13-002P	M-14-002P	M-19-003P	M-20-001P	M-581102	M-581704	N1-09-005P	N1-16-006P	N1-16-004P	N1-16-003P	N1-16-005P	N1-16-002P	N1-16-008P	N1-18-007P	N1-18-009P	N2-10-013G	N2-04-012P	N2-07-003G	N2-07-004G	N2-07-006G	N2-02-101	N2-08-002P	N2-08-001P	N2-08-003P	N2-10-002P	N2-10-004P	N2-19-002P	N2-19-001P	N2-29-007G	N2-23-003P
Well Name	N. Springs	Finch	S. Spring Fed	Mulcahey	Mulchay	Van Dreyfuss	Monnier	Brooks	Stephenson	Christian	Sloan	Eckstrom	Lee	Pedigo	Fricke	Goodwill	Surjaj	Rowan	Hiltz	Georgia	Ivy Camp W	Whites	Copperas Cove - Middle	Swartzkopf	Smartsville Monitor W	Koch - Middle Trinity	W. Ridge Monitor W	Allen	Fischer	Ramos	Bailey	Turnbull	Laurel Gehring	Richard Ross	Michael Maples	David Cole	Ronald Nale	William Lutz	City of Holland	Bell Plc	Killeen Crushed Stone	Audie& Cowboy Chum	Salado ISD YHS	CJ Evans	USMR	BL Materials	I-Plex Acres 2	Johnsonville	I-Plex Acres 3	Phoney	Fovare	Victoria Rock LLC	Scott Gilliland
Highest	373.90	370.40	313.00	398.58	493.20	281.40	359.70	439.80	346.90	333.40	453.20	302.26	374.00	375.04	287.00	399.70	390.00	403.01	466.03	580.40	357.90	299.47	454.00	423.72	514.22	598.08	372.23	296.22	422.80	423.80	389.43	381.20	253.00	513.20	580.46	539.94	537.20	305.30	343.30	62.80	288.10	318.20	301.53	696.30	430.79	430.40	440.91	300.00	408.08
Lowest	473.40	450.80	409.90	517.90	515.40	474.70	448.60	742.73	681.40	451.50	506.00	462.34	689.03	441.79	356.36	676.35	483.30	484.14	724.22	644.23	581.40	413.60	565.38	523.78	729.38	817.80	622.00	760.34	643.91	589.13	543.77	443.06	369.13	541.39	586.66	539.94	497.30	359.58	385.50	367.88	335.00	761.39	503.41	504.75	483.23	389.74	435.99
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9/6/2022 9:38																															-471.48	-338.62	-284.29	-390.23									
9/6/2022 11:00																							-341.97		-712.78																		
9/6/2022 11:25																	-455.09																										
9/6/2022 11:29										-474.55																																	
9/6/2022 13:07															-310.22																												
9/6/2022 13:47				-439.09														-715.50																										
9/7/2022 2:09																																											
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10/3/2022 11:32																																					-492.28						
10/3/2022 8:03			513.20																																							
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10/3/2022 8:52																																			-433.42		-437.81						
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Clearwater UWCD - Middle Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statutory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of the measurements it maintains along with the measurements of the TCEQ and its additional well in Ellis County.

Point #	18-04-406	18-04-407	18-04-514	01-63-902	18-32-412	18-34-405	40-53-308	18-35-104	18-34-411	18-34-414	18-34-415	18-04-411	18-38-313	58-02-203	58-04-416	58-03-902	58-04-417	58-03-709	58-02-504	58-04-706	40-57-601	58-02-903	58-03-701	58-02-202	58-03-201	17-32-201	17-24-503	58-09-203	58-01-202	40-49-601	58-03-304	58-03-405	58-01-203	18-07-504	40-53-707	58-03-305	40-59-804	40-59-803	40-57-603	58-03-506	58-01-901	40-61-407	58-03-503	58-02-103	58-04-314	58-04-313	40-61-408	58-06-708	58-06-705	58-04-704	40-53-708	58-04-707
OWCD #	E-58-1406S	E-58-1407S	E-58-1409S	E-68-844P	E-05-059P	E-05-063P	E-06-062P	E-08-005P	E-33-002P	E-33-104P	E-33-015P	E-13-050P	E-14-052P	E-14-059P	E-15-056P	E-17-002P	E-17-010P	E-18-041P	E-20-109P	E-26-120P	E-21-032P	M-59-060P	M-13-001P	M-19-002P	M-20-001P	17-CT6CD_AI	M-17-CT6CD_Fischer	M-17-CT6CD_Aumeo1	Y-17-CT6CD_Matting	M-17-TW08 Briggs	M-17-TW08 Kemper	M-17-TW08 Cove	M-19-002P	M-20-002P	M-581102	Bailey	Turnbull	Laurie Gehring	Richard Ross	Michael Maples	David Cole	Ronald Hale	William Lipf	City of Holland	Bell Plc	Killeen Crushed Stone Austin Cowboy Chure	Salado ISD 2H2	CJ Evans	SWMI	BL Materials	Pilot Acres 1	Johnsonville	Pilot Acres 2	Phinney	Fowler	Victoria Rock LLC	Scott Gilliland
Well Name	N. Springs	Finch	S. Spring Peil	Mulcahey	Mulcahey	Ken the Dehydrators	Monnier	Briscoe	Stayton Home	Christian	Sloan	S. Sloan	Eckstrom	Hall	Hall	Hall	Hall	Hall	Hall	Hall	Pedigo	Frisbie	Goodwill	Surgi	Rowan	Wicks	Borrego	A Camp W	Whicks	Copperas Cove - Middle	Smartvalley Monitor W	Smartvalley Monitor N	Kash - Middle Trinity	W Ridge Monitor W	W Ridge Monitor N	Allen	Fischer	Rommel	Bailey	Turnbull	Laurie Gehring	Richard Ross	Michael Maples	David Cole	Ronald Hale	William Lipf	City of Holland	Bell Plc	Killeen Crushed Stone Austin Cowboy Chure	Salado ISD 2H2	CJ Evans	SWMI	BL Materials	Pilot Acres 1	Johnsonville	Pilot Acres 2	Phinney	Fowler	Victoria Rock LLC	Scott Gilliland
Highest	373.90	370.40	313.00	399.58	391.40	358.70	439.80	346.90	333.40	413.20	302.26	374.06	375.04	287.00	399.72	390.00	403.01	466.23	331.00	580.40	357.90	299.47	454.00	423.72	254.90	398.07	212.38	386.80	337.27	427.76	81.30	273.23	540.76	532.22	588.98	371.23	422.80	423.80	389.43	381.20	253.00	513.20	17.20	305.30	343.30	62.80	288.10	318.20	301.53	496.30	393.00	762.39	520.41	524.55	442.95	300.00	408.08
Lowest	473.40	450.80	409.90	517.90	515.40	474.70	448.60	742.73	481.40	451.50	506.00	462.34	440.79	316.36	476.35	483.30	444.14	724.22	344.23	580.40	412.60	343.38	529.78	725.98	317.80	450.90	292.90	388.00	340.57	474.83	324.18	189.15	601.74	296.22	459.64	500.24	431.15	440.51	367.98	375.00	380.00	529.94	401.00	387.98	393.50	385.50	367.98	375.00	762.39	520.41	524.55	463.23	389.74	435.00
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Clearwater UWCD - Middle Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statutory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of the measurements remaining are the measurements of the TWDB wells and an additional well in Salado, shown in red.

Point #	18-04-406	18-04-407	18-04-514	18-03-402	18-02-415	18-01-405	40-53-705	18-04-504	18-03-104	18-04-411	18-04-414	18-04-415	18-04-413	58-38-313	58-02-203	58-04-416	58-03-302	58-04-417	58-03-709	58-02-504	58-04-706	40-57-601	58-02-903	58-03-701	58-02-202	58-09-201	17-16-201	17-24-503	58-09-203	58-01-202	40-40-601	58-03-304	58-03-405	58-20-902	58-17-504	40-53-707	58-03-305	40-59-804	40-57-603	58-03-506	58-01-901	40-61-407	58-03-503	58-02-103	58-04-314	58-04-315	40-61-408	58-06-708	58-09-705	58-04-706	40-53-708	58-04-707
OWCD #	E-58-1406S	E-58-1407S	E-58-1408S	E-65-048P	E-05-050P	E-05-060P	E-06-062P	E-07-012P	E-08-005P	E-39-906P	E-58-1104	E-58-1411	E-59-051P	E-58-1413	E-14-062P	E-14-059P	E-15-056P	E-17-062P	E-17-016P	E-18-042P	E-18-043P	E-20-109P	E-21-012P	M-59-065P	M-13-992P	M-14-992P	M-16-992P	M-20-992P	17-CTCC5_Al	M-17-CTCC5_Fischer	M-17-CTCC5_Aurora1	M-17-CTCC5_Matting	M-17-TW58 Briggs	M-17-TW58 Kemper	M-18-TW106 Cove	M-19-992P	M-20-992P	M-501102	58-07-504	40-53-707	N1-39-992P	N1-36-992P	N1-39-993P	N1-16-994P	N1-16-995P	N1-16-996P	N1-18-997P	N1-18-997P	N2-10-015S	N2-04-012P	N2-07-005S	N2-07-006S	N2-07-006S	N2-02-103	N2-08-002P	N2-08-003P	N2-04-315	N2-10-005P	40-61-408	N2-11-005S	58-06-708	N2-14-995P	N2-15-991P	58-09-705	N2-15-992P	58-04-706	N2-19-992P	40-53-708	N2-19-993P	58-04-707	N2-20-007S	N2-20-009P
Well Name	N. Springs	Finch	S. Spring Fed	Mulcomet	Mulchfour	Von Ohlenhoven	Monitor	Brooks	Stephenson	Christian	Sloan	E.St.Elsbeth	Eckstrom	Lee	Pedigo	Frisbie	Southwell	Surgi	Rowan	Hicks	Gorrgo	H Camp W	Whites	Copperas Cove	Middle	Swartzberg Monitor W	Goodwill	Kash	Middle Trinity	W Ridge Monitor W	Allen	Fischer	Ramirez	Matting	Briggs	Kemper	Cove	Hensell	Mims Monitor Well	Bailey	Turnbull	Laurel Gehring	Richard Rios	Michael Maples	David Cole	Ronald Nale	William Gulf	City of Holland	Bell Plu	Killeen Crushed Stone	Audie Cowboy Chum	Salado ISD 2NS	CJ Evans	SWMR	BL Materials	Pfab Acres 2	Johnsons Hill	Pfab Acres 2 Phinney	Fowzer	Victory Rock LLC	Scott Gilmour
Highest	373.90	370.40	313.00	399.58	493.20	281.40	359.70	439.80	346.90	333.40	413.20	382.26	374.00	375.04	287.00	399.70	390.00	403.01	466.23	331.00	580.40	357.90	299.47	454.00	423.72	254.90	398.07	212.38	386.80	337.27	427.76	81.30	329.28	373.23	540.76	512.22	588.98	171.23	422.80	423.80	389.41	381.20	253.00	513.20	17.20	305.30	343.30	62.80	288.10	318.20	301.53	696.30	430.79	430.40	440.91	300.00	408.08
Lowest	473.40	450.80	409.90	517.98	515.40	434.70	448.60	742.70	681.40	451.90	506.00	462.34	689.02	441.79	358.36	476.70	483.30	444.14	724.22	564.23	680.40	412.60	343.38	523.78	725.98	317.80	422.00	250.90	368.00	340.57	474.83	109.18	389.15	483.74	643.91	631.13	296.22	459.64	550.74	441.77	443.96	384.13	547.80	530.94	185.50	343.93	497.30	203.50	385.50	387.88	195.00	761.39	503.41	524.55	483.23	483.74	495.84
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Clearwater UWCD - Middle Trinity Monitor Wells

Staff measures well quarterly in order to closely monitor the aquifer levels as part of our statutory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of the measurements it receives during and after the measurements of the TWDB wells and an additional well in Saltillo, shown in red.

Point #	58-04-406	58-04-407	58-04-504	58-05-802	58-05-902	58-06-405	40-52-703	58-07-704	58-07-904	58-08-203	58-08-204	58-08-304	58-08-404	58-08-413	58-08-504	58-08-513	58-02-203	58-04-416	58-02-302	58-04-417	58-03-709	58-02-504	58-08-706	40-57-601	58-02-903	58-03-701	58-02-202	58-09-201	57-16-201	57-24-503	58-09-303	58-01-202	40-40-601	58-02-304	58-03-405	M-581102	58-17-504	40-53-707	58-03-305	40-59-804	40-59-903	40-57-603	58-03-506	58-05-901	40-61-407	58-03-503	58-02-103	58-04-314	58-04-315	40-61-408	58-06-708	58-08-705	58-04-706	40-53-708	58-04-707
OWNED #	E-58-1406S	E-58-1407S	E-58-1409S	E-58-844P	E-58-002P	E-58-003P	E-58-004P	E-58-005P	E-58-006P	E-58-007P	E-58-008P	E-58-009P	E-58-010P	E-58-011P	E-58-012P	E-58-013P	E-14-203P	E-13-203P	E-13-202P	E-13-402P	E-13-201P	E-20-120P	E-21-01P	M-59-06P	M-13-802P	M-14-802P	M-58-0602	17-CTCC5_Al	M-17-CTCC5_Fischer	M-17-CTCC5_Aumeo2	Y-17-CTCC5_Matting	M-17-TW08 Briggs	M-17-TW08 Kempner	M-18-TW08 Cove	M-19-802P	M-20-802P	M-581102	Tuttle	Laurie Gehring	N1-09-802P	N1-16-06P	N1-16-802P	N1-16-804P	N1-17-603	N1-18-506	N1-18-901	N2-07-603	N2-07-0630	N2-07-9501	N2-08-01P	N2-08-02P	N2-08-314	N2-08-315	N2-11-0056	N2-14-802P	N2-15-802P	N2-19-06P	N2-19-802P	N2-29-007S
Well Name	N. Springs	Finch	S. Spring Park	Mulcomm	Rutlidge	Wm Sharpbeam	Brooks	Stapleton	Christian	Sloan	Eckstrom	Lee	Pedigo	Fralicks	Goodwin	Surgi	Rowan	Hicks	Georgia	H Camp W	Cooper	Middle	Cypress Cove	Smartvalley	Smartvalley	Koch	Middle Trinity	W Ridge Mumber W	Allen	Fischer	Rowood	Matting's	Briggs	Kempner	Cove	Wm Newell	Hines	Mumber Wolf	Barry	Tuttle	Laurie Gehring	Richard Rios	Michael Maples	David Cole	Ronald Nale	William Lloyd	City of Holland	Bell Plc	Killeen Crushed Stone	Audilla Cowboy Chuni	Salado ISD 2H2	CJ Evans	SWMR	BS Materials	I-Plex Acres 2	Salvesen-Hill	Ivy Acres 2 Phenny	Fovare	Victory Rock LLC	Scott Gilmer
Highest	373.90	370.40	313.00	399.58	493.20	281.40	359.70	439.80	346.90	333.40	413.20	302.26	374.00	375.04	287.00	399.70	396.00	403.01	466.03	131.00	580.40	413.60	357.90	295.47	454.00	423.72	254.90	398.07	212.38	386.80	337.27	427.76	81.30	373.23	540.76	532.22	588.98	171.23	422.80	423.80	389.43	381.20	253.00	513.20	537.20	305.30	343.30	62.80	288.10	318.20	301.10	696.30	430.79	430.40	440.95	300.00	408.08
Lowest	473.40	450.80	409.90	517.90	515.40	434.70	448.60	742.15	681.40	451.50	506.00	462.34	489.02	441.79	356.36	474.70	499.77	490.00	503.01	466.03	594.14	729.22	483.30	343.38	523.78	725.38	357.80	422.00	250.30	566.80	560.57	419.83	328.18	389.15	296.22	459.64	450.24	431.13	290.22	459.64	450.24	443.77	443.06	304.13	580.40	519.94	331.30	497.30	203.50	385.50	367.99	335.00	761.39	503.41	524.55	483.23	445.70	489.74
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5/12/2024 0:00																																																						
5/13/2024 0:00																																																						
Since Last																																																						
Measure																																																						

Minimum Number of Measurements: 3

Average Drawdown: -5.92 ft/yr

Drawdown of Water Level

Increase of Water Level

	R-line Measurement
	Sonic Measurement
	TWDB Measurement
	Air-line Measurement
	No Reading Available

The desired future conditions established by Clearwater Underground Water Conservation District for the Middle Trinity is no more than 286 feet of drawdown after 50 years.
The average drawdown goal per year is -5.72 feet.

xxx

Clearwater UWCD - Lower Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #		58-03-410	58-03-411	40-57-602	40-62-501	40-54-701	40-61-509	40-53-405		40-35-404	58-02-303	58-10-303	58-17-902	58-29-603	58-03-404	58-02-505	58-06-102	40-53-406	58-05-202	40-63-501	40-62-401	58-06-301	58-05-502	40-53-507	58-06-201	58-04-203	58-06-202	40-54-201	58-03-406	58-03-407	58-03-408	58-03-409	58-02-601
CUWCD #	E-20-120P	N2-13-056P	E-22-007P	M-09-002P	M-13-005G	M-13-006G	M-13-007G	M-13-039G	A-17-CTGCD_Carlile	M-1B-TWDB-Gatesville	RRR Hosston	M-5810303	M-5829603	N1-18-006P	N1-19-901P	N2-02-505	N2-01-001G	N2-02-022G	N2-02-024G	N2-03-034G	N2-03-001G	N2-04-010P	N2-10-001P	N2-13-001P	N2-13-002P	N2-14-004P	N2-14-005P	N2-15-020P	N2-20-002P	N2-20-003P	N2-20-004P	N2-21-004P	N2-21-005P
Well Name		Ilman Valley Ranchettes Well	Ilman Valley Ranchettes Well #	Copperas Cove - Lower	Acres-City of Temple #1	rley-City of Temple	Ridge-City of Temple	Tanglewood Moni	Carlile		City of Florence	Westwood Boys Ranch	City of Taylor #3	Justin Scott	Gary Kelley	Bell Co. WCID #2	Moffat WSC #1	Armstrong WSC #1	East Bell WSC #1	en. TX Vet. Hospit	East Bell WSC #2	Armstrong WSC #2	Moffat WSC #2	Trinity Oasis LLC (Jack Hillard Dozer and Materials)	CTWSC Doc Curb	CTWSC System Split Well	City of Troy #2	Hines Texas, LLC #1	Hines Texas, LLC #2	Hines Texas, LLC #3	Hines Texas, LLC #4	Nathan & Danielle McNeal
Highest	-580.40	-368.41	-373.16	-290.13	-136.13	-259.00	-31.00	-268.60	-370.70	-477.64	-293.99	-289.96	-220.40	-37.90	-353.59	-366.61	-36.00	-329.70	-245.80	-217.45	-404.70	-268.00	-305.80	-355.00	-173.40	-417.08	-179.11	-464.05	-348.35	-389.81	-377.12	-390.19	-415.20
Lowest	-580.40	-375.38	-378.67	-312.50	-392.25	-497.02	-294.40	-499.07	-375.80	-555.22	-332.31	-588.72	-384.20	-211.57	-401.92	-441.94	-318.80	-583.70	-287.50	-307.54	-443.27	-629.21	-722.96	-596.70	-213.51	-490.18	-425.57	-487.52	-387.51	-435.07	-403.13	-398.27	-443.71
3/1/1952 0:00							-31.00																									
9/30/1955 0:00																	-50															
12/29/1961 0:00																	-36															
1/8/1965 12:00														-37.9																		
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8/30/1966 12:00												-293.45		-47.03																		
9/1/1966 0:00					-136.13		-134.13																									
9/28/1966 12:00												-309.05																				
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11/23/1966 12:00												-290.14																				
5/24/1967 12:00												-295.75		-42.3																		
5/4/1967 12:00												-303.46																				
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11/9/1967 12:00												-302.15																				
12/8/1967 12:00												-304.09																				
2/16/1968 12:00												-295.29																				
3/13/1968 12:00												-289.96																				
3/19/1968 12:00														-45.95																		
5/7/1968 12:00												-292.36																				
6/1/1968 0:00						-259.00																										
3/5/1969 12:00												-293.17																				
5/18/1969 12:00														-49.49																		
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3/23/1971 12:00												-308.39																				
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11/10/1994 12:00														-187.6																		
7/11/1995 12:00												-472.57																				
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Clearwater UWCD - Lower Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

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Well Name		Ilman Valley Ranchettes Well	Illman Valley Ranchettes Well #	Copperas Cove - Lower	Acres-City of Temple #1	rley-City of Temple	Ridge-City of Temple	Tanglewood Moni	Carlile			City of Florence	Westwood Boys Ranch	City of Taylor #3	Justin Scott	Gary Kelley	Bell Co. WCID #2	Moffat WSC #1	Armstrong WSC #1	East Bell WSC #1	en. TX Vet. Hospit	East Bell WSC #2	Armstrong WSC #2	Moffat WSC #2	Trinity Oasis LLC (Jack Hillard Dozer and Materials)	CTWSC Doc Curb	CTWSC System Split Well	City of Troy #2	Hines Texas, LLC #1	Hines Texas, LLC #2	Hines Texas, LLC #3	Hines Texas, LLC #4	Nathan & Danielle McNeal
Highest	-580.40	-368.41	-373.16	-290.13	-136.13	-259.00	-31.00	-268.60	-370.70	-477.64	-293.99	-289.96	-220.40	-37.90	-353.59	-366.61	-36.00	-329.70	-245.80	-217.45	-404.70	-268.00	-305.80	-355.00	-173.40	-417.08	-179.11	-464.05	-348.35	-389.81	-377.12	-390.19	-415.20
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4/5/2003 12:00														-171.68																			
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12/5/2010 12:00														-175.8																			
1/1/2011 0:00				-290.13															-360.5														
1/1/2011 12:00										-481.64																							
1/5/2011 12:00														-174.31																			
2/5/2011 12:00														-172.18																			
2/24/2011 12:00													-329.85																				
3/5/2011 12:00														-171.15																			
4/5/2011 12:00														-171.46																			
5/5/2011 12:00														-169.49																			
6/5/2011 12:00														-168.39																			
7/1/2011 0:00				-290.25															-346.5				-268										
7/1/2011 12:00										-492.01																							
7/5/2011 12:00														-167.41																			
8/5/2011 12:00														-168.54																			
9/1/2011 0:00				-291.93															-457.1														
9/1/2011 14:00										-504.69																							
9/5/2011 12:00														-176.8																			
10/5/2011 12:00														-173.76																			
11/5/2011 0:00				-292.44		-456.40													-454.8														
11/1/2011 12:00										-495.66																							
11/5/2011 12:00														-193.58																			
12/5/2011 12:00														-192.94																			
1/1/2012 0:00				-293.85															-453.2				-378										
1/5/2012 12:00														-193.89																			
1/5/2012 13:00										-492.23																							
2/5/2012 12:00														-193.56																			
3/10/2012 12:00														-193.16																			
4/5/2012 12:00														-190.91																			
5/1/2012 0:00				-293.47															-456.5				-378										

Clearwater UWCD - Lower Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Sallado, shown in red.

State # / CUWCD # / Well Name	E-20-120P	58-03-410 E-22-056P Ilman Valley Ranchettes Well	58-03-411 E-22-007P Ilman Valley Ranchettes Well #	40-57-602 M-09-002P Copperas Cove - Lower	40-62-501 M-13-005Q Acres-City of Temple #1	40-54-701 M-13-006G rley-City of Temple	40-61-509 M-13-007G Ridge-City of Temple	40-53-405 M-13-010G Tanglewood Moni	A-17-CTGCD_Carlile Carlile	40-35-404 M-18-TWDB-Gatesville	58-02-303 M-19-001P RRR Hosston	58-10-303 M-5810303 City of Florence	58-17-902 M-5817902 Westwood Boys Ranch	58-29-603 M-5829603 City of Taylor #3	58-03-404 N1-18-006P Justin Scott	58-02-505 N1-19-001P Gary Kelley	58-06-102 N2-02-001G Bell Co. WCID #2	40-53-406 N2-02-022G Moffat WSC #1	58-05-202 N2-02-024G Armstrong WSC #1	40-63-501 N2-02-034G East Bell WSC #1	40-62-401 N2-03-001G en. TX Vet. Hospit	58-06-301 N2-04-010P East Bell WSC #2	58-05-502 N2-10-001P Armstrong WSC #2	40-53-507 N2-13-001P Moffat WSC #2	58-06-201 N2-13-002P Trinity Oasis LLC (Jack Hillard Dozer and Materials)	58-04-203 N2-14-004P CTWSC Doc Curb	58-06-202 N2-14-005P CTWSC System Split Well	40-54-201 N2-15-020P City of Troy #2	58-03-406 N2-20-002P Hines Texas, LLC #1	58-03-407 N2-20-003P Hines Texas, LLC #2	58-03-408 N2-20-004P Hines Texas, LLC #3	58-03-409 N2-21-004P Hines Texas, LLC #4	58-02-601 N2-21-005P Nathan & Danielle McNeal
Highest	-580.40	-368.41	-373.16	-290.13	-136.13	-259.00	-31.00	-268.60	-370.70	-477.64	-293.99	-289.96	-220.40	-37.90	-353.59	-366.61	-36.00	-329.70	-245.80	-217.45	-404.70	-268.00	-305.80	-355.00	-173.40	-417.08	-179.11	-464.05	-348.35	-389.81	-377.12	-390.19	-415.20
Lowest	-580.40	-375.38	-378.67	-312.50	-392.25	-497.02	-294.40	-499.07	-375.80	-555.22	-332.31	-588.72	-384.20	-211.57	-401.92	-441.94	-318.80	-583.70	-287.50	-307.54	-443.27	-629.21	-722.96	-596.70	-213.51	-490.18	-425.57	-487.52	-387.51	-435.07	-403.13	-398.27	-443.71
5/1/2012 12:00										-494.64																						
5/5/2012 12:00														-189.71																		
6/5/2012 12:00														-187.41																		
7/5/2012 12:00														-187.35																		
8/5/2012 12:00														-185.91																		
9/5/2012 12:00														-188.65																		
10/5/2012 12:00														-188.58																		
10/9/2012 12:00												-588.72																				
10/11/2012 12:00													-357.71																			
11/5/2012 12:00														-192.84																		
12/5/2012 12:00														-192.61																		
1/1/2013 0:00				-294.22														-468.8				-280										
1/1/2013 12:00										-504.42																						
1/5/2013 12:00														-192.09																		
2/5/2013 12:00														-191.95																		
3/5/2013 12:00														-191.36																		
4/5/2013 12:00														-193.83																		
5/1/2013 0:00				-294.96														-466.3				-285										
5/1/2013 12:00										-504.54																						
5/5/2013 12:00														-193.42																		
6/5/2013 12:00														-191.6																		
7/5/2013 12:00														-195.14																		
8/1/2013 0:00				-295.11														-473.1				-282	-329.83									
8/1/2013 12:00										-507.21																						
8/5/2013 12:00														-195.48																		
9/5/2013 12:00														-195.75																		
10/5/2013 12:00														-195.53																		
10/25/2013 0:00																								-328								
11/1/2013 0:00				-295.85														-466.6				-290			-173.4							
11/1/2013 12:00										-504.65																						
11/5/2013 12:00														-195.75																		
12/5/2013 0:00																									-177.7							
12/5/2013 12:00														-195.68																		
12/11/2013 12:00													-348.58																			
1/5/2014 12:00														-195.26																		
2/1/2014 0:00				-295.70														-466.2		-230		-290		-475.7								
2/1/2014 12:00										-500.52																						
2/5/2014 12:00														-195.27																		
3/5/2014 12:00														-194.73																		
4/5/2014 12:00														-194.1																		
5/1/2014 0:00				-296.14														-469.5		-230		-285		-479.1	-174							
5/1/2014 12:00										-505.63																						
5/5/2014 12:00														-193.76																		
6/5/2014 12:00														-193.36																		
7/5/2014 12:00														-193.35																		
8/1/2014 0:00				-296.00	-348.68	-456.00	-239.20											-471.7		-230		-285		-481.1	-176							
8/1/2014 12:00										-501.99																						
8/5/2014 12:00														-195.05																		
9/5/2014 12:00														-192.79																		
9/23/2014 0:00						-465.05																										
9/26/2014 0:00							-241.10																									
10/5/2014 12:00														-192.65																		
11/1/2014 0:00				-296.91														-470.4		-235		-290		-476.9	-177.8							
11/1/2014 12:00										-509.54																						
11/5/2014 12:00														-193.05																		
11/17/2014 0:00																			-247.9				-329.6									
12/5/2014 12:00														-193.01																		
12/16/2014 0:00																			-246.3				-327.4									
1/1/2015 0:00				-296.84	-340.10	-456.00	-239.70													-235		-290			-175.1							
1/1/2015 12:00										-504.68																						
1/5/2015 12:00														-193.14																		
1/6/2015 0:00																		-467.79						-477.3								
1/9/2015 0:00																			-246.4				-327.7									
2/1/2015 0:00						-456.20																										
2/5/2015 12:00														-193.15																		
2/11/2015 0:00																			-246.7				-327.7									
3/5/2015 0:00																		-468.79						-478.4								
3/5/2015 12:00														-193.23																		
3/11/2015 0:00																			-247				-328.3									
3/26/2015 0:00						-465.05	-241.60																									
4/5/2015 12:00														-192.35																		
4/9/2015 0:00																		-468.7	-247.9				-329.2	-478								
5/1/2015 0:00																		-469						-478.6								
5/5/2015 12:00														-193.21																		
5/12/2015 0:00																			-245.8				-330.3									
5/20/2015 0:00																										-454						
6/1/2015 0:00				-296.69	-339.50													-467.8		-230		-290		-477.4	-175.1							
6/1/2015 12:00										-500.88																						
6/4/2015 0:00																			-248.5				-331									
6/5/2015 0:00						-456.20																										
6/5/2015 12:00														-191.36																		
7/1/2015 0:00																		-468.5		-230		-290		-478								
7/5/2015 12:00														-190.02																		
7/8/2015 0:00																			-248.7				-330.6									
8/3/2015 0:00																		-485.2		-265		-290		-484.7								
8/5/2015 12:00														-188.94																		
9/2/2015 0:00																		-481.1						-485.9								
9/5/2015 0:00																				-275		-290										
9/5/2015 12:00														-191.85																		
9/7/2015 0:00																			-247.3				-330.6									
9/14/2015 0:00				-297.06	-347.84	-469.26																			-180.8								
9/14/2015 12:00										-515.00																						
10/1/2015 0:00																		-477.7						-485.9								
10/5/2015 12:00														-190.42																		
10/28/2015 12:20													-337.26																			
11/2/2015 0:00																		-478						-483.9								
11/5/2015 0:00																			-248.8	-270		-290	-330.8									
11/5/2015 12:00														-189.04																		
11/30/2015 0:00				-297.43	-349.07	-468.20																			-177.7								
11/30/2015 12:00										-509.45																						
12/2/2015 0:00																		-471.7						-481.3								
12/5/2015 12:00														-189.45																		
1/1/2016 12:00										-507.80																						
1/5/2016 0:00				-297.43	-349.98	-467.91												-470.8	-249	-260		-295	-331.1	-480.9	-175.9							
1/5/2016 12:00														-190.62																		
2/5/2016 12:00														-190.26																		
3/1/2016 0:00																		-470.9						-481.1								
3/5/2016 16:00														-189.56																		
4/4/2016 0:00																		-472.2						-482.4								
4/5/2016 0:00																			-250.3	-260		-295	-332.1									
4/5/2016 18:00														-188.77																		
4/9/2016 0:00						-466.87																										
4/19/2016 0:00				-297.21	-349.38																				-176.5							
4/19/2016 12:00										-507.52																						
5/2/2016 0:00																		-472.4						-484.5								
5/5/2016 18:00														-188.38																		
5/11/2016 0:00								-445.40																								
6/1/2016 12:00										-505.35																						
6/5/2016 19:00														-188.15																		
7/1/2016 0:00																		-485.5						-486.4								
7/5/2016 19:00														-187.14																		
8/1/2016 0:00																		-484						-490.2								
8/2/2016 0:00																				-272		-290										
8/5/2016 20:00														-186.77																		
8/30/2016 0:00				-297.10	-351.60			-451.00										-476.8	-252.8	-265		-292	-334.1	-488.5	-176.7							
8/30/2016 12:00										-515.93																						
8/31/2016 0:00									-371.39																							
9/5/2016 12:00														-198.14																		
9/13/2016 0:00							-239.50																									
9/30/2016 0:00																		-485.1						-489.4								
10/3/2016 0:00				-297.14																-268		-290										
10/5/2016 0:00					-352.23	-471.54													-251.7				-334.5									
10/5/2016 18:00														-195.79																		
10/6/2016 0:00									-371.17																							
10/6/2016 12:00										-515.12																						
10/13/2016 10:00													-341.85																			
10/13/2016 12:00												-523.9																				
10/17/2016 0:00																	-262.5															
10/19/2016 0:00				-297.65	-353.20																											
11/1/2016 0:00									-371.69									-477.3		-268		-270		-489.2								
11/1/2016 12:00										-515.11																						
11/2/2016 0:00								-450.00											-254.1				-335.5									
11/5/2016 20:00														-194.06																		
11/21/2016 0:00								-455.90																								
12/1/2016 0:00				-297.58	-352.85	-472.58			-371.46									-476.3	-252.9	-268		-290	-305.8	-488.4								
12/1/2016 12:00										-514.00																						
12/5/2016 14:00														-193.97																		
12/6/2016 0:00				-298.17	-352.84	-472.68	-250.00																									
1/3/2017 0:00																		-475.6		-262		-290		-486.5								
1/5/2017 0:00				-298.30	-353.20	-472.30	-249.90		-371.12										-254.6				-356.3									
1/5/2017 6:00														-194.44																		
1/5/2017 12:00										-513.32																						
1/6/2017 0:00																									-183.8							
2/1/2017 0:00																		-476.3	-254.6	-262		-290	-336.2	-487.1								

Clearwater UWCD - Lower Trinity Monitor Wells

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State #		58-03-410	58-03-411	40-57-602	40-62-501	40-54-701	40-61-509	40-53-405		40-35-404	58-02-303	58-10-303	58-17-902	58-29-603	58-03-404	58-02-505	58-06-102	40-53-406	58-05-202	40-63-501	40-62-401	58-06-301	58-05-502	40-53-507	58-06-201	58-04-203	58-06-202	40-54-201	58-03-406	58-03-407	58-03-408	58-03-409	58-02-601
CUWCD #	E-20-120P	E-22-056P	E-22-007P	M-09-002P	M-13-005G	M-13-006G	M-13-007G	M-13-039G	A-17-CTGCD_Carlile	M-1B-TWDB-Gatesville	RRR Hosston	City of Florence	Westwood Boys Ranch	City of Taylor #3	Justin Scott	Gary Kelley	Bell Co. WCID #2	Moffat WSC #1	Armstrong WSC #1	East Bell WSC #1	en. TX Vet. Hospit	East Bell WSC #2	Armstrong WSC #2	Moffat WSC #2	Trinity Oasis LLC (Jack Hillard Dozer and Materials)	CTWSC Doc Curb	CTWSC System Split Well	City of Troy #2	Hines Texas, LLC #1	Hines Texas, LLC #2	Hines Texas, LLC #3	Hines Texas, LLC #4	Nathan & Danielle McNeal
Well Name		Ilman Valley Ranchettes Well	Ilman Valley Ranchettes Well #	Copperas Cove - Lower	Acres-City of Temple #1	rley-City of Temple	Ridge-City of Temple	Tanglewood Moni	Carlile																								
Highest	-580.40	-368.41	-373.16	-290.13	-136.13	-259.00	-31.00	-268.60	-370.70	-477.64	-293.99	-289.96	-220.40	-37.90	-353.59	-366.61	-36.00	-329.70	-245.80	-217.45	-404.70	-268.00	-305.80	-355.00	-173.40	-417.08	-179.11	-464.05	-348.35	-389.81	-377.12	-390.19	-415.20
Lowest	-580.40	-375.38	-378.67	-312.50	-392.25	-497.02	-294.40	-499.07	-375.80	-555.22	-332.31	-588.72	-384.20	-211.57	-401.92	-441.94	-318.80	-583.70	-287.50	-307.54	-443.27	-629.21	-722.96	-596.70	-213.51	-490.18	-425.57	-487.52	-387.51	-435.07	-403.13	-398.27	-443.71
2/2/2017 0:00																	-225.5															
2/1/2017 15:00														-194.45																		
2/6/2017 0:00				-297.72	-353.35	-472.18	-249.99		-371.03																							
2/6/2017 12:00										-512.78																						
3/1/2017 0:00																					-251		-292									
3/5/2017 0:00				-297.65	-353.20				-371.13																							
3/5/2017 12:00										-512.95																						
3/5/2017 15:00														-194.21																		
3/6/2017 0:00						-471.30	-249.90																									
3/7/2017 0:00																			-254					-336.5								
3/30/2017 0:00				-297.60	-353.20	-472.20	-249.50																									
3/31/2017 0:00									-370.70																							
3/31/2017 12:00										-512.64																						
4/3/2017 0:00								-453.90										-476.8		-253		-294		-487.1								
4/4/2017 0:00																			-253.7					-335								
4/5/2017 0:00														-194.43												-184.2						
4/24/2017 0:00					-353.31																											
5/1/2017 0:00																		-477.3		-267		-294		-487.8								
5/4/2017 0:00																			-252.4					-335								
5/5/2017 17:00														-194.3																		
5/8/2017 0:00				-292.70		-471.93	-249.84		-371.04																							
5/9/2017 12:00										-514.67																						
6/1/2017 0:00																				-269		-295										
6/2/2017 0:00																			-254					-335.7								
6/4/2017 0:00				-297.28	-353.90				-371.41																							
6/4/2017 12:00										-515.82																						
6/5/2017 0:00						-473.45	-250.00											-480.7						-489.4								
6/5/2017 16:00														-193.56																		
6/30/2017 0:00																	-186.2															
7/5/2017 0:00																		-478		-268		-295		-488.3								
7/5/2017 17:00														-193.87																		
7/6/2017 0:00					-354.40	-473.83	-250.63	-451.20	-371.28																	-185.1							
7/6/2017 12:00										-516.31																						
7/7/2017 0:00				-297.35															-254.7					-336								
8/1/2017 0:00																		-478.6		-270		-295		-489.7								
8/3/2017 0:00																			-255					-335.5								
8/4/2017 0:00																										-453.9						
8/5/2017 18:00														-194.04																		
8/9/2017 0:00				-297.20	-355.22	-474.52	-251.31		-371.28																							
8/9/2017 12:00										-525.80																						
8/25/2017 0:00																					-404.7											
9/1/2017 0:00																		-482.2		-285		-294		-493.6								
9/4/2017 0:00																			-253.2					-336.7								
9/5/2017 0:00				-296.91		-474.84	-251.74		-371.50																							
9/5/2017 12:00										-525.80																						
9/5/2017 17:00														-194.36																		
10/2/2017 0:00				-297.80					-371.30									-484.4		-283		-295		-487.9								
10/2/2017 12:00										-526.60																						
10/3/2017 0:00																	-193.17		-256.6				-337.3		-183.6							
10/4/2017 0:00								-451.60													-405.3											
10/5/2017 18:00														-194.78																		
10/19/2017 13:50													-352																			
11/1/2017 0:00																		-477.9						-488.4								
11/2/2017 0:00																			-257.2					-337.9		-455	-183.4					
11/3/2017 0:00																				-283		-297										
11/5/2017 19:00														-196.34																		
11/6/2017 0:00				-297.87	-356.97	-475.80																				-185.3						
11/6/2017 12:00										-524.16																						
11/6/2017 14:19									-371.40																							
12/1/2017 0:00																		-484		-220		-297		-507								
12/4/2017 0:00				-297.94	-357.15	-476.26																				-186.3	-455.4	-183.3					
12/4/2017 14:16									-371.20																							
12/5/2017 0:00														-196.45					-256.77					-338.3								
12/27/2017 0:00				-297.80																						-186.95						
12/27/2017 12:00										-522.91																						
12/27/2017 14:16									-371.30																							
12/29/2017 0:00					-357.33	-476.82	-253.86	-456.20																			-455.85	-183.75					
1/2/2018 0:00																		-483.9		-220		-297		-492								
1/4/2018 0:00																			-257.8					-357.7								
1/5/2018 19:00														-196.97																		
1/8/2018 0:00																					-406.7											
1/31/2018 12:00																				-217.45		-294.41										
2/1/2018 13:50														-196.97					-257.8				-338.4									
2/4/2018 12:00									-371.40																							
2/5/2018 0:00									-371.30															-481.1								
2/5/2018 9:57																																
2/5/2018 10:00																																
2/5/2018 10:02																																
2/5/2018 10:12																																
2/5/2018 12:00										-522.72																						
2/5/2018 19:00														-196.86																		
2/28/2018 12:00																				-217.45		-296.72										
3/1/2018 0:00																								-495.09								
3/1/2018 14:00																		-484.5														
3/2/2018 12:20																			-257.6													
3/2/2018 12:30																								-338.2								
3/4/2018 12:00									-371.70																							
3/5/2018 0:00									-371.00																							
3/5/2018 4:00														-196.52																		
3/5/2018 12:00				-297.72	-357.77	-477.14	-253.65																									
3/6/2018 15:48																										-186.75						
3/19/2018 9:45																	-183.62															
3/29/2018 12:00				-297.72																												
3/30/2018 12:00					-357.98	-477.16	-254.39																									
3/30/2018 14:00																										-187.3						
3/30/2018 15:40								-468.50																								
4/3/2018 0:00																								-513.5								
4/3/2018 8:00																		-494.8														
4/4/2018 8:58																			-256.6													
4/4/2018 13:22																	-190.55															
4/4/2018 13:55																												-180.05				
4/4/2018 14:40																										-456.75						
4/5/2018 21:00														-197.57																		
4/24/2018 8:17																								-334.8								
4/24/2018 9:05																			-254.8													
4/24/2018 11:01																				-219.76												
4/24/2018 11:41																						-295.95										
4/24/2018 13:25																					-408.8											
4/24/2018 13:52																	-276.02															
4/26/2018 10:05																										-456.45						
4/27/2018 8:57																												-180.29				
4/30/2018 12:00																				-219.76		-299.03										
5/1/2018 0:00																								-505.09								
5/1/2018 12:40																		-487.3														
5/5/2018 21:00														-204.21																		
5/7/2018 0:00									-371.90																							
5/7/2018 12:00				-297.43	-359.03	-477.82	-254.96																									
5/31/2018 9:03																				-217.45												
5/31/2018 12:00																				-219.76		-303.65										
6/1/2018 9:50																										-457.11						
6/1/2018 9:55																			-261.6													
6/1/2018 10:05																								-339.9								
6/1/2018 11:20																					-410.6											
6/1/2018 11:44																						-302.88										
6/3/2018 19:00				-297.57																												
6/3/2018 20:00					-360.85																											
6/4/2018 0:00									-372.20															-503.7								
6/4/2018 1:00							-254.66																									
6/4/2018 2:00						-479.43																										
6/4/2018 8:10																		-495.5														
6/4/2018 8:50																												-184.84				
6/5/2018 12:00														-204.01																		
6/21/2018 12:00										-528.55																						
6/29/2018 12:00																				-245.17		-296.72										
7/1/2018 0:00																								-508.4								
7/3/2018 9:17																			-261.3													
7/3/2018 9:18																								-342.2								
7/5/2018 0:00							-255.80		-371.80																							
7/5/2018 11:04																											-458.91					
7/5/2018 12:00				-297.28	-361.65									-204.41																		
7/5/2018 13:05																										-187.89						
7/5/2018 13:30																					-412.5											
7/5/2018 14:00								-468.61																								
7/31/2018 12:00																				-284.44		-296.72										
8/1/2018 0:00																								-515.4								
8/5/2018 12:00														-204.77																		
8/6/2018 0:00									-371.90																							
8/6/2018 12:00				-297.43																												
8/6/2018 14:52										-543.86																		-179.11				
8/6/2018 18:00																																
8/7/2018 9:15																			-262.6													
8/7/2018 9:16																								-343								
8/13/2018 12:00				-297.80	-363.13	-481.89	-257.19																									
8/31/2018 12:00																				-286.75		-299.03										

Clearwater UWCD - Lower Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Sallado, shown in red.

State #		58-03-410	58-03-411	40-57-602	40-62-501	40-54-701	40-61-509	40-53-405		40-35-404	58-02-303	58-10-303	58-17-902	58-29-603	58-03-404	58-02-505	58-06-102	40-53-406	58-05-202	40-63-501	40-62-401	58-06-301	58-05-502	40-53-507	58-06-201	58-04-203	58-06-202	40-54-201	58-03-406	58-03-407	58-03-408	58-03-409	58-02-601
CUWCD #	E-20-120P	E-22-056P	E-22-007P	M-09-002P	M-13-005G	M-13-006G	M-13-007G	M-13-039G	A-17-CTGCD_Carlile	M-18-TWDB-Gatesville	RRR Hosston	City of Florence	Westwood Boys Ranch	City of Taylor #3	Justin Scott	Gary Kelley	Bell Co. WCID #2	Moffat WSC #1	Armstrong WSC #1	East Bell WSC #1	en. TX Vet. Hospit	East Bell WSC #2	Armstrong WSC #2	Moffat WSC #2	Trinity Oasis LLC (Jack Hilliard Dozer and Materials)	CTWSC Doc Curb	CTWSC System Spilt Well	City of Troy #2	Hines Texas, LLC #1	Hines Texas, LLC #2	Hines Texas, LLC #3	Hines Texas, LLC #4	Nathan & Danielle McNeal
Well Name		Ilman Valley Ranchettes Well	Ilman Valley Ranchettes Well #	Copperas Cove - Lower	Acres-City of Temple #1	rley-City of Temple	Ridge-City of Temple	Tanglewood Moni	Carlile																									
Highest	-580.40	-368.41	-373.16	-290.13	-136.13	-259.00	-31.00	-268.60	-370.70	-477.64	-293.99	-289.96	-220.40	-37.90	-353.59	-366.61	-36.00	-329.70	-245.80	-217.45	-404.70	-268.00	-305.80	-355.00	-173.40	-417.08	-179.11	-464.05	-348.35	-389.81	-377.12	-390.19	-415.20
Lowest	-580.40	-375.38	-378.67	-312.50	-392.25	-497.02	-294.40	-499.07	-375.80	-555.22	-332.31	-588.72	-384.20	-211.57	-401.92	-441.94	-318.80	-583.70	-287.50	-307.54	-443.27	-629.21	-722.96	-596.70	-213.51	-490.18	-425.57	-487.52	-387.51	-435.07	-403.13	-398.27	-443.71
9/3/2018 12:00				-297.72	-363.60	-483.00	-257.91			-539.51																							
9/3/2018 14:52																											-185.51						
9/4/2018 12:00									-375.60																								
9/4/2018 12:08																		-493.5															
9/5/2018 12:00														-205.05																			
9/10/2018 14:00																											-185.45						
9/11/2018 9:11																			-257.5														
9/11/2018 9:14																							-353.3										
9/27/2018 9:42																										-461.46							
9/27/2018 12:00						-482.72	-258.25																										
9/27/2018 13:55																									-191.07								
9/27/2018 14:25																					-414.3												
9/27/2018 15:21								-469.29																									
9/28/2018 12:00				-297.72					-371.60	-531.08																							
10/2/2018 10:18																											-185.51						
10/4/2018 9:08																			-259.4														
10/4/2018 9:09																							-343.3										
10/5/2018 12:00														-205.31																			
10/29/2018 11:23																											-184.59						
10/29/2018 11:40																									-191.41								
10/29/2018 12:45													-338.4																				
10/29/2018 13:41																										-452.85							
10/31/2018 12:00																				-286.75		-299.03											
11/2/2018 15:55																			-252.2				-343.1										
11/5/2018 12:00				-298.09			-258.82		-371.40	-527.84																							
11/5/2018 15:00						-482.26																											
12/3/2018 12:00					-362.84		-259.20		-371.90	-527.17										-284.44		-296.72											
12/3/2018 15:00						-482.10																											
12/4/2018 12:00				-297.94																													
12/5/2018 15:10																			-263.5				-349.5										
12/26/2018 12:00				-298.46						-526.69																							
12/27/2018 12:00							-258.79																										
12/27/2018 13:15																									-191.19								
12/27/2018 15:00						-482.08		-467.63																									
12/31/2018 12:00									-371.20											-289.06		-292.1											
12/31/2018 21:29																											-180.47						
1/2/2019 0:00																								-498.5									
1/2/2019 8:00																		-488.3															
1/7/2019 15:53																										-461.23							
1/8/2019 14:05																			-261.1				-343										
2/1/2019 0:00																								-502.7									
2/1/2019 12:26																										-463.23							
2/1/2019 12:29																											-187.31						
2/4/2019 12:00				-298.31	-363.52		-258.76		-371.40	-525.85																							
2/4/2019 14:30																			-261				-347										
2/10/2019 12:00														-211.57																			
2/28/2019 0:00																								-488.4									
3/1/2019 12:00																				-284.44		-296.72											
3/1/2019 12:29																											-189.27						
3/4/2019 12:00				-298.46	-363.29	-481.37	-259.21		-371.70	-524.53																							
3/4/2019 13:26																									-191.7								
3/5/2019 12:00														-211.22																			
3/6/2019 14:00																			-262				-344.2										
3/26/2019 12:00				-298.09						-529.59	-293.99																						
5/27/2019 2:00						-481.48																											
3/28/2019 11:38																										-463.4	-188.97						
3/28/2019 12:00					-363.47		-259.02																										
3/28/2019 14:32																									-191.97								
3/28/2019 16:25								-467.01																									
4/1/2019 12:00									-371.40											-289.06		-292.1											
4/2/2019 0:00																								-497.3									
4/2/2019 10:58																		-488.3															
4/4/2019 12:49																										-463.54							
4/4/2019 16:11																											-186.46						
4/5/2019 12:00														-210.24																			
5/1/2019 10:39																									-191.89								
5/1/2019 11:49																										-463.55							
5/1/2019 12:00																				-284.44		-296.72											
5/1/2019 12:11																											-187.87						
5/2/2019 0:00																								-540.3									
5/2/2019 10:23																							-343										
5/2/2019 10:24																			-262.9														
5/2/2019 10:57																		-522.6															
5/5/2019 12:00														-210.35																			
5/6/2019 4:00										-523.79																							
5/6/2019 7:00				-298.90																													
5/6/2019 8:00					-362.76																												
5/6/2019 12:00						-480.89	-258.81		-370.70																								
6/1/2019 11:55																										-471.05							
6/1/2019 12:24																											-190.48						
6/3/2019 0:00																								-504									
6/3/2019 10:56																		-489.3															
6/3/2019 12:00				-298.24	-363.09	-481.25	-258.99		-370.90	-524.25																							
6/5/2019 11:15																									-192.32								
6/5/2019 12:00														-210.01																			
6/7/2019 12:14																			-262.6														
6/7/2019 12:15																							-373.1										
6/26/2019 12:00				-298.31						-524.88																							
6/27/2019 9:38								-468.62																									
6/27/2019 10:28																									-192.22								
6/27/2019 12:00					-363.04	-481.34	-259.46																										
7/1/2019 10:45																										-464.25							
7/1/2019 12:00									-371.00																								
7/1/2019 12:15																											-190.95						
7/1/2019 13:56																		-492.1															
7/1/2019 13:57																								-504.6									
7/5/2019 12:00														-209.64																			
7/5/2019 14:18																			-262.5														
7/5/2019 14:19																							-353										
8/2/2019 9:14																		-583.7															
8/2/2019 9:15																								-541.6									
8/5/2019 9:30																			-262.2														
8/5/2019 9:31																							-344.3										
8/5/2019 12:00				-298.39	-364.04	-483.12	-260.34		-371.50	-534.19	-296.31			-209.18																				
8/26/2019 10:30															-353.59																		
9/2/2019 12:00									-371.80											-286.75		-299.03											
9/3/2019 10:55																		-501.5															
9/3/2019 10:59																								-534.2									
9/3/2019 12:00				-298.46	-364.84		-260.80			-529.56	-298.72																						
9/3/2019 13:57																											-201.77						
9/3/2019 14:10																										-465.8							
9/3/2019 15:00						-484.88																											
9/5/2019 12:00														-209.04																			
9/6/2019 10:45																			-264.4				-357.1										
9/26/2019 9:40																					-411.5												
9/26/2019 10:14								-478.91																									
9/26/2019 12:00					-364.66		-261.82																										
9/26/2019 13:35																									-193.89								
9/27/2019 12:00				-298.83						-533.14	-300.66																						
9/27/2019 13:47															-354.18																		
10/1/2019 10:54																		-502.3															
10/1/2019 11:00																								-530.8									
10/1/2019 12:00																				-284.44		-317.51											
10/3/2019 13:57																											-212.42						
10/3/2019 18:10																										-485.03							
10/5/2019 12:00														-207.94																			
10/7/2019 10:44																			-264.9														
10/7/2019 10:47																							-350.2										
10/7/2019 12:00									-372.10																								
10/9/2019 10:50													-384.2																				
11/1/2019 12:00																				-286.75		-299.03											
11/4/2019 10:44																			-265.5														
11/4/2019 10:47																							-351.9										
11/4/2019 10:54																		-496.1															
11/4/2019 11:00																								-570.8									
11/4/2019 12:00				-299.27	-365.88		-262.89		-372.00	-531.84	-301.88																							
11/4/2019 14:05																											-190.85						
11/4/2019 14:25																									-193.86								
11/5/2019 12:00														-209.15																			
12/1/2019 12:00							-262.78																										
12/2/2019 6:00									-372.70																								
12/2/2019 12:00				-299.13	-365.79					-533.80	-301.5									-289.06		-301.34											
12/2/2019 15:00						-485.68																											
12/4/2019 10:43																			-262.9														
12/4/2019 10:48																							-346.4										
12/4/2019 10:52																		-496.7															
12/4/2019 11:01																								-512.4									
12/26/2019 6:00									-372.90																								
12/26/2019 12:00				-299.79						-533.16	-301.43																						
12/26/2019 14:04																	-366.61																
12/30/2019 10:42								-476.93																									
12/30/2019 11:33																					-421.09												
12/30/2019 12:00					-366.03		-262.70																										

Clearwater UWCD - Lower Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #		58-03-410	58-03-411	40-57-602	40-62-501	40-54-701	40-61-509	40-53-405		40-35-404	58-02-303	58-10-303	58-17-902	58-29-603	58-03-404	58-02-505	58-06-102	40-53-406	58-05-202	40-63-501	40-62-401	58-06-301	58-05-502	40-53-507	58-06-201	58-04-203	58-06-202	40-54-201	58-03-406	58-03-407	58-03-408	58-03-409	58-02-601
CUWCD #	E-20-120P	N2-13-056P	E-22-007P	M-09-002P	M-13-005G	M-13-006G	M-13-007G	M-13-039G	A-17-CTGCD_Carlil	M-1B-TWDB-Gatesville	RRR Hosston	City of Florence	Westwood Boys Ranch	City of Taylor #3	Justin Scott	Gary Kelley	Bell Co. WCID #2	Moffat WSC #1	Armstrong WSC #1	East Bell WSC #1	en. TX Vet. Hospit	East Bell WSC #2	Armstrong WSC #2	Moffat WSC #2	Trinity Oasis LLC (Jack Hilliard Dozer and Materials)	CTWSC Doc Curb	CTWSC System Split Well	City of Troy #2	Hines Texas, LLC #1	Hines Texas, LLC #2	Hines Texas, LLC #3	Hines Texas, LLC #4	Nathan & Danielle McNeal
Well Name		Ilman Valley Ranchettes Well	Ilman Valley Ranchettes Well #	Copperas Cove - Lower	Acres-City of Temple #1	rley-City of Temple	Ridge-City of Temple	Tanglewood Moni	Carlile																									
Highest	-580.40	-368.41	-373.16	-290.13	-136.13	-259.00	-31.00	-268.60	-370.70	-477.64	-293.99	-289.96	-220.40	-37.90	-353.59	-366.61	-36.00	-329.70	-245.80	-217.45	-404.70	-268.00	-305.80	-355.00	-173.40	-417.08	-179.11	-464.05	-348.35	-389.81	-377.12	-390.19	-415.20
Lowest	-580.40	-375.38	-378.67	-312.50	-392.25	-497.02	-294.40	-499.07	-375.80	-555.22	-332.31	-588.72	-384.20	-211.57	-401.92	-441.94	-318.80	-583.70	-287.50	-307.54	-443.27	-629.21	-722.96	-596.70	-213.51	-490.18	-425.57	-487.52	-387.51	-435.07	-403.13	-398.27	-443.71
12/30/2019 12:02																									-193.85								
12/30/2019 15:00						-485.78																											
1/2/2020 12:00																				-289.06		-303.65											
1/3/2020 10:41																			-265.5														
1/3/2020 10:42																							-346.5										
1/8/2020 10:25																											-191.64						
1/8/2020 13:55															-355.37																		
2/2/2020 15:00						-485.70																											
2/3/2020 6:00									-372.80																								
2/3/2020 12:00				-299.86	-366.32		-263.24			-530.43	-300.89									-289.06		-301.34											
2/5/2020 9:27																		-495.1															
2/5/2020 9:28																								-512.2									
2/5/2020 10:10																									-194.82								
2/6/2020 9:29																			-262.2				-344.3										
3/2/2020 6:00									-372.60																								
3/2/2020 10:00																										-466.25							
3/2/2020 12:00				-299.94	-366.43		-263.21			-528.79	-300.34									-279.82		-299.03											
3/2/2020 12:05																											-191.45						
3/2/2020 12:22																									-194.84								
3/2/2020 15:00						-485.48																											
3/4/2020 9:24																			-266.1														
3/4/2020 9:25																							-365.1										
3/5/2020 9:26																		-494.2															
3/5/2020 9:27																								-509.7									
4/1/2020 9:17																										-466.35							
4/1/2020 11:08																											-191.53						
4/1/2020 11:24																									-195.04								
4/1/2020 12:00																				-282.13		-299.03											
4/3/2020 8:57																		-493.3															
4/3/2020 10:03																			-265.8														
4/3/2020 10:12																							-347.8										
5/1/2020 12:00																				-284.44		-296.72											
5/2/2020 21:00						-485.45																											
5/4/2020 5:00									-372.60																								
5/4/2020 9:15																									-194.34								
5/6/2020 12:00				-299.50	-366.94		-263.43			-527.26	-300.29																						
5/6/2020 9:50																								-507									
5/6/2020 10:01																		-492.5															
5/14/2020 10:03																			-266.4														
5/14/2020 10:12																							-347.3										
6/1/2020 12:00				-299.57	-367.13	-484.92				-527.34	-301.43									-282.13		-294.41											
6/2/2020 5:00									-372.90																								
6/3/2020 9:53																								-587.3									
6/3/2020 10:01																		-497.7															
6/3/2020 10:04																			-265.4														
6/3/2020 10:11																							-347.1										
6/4/2020 0:33																											-195.25						
6/5/2020 1:06																										-451.03							
6/25/2020 5:00									-373.20																								
6/25/2020 12:00				-299.57							-303.06																						
6/26/2020 10:03								-478.28																									
6/26/2020 10:48																					-422.72												
6/26/2020 15:27										-528.99																							
7/1/2020 10:00																		-503.7															
7/7/2020 8:20																											-197.98						
7/8/2020 9:08																										-456.7							
7/8/2020 12:28																			-267														
7/8/2020 12:29																							-348.6										
7/29/2020 12:43																									-195.42								
7/31/2020 10:00																		-508.5															
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8/3/2020 5:00									-373.90																								
8/3/2020 8:08																										-449.74							
8/3/2020 12:00				-300.01	-370.26	-488.79	-266.16			-531.33	-306.52									-295.99		-305.96											
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8/12/2020 10:11																							-346.4										
8/13/2020 14:15																	-272.94																
9/1/2020 18:29																										-424.41							
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9/3/2020 9:59																		-506.7															
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9/4/2020 10:08																							-350.3										
9/4/2020 21:57																											-201.75						
9/7/2020 5:00									-374.00																								
9/7/2020 12:00				-299.86	-371.13	-490.42	-267.35			-533.26	-309.24																						
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9/25/2020 9:15																	-211.35																
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10/13/2020 10:08																							-350.9										
11/2/2020 9:57																								-513.1									
11/2/2020 9:58																		-502															
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11/3/2020 13:36																									-199.04								
11/4/2020 0:25																											-192.34						
11/18/2020 14:30																														-389.81			
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12/1/2020 0:25																											-195.77						
12/1/2020 12:00					-371.38		-267.68			-529.26	-310.57									-284.44		-305.96											
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12/2/2020 11:34																	-227.84																
12/3/2020 9:56																								-511.8									
12/3/2020 9:58																		-497.9															
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12/3/2020 10:07																							-351.8										
12/30/2020 9:30								-475.80																									
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12/30/2020 10:25																									-198.41								
12/30/2020 10:45																	-229.18																
12/30/2020 12:00					-371.91		-267.40			-529.88	-310.37																						
12/30/2020 12:27																															-377.12		
12/30/2020 12:35																													-350.84				
12/30/2020 12:43																														-392.59			
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1/4/2021 0:25																											-225.6						
1/4/2021 9:57																		-497.6															
1/4/2021 12:00																				-286.75		-301.34											
1/4/2021 15:01																										-470.11							
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1/13/2021 10:18																							-351.4										
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2/1/2021 12:00					-372.23					-530.37	-309.74									-307.54		-305.96											
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3/1/2021 6:00									-373.30																								
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3/2/2021 15:36																	-229.89																
3/30/2021 12:00										-530.91																							
3/31/2021 5:00									-373.30																								
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3/31/2021 10:18																					-424.72												
3/31/2021 10:52																											-194.15						
3/31/2021 12:00					-373.51	-491.05	-272.87				-309.7																						
3/31/2021 12:27																										-471.49							
3/31/2021 13:12															-367.29																		
3/31/2021 13:32																															-378.56		
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3/31/2021 13:55																														-391.52			
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4/7/2021 10:48																			-272.7														
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5/3/2021 5:00									-373.10																								
5/3/2021 10:40																		-522.7															
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5/3/2021 12:00				-301.27						-530.67	-310.51									-289.06		-299.03											
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5/13/2021 11:11																			-266.3														
5/13/2021 11:12																							-353.7										
6/1/2021 10:42																								-514.4									

Clearwater UWCD - Lower Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #		58-03-410	58-03-411	40-57-602	40-62-501	40-54-701	40-61-509	40-53-405		40-35-404	58-02-303	58-10-303	58-17-902	58-29-603	58-03-404	58-02-505	58-06-102	40-53-406	58-05-202	40-63-501	40-62-401	58-06-301	58-05-502	40-53-507	58-06-201	58-04-203	58-06-202	40-54-201	58-03-406	58-03-407	58-03-408	58-03-409	58-02-601
CUWCD #	E-20-120P	E-22-056P	E-22-007P	M-09-002P	M-13-005G	M-13-006G	M-13-007G	M-13-039G	A-17-CTGCD_Carlile	M-1B-TWDB-Gatesville	RRR Hosston	City of Florence	Westwood Boys Ranch	City of Taylor #3	Justin Scott	Gary Kelley	Bell Co. WCID #2	Moffat WSC #1	Armstrong WSC #1	East Bell WSC #1	en. TX Vet. Hospit	East Bell WSC #2	Armstrong WSC #2	Moffat WSC #2	Trinity Oasis LLC (Jack Hilliard Dozer and Materials)	CTWSC Doc Curb	CTWSC System Split Well	City of Troy #2	Hines Texas, LLC #1	Hines Texas, LLC #2	Hines Texas, LLC #3	Hines Texas, LLC #4	Nathan & Danielle McNeal
Well Name		Ilman Valley Ranchettes Well	Ilman Valley Ranchettes Well #	Copperas Cove - Lower	Acres-City of Temple #1	rley-City of Temple	Ridge-City of Temple	Tanglewood Moni	Carlile																									
Highest	-580.40	-368.41	-373.16	-290.13	-136.13	-259.00	-31.00	-268.60	-370.70	-477.64	-293.99	-289.96	-220.40	-37.90	-353.59	-366.61	-36.00	-329.70	-245.80	-217.45	-404.70	-268.00	-305.80	-355.00	-173.40	-417.08	-179.11	-464.05	-348.35	-389.81	-377.12	-390.19	-415.20
Lowest	-580.40	-375.38	-378.67	-312.50	-392.25	-497.02	-294.40	-499.07	-375.80	-555.22	-332.31	-588.72	-384.20	-211.57	-401.92	-441.94	-318.80	-583.70	-287.50	-307.54	-443.27	-629.21	-722.96	-596.70	-213.51	-490.18	-425.57	-487.52	-387.51	-435.07	-403.13	-398.27	-443.71
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6/8/2021 10:46																			-267.4														
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6/29/2021 5:00									-373.30																								
6/30/2021 9:48								-481.82																									
6/30/2021 10:15						-492.02																											
6/30/2021 10:56																												-466.15					
6/30/2021 11:46							-269.77																										
6/30/2021 12:00				-301.18	-374.72					-531.71	-310.38									-272.89		-299.03				-470.42							
6/30/2021 12:10																					-425.97												
6/30/2021 12:34																									-199.92								
6/30/2021 12:53																	-233.18																
6/30/2021 13:40															-367.9																		
6/30/2021 13:52																															-379.72		
6/30/2021 14:03																														-351.43			
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6/30/2021 14:40																-384.41																	
7/2/2021 10:44																								-511.5									
7/2/2021 10:45																		-509.7															
7/9/2021 14:33																			-273.1				-363.4										
7/28/2021 9:30																																	-415.2
8/1/2021 9:17																		-522.5						-596.7									
8/23/2021 10:45		-375.38																															
8/23/2021 11:22			-373.16																														
9/3/2021 14:07																		-518.5															
9/3/2021 14:08																								-561.1									
9/9/2021 11:33																			-275.8														
9/9/2021 11:34																							-363.1										
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9/29/2021 9:13								-488.37																									
9/29/2021 10:20																					-428.74												
9/29/2021 11:57		-368.41																															
9/29/2021 12:00				-302.16	-377.91		-277.81			-534.37	-314.08									-270.58		-294.41											
9/29/2021 12:07			-374.18																														
9/29/2021 12:26															-369.88																		
9/29/2021 13:06																															-382.31		
9/29/2021 13:20																														-353.95			
9/29/2021 13:29																															-398.01		
10/6/2021 11:30																		-517.6															
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11/1/2021 10:08																								-524.9									
11/1/2021 12:00				-301.98	-377.94	-496.73	-279.81			-533.45	-315.64									-272.89		-299.03											
11/8/2021 10:04																			-277.1														
11/8/2021 10:06																							-357.8										
11/8/2021 15:18	-580.40																																
11/8/2021 15:37		-368.79																															
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12/3/2021 11:06																		-509															
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12/29/2021 14:09																															-404.01		
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1/5/2022 18:00																		-509.7					-357.6	-516.8									
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2/1/2022 18:00																				-270.58		-296.72	-359.9	-514.3									
2/7/2022 1:00																			-275.4														
2/7/2022 18:00				-302.43	-376.57		-280.08			-534.31	-315.25																						
3/1/2022 18:00																				-275.2													
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3/4/2022 17:16																									-200.54								
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4/1/2022 17:00																				-277.51		-296.72											
4/4/2022 11:00																								-535.1									
4/6/2022 11:00				-303.25	-377.72		-279.91			-534.76									-277.4				-355.8			-472.86	-201.26						
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4/6/2022 13:55								-486.28																									
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4/6/2022 16:55		-374.33																															
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4/6/2022 18:42																																	-416.51
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7/1/2022 17:00																		-515.8		-279.82													
7/6/2022 11:00																			-278.3				-362.6										
8/1/2022 11:00							-280.62				-323.41											-301.34											
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8/3/2022 13:02				-304.15																													
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10/5/2022 8:30								-489.45																									
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10/5/2022 11:00					-382.15					-555.22	-328.16							-518.6	-280			-319.82	-360.3	-530.9						-366.52	-406.38		
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10/5/2022 17:00																				-289.06													
11/1/2022 11:00				-305.25	-383.09		-278.33			-551.53	-328.94							-518.5	-282.1				-361.1	-530.7									
11/1/2022 17:43																									-205.13								
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12/1/2022 18:00																				-284.44													
12/2/2022 12:00																		-520.7						-533.4									
12/6/2022 0:00					383.56																												
12/6/2022 12:00				-305.72	-383.56		-278.80			-545.49																							
12/28/2022 18:00										-544.50																							
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12/29/2022 16:40																					-434.2												
12/29/2022 17:14																									-206.88								
12/29/2022 17:26																												-204.34					
12/29/2022 18:00				-305.95	-383.56		-279.06																										
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12/29/2022 19:18															-389.39																		
12/29/2022 19:34																														-362.47			

Clearwater UWCD - Lower Trinity Monitor Wells

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CUWCD #	E-20-120P	N2-13-056P	E-22-007P	M-09-002P	M-13-005G	M-13-006G	M-13-007G	M-13-039G	A-17-CTGCD_Carlile	M-18-TWDB-Gatesville	RRR Hosston	City of Florence	Westwood Boys Ranch	City of Taylor #3	Justin Scott	Gary Kelley	Bell Co. WCID #2	Moffat WSC #1	Armstrong WSC #1	East Bell WSC #1	en. TX Vet. Hospit	East Bell WSC #2	Armstrong WSC #2	Moffat WSC #2	Trinity Oasis LLC (Jack Hilliard Dozer and Materials)	CTWSC Doc Curb	CTWSC System Split Well	City of Troy #2	Hines Texas, LLC #1	Hines Texas, LLC #2	Hines Texas, LLC #3	Hines Texas, LLC #4	Nathan & Danielle McNeal
Well Name		Ilman Valley Ranchettes Well	Ilman Valley Ranchettes Well #	Copperas Cove - Lower	Acres-City of Temple #1	rley-City of Temple	Ridge-City of Temple	Tanglewood Moni	Carlile																									
Highest	-580.40	-368.41	-373.16	-290.13	-136.13	-259.00	-31.00	-268.60	-370.70	-477.64	-293.99	-289.96	-220.40	-37.90	-353.59	-366.61	-36.00	-329.70	-245.80	-217.45	-404.70	-268.00	-305.80	-355.00	-173.40	-417.08	-179.11	-464.05	-348.35	-389.81	-377.12	-390.19	-415.20
Lowest	-580.40	-375.38	-378.67	-312.50	-392.25	-497.02	-294.40	-499.07	-375.80	-555.22	-332.31	-588.72	-384.20	-211.57	-401.92	-441.94	-318.80	-583.70	-287.50	-307.54	-443.27	-629.21	-722.96	-596.70	-213.51	-490.18	-425.57	-487.52	-387.51	-435.07	-403.13	-398.27	-443.71
12/29/2022 19:46																														-410.43			
12/29/2022 20:08																																	-427.34
12/29/2022 20:20																-399.87																	
1/3/2023 18:00																			-281.10	-272.89		-305.96	-365.90										
2/6/2023 6:00									-374.90																								
2/6/2023 18:00				-306.25	-383.65		-279.01			-543.43	-326.32							-518.40	-281.20	-275.20				-525.30			-212.56						
3/1/2023 18:00																		-524.80	-281.60	-277.51		-305.96	-362.10	-550.90									
3/6/2023 6:00									-375.10																								
3/6/2023 15:00																											-209.69						
3/6/2023 18:00				-306.22	-384.01		-279.08			-542.79	-325.76											-329.91											
3/29/2023 5:00									-375.30																								
3/29/2023 14:15								-493.77																									
3/29/2023 14:45																												-472.50					
3/29/2023 15:23																					-435.22												
3/29/2023 15:48																									-204.88								
3/29/2023 16:08																	-318.80																
3/29/2023 16:35																										-481.46							
3/29/2023 17:00				-306.34	-384.41		-279.40			-542.66	-325.45																						
3/29/2023 17:27															-397.63																		
3/29/2023 17:46																													-377.46				
3/29/2023 17:56																														-415.59			
3/29/2023 18:20																																	-423.41
3/29/2023 18:31																-395.24																	
3/30/2023 0:00																											-201.17						
4/3/2023 17:00																		-532.80	-281.70	-275.20			-364.70	-535.70									
5/1/2023 5:00									-375.20																								
5/1/2023 6:00																											-211.32						
5/1/2023 17:00				-306.79	-384.51		-279.91			-543.27	-325.40							-530.90	-282.00	-272.89				-548.30									
5/2/2023 19:10																						-323.68											
6/5/2023 5:00									-375.50																								
6/5/2023 17:00				-307.00	-384.76		-280.26			-542.45	-325.45																						
6/6/2023 0:00																											-209.92						
6/6/2023 2:00																						-316.69											
6/28/2023 5:00									-375.40																								
6/28/2023 14:15								-499.07																									
6/28/2023 14:20																												-474.18					
6/28/2023 15:23																					-436.19												
6/28/2023 15:52																									-209.55								
6/28/2023 16:08																	-241.70																
6/28/2023 16:50																										-482.45							
6/28/2023 17:00				-307.18	-385.38		-280.89			-542.79	-326.02																						
6/28/2023 17:26															-389.40																		
6/28/2023 17:41																															-403.13		
6/28/2023 17:56																														-428.59			
6/28/2023 18:28																-438.15																	
6/28/2023 23:19																											-211.45						
6/29/2023 1:55																						-314.94											
6/30/2023 15:10																																	
7/5/2023 17:00																		-533.90	-282.60	-279.82			-372.50	-541.60									
8/1/2023 12:07																						-316.06											
8/1/2023 17:00																			-285.30	-275.20			-361.40										
8/2/2023 1:17																											-224.17						
8/2/2023 17:00																		-515.70						-530.60									
8/7/2023 5:00									-375.80																								
8/7/2023 10:00																											-224.24						
8/7/2023 15:00																									-212.09								
8/7/2023 17:00				-307.55	-387.91		-282.22			-545.57	-329.22																						
8/8/2023 2:29																						-316.21											
9/1/2023 17:00																			-283.80	-279.82			-375.20										
9/1/2023 23:50																						-316.80											
9/5/2023 15:30																									-213.51								
9/5/2023 17:00				-307.86	-389.04					-548.33	-331.88							-525.90						-549.90									
9/6/2023 4:01																						-316.43											
9/6/2023 4:30																											-224.85						
9/29/2023 12:15																							-361.04										
9/29/2023 12:45																						-317.54											
9/29/2023 13:50								-497.15																									
9/29/2023 14:24																												-479.06					
9/29/2023 14:51																					-438.98												
9/29/2023 15:06					-389.63																												
9/29/2023 15:25																									-212.20		-225.60						
9/29/2023 17:00				-307.79			-284.12			-547.19	-331.29							-528.50	-286.70					-532.30									
9/29/2023 17:10															-387.14																		
9/29/2023 17:29																														-400.88			
9/29/2023 17:40																													-375.30				
9/29/2023 18:14																																	-443.71
9/29/2023 18:24																-426.32																	
9/30/2023 3:40																	-245.83																
9/30/2023 4:07																										-485.90							
11/6/2023 13:22																											-229.40						
11/6/2023 18:00				-308.23	-389.88		-284.63			-547.59	-329.35								-287.50	-277.51													
11/6/2023 20:40																							-360.37										
11/6/2023 23:09																						-320.30											
12/4/2023 18:00				-308.45	-389.90		-284.50			-547.22	-328.37							-521.60	-287.50	-277.51				-533.40			-213.09						
12/5/2023 0:57																							-360.90										
12/5/2023 1:46																						-314.19											
12/29/2023 15:22																							-357.53										
12/29/2023 15:50								-495.25																									
12/29/2023 16:26																												-481.06					
12/29/2023 16:37																											-207.83						
12/29/2023 17:00																																	
12/29/2023 17:19																					-441.34				-212.54								
12/29/2023 17:31																	-239.16																
12/29/2023 18:00				-308.85	-389.59		-284.35				-327.60							-523.80	-287.20	-279.82				-535.00									
12/29/2023 19:05																										-490.18							
12/29/2023 19:39															-394.38																		
12/29/2023 20:34																													-372.48				
12/29/2023 20:42																														-434.22			
12/29/2023 21:05																																	-435.37
12/29/2023 21:20																-403.70																	
12/30/2023 4:09																						-310.67											
1/1/2024 0:00																						-314.33					-212.28						
1/2/2024 0:00																						-312.71					-211.40						
1/3/2024 0:00																						-314.71					-211.74						
1/4/2024 0:00																						-315.16					-212.25						
1/5/2024 0:00																						-314.09					-211.38						
1/6/2024 0:00																						-314.93					-210.69						
1/7/2024 0:00																						-312.66					-211.99						
1/8/2024 0:00																						-315.46					-211.37						
1/9/2024 0:00																						-314.13					-211.91						
1/10/2024 0:00																						-313.51					-211.47						
1/11/2024 0:00																						-313.55					-207.63						
1/12/2024 0:00																						-312.91					-211.08						
1/13/2024 0:00																						-313.32					-211.94						
1/14/2024 0:00																						-312.45					-212.71						
1/15/2024 0:00																						-314.23					-203.98						
1/16/2024 0:00																						-311.23					-211.35						
1/17/2024 0:00																						-312.80					-211.12						
1/18/2024 0:00																						-313.07					-212.76						
1/19/2024 0:00																						-312.62					-210.31						
1/20/2024 0:00																						-300.50					-211.56						
1/21/2024 0:00																						-311.73					-211.39						
1/22/2024 0:00																						-311.76					-210.89						
1/23/2024 0:00																						-311.48					-210.81						
1/24/2024 0:00																						-312.29					-213.47						
1/25/2024 0:00																						-314.28					-211.80						
1/26/2024 0:00																						-314.63	-361.24				-209.79						
1/27/2024 0:00																						-313.32	-361.80				-210.51						
1/28/2024 0:00																						-313.13	-361.37				-210.44						
1/29/2024 0:00																						-314.77	-362.29				-210.83						
1/30/2024 0:00																						-313.20	-362.41				-211.28						
1/31/2024 0:00																						-312.63	-362.70				-210.12						
2/1/2024 0:00																						-313.31	-362.53				-210.58						
2/2/2024 0:00																						-313.93	-363.85				-212.26						
2/3/2024 0:00																						-313.94	-361.90				-210.32						
2/4/2024 0:00																						-313.39	-361.89				-209.06						
2/5/2024 0:00																											-210.77						
2/6/2024 0:00				-309.42	-389.38		-284.13			-546.47	-326.90							-532.20	-286.80	-277.51		-629.21	-722.96	-556.20			-211.08						
2/7/2024 0:00																						-313.64	-362.01				-210.50						
2/8/2024 0:00																						-313.77	-361.83				-210.97						
2/9/2024 0:00																						-313.72	-362.61				-210.61						
2/10/2024 0:00																						-315.29	-361.60				-210.53						
2/11/2024 0:00																						-315.33	-361.88				-211.20						
2/12/2024 0:00																						-310.23	-361.12				-210.06						
2/13/2024 0:00																						-315.76	-361.47				-211.89						
2/14/2024 0:00																						-315.29	-363.84				-212.21						
2/15/2024 0:00																						-315.22	-361.64				-212.27						
2/16/2024 0:00																						-313.91	-362.79				-213.16						
2/17/2024 0:00																						-319.76	-363.20				-212.53						
2/18/2024 0:00																						-313.45	-362.84				-211.08						
2/19/2024 0:00																						-314.05	-363.14				-207.82						
2/20/2024 0:00																						-315.28	-363.65				-209.12						
2/21/2024 0:00																						-316.30	-363.71				-211.05						
2/22/2024 0:00																						-314.98	-362.84				-212.89						

Clearwater UWCD - Lower Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #		58-03-410	58-03-411	40-57-602	40-62-501	40-54-701	40-61-509	40-53-405			40-35-404	58-02-303	58-10-303	58-17-902	58-29-603	58-03-404	58-02-505	58-06-102	40-53-406	58-05-202	40-63-501	40-62-401	58-06-301	58-05-502	40-53-507	58-06-201	58-04-203	58-06-202	40-54-201	58-03-406	58-03-407	58-03-408	58-03-409	58-02-601
CUWCD #	E-20-120P	E-22-056P	E-22-007P	M-09-002P	M-13-005G	M-13-006G	M-13-007G	M-13-039G	A-17-CTGCD_Carlil	M-18-TWDB-Gatesville		RRR Hosston	M-19-001P	M-5810303	M-5829603	M-5817902	City of Taylor #3	N1-18-006P	N1-19-001P	N2-02-001G	N2-02-022Q	N2-02-024G	N2-02-034G	N2-03-001G	N2-04-010P	N2-10-001P	N2-10-002P	N2-13-001P	N2-13-002P	N2-14-005P	N2-14-009P	N2-15-020P	N2-20-002P	N2-20-003P	N2-20-004P	N2-21-004P	N2-21-005P
Well Name		Ilman Valley Ranchettes Well	Ilman Valley Ranchettes Well #	Copperas Cove - Lower	Acres-City of Temple #3	rley-City of Temple	Ridge-City of Temple	Tanglewood Moni	Carlile				City of Florence	Westwood Boys Ranch			Justin Scott	Gary Kelley	Bell Co. WCID #2	Moffat WSC #1	Armstrong WSC #1	East Bell WSC #1	en. TX Vet. Hospit	East Bell WSC #2	Armstrong WSC #2	Moffat WSC #2	Trinity Oasis LLC (Jack Hillard Dozer and Materials)	CTWSC Doc Curb	CTWSC System Split Well	City of Troy #2	Hines Texas, LLC #1	Hines Texas, LLC #2	Hines Texas, LLC #3	Hines Texas, LLC #4	Nathan & Danielle McNeal
Highest	-580.40	-368.41	-373.16	-290.13	-136.13	-259.00	-31.00	-268.60	-370.70	-477.64	-293.99	-289.96		-220.40	-37.90	-353.59	-366.61	-36.00	-329.70	-245.80	-217.45	-404.70	-268.00	-305.80	-355.00	-173.40	-417.08	-179.11	-464.05	-348.35	-389.81	-377.12	-390.19	-415.20
Lowest	-580.40	-375.38	-378.67	-312.50	-392.25	-497.02	-294.40	-499.07	-375.80	-555.22	-332.31	-588.72		-384.20	-211.57	-401.92	-441.94	-318.80	-583.70	-287.50	-307.54	-443.27	-629.21	-722.96	-596.70	-213.51	-490.18	-425.57	-487.52	-387.51	-435.07	-403.13	-398.27	-443.71
2/23/2024 0:00																							-314.69	-362.75				-211.94						
2/24/2024 0:00																							-315.66	-364.09				-212.62						
2/25/2024 0:00																							-316.49	-363.37				-211.66						
2/26/2024 0:00																							-314.32	-363.35				-212.38						
2/27/2024 0:00																							-314.55	-362.53				-210.23						
2/28/2024 0:00																							-316.31	-362.84				-213.54						
2/29/2024 0:00																							-314.11	-363.72				-214.34						
3/1/2024 0:00																							-316.42	-361.95				-212.46						
3/2/2024 0:00																							-312.73	-363.65				-211.93						
3/3/2024 0:00																							-311.34	-365.47				-211.85						
3/4/2024 0:00																							-313.09	-365.25										
3/5/2024 0:00				-310.35	-390.03		-284.79			-545.86		-325.84											-314.41	-363.63				-425.57						
3/6/2024 0:00																							-314.28	-366.78	-536.11			-212.58						
3/7/2024 0:00																							-314.12	-363.35				-213.93						
3/8/2024 0:00																							-314.47	-362.72				-212.62						
3/9/2024 0:00																							-315.64	-363.32				-214.49						
3/10/2024 0:00																							-316.47	-364.77				-210.91						
3/11/2024 0:00																							-314.72	-363.07				-213.14						
3/12/2024 0:00																							-314.82	-365.32				-211.99						
3/13/2024 0:00																							-313.52	-366.67				-212.17						
3/14/2024 0:00																							-315.08	-364.03				-211.96						
3/15/2024 0:00																							-315.10	-362.45				-211.59						
3/16/2024 0:00																							-315.10	-363.42				-210.82						
3/17/2024 0:00																							-314.94	-362.79				-210.17						
3/18/2024 0:00																							-315.75	-364.09				-210.87						
3/19/2024 0:00																							-315.39	-361.97				-212.42						
3/20/2024 0:00																							-314.32	-361.87				-215.41						
3/21/2024 0:00																							-314.53	-362.15				-208.51						
3/22/2024 0:00																							-314.76	-362.06				-212.11						
3/23/2024 0:00																							-313.92	-362.19				-212.17						
3/24/2024 0:00																							-315.82	-361.30				-212.76						
3/25/2024 0:00																							-315.65	-361.11				-209.76						
3/26/2024 0:00																							-314.07	-361.32				-211.90						
3/27/2024 0:00																							-315.98	-360.45				-211.73						
3/29/2024 0:00					-391.25		-284.98	-490.07		-546.09	-324.80					-401.92	-398.24		-520.67	-286.00		-443.14	-629.12	-722.78	-523.35		-486.03	-423.70	-473.01	-378.72	-435.07			
3/30/2024 0:00																		-312.08					-314.74	-361.31		-212.92		-211.44						
3/31/2024 0:00																							-314.97	-362.58				-213.14						
4/1/2024 0:00																							-315.39	-362.20				-212.59						
4/2/2024 0:00																							-314.70	-361.83				-213.98						
4/3/2024 0:00																							-315.56	-361.45				-211.59						
4/4/2024 0:00																							-318.85	-363.63				-213.11						
4/5/2024 0:00																							-316.32	-362.69				-213.38						
4/6/2024 0:00																							-316.40	-361.63				-212.87						
4/7/2024 0:00																							-314.99	-364.22				-212.36						
4/8/2024 0:00																							-315.91	-361.66				-211.40						
4/9/2024 0:00																							-317.35	-362.46				-212.06						
4/10/2024 0:00																							-316.07	-361.91				-211.26						
4/11/2024 0:00																							-316.81	-362.87				-212.28						
4/12/2024 0:00																							-315.88	-362.50				-210.47						
4/13/2024 0:00																							-315.13	-360.87				-209.45						
4/14/2024 0:00																							-314.27	-361.37				-209.00						
4/15/2024 0:00																							-312.95	-361.85				-211.38						
4/16/2024 0:00																							-314.55	-362.85				-211.18						
4/17/2024 0:00																							-315.89	-360.72				-212.58						
4/18/2024 0:00																							-316.96	-363.16				-211.61						
4/19/2024 0:00																							-317.36	-361.07				-211.48						
4/20/2024 0:00																							-315.69	-362.26				-213.11						
4/21/2024 0:00																							-316.48	-361.37				-209.41						
4/22/2024 0:00																							-315.95	-360.85				-213.44						
4/23/2024 0:00																							-314.63	-361.18				-212.41						
4/24/2024 0:00																							-315.34	-360.87				-211.89						
4/25/2024 0:00																							-315.35	-361.42				-209.77						
4/26/2024 0:00																					-282.13		-314.80	-362.43				-211.42						
4/27/2024 0:00																							-316.27	-361.60				-213.01						
4/28/2024 0:00																							-314.19	-361.48				-210.67						
4/29/2024 0:00																							-314.41	-363.84				-208.83						
4/30/2024 0:00																							-315.43	-361.98				-208.54						
5/1/2024 0:00																							-315.08	-360.87				-209.52						
5/2/2024 0:00																							-314.90	-361.53				-209.55						
5/3/2024 0:00																							-315.64	-362.50				-209.86						
5/4/2024 0:00																							-315.49	-362.14				-210.08						
5/5/2024 0:00																							-316.20	-364.42				-209.92						
5/6/2024 0:00																							-316.39	-361.15				-209.90						
5/7/2024 0:00				-311.40	-390.12		-284.93				-332.31								-519.23	-284.80	-282.13		-315.75	-362.20	-547.81			-209.89						
5/8/2024 0:00																							-315.69	-362.68				-210.87						
5/9/2024 0:00																							-316.10	-362.60				-210.25						
5/10/2024 0:00																							-316.27	-360.55				-210.07						
5/11/2024 0:00																							-316.90	-364.07				-210.17						
5/12/2024 0:00																							-315 50	-360.64				-210.17						
5/13/2024 0:00																							-313.72	-362.14				-210.16						
5/14/2024 0:00																							-316.17	-363.05				-210.26						
5/15/2024 0:00																							-315.96	-360.18				-210.72						
5/16/2024 0:00																							-315.27	-362.25										
5/17/2024 0:00																							-317.41	-362.10				-210.25						
5/18/2024 0:00																							-316.09	-362.99				-210.58						
5/19/2024 0:00																							-316.33	-363.73				-210.62						
5/20/2024 0:00																							-314.87	-362.83				-210.60						
5/21/2024 0:00																							-317.28	-366.87				-210.27						
5/22/2024 0:00																							-315.88	-362.86				-210.68						
5/23/2024 0:00																							-319.14	-363.57				-210.48						
5/24/2024 0:00																							-317.22	-362.32				-210.58						
5/25/2024 0:00																							-316.39	-360.90				-210.70						
5/26/2024 0:00																							-316.52	-364.03				-210.71						
5/27/2024 0:00																							-315.82	-362.22				-210.83						
5/28/2024 0:00																							-316.57	-366.36				-210.85						
5/29/2024 0:00																							-318.19	-365.90				-210.94						
5/30/2024 0:00																							-316.31	-364.93				-210.04						
5/31/2024 0:00																							-316.34	-364.01				-209.75						
6/1/2024 0:00																							-316.45	-363.99				-210.95						
6/2/2024 0:00																							-317.98	-361.83				-210.92						
6/3/2024 0:00																							-316.96	-365.70				-210.11						
6/4/2024 0:00				-311.82	-389.32		-284.37			-544.88	-331.86									-281.20	-279.82		-317.09	-362.18	-538.40	-210.05		-210.86						
6/5/2024 0:00																							-317.26	-364.43				-211.53						
6/6/2024 0:00																							-316.89	-362.24				-211.19						
6/7/2024 0:00																							-316.50	-362.84				-211.40						
6/8/2024 0:00																							-315.25	-361.79				-210.98						
6/9/2024 0:00																							-315.66	-362.26				-210.91						
6/10/2024 0:00																							-315.74	-362.90				-212.12						
6/11/2024 0:00																							-318.55	-365.73				-211.47						
6/12/2024 0:00																							-315.45	-362.88				-210.36						
6/13/2024 0:00																							-316.83	-362.81				-211.33						
6/14/2024 0:00																							-315.99	-361.49				-211.07						
6/15/2024 0:00																							-316.16	-360.58				-211.35						
6/16/2024 0:00																							-316.61	-364.25				-210.83						
6/17/2024 0:00																							-316.03	-363.08				-211.28						
6/18/2024 0:00																							-315.92	-364.01				-211.11						
6/19/2024 0:00																							-316.18	-361.64				-211.02						
6/20/2024 0:00																							-316.10	-362.40				-211.84						
6/21/2024 0:00																							-316.12	-362.14				-210.11						
6/22/2024 0:00																							-315.86	-362.71				-214.78						
6/23/2024 0:00																							-315.76	-363.69				-215.78						
6/24/2024 0:00																							-316.96	-361.59				-215.55						
6/25/2024 0:00																							-316.24	-363.08				-214.97						
6/26/2024 0:00																							-316.62	-361.88				-216.00						
6/27/2024 0:00																							-317.07	-362.42				-216.50						
6/28/2024 0:00				-312.14	-392.25		-284.81	-493.30		-545.22	-331.59							-313.96	-528.75		-282.13	-443.27	-315.76	-363.02		-212.21	-484.56	-215.22	-487.52	-387.51	-422.43			
6/29/2024 0:00																							-316.18	-360.74				-216.63						
6/30/2024 0:00																							-317.95	-363.75				-216.15						
7/1/2024 0:00																							-317.06	-363.84				-216.53						
7/2/2024 0:00																							-317.18	-365.85				-217.00						
7/3/2024 0:00																							-315.53	-365.32				-215.37						
7/4/2024 0:00																							-316.39	-363.27				-215.98						
7/5/2024 0:00																							-315.85	-364.22	-548.25			-215.78						
7/6/2024 0:00																							-315.99	-364.08	-550.27			-215.20						
7/7/2024 0:00																							-316.17	-361.75	-541.61			-215.70						
7/8/2024 0:00																							-317.13	-363.83	-580.68			-214.97						
7/9/2024 0:00																							-316.29	-362.57	-557.73			-216.49						
7/10/2024 0:00																			-530.66				-319.57	-362.59	-555.95			-216.75						
7/11/2024 0:00																							-315.79	-364.10	-565.76			-216.95						
7/12/2024 0:00																							-317.13	-363.52	-544.62			-215.89						
7/13/2024 0:00																							-315.51	-363.77	-554.20			-216.78						
7/14/2024 0:00																			-529.39				-313.59	-363.97	-524.92			-215.42						
7/15/2024 0:00																			-529.00				-316.58	-364.02	-566.61			-216.98						
7/16/2024 0:00																			-528.40				-313.75	-365.77	-578.20			-217.49						
7/17/2024 0:00																			-547.53				-315.99	-366.16	-516.83			-217.54						
7/18/2024 0:00																							-316.76	-365.57	-547.65			-217.79						
7/19/2024 0:00																			-537.58				-315.02	-364.43	-553.74			-213.42						
7/20/2024 0:00																			-532.58				-314.16	-364.68	-578.93			-215.34						
7/21/2024 0:00																			-555.92				-315.17	-365.52	-559.89			-217.06						
7/22/2024 0:00																							-314.07	-364.77	-538.06			-214.70						
7/23/2024 0:00																							-315.55	-364.22	-565.92			-216.24						
7/24/2024 0:00																			-533.43				-313.82	-363.58	-560.85			-215.49						
7/25/2024 0:00																			-532.50				-314.38	-364.55	-538.42			-212.71						
7/26/2024 0:00																			-556.51				-314.67	-363.67	-552.09			-209.15						

Clearwater UWCD - Lower Trinity Monitor Wells

Staff measures wells quarterly in order to closely monitor the aquifer levels as part of our statuatory responsibility. The Texas Water Development Board conducted some of the measurements, shown in red. The measurements in blue were taken by the Clearwater staff. The Texas Water Development Board provides information through publication of continuous monitoring data on the measurements of the TxDOT wells and an additional well in Salado, shown in red.

State #		58-03-410	58-03-411	40-57-602	40-62-501	40-54-701	40-61-509	40-53-405			40-35-404	58-02-303	58-10-303	58-17-902	58-29-603	58-03-404	58-02-505	58-06-102	40-53-406	58-05-202	40-63-501	40-62-401	58-06-301	58-05-502	40-53-507	58-06-201	58-04-203	58-06-202	40-54-201	58-03-406	58-03-407	58-03-408	58-03-409	58-02-601
CUWCD #	E-20-120P	N2-13-056P	E-22-007P	M-09-002P	M-13-005G	M-13-006G	M-13-007G	M-13-039G	A-17-CTGCD_Carlil	M-1B-TWDB-Gatesville	RRR Hosston	M-19-001P	M-5810303	M-5817902	M-5829603	N1-18-006P	N1-19-001P	N2-02-005G	N2-02-001G	N2-02-022G	N2-02-024G	N2-02-034G	N2-03-001G	N2-04-010P	N2-10-001P	N2-13-001P	N2-13-002P	N2-14-005P	N2-14-009P	N2-15-020P	N2-20-002P	N2-20-003P	N2-20-004P	N2-21-004P	N2-21-005P
Well Name		Ilman Valley Ranchettes Well	Ilman Valley Ranchettes Well #	Copperas Cove - Lower	Acres-City of Temple #1	rley-City of Temple	Ridge-City of Temple	Tanglewood Moni	Carlile		RRR Hosston	City of Florence	Westwood Boys Ranch	City of Taylor #3	Justin Scott	Gary Kelley	Bell Co. WCID #2	Moffat WSC #1	Armstrong WSC #1	East Bell WSC #1	en. TX Vet. Hospit	East Bell WSC #2	Armstrong WSC #2	Moffat WSC #2	Trinity Oasis LLC (Jack Hilliard Dozer and Materials)	CTWSC Doc Curb	CTWSC System Split Well	City of Troy #2	Hines Texas, LLC #1	Hines Texas, LLC #2	Hines Texas, LLC #3	Hines Texas, LLC #4	Nathan & Danielle McNeal
Highest	-580.40	-368.41	-373.16	-290.13	-136.13	-259.00	-31.00	-268.60	-370.70	-477.64	-293.99	-289.96	-220.40	-37.90	-353.59	-366.61	-36.00	-329.70	-245.80	-217.45	-404.70	-268.00	-305.80	-355.00	-173.40	-417.08	-179.11	-464.05	-348.35	-389.81	-377.12	-390.19	-415.20
Lowest	-580.40	-375.38	-378.67	-312.50	-392.25	-497.02	-294.40	-499.07	-375.80	-555.22	-332.31	-588.72	-384.20	-211.57	-401.92	-441.94	-318.80	-583.70	-287.50	-307.54	-443.27	-629.21	-722.96	-596.70	-213.51	-490.18	-425.57	-487.52	-387.51	-435.07	-403.13	-398.27	-443.71
7/27/2024 0:00																							-313.48	-364.00	-546.36		-209.94						
7/28/2024 0:00																							-315.77	-366.43	-563.55		-210.40						
7/29/2024 0:00																		-533.62					-314.93	-365.75	-567.36		-210.71						
7/30/2024 0:00																		-543.35					-315.24	-366.50	-555.54		-210.96						
7/31/2024 0:00																		-565.31					-315.37	-366.19	-547.42		-211.30						
8/1/2024 0:00																		-542.59					-318.28	-368.41	-558.52		-210.96						
8/2/2024 0:00																		-545.70					-320.76	-365.79	-565.63		-212.66						
8/3/2024 0:00																		-546.16					-321.26	-367.31	-590.61		-211.42						
8/4/2024 0:00																		-533.88					-321.78	-363.98	-549.36		-211.17						
8/5/2024 0:00																								-367.55	-567.93		-211.18						
8/6/2024 0:00				-312.50	-391.19		-286.46			-545.79	-331.21							-548.34		-279.82			-320.34	-368.07	-548.85		-211.99						
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State #		58-03-410	58-03-411	40-57-602	40-62-501	40-54-701	40-61-509	40-53-405			58-02-303	58-10-303	58-17-902	58-29-603	58-03-404	58-02-505	58-06-102	40-53-406	58-05-202	40-63-501	40-62-401	58-06-301	58-05-502	40-53-507	58-06-201	58-04-203	58-06-202	40-54-201	58-03-406	58-03-407	58-03-408	58-03-409	58-02-601
CUWCD #	E-20-120P	N2-13-006P	E-22-007P	M-09-002P	M-13-005G	M-13-006G	M-13-907G	M-13-039G	A-17-CTGCD_Carlil	M-18-TWDB-Gatesville	M-19-001P	M-5810303	M-5817902	M-5829603	N1-18-004P	N1-19-001P	N2-02-001G	N2-02-022G	N2-02-024G	N2-02-034G	N2-02-036G	N2-04-010P	N2-10-001P	N2-13-001P	N2-13-002P	N2-14-003P	N2-14-005P	N2-15-002P	N2-20-002P	N2-20-003P	N2-20-004P	N2-21-004P	N2-21-005P
Well Name		Ilman Valley Ranchettes Well	Ilman Valley Ranchettes Well #	Copperas Cove - Lower	Acres-City of Temple #1	rley-City of Temple	Ridge-City of Temple	Tanglewood Moni	Carlile		RRR Hosston	City of Florence	Westwood Boys Ranch	City of Taylor #3	Justin Scott	Gary Kelley	Bell Co. WCID #2	Moffat WSC #1	Armstrong WSC #1	East Bell WSC #1	en. TX Vet. Hospit	East Bell WSC #2	Armstrong WSC #2	Moffat WSC #2	Trinity Oasis LLC (Jack Hilliard Dozer and Materials)	CTWSC Doc Curb	CTWSC System Split Well	City of Troy #2	Hines Texas, LLC #1	Hines Texas, LLC #2	Hines Texas, LLC #3	Hines Texas, LLC #4	Nathan & Danielle McNeal
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Lowest	-580.40	-375.38	-378.67	-312.50	-392.25	-497.02	-294.40	-499.07	-375.80	-555.22	-332.31	-588.72	-384.20	-211.57	-401.92	-441.94	-318.80	-583.70	-287.50	-307.54	-443.27	-629.21	-722.96	-596.70	-213.51	-490.18	-425.57	-487.52	-387.51	-435.07	-403.13	-398.27	-443.71
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E-line Measurement
Sonic Measurement
TWDB Measurement
Air line Measurement
No Reading Available

The desired future conditions established by Clearwater Underground Water Conservation District for the Lower Trinity is no more than 319 feet of drawdown after 50 years.

The average drawdown goal per year is -6.38 feet.

Minimum Number of Measurements: 3

Average Drawdown **-4.98 ft/yr**

Drawdown of Water Level

Increase of Water Level

Appendix P

23rd Annual BELL COUNTY WATER SYMPOSIUM

Clearwater Underground Water Conservation District
Every drop counts!

Wednesday, November 13, 2024

Cadence Bank Center - Assembly Hall

Call to Action: Turning Plans into Pipelines

9:00 AM **Welcome & Introductions**

9:05 AM **Bell County's Unmet Needs for Water**
Honorable Judge David Blackburn

9:30 AM **The Building Blocks of a Local Alliance: Vision, Policy, & Communication**
Mr. Graham Moore, Executive Director, Alliance Water

10:15 AM **Break & Refreshments**

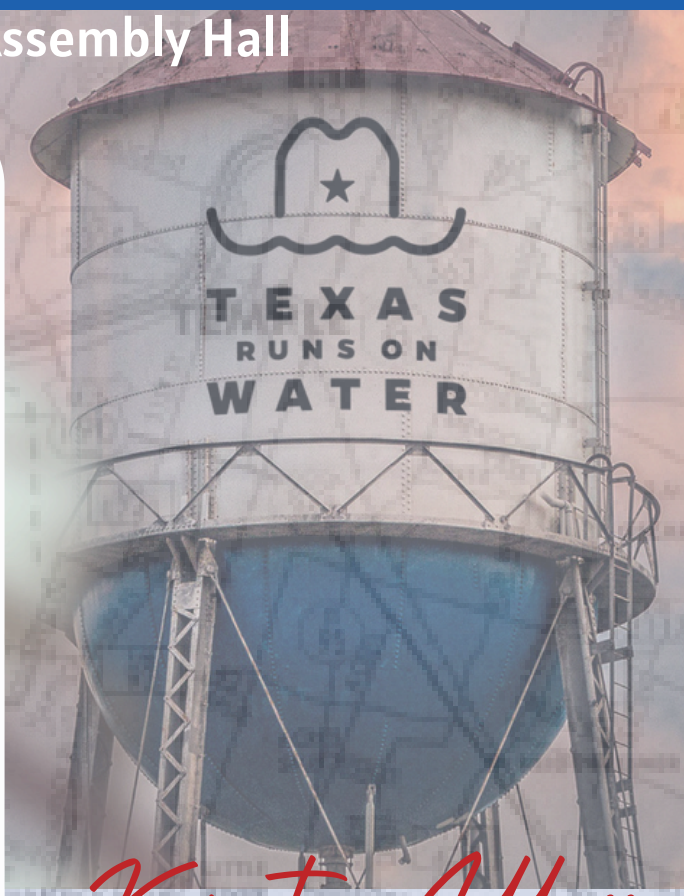
10:45 AM **Panel Discussion: Central Texas Water Alliance**
Sen. Pete Flores, District 24
Rep. Brad Buckley, District 54
Mr. Ricky Garrett, General Manager, WCID 1
Mr. Graham Moore, Executive Director, Alliance Water

11:30 AM **Bell County Groundwater Resources**
Mr. Dirk Aaron, General Manager, CUWCD
Mrs. Whitney Ingram, Asst. General Manager, CUWCD

12:00 PM **Lunch & Keynote Address**

1:30 PM **A Tale of Two Trinities**
Mr. Neil Deeds, Principal, INTERA, Inc.

2:15 PM **Cohesion in Water Planning for Rural Water Suppliers: Financial Assistance Programs**
Mr. Scott Galaway, Financial Assistance Programs Outreach, Texas Water Development Board



Keynote Address

Dr. Hal Needham
Extreme Weather & Disaster Scientist
Galveston, Texas

"Communication: The Last Frontier in Science"

Clearwater Underground Water Conservation District
Every drop counts!

THIS EVENT IS FREE BUT REQUIRES RSVP BY NOVEMBER 8TH.

Doors Open: 8:00 AM
Program: 9:00 AM - 3:00 PM

Cadence Bank Center
301 W Loop 121
Belton, TX 76513

RSVP
254.933.0120

Clearwater Underground Water Conservation District and Bell County would like to extend a special thank you to the sponsors of the 23rd Annual Bell County Water Symposium.

