2020 ANNUAL REPORT

Clearwater UWCD

Belton, Texas

www.cuwcd.org

Clearwater
Underground Water Conservation District
Every drop counts!

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 2020

The Annual Report for Fiscal Year 2020 (FY20) is presented to the Directors of the Clearwater Underground Water Conservation District (CUWCD or District) by May of the following Fiscal Year (May 2021). This report summarizes the activities and accomplishments of the District during FY20 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 2020 calendar year.

2019-2020 Board of Directors

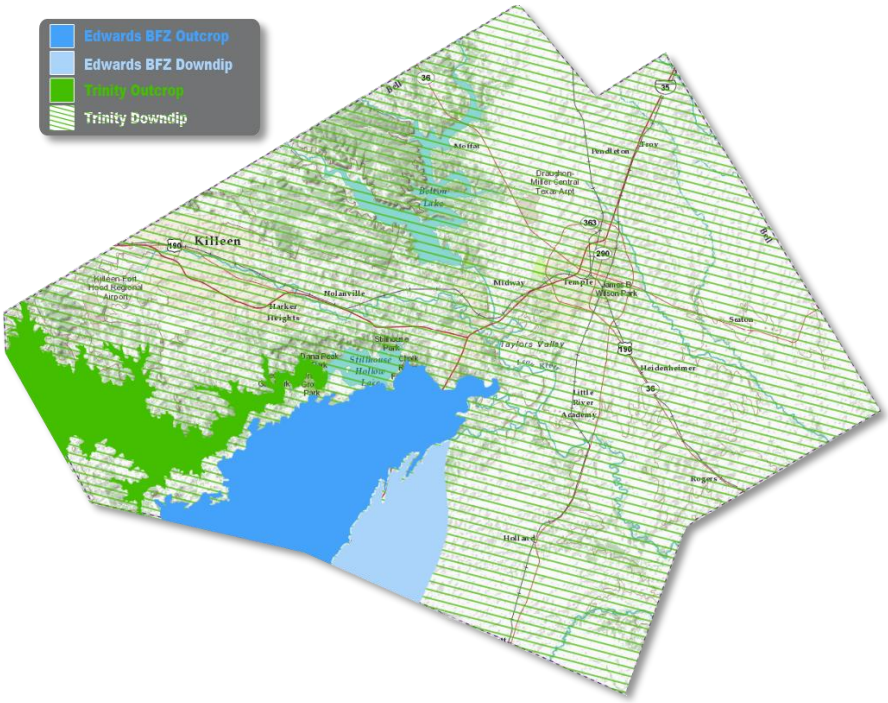
Jody Williams	Gary Young	Leland Gersbach	David Cole	Scott Brooks
Precinct 3	Precinct 2	Precinct 1	At-Large	Precinct 4

Contents

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 1st through September 30th. This report summarizes the accomplishments and activities of the District during FY20; but reflects registration, permitting, and production figures for the 2020 calendar year.

The District manages the groundwater resources from two major aquifers: The Trinity and The Edwards (BFZ) in Bell County, TX. 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. Groundwater Management Plan requirements include the required tasks and activities identified in the District's Groundwater Management 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.

In 2020, due to COVID-19, the District staff and board of directors developed a strategic plan to begin remote operations. On March 23, 2020, the General Manager closed the office to the public and District staff began remote operations. The General Manager maintained the office and virtual

meetings until staff returned on a limited basis in May and by June, the CUWCD office was fully staffed and operational. In August, the Board of Directors began meeting in person for the monthly meetings while all other attendees were virtually present. Since the start of COVID-19, the District installed hand sanitizing stations and has maintained social-distancing and extensive cleaning and disinfecting of office surfaces. Efforts have continued into 2021 to provide public access to the CUWCD office.

A. Contracts / Agreements

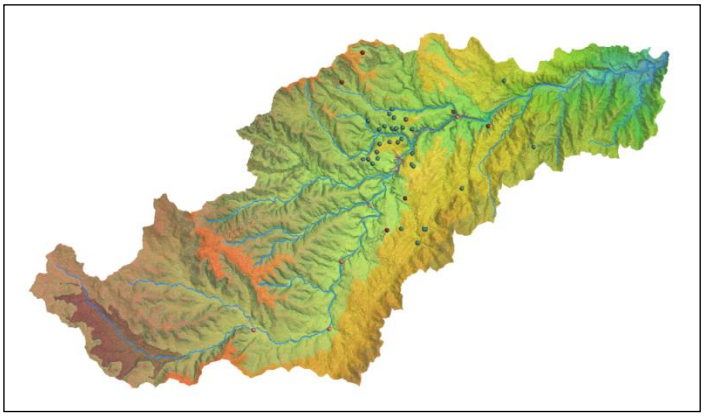
1. Technical Consulting Services

LRE Water, LLC / WSP, USA

Clearwater UWCD has continued with a professional services contract for general consulting with LBG-Guyton Associates that began in calendar year 2014 and included fiscal years FY14, FY15, FY16, FY17 and FY18. In January of 2018, LBG-Guyton was sold to WSP, USA. WSP, USA continues to provide technical representation of the district in GMA 8 relating to development of desired future conditions associated with required joint planning. In FY19, Clearwater UWCD began a professional services contract with LRE Water, LLC who provides administrative and technical reviews of drilling and operating permits along with investigative analysis of aquifer conditions and well construction complaints. This professional services contract continued in FY20.

Allan R. Standen, LLC

Clearwater UWCD maintains a professional services contract with Allan R. Standen LLC for general consulting services and the annual update of our 3D model. The 2020 updates included the addition of new geophysical and well drilling logs from throughout the county to the 3D model. 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.



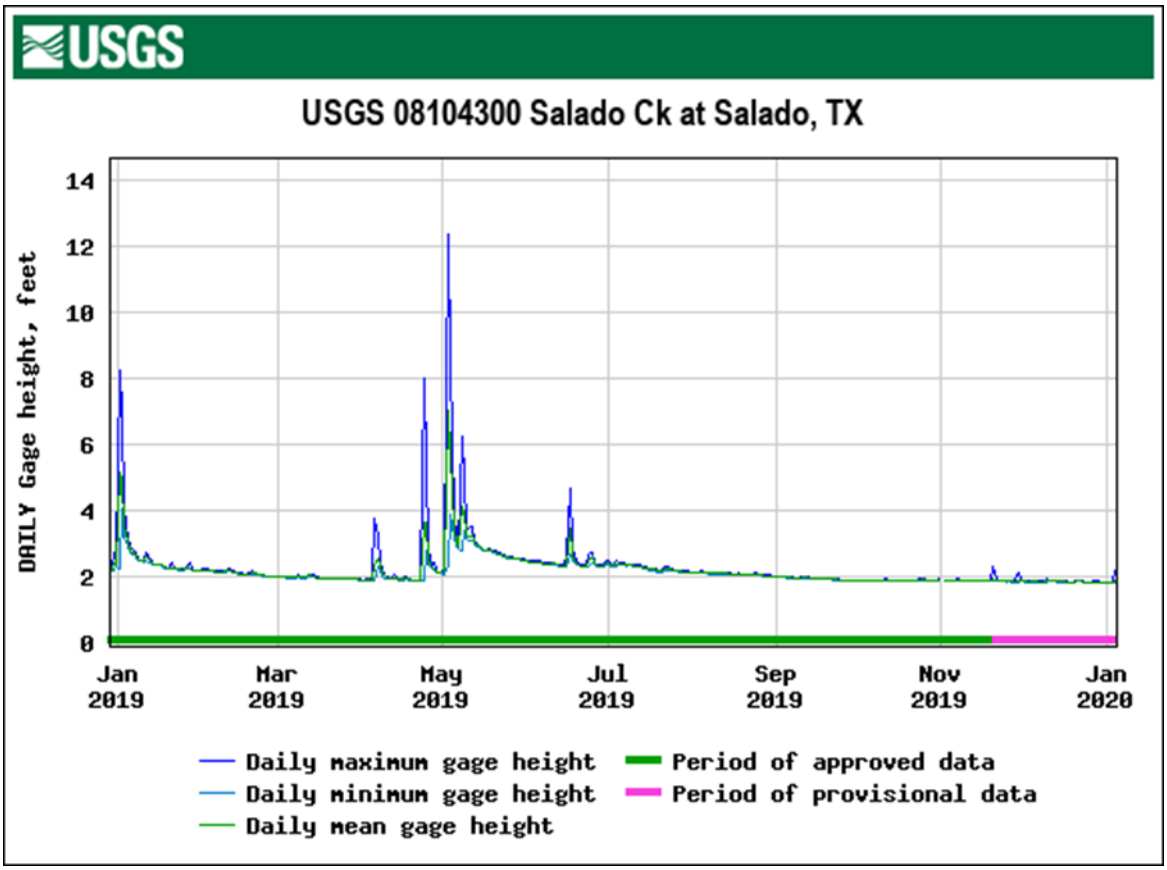
Salado Creek Watershed from Bell County 3D Groundwater Model

Halff Associates, Inc

Halff Associates, Inc. created and continues to manage the District's online GIS website. 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 along with ground level elevation of the well head and total depth of well. In 2020, Halff Associates continued technical support and hosting of the District's online GIS website.

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 2020, the system was continuously fine-tuned to ensure 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 2020 stream flow data taken by the gauging system in Salado Creek. The live data can be found online on our website: http://www.cuwcd.org/salado-springs/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. The overall goal for the proposed research is to gain a deeper understanding of the Northern Segment of the Edwards Aquifer. Specifically, knowledge of how much recharge occurs and the pathways that recharge takes to the aquifer will greatly assist groundwater resource management. An enhanced scientific understanding of the Northern Segment of the Edwards Aquifer will provide 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 and 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.

The studies the District has funded can be found on our website: 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 FY20 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 session.
- Representation of groundwater districts at Texas Water Conservation Association Groundwater Sub-Committee on Desired Future Conditions.
- Research and guidance on the listing of the Salado Salamander, the process for comments and support of CUWCD as they engaged as a stakeholder with the Bell County Adaptive Management Coalition.

3. Other Services

Bell County Adaptive Management Coalition

The Board entered into an interlocal agreement beginning in fiscal year 2012 that continued into fiscal year 2020. CUWCD, the Bell County Commissioners Court, Village of Salado, Salado Water Supply Corporation, Temple Area Builders Association and Billie Hanks, Jr. have collectively contributed $521,233.20 since 2012 to evaluate current science and to develop new science regarding the Edwards (BFZ) aquifer and the Salado Salamander habitat. Total expenditures for FY12 – FY20 are $440,903.07 leaving a balance of $3,054.51 to fund the FY21 studies. Funding has continued since 2015 by reimbursable task order to fund Pete Diaz's work on specie assessment. The District defends the position that regulating mechanisms are in place (by CUWCD) on spring flow to protect the specie.

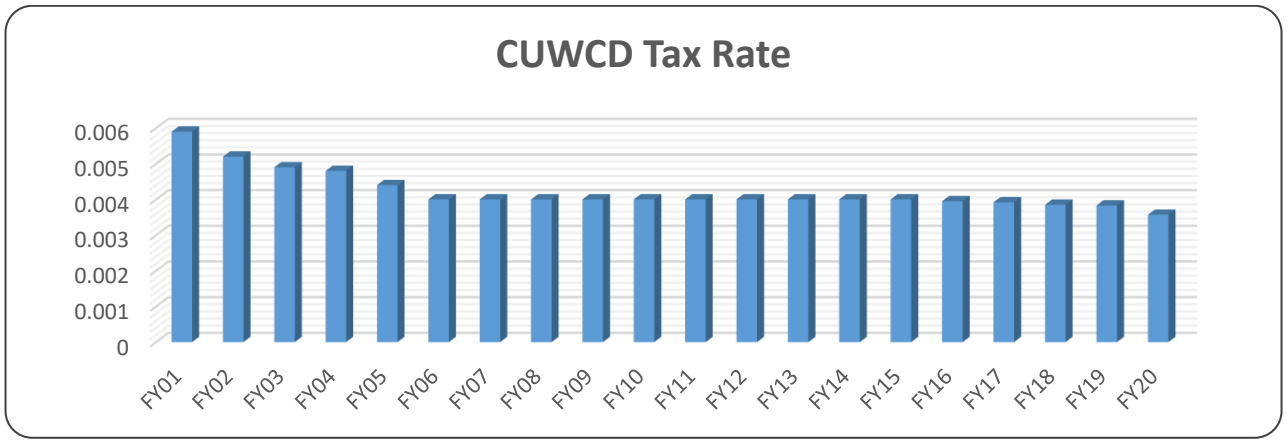
Alton D. Thiele, P.C.

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. Alton D. Thiele, P.C., Certified Public Accountant located in Belton, Texas provides the annual financial audit for the District. For more information, see section "B.2 Financial Audit" later in this report.

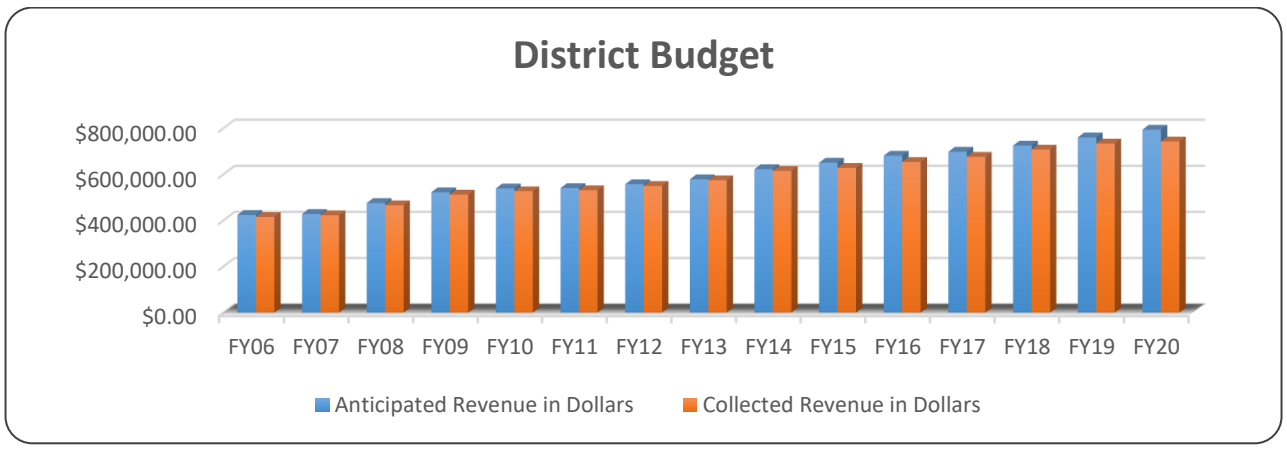
B. Financial Items

1. Budget and Tax Rate

The adopted tax rate for FY20 was $0.00357/$100 valuation. The Board voted to lower the tax rate for the fifth consecutive year. Since the inception of the District, the Board has consistently lowered or kept the same tax rate since it began assessing taxes. Two workshops (June and July) were held in 2019 to develop an operating budget for the upcoming fiscal year (FY20) and to set the corresponding ad valorem tax rate. The Board voted to lower the tax rate for FY20 to $0.00357/$100 valuation.



The original budget for FY20 was $793,499.00, actual income collected was $742,001.06. The FY20 budget was amended to $925,613.00. The original funds from the FY20 Reserve Funds were $27,114.00. The additional funds were moved from Reserves were $105,000.00. The adjusted income for FY20 was $874,115.06. The total expenditures for FY20 were $783,771.68. The Board prescribed closing the year with $90,343.38 being returned to the Reserve Fund.



The approved budget for FY20, 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. Alton D. Thiele, P.C., Certified Public Accountant

located in Belton, Texas provided the 2020 annual financial audit for the District. The audit began immediately at the closing of FY20 on September 30, 2020 and they concluded their audit and submitted their findings to the District in April 2021.

See Appendix B for FY20 Financial Audit.
Online: http://www.cuwcd.org/public-records/audits/

C. Miscellaneous Policies / Issues

1. District Rule Amendments

The Board of Directors last amended the District Rules in March 2016. The District has not addressed rules in preceding years at this time, but does annually review the current rules for potential changes should legislative mandates occur and/or until scientific evidence validates a need for such changes in management, policy and application.

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

2. Bylaws Revised

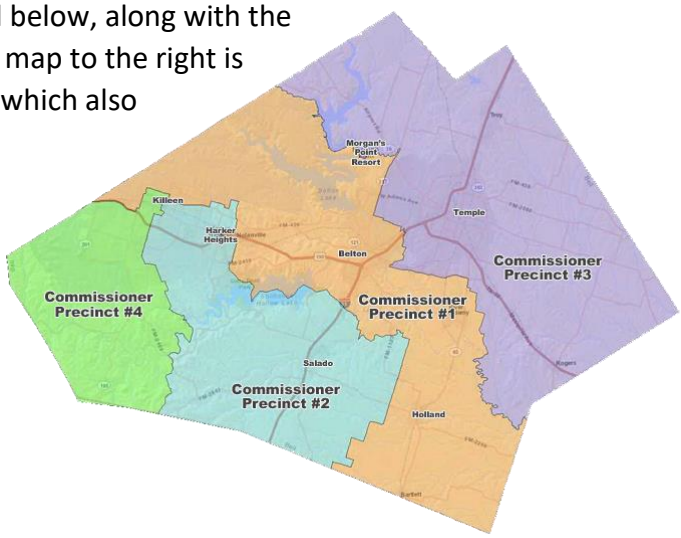
At the time the District Rules were amended, the rules that addressed the operations of the District were deleted and moved to the Bylaws. The Board of Directors approved the amendments to the Bylaws by resolution on April 13, 2016.

See our 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 2020 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

David Cole, Vice President – At Large

Gary Young, Secretary – Precinct 2

Jody Williams, Director – Precinct 3

Scott Brooks, Director – Precinct 4

2. Meetings – FY20 (Oct 2019-Sept 2020)

The Board of Directors held 14 Board meetings in FY20. The Workshops and regular Board meeting agendas included discussion and presentations on the topics listed below.

- Presentations by USGS Water Science Group
- Presentations by Baylor University regarding current status of the Edwards (BFZ) 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 DFC's. 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 was still required to review and update the current plan in 2020 and have 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 staff and Board of Directors are pleased to have the five-year renewal completed 14 days prior to expiration.

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

4. 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 their own objectives and performance standards.

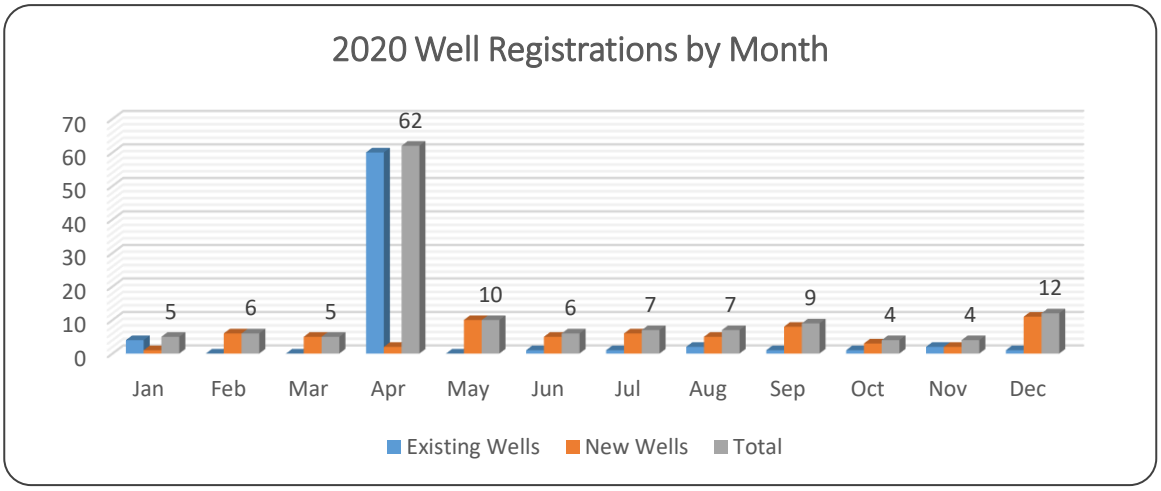
A. Providing the Most Efficient Use of Groundwater

1. Well Registrations

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

Objective Satisfied

During calendar year 2020, 137 wells were registered. The tables below summarize well registration and permitting activity from January 1, 2020 through December 31, 2020. Since 2018, District Staff has been conducting a robust search of all TWDB and TCEQ data bases to identify wells that have not been properly registered. The District's field technician follows-up with landowners to properly get the unregistered wells registered in the District's database. During calendar year 2020, 73 existing wells (blue columns) were registered and 64 new wells (orange columns) were registered.



Appendix C for Master Registration Table

2. Permitted Well Applications

Objective: Each year, the District 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

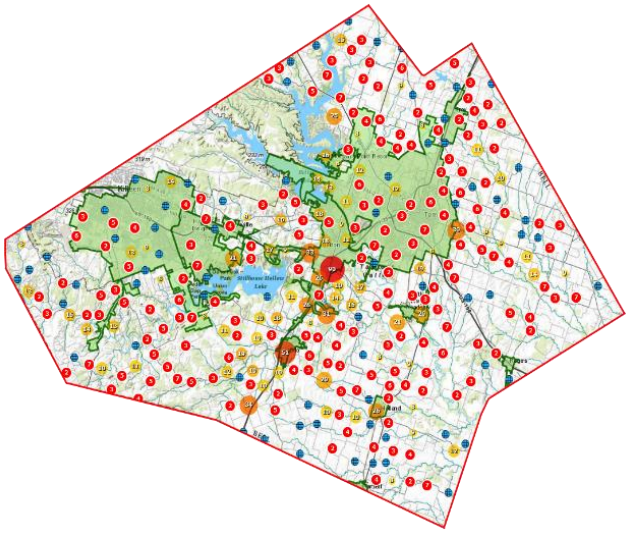
Of the 137 wells registered in 2020, only 13 of those were classified as non-exempt. The Table below summarizes the non-exempt wells or permits that were approved during 2020 and the corresponding permits that were issued where applicable.

Non-Exempt Permitted Well Registrations for 2020 Calendar Year

Well #	Land Owner	Ac-Ft / Year	Aquifer	Use	Permit Type
N1-20-001P	Dillman Trust	0.59	Edwards BFZ	Domestic	Drilling & Operating
N1-20-002P	Donald & Sheryl Rich	0.39	Edwards BFDZ	Domestic	Drilling & Operating
N2-20-001G	Richard Castle	0.67	Edwards BFZ	Industrial	Operating
N2-20-002P	Hines Texas LLC	4.14	Lower Trinity	Domestic	Drilling & Operating
N2-20-003P	Hines Texas LLC	4.14	Lower Trinity	Domestic	Drilling & Operating
N2-20-004P	Hines Texas LLC	4.14	Lower Trinity	Domestic	Drilling & Operating
N2-20-005P	Hines Texas LLC	4.14	Lower Trinity	Domestic	Drilling & Operating
N2-20-006G	ReddyLee LLC	9.97	Edwards Equivalent	Domestic	Operating

3. Groundwater Database

Objective: Each year, the District 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

The District maintains an online GIS system and works closely with Halff Associates, Inc. to provide web-based access to our ever-growing database of well information. Every well registered in the District is available in our database with latitude and longitude 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/

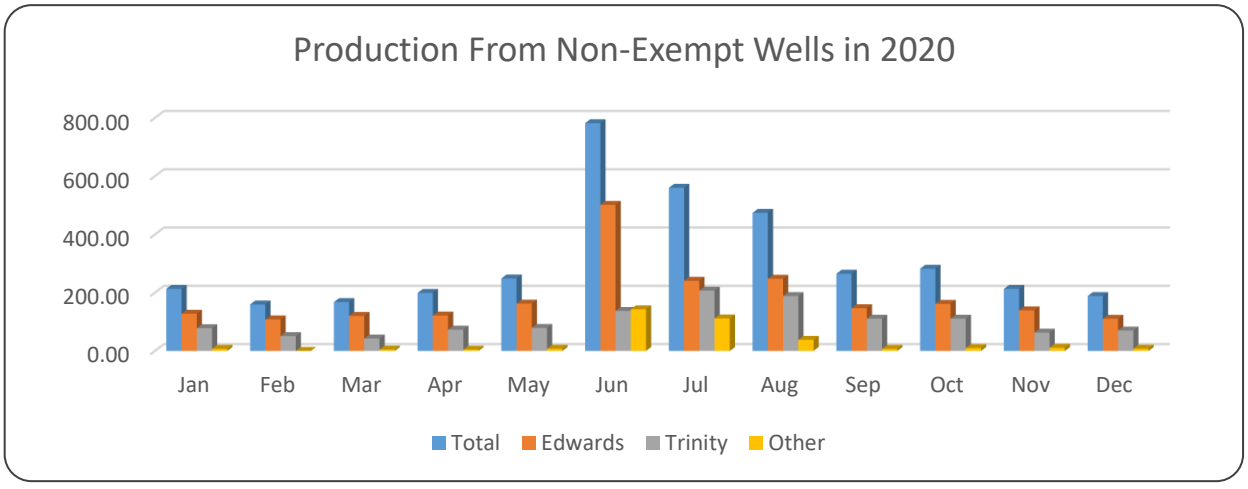
Non-exempt Well Production

The District continued collecting data from non-exempt wells during 2020. Monthly production reports are required by the 5th day of the following month for all wells with operating permits. The tables below show the total permitted amount for the non-exempt wells and their total production. In 2020, 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.

2020 Permitted Wells

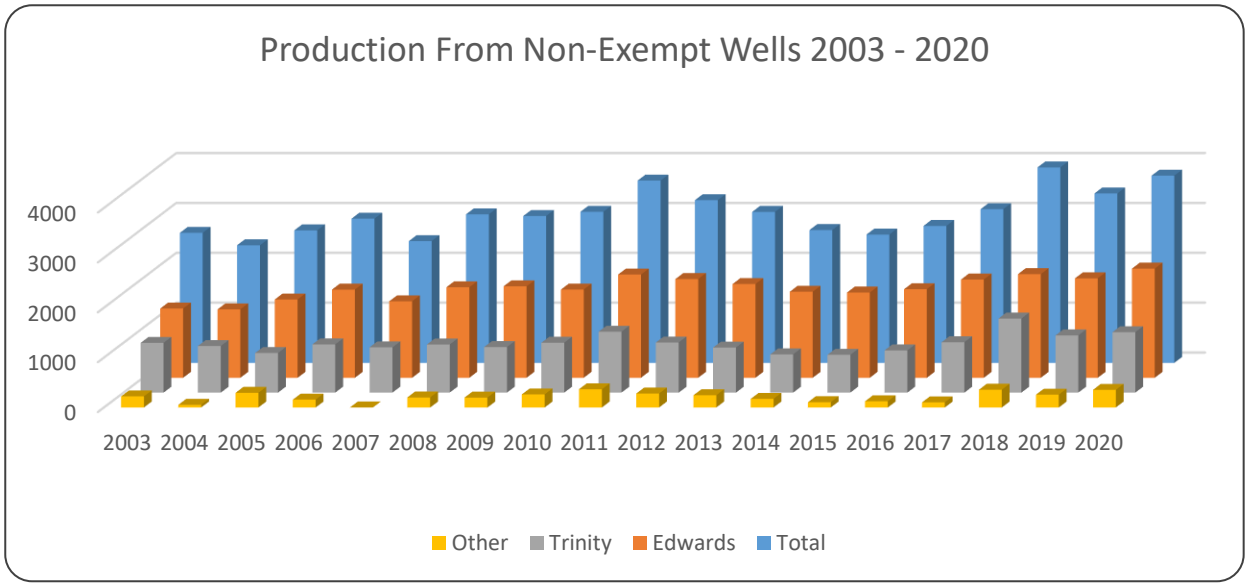
	Permitted Ac-Ft	# Permitted Wells	Actual Use Ac-Ft	# Active Permitted Wells	% Usage
Edwards (BFZ)	2,512.79	58	2189.47	46	87.13%
Trinity (total)	4,515.77	68	1,211.55	50	26.83%
Glen Rose	134.03	6	25.85	5	19.29%
Hensell	467.70	33	93.69	22	20.03%
Hosston	3,914.04	29	1,092.01	22	27.90%
Other Aquifers	588.47	21	353.17	16	60.01%
Total	7,617.03	147	3,754.19	112	49.29%

The following chart shows 2020 production by month and aquifer. Production was at its highest level during the month of June with a monthly withdrawal of 781.82 ac-ft. Throughout the year, withdrawals from the Edwards BFZ were consistently higher than from the Trinity aquifer. 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 of year.



In the following graph, production from 2020 (112 wells) is shown compared to production in years 2003 through 2020. Overall production in 2020 was 3,754.19 ac-ft which is slightly higher than the total production in 2019. The Edwards (BFZ) had a total production for 2020 of 2,189.47 ac-ft, total Trinity aquifer production was 1,211.55 ac-ft, and other formations produced 353.17 ac-ft of water.

See Appendix D for 2020 Well Production Report



Groundwater Transport

During 2020, six entities in Bell County transported groundwater outside the District. A total transport of 76.83 ac-ft. occurred from the Edwards BFZ aquifer and 160.91 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 $1,936.74 for 2020.

Entity	Aquifer	County	Ac-Ft	Gallons	Fee
Bell-Milam-Falls WSC	Lower Trinity	Falls, Milam, Williamson	28.46	9,274,195	$231.85
Central Texas WSC	Lower Trinity	Falls, Milam	128.72	41,944,832	$1,048.62
East Bell WSC	Lower Trinity	Falls	0.95	309,368	$7.73
Jarrell-Schwertner WSC	Edwards (BFZ)	Williamson	76.83	25,036,579	$625.91
Little Elm Valley WSC	Lower Trinity	Falls	1.87	609,235	$15.23
O&B WSC	Lower Trinity	Falls	0.91	295,997	$7.40
		TOTAL	237.74	77,470,206	$1,936.74

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 2015-2020

Entity	2020 Loss (% of water)	2019 Loss (% of water)	2018 Loss (% of water)	2017 Loss (% of water)	2016 Loss (% of water)	2015 Loss (% of water)
Armstrong WSC	19.00	19.00	18.00	11.12	15.74	15
Bell Co. WCID #2	15.00	14.00	11.10	9.20	8.34	11
Bell Co. WCID #5	2.81	24.71	16.72	20.97	10.64	14
Bell-Milam-Falls WSC	31.28	41.92	36.60	29.03	32.06	26
Central Texas WSC	8.00	9.00	8.00	8.30	9.25	NA
City of Troy	18.96	21.70	34.75	17.20	9.94	N/R*
East Bell WSC	10.74	14.42	16.21	12.54	8.23	14.64
Jarrell-Schwertner WSC	41.00	50.00	48.04	49.33	50.72	56.45
Little Elm Valley WSC	17.54	20.75	23.04	22.16	25.30	33
Moffat WSC	10.00	26.00	26.70	19.68	10.43	16
Oenaville/Bellfalls WSC	5.54	6.42	7.39	8.99	15.29	16.6
Pendleton WSC	21.51	22.03	24.43	20.30	23.94	17.23
Salado WSC	9.88	8.30	9.76	7.60	8.80	9.8

** 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, 2020. 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). Exempt well use estimate factors out all plugged, capped, monitor and inactive wells in the database.

2020 Exempt Well Production

	Reserved	Estimated Use*	# Wells
Edwards (BFZ)	825 ac-ft	357f ac-ft	833
Trinity	1,419 ac-ft	757 ac-ft	1,499
Other Aquifers	N/A	833 ac-ft	1,590
Total	2,244 ac-ft	1,948 ac-ft	3,922

** 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 2020 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)	2,189.47	87.13	357	43.27	2,546.47	39.36
Trinity	1,211.55	26.88	757	53.35	1,968.55	21.24
Other Aquifers	353.17	60.01	833	N/A	1,186.17	N/A
Total	3,754.19	49.29	1,948	49.64	5,701.19	28.69

The previous chart shows that overall, exempt wells account for approximately 49.64% of all the groundwater produced in Bell County. In the Trinity, 53.35% of production is attributed to exempt wells and in the Edwards BFZ, exempt wells account for 43.27% of groundwater production.

Overall, production from the Edwards BFZ aquifer accounts for 39.36% of total groundwater used in Bell County and the Trinity aquifer accounts for 21.24% 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	2,209.70	303.09	3,131.21
Trinity	9,266	1,419	7,847	1,502.60	3,013.17	3,331.23
Paluxy	0			0	0	0
Glen Rose (Upper)	974	693	281	61.90	72.13	146.97
Hensell (Middle)	1,099	548	551	259.30	208.40	83.30
Hosston (Lower)	7,193	178	7,015	1,181.40	2,732.64	3,100.96

** 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 2020 Edwards and Trinity Aquifer Status Reports

4. Annual Newsletter

Objective: Each year, the District will disseminate educational information on groundwater through publication of a District newsletter.

Objective Satisfied

Annually, the District publishes a newsletter and mails it to registered well owners in Bell County. In 2020 the total number of newsletters printed were 3,300 with 3,082 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.

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

B. Controlling and Preventing Waste of Groundwater

Outreach and Education

Objective: Each year, the District 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.

Objective Satisfied

District staff is available to speak to any group within our geographical boundaries. In 2020, District staff reached over 822 adults and children in Bell County directly through presentations and making contact at event booths before COVID-19 stopped all educational events for the remainder of the year. We often give power point presentations to adult groups explaining the District and how we function along with covering important water topics like conservation and watershed management.

In the classroom, we provide the Major Rivers curriculum and give supporting presentations with an Enviroscape watershed model and rainfall simulator. We make sure to always have handouts for the kids like color changing pencils, rulers and cups that change color when cold water is poured in. All handouts are branded with district information and most items have water conservation tips printed on them.

See Appendix H for Education and Outreach Events.

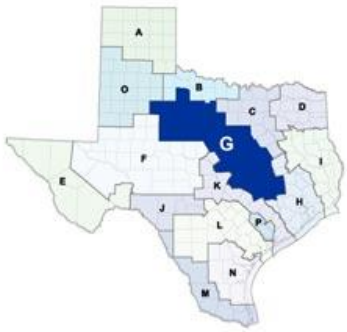
C. Addressing Conjunctive Surface Water Management Issues

Regional and Joint Planning Process Participation

Objective: Each year, the District 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

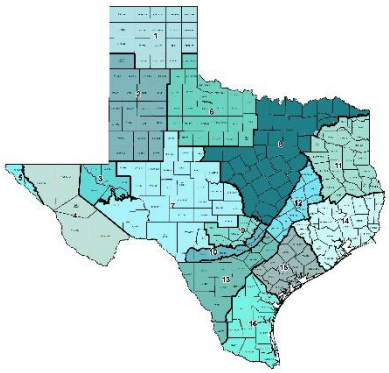
During FY20, District General Manager Dirk Aaron attended the scheduled meetings listed below. Dirk Aaron was also elected by the GMA8 Membership to represent the Groundwater Management Area as an appointed member of Region G. Dirk also serves on the Brazos G Scope of Work Committee.



November 10, 2019	Attended	February 26, 2020	Attended
December 18, 2019	Attended	August 12, 2020	Attended
February 12, 2020	Attended	September 9, 2020	Attended

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

In addition to the regional planning group, District General Manager Dirk Aaron and Director Gary Young also attended the meetings for Groundwater Management Area 8. Groundwater Management Areas were created in order 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.



November 22, 2019	Attended	May 15, 2020	Attended
February 26, 2020	Attended	August 7, 2020	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 the District will monitor water quality within the District by obtaining water samples from wells and testing the water quality of at least 6 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 FY20, the staff conducted screening on 102 groundwater samples. 39 samples tested were from the Edwards (BFZ) aquifer, 2 samples from the Upper Trinity, 43 samples from the Middle Trinity, 5 samples from the Lower Trinity, and 13 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 FY20, no samples were sent out for certified testing.

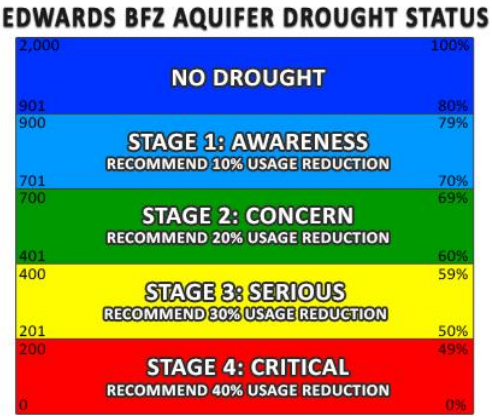
A summary of the well screening results are shown in Appendix I.

E. Addressing Drought Conditions

The District's 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 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 year, the District 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 for a period of 28 consecutive days and shall be reduced or terminated when the PDI is greater than the trigger condition exceeding for a period of 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.

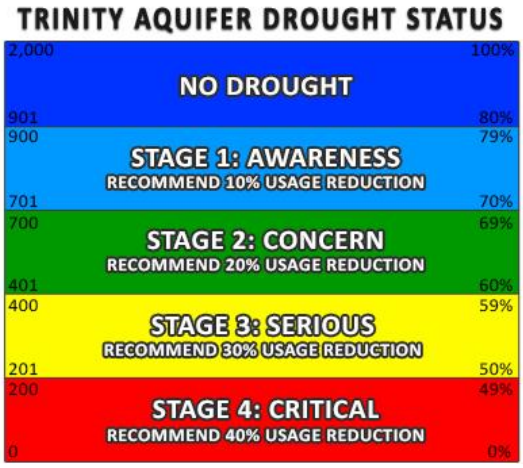
Online: http://www.cuwcd.org/regulatory-program/drought-management/edwards-drought-management-plan/

Below are the declared stages during the fiscal year.

Date	Declared Drought Stage	Salado Creek Acre ft/Month	Salado Creek CFS	PDI Total	PDI % Total
10/14/2019	No Drought	1,104.39	18.56	39.33	119.17
11/10/2019	No Drought	1,082.97	18.2	34.62	104.89
12/8/2019	No Drought	1,110.35	18.66	32.04	97.08
1/6/2020	No Drought	1,398.35	23.5	28.42	86.12
2/9/2020	No Drought	958.02	16.1	29.79	90.29
3/12/2020	No Drought	1,259.11	21.16	33.36	101.11
3/29/2020	No Drought	2,437.29	40.96	35.35	107.13
5/7/2020	No Drought	1,406.68	23.64	28.07	86.99
6/7/2020	No Drought	1,027.04	17.26	29.52	89.46
7/5/2020	Stage 1 Drought	736.66	12.38	25.14	77.31
7/10/2020	Stage 1 Drought	736.66	12.38	25.14	77.31
7/18/2020	Stage 1 Drought	841.39	14.14	25.135	76.16
8/2/2020	Stage 2 Drought	642.64	10.08	25.75	78.03
8/9/2020	Stage 2 Drought	467.82	7.86	25.66	77.74
8/17/2020	Stage 2 Drought	413.08	6.94	25.66	77.74

8/24/2020	Stage 2 Drought	491.62	8.26	26.12	79.14
9/14/2020	Stage 2 Drought	967.54	16.26	30.15	91.35

2. Monitor Drought Conditions in the Trinity Aquifer



Objective: Each year, the District 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 for a period of 28 consecutive days and shall be reduced or terminated when the PDI is greater than the trigger condition exceeding for a period of 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
10/14/2019	No Drought	42.22	127.92
11/10/2019	No Drought	36.81	111.53
12/8/2019	No Drought	33.89	102.72
1/6/2020	No Drought	29.62	89.75
2/9/2020	No Drought	30.83	93.43
3/12/2020	No Drought	34.12	103.40
3/31/2020	No Drought	36.01	109.13
5/7/2020	No Drought	30.40	92.12
6/7/2020	No Drought	30.42	92.16
7/5/2020	Stage 1 Drought	25.84	78.30
7/10/2020	Stage 1 Drought	25.84	78.30
7/18/2020	Stage 1 Drought	25.41	77.00
8/2/2020	Stage 1 Drought	26.44	80.12
8/9/2020	Stage 1 Drought	26.24	79.51
8/23/2020	Stage 1 Drought	26.24	80.11

9/14/2020	Stage 1 Drought	32.45	98.33

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

1. Conservation

Objective: Each year, the District will promote conservation by conducting an annual scholastic contest on water conservation or distributing conservation brochures/literature to the public.

Objective Satisfied

The District's Groundwater Management Plan requires promotion of conservation by one outreach method/activity. During 2020, the District exceeded this requirement by March, just before COVID-19 began. The District was able to reach over 822 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, prior to the Governor's lockdown. 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, the District will promote rainwater harvesting by posting information on rainwater harvesting on the District web site.

Objective Satisfied

The District's Groundwater Management Plan requires 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 J.

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 K.

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 L.

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

1. Salado Springs

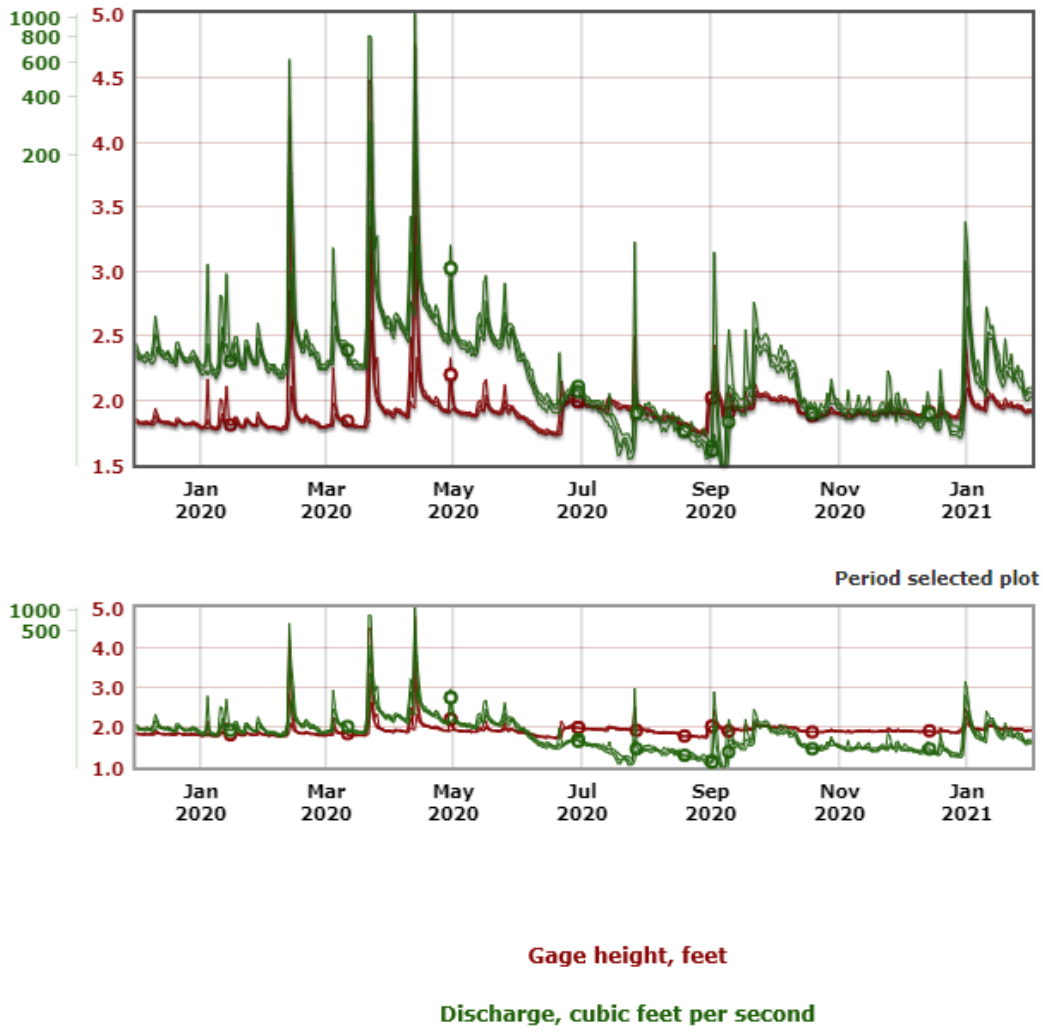
Objective: Each year, the District will include a summary of the monthly average discharge rate of Salado Springs and a discussion of the conservation measures implemented (if any are necessary) to avoid impairment of the Desired Future Conditions for the Edwards aquifer established by GMA-8, in the Annual Report to the Board of Directors.

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/

The image on the next page is a screen shot of the spring flow data for the calendar year 2020.

Salado Creek – USGS 08104300



2. (a) Static Water Level Measurements

Objective: Each year, the District will collect at least 5 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.

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 2020, the District took 10 water level measurements from 59 wells.

The District has been increasing continuous monitor well locations throughout Bell County, thus some wells have very little historical information. Adding these wells is essential to have a broader spectrum of data to analyze in future years. The District has 13 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 M.

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 subdivision for which a Desired Future Condition is established by GMA-8.

Objective Satisfied

The District prepares a monthly status report (Appendix F – Trinity Aquifer Status Report 2019) 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.

5. 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 2020.

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.

According to records from the Texas Department of Licensing and Regulation, during 2020 a total of 5 wells were plugged in Bell County.

B. Bell County Water Symposium

Clearwater UWCD had to forgo the Annual Water Symposium this year due to COVID-19. The District plans to host the event again in November 2021.

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

C. Internet Site

The District's web site continues to grow on a monthly basis. The web site contains general information about the District and Board of Directors along with a calendar of events and meeting agendas. Press releases and other water related articles are posted to continually provide water related resources to the residents of Bell County.

Below are some highlights of the website available to the public:

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

The website can be viewed at http://www.cuwcd.org

6. Summary

Based on the leadership of the Board of Directors and management under the executive direction 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 data base management for the District records.

The District staff has expanded the educational efforts in a partnership with Texas A&M AgriLife Extension, Master Naturalist, and Master Gardener programs. Strategies include: an education trailer (mobile classroom), classroom curriculum, science day events, field days, Earth Day events, and informative presentations for civic organizations.

Clearwater UWCD has maintained the relationships with Bell County, the Village of Salado, USGS, and Baylor University to continue efforts to better understand the Edwards BFZ Aquifer and its complex of springs and recharge features. Knowing that the Salado Salamander is designated as threatened by USFWS, validated the continued need to better understand the habitat and identified threats. Maintaining the regulatory system of protecting the spring flow has been validated by the USFWS decision to list the salamander as threatened rather than endangered. The 2015, 2016 and 2017 final reports from USFWS can be found on our website at http://www.cuwcd.org/salado-springs/salado-salamander/.

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 DFC rather than simply to the MAG. The District continues to monitor over 50 wells in both the Trinity and Edwards (BFZ) Aquifers.

Appendix A

Clearwater Underground Water Conservation District
Adopted Budget FY2020

8/29/2019

REVENUE	
Application Fees	30,000.00
Bell CAD Current Year Tax	734,499.00
Bell CAD Deliquent Tax	12,500.00
Interest Income	15,000.00
Transport Fee Income	1,500.00
Total Income	**793,499.00**
Gross Profit	**793,499.00**
EXPENDITURES	
Administrative Expenses	
Audit	7,200.00
Conferences & Prof Development	4,000.00
Contingency Fund	0.00
Director Expenses	7,500.00
Director Fees	12,750.00
Dues & Memberships	2,750.00
Election Expense	500.00
GMA 8 Expenses	10,000.00
Meals	1,000.00
Mileage Reimbursements	5,000.00
Travel & Hotel	4,500.00
Total Administrative Expenses	**55,200.00**
Salary Costs	
Administrative Assistant	48,161.00
Educational Coord/Support Tech	41,000.00
Manager	82,243.00
Part Time/Intern	2,640.00
Office Assistant/Field Tech	40,000.00
Health Insurance	41,274.00
Payroll Taxes & Work Comp	17,500.00
Retirement	9,513.00
Payroll Expenses	125.00
Freshbenies	432.00
Total Salary Costs	**282,888.00**
Operating Expenses	
Bank Service Charges	50.00
Advertisement	3,500.00
Appraisal District	8,000.00
Clearwater Studies	247,300.00
Spring Flow Gage System	15,900.00
Computer Consulting	36,200.00
Computer Licenses/Virus Prtctn	1,500.00
Computer Repairs and Supplies	1,500.00
Computer Software & Hardware	5,500.00
Copier/Scanner/Plotter	6,000.00
Educational Outreach/Marketing	21,500.00
Furniture & Equipment	1,500.00
Legal	38,000.00
Office Supplies	3,000.00
Permit Reviews	30,000.00
Postage	2,500.00
Printing	2,500.00
Reserve for Uncollected Taxes	20,000.00
Subscriptions	900.00
Mobile Classroom Expense	2,000.00
Vehicle Expense	4,000.00
Total Operating Expenses	**451,350.00**
Total Facility Costs	**21,975.00**
Total Utilities	**9,200.00**
Total Expenditures	**820,613.00**
Net Ordinary Income	**-27,114.00**
Other Income	
Reserve Funds from Prior Years	27,114.00
Total Other Income	27,114.00
Net Other Income	27,114.00
Net Income	**0.00**

For a detailed copy of the FY19 Budget, please contact CUWCD at 254-933-0120

RESOLUTION AND ORDER
OF THE BOARD OF DIRECTORS OF THE CLEARWATER
UNDERGROUND WATER CONSERVATION DISTRICT
MEETING HELD AUGUST 28, 2019

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 28rd day of August 2019, whereupon the roll was called of the members of the Board of Directors, to wit:

Leland Gersbach	President
David Cole	Vice President
C. Gary Young	Secretary
Scott A. Brooks	Director
Jody Williams	Director

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

WHEREUPON, among other business conducted by the Board, Director **David Cole** 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, 2019, through September 30, 2020, and determined what tax rate should be set to meet such budget requirements;

WHEREAS, the appraisal roll of the District for 2019 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 2019 shall be $0.00357 per one hundred dollars ($100) of assessed valuation. Be it known that this 2019 tax rate is less than last year's $0.00383 per $100 of assessed valuation, but this rate will increase total taxes in Clearwater by 1.71%, or $0.10 on the average appraised value of a residence at $152,316.

THIS TAX RATE WILL RAISE MORE TAXES FOR MAINTENANCE AND OPERATIONS THAN LAST YEAR'S TAX RATE. THIS TAX RATE WILL NOT REDUCE TAXES FOR MAINTENANCE AND OPERATIONS ON A $100,000 HOME.

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 $0.00357 per $100 valuation for 2019 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 28rd day of August, 2019.

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

By: _____
Leland Gersbach, Board President (or)
David Cole, Board Vice President

ATTEST:

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

Appendix B

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

COMMUNICATIONS WITH THOSE CHARGED WITH GOVERNANCE

SEPTEMBER 30, 2020

ALTON D. THIELE, P.C.
CERTIFIED PUBLIC ACCOUNTANT
300 E. AVENUE C
P.O. BOX 808
BELTON, TX 76513-0808

ALTON D. THIELE, P.C.

Certified Public Accountant
300 East Avenue C
P. O. Box 808
Belton, Texas 76513-0808

April 11, 2021

To the Board of Directors
Clearwater Underground Water Conservation District
700 Kennedy Ct.
PO Box 1989
Belton, TX 76513

We have audited the basic financial statements of Clearwater Underground Water Conservation District (the District) as of and for the year ended September 30, 2020. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards and *Government Auditing Standards*, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter dated September 1, 2020. Professional standards also require that we communicate to you the following information related to our audit.

Significant Audit Findings
Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by Clearwater Underground Water Conservation District are described in NOTE 1 to the financial statements. The application of existing policies was not changed during the fiscal year ended September 30, 2020. We noted no transactions entered into by the District during the year for which there is a lack of authoritative guidance or consensus. All significant transactions, that we are aware of, have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. The two most sensitive estimates affecting the financial statements were:

> Management's estimate of the useful lives of its capital assets is significant due to the very nature of determining how long an item might last. We evaluated the key factors and assumptions used to develop these estimates in determining that it is reasonable in relation to the financial statements taken as a whole.
>
> Management's estimate of the budget of the District is significant due to the changing needs of the district and the changing property tax base within the District boundaries. We evaluated the key factors and assumptions used to develop these estimates in determining their reasonableness in relation to the financial statements taken as a whole.

The financial statement disclosures are neutral, consistent, and clear.

Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing and completing our audit

Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are trivial, and communicate them to the appropriate level of management. Management has corrected all such misstatements. In addition, none of the misstatements detected as a result of audit procedures and corrected by management were material, either individually or in the aggregate, to the financial statements taken as a whole.

Disagreements with Management

For purposes of this letter, professional standards define a disagreement with management as a financial accounting, reporting or auditing matter, whether or not resolved to our satisfaction that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have requested certain representations from management that are included in the Management Representation Letter dated April 11, 2021.

Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the District's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the District's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition of retention.

Other Matters

With respect to the supplementary information accompanying the financial statements, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

This information is intended solely for the use of the Board of Directors and Management of Clearwater Underground Water Conservation District and is not intended to be, and should not be, used by anyone other than these specified parties.

Very truly yours,

Alton D. Thiele, P.C.
Belton, TX

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

BASIC FINANCIAL STATEMENTS AND INDEPENDENT AUDITORS' REPORT

SEPTEMBER 30, 2020

ALTON D. THIELE, P.C.
CERTIFIED PUBLIC ACCOUNTANT
300 E. AVENUE C
P.O. BOX 808
BELTON, TX 76513-0808

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
TABLE OF CONTENTS

ALTON D. THIELE, P.C.
CERTIFIED PUBLIC ACCOUNTANT
300 EAST AVENUE C
P.O. BOX 808
BELTON, TX 76513-0808

INDEPENDENT AUDITORS' REPORT

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

We have audited the accompanying financial statements for the governmental activities and the aggregate remaining fund information of the Clearwater Underground Water Conservation District (the District), as of and for the year ended September 30, 2020, which collectively comprise the District's basic financial statements as listed in the table of contents, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes 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.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. 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. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements 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 the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the net position of the governmental activities and the aggregate remaining fund information of Clearwater Underground Water Conservation District, as of September 30, 2020, and the respective changes in fund balances in conformity with accounting principles generally accepted in the United States of America.

Report Issued In Accordance with *Government Auditing Standards*

In accordance with *Government Auditing Standards,* we have also issued our report dated April 13, 2021, on our consideration of the District's internal control over financial reporting (internal control) and on our tests of its compliance with certain provisions of laws, regulations, contracts, and other matters. The purpose of that report is 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 internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* and should be considered in assessing the results of our audit.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on pages 3 through 5 and budgetary comparison information on page 16 be presented to supplement the financial statements. Such information, although not a required part of the basic financial statements, is required by the Governmental Accounting Standards Board (GASB), 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

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the District's basic financial statements. The Texas Supplementary Information, on pages 18 through 21, is presented for purposes of additional analysis and is not a required part of the basic financial statements of the District. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and, in our opinion, is fairly presented in all material respects, in relation to the basic financial statements taken as a whole.

Belton, Texas
April 13, 2021

The management of the Clearwater Underground Water Conservation District (the District) offers readers of the District's annual financial report this narrative overview and analysis of the District's financial performance during the fiscal year ended September 30, 2020. This discussion and analysis is intended to be an easily readable analysis of the District's financial activities based on currently known facts, decisions, and conditions. Please read it in conjunction with the Independent Auditors' Report and the District's basic financial statements and the related notes.

FINANCIAL HIGHLIGHTS

The District's total net position,	$ 1,413,738
Cash and investments,	$ 829,822
Capital assets, net of accumulated depreciation	$ 561,541
Total tax revenues,	$ 716,198
Operational expenditures,	$ 819,438

OVERVIEW OF THE FINANCIAL STATEMENTS

This annual financial report consists of, but is not limited to, the following: Management's Discussion and Analysis (this section, which is intended to serve as an introduction to the basic financial statements), the basic financial statements, and the related notes to the financial statements. The District is a governmental entity and follows the accrual basis of fund accounting for a governmental entity. The District is funded primarily by property tax revenue from within the District's boundaries to provide a means by which underground water is controlled and monitored throughout the District.

REPORT LAYOUT

In addition to the Management's Discussion and Analysis (MD&A) (pages 3-5), the report consists of basic financial statements, notes to the financial statements, required supplementary information and supplementary information. The basic financial statements are highly condensed and present a government-wide view of the District's finances.

The *Government-wide Financial Statements* (pages 6–9) are designed to be more corporate-like in that all activities are consolidated into a total for the District. The *Statement of Net Position* presents information on all District assets and liabilities, with the difference between the two reported as net position. The *Statement of Activities* presents information about the District's revenues and expenses regardless of when cash is received or paid.

The Fund Financial Statements (presented in conjunction with Government-wide Financial Statements, pages 6-9) are a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. The District, like other state and local governments, uses fund accounting to ensure and demonstrate compliance with finance-related legal requirements. All funds of the District can be divided into two categories: governmental funds and proprietary funds. However, there were no proprietary funds. Fund financial statements, unlike government-wide financial statements, focus on near-term inflows and outflows of spendable resources, as well as on spendable resources available at the end of the fiscal year.

The *Notes to the Financial Statements* (pages 10-14) provide additional information that is essential to a full understanding of the data provided in the government-wide basic financial statements. Required and other supplemental information (pages 16-21) is also provided for additional information and analysis.

FINANCIAL ANALYSIS OF THE DISTRICT

Statement of Net Position: The following table summarizes the net position of the District

	2020	2019	Change
Assets			
Current Assets	$ 855,497	$ 894,377	$ (38,880)
Capital Assets, net of accumulated depreciation	561,241	592,189	(30,948)
Total Assets	1,416,738	1,486,566	(69,828)
Liabilities			
Current Liabilities	35,778	9,432	26,346
Total Liabilities	35,778	9,432	26,346
Net Position			
Net Investment in Capital Assets	592,190	592,189	1
Unrestricted	785,770	884,945	(99,175)
Total Net Position	1,377,960	1,477,134	(99,174)
Prior Period Adjustment	-	-	-
Total Net Position, as adjusted	1,377,960	1,477,134	(99,174)
Total Liabilities, Deferred Inflows and Net Position	$ 1,413,738	$ 1,486,566	$ (72,828)

Statement of Activities: The following table summarizes the changes in net position

	2020	2019	Change
Tax Revenue	$716,199	$697,850	$18,349
Interest and Other Revenues	25,802	28,774	(2,972)
Expenditures	(819,438)	(613,054)	(206,384)
Change in Net Position	$(77,437)	$113,570	$(191,007)

As shown in the above information, the District decreased financially, overall with an decrease in net position of $72,828. Operational expenditures were $819,438, which includes decrease in legal costs and increase in studies costs. There were no additional capital outlays and depreciation of $30,949 which created a decrease in net investment in capital assets.

BUDGETARY HIGHLIGHTS

Actual tax revenues received were less than the budgeted tax revenues by $30,800 or 4%. However, actual operational expenditures were 12% less than budgeted expenditures. This resulted in an increase in fund balance of $16,055. The budget was legally adopted according to established guidelines and the Board of Directors legally adopted amendments to individual budget items during the fiscal year. (See page 16 for details)

CAPITAL ASSETS

During the year, no capital expenditures were made, so that at September 30, 2020, the District had a net decrease in Capital Assets of $30,949. The Net Investment in Capital Assets, net of depreciation and related debt, at fiscal year-end was $561,241.

Additional information regarding Capital Assets can be found in the notes to the financial statements. (Note-3, page 13)

DEBT OUTSTANDING

The District had no long-term debt as of the fiscal year ended September 30, 2020.

ECONOMIC FACTORS AND NEXT YEAR'S BUDGET AND RATES The District's property tax rate for the 2020/2021 fiscal year (FY20-21) was lowered to $0.003272 per $100 valuation. The estimated taxable property value is $22,630,374,553 for total expected tax revenue of $740,463. Other Income and delinquent property taxes is estimated at $54,7400. The District's budgeted expenditures for FY 20-21 are expected to be $795,203.

FINANCIAL CONTACT

The District's financial statements are designed to present users (citizens, taxpayers, creditors, and regulatory agencies) with a general overview of the District's finances and to demonstrate the District's accountability. If you have questions about the report or need additional financial information, please contact the District Manager at 700 Kennedy Ct., PO Box 1989, Belton, TX 76513.

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
STATEMENT OF NET POSITION AND BALANCE SHEET - GOVERNMENTAL FUNDS

SEPTEMBER 30, 2020

	General Fund	Total	Adjustments	Statement of Net Position
ASSETS				
Cash in Banks	$ 15,306	$ 15,306	$ -	$ 15,306
Invested Funds	814,516	814,516	-	814,516
Receivables:				
Taxes	22,425	22,425	-	22,425
Other	250	250		250
Capital Assets Not Being Depreciated:				
Land	-	-	59,981	59,981
Capital Assets (net of accumulated depreciation):				
Infrastructure	-	-	501,260	501,260
Total Assets	$ 852,497	$ 852,497	$ 561,241	$ 1,413,738
LIABILITIES				
Liabilities				
Current and Non-current	$ -	$ -	$ 13,353	$ 13,353
Total Liabilities	-	-	13,353	13,353
DEFERRED INFLOWS OF RESOURCES				
Property Tax Revenue	22,426	22,426	(22,426)	-
FUND BALANCE				
Fund Balances				
Unassigned	830,071	830,071	(830,071)	-
Total Fund Balance	830,071	830,071	(830,071)	-
Total Liabilities, Deferred Inflows of Resources and Fund Balance	$ 852,497	$ 852,497		
NET POSITION				
Net Investment in Capital Assets			592,189	592,189
Unreserved			821,549	821,549
Total Net Position			$ 1,413,738	$ 1,413,738

The accompanying notes are an integral part of these financial statements.
See Independent Auditors' Report.

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
RECONCILIATION OF THE BALANCE SHEET - GOVERNMENTAL FUNDS TO THE STATEMENT OF NET POSITION
SEPTEMBER 30, 2020

Total Fund Balances for Governmental Funds (Page 6)		$ 830,071
Total Net Position Reported for Governmental Activities in the Statement of Net Position is Different Because:		
Capital assets used in governmental acitivites are not financial resources and therefore are not reported in the funds. Those assets consist of:		
Land	59,981	
Buildings, Equipment and Infrastructure	709,481	
Accumulated Depreciation	(208,221)	
Net Capital Assets		561,241
Some revenues in the governmental fund are deferred because they are not collected within the prescribed time period after year-end. On the accrual basis, however, those revenues would be recognized, regardless of when they are collected.		22,426
Total Net Position of Governmental Activities (Page 6)		$ 1,413,738

The accompanying notes are an integral part of these financial statements.
See Independent Auditors' Report.

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
STATEMENT OF ACTIVITIES AND REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - GOVERNMENTAL FUNDS AND NET POSITION
FOR THE YEAR ENDED SEPTEMBER 30, 2020

	General Fund	Total	Adjustments	Statement of Activities
EXPENDITURES				
Operations				
Director Fees	$ 8,250	$ 8,250	$ -	$ 8,250
Administrative	36,110	36,110	-	36,110
Compensation and Benefits	278,425	278,425	3,923	282,348
Depreciation	-	-	30,949	30,949
Facilities Costs	15,243	15,243		15,243
Clearwater Studies	287,509	287,509	-	287,509
Educational Outreach/Marketing	10,099	10,099	-	10,099
Spring Flow Gage System	15,900	15,900	-	15,900
Legal and Professional	41,025	41,025	-	41,025
Utilities	8,263	8,263	-	8,263
Other Operating Expenditures	83,741	83,741		83,741
Total Expenditures	784,565	784,565	34,872	819,437
REVENUES				
General Revenues				
Property Taxes	716,887	716,887	(688)	716,199
Permits, Licenses, and Other Fees	13,866	13,866		13,865
Interest and Other Income	11,935	11,935	-	11,938
Total Revenues	742,688	742,688	(688)	742,001
Excess (Deficiency) of Revenues over Expenditures	(41,877)	(41,877)	(35,560)	(77,437)
Change in Fund Balance/Net Position	(41,877)	(41,877)	(35,560)	(77,437)
FUND BALANCE/NET POSITION				
Beginning of Year	851,116	851,116	640,057	1,491,173
End of Year	$ 809,239	$ 809,239	$ 604,497	$ 1,413,736

The accompanying notes are an integral part of these financial statements.
See Independent Auditors' Report.

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
RECONCILIATION OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - GOVERNMENTAL FUNDS AND NET POSITION TO THE STATEMENT OF ACTIVITIES
FOR THE YEAR ENDED SEPTEMBER 30, 2020

Net Change in Fund Balance - Total Governmental Funds (Page 8)		$ (41,877)
The Change in Net Position Reported for Governmental Activities in the Statement of Activities is Different Because:		
Governmental funds report capital outlays as expenditures. In the Statement of Activities the cost of those assets is allocated over their estimated useful lives and reported as depreciation expense.		
Capital assets reported as capital outlay in governmental fund statements:	-	
Depreciation expense reported in statement of activities:	(30,949)	
Amount by which capital outlays are greater (less) than depreciation in current period.		(30,949)
Revenues in the statement of activities that do not provide current financial resources are not reported as revenue in the funds. This amount represents the net change in deferred inflows of resorces from the previous period.		(688)
Compensated absences are not a current requirement of resources and therefore are not accrued in the general fund.		$ (3,923)
Change in Net Position of Governmental Activities (Page 8)		$ (77,437)

The accompanying notes are an integral part of these financial statements.
See Independent Auditors' Report.

NOTE 1 – SIGNIFICANT ACCOUNTING POLICIES AND BASIS OF ACCOUNTING

The basic financial statements of Clearwater Underground Water Conservation District (the District) have been prepared in conformity with accounting principles generally accepted in the United States of America (US GAAP) as applied to governmental units. The Governmental Accounting Standards Board (GASB) is the acceptable standard-setting body for establishing governmental accounting and financial reporting principles. The significant accounting principles and policies utilized by the District are described below:

A. Reporting Entity

The District was created in 1989 by resolution of the Commissioners Court of Bell County, Texas, pursuant to H.B. 3172, Chapter 524, Acts of the 71st Legislature (1989 Session) (the "Act"). The District is a governmental agency and a body politic and corporate, created by and acting pursuant to the Act as amended by S.B. 404, Chapter 22, Act of the 77th Legislature (2001 Session), S.B. 1755, Chapter 64, Act of the 81st Legislature (2009 Session), and by applicable law including the provisions of Chapters 36 and 49 of the *Texas Water Code*. A five-member group, which constitutes the Board of Directors, is the level of government which has responsibility over all related activities within the jurisdiction of the Clearwater Underground Water Conservation District. The District receives funding from local property taxes; certain well, pump, and transmission fees; and interest resulting from investments of excess funds.

The District is not included in any other governmental reporting entity. The taxpayers within the jurisdiction of the District elect the Board members. The Directors have decision-making authority, the power to designate management, the responsibility of operations, and the primary accountability of fiscal and fiduciary matters.

B. Basis of Presentation

The accounts of the District are organized on the basis of funds and account groups, each of which is considered a separate accounting entity. Operations of each fund are accounted for with a separate set of self-balancing accounts that comprise its assets, liabilities, fund balance, revenues, and expenditures, as appropriate. The government-wide financial statements report all the activities of the District. These activities are primarily supported by property taxes, license, registration, and other fees. The following are descriptions of the fund types and account groups used by the District.

1. Governmental funds

General Fund – All unrestricted financial resources except those required to be accounted for in another fund are recorded in the general fund. It is the District's general operating fund. Taxes and fees are the major sources of revenue. Expenditures include all costs associated with the daily operations of the District. There are no other governmental funds at this time.

2. Account groups

Capital Assets account group – All capital assets of the District are accounted for in this group. The account group is not a fund. It only measures financial position and is not involved with measurement of results of activities.

C. Measurement Focus and Basis of Accounting

The government–wide financial statements, statement of net position and statement of activities, are reported using the economic resources measurement focus and the accrual basis of accounting. Revenues are reported when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows. Grants and similar items are recognized as revenue as soon as all eligibility requirements imposed by the provider have been met.

Governmental fund financial statements are reported using the current financial resources measurement focus and the modified accrual basis of accounting. Revenues are considered to be available when they are collectible within the current period or soon enough thereafter to pay liabilities of the current period. For this purpose, the District does not consider revenues collected after its year-end to be available in the current fiscal period. Expenditures generally are recorded when a liability is incurred, as under accrual accounting. All other revenue items are considered measurable and available only when the District receives cash.

D. Assets, Liabilities, Deferred Outflows/Inflows of Resources, and Net Position or Fund Balance

1. Cash and Cash Equivalents

The District's cash and cash equivalents are considered to be cash on hand, demand deposits, and certificates of deposit.

2. Budgetary Data

The adoption of an annual budget, for the general fund, is required prior to the beginning of each fiscal year on a basis consistent with accounting principles generally accepted in the United States of America. Thirty to sixty days prior to the beginning of each fiscal year, District management will submit a proposed budget for the fiscal year beginning on the following October 1st. The operating budget includes proposed expenditures and the means of financing them. The Board of Directors will adopt the budget by appropriate board action. Any revisions that alter the original budget must also be considered and approved by board action. The District is required to present the adopted and final amended budgeted revenues and expenditures for the General Fund. The District compares the final amended budget to actual revenues and expenditures. This is found on page 16.

3. Accounts Receivable

Accounts receivable are recorded at gross amount with uncollectable amounts recognized under the direct write-off method. No allowance for uncollectible accounts has been provided since it is believed that the amount of such allowance would not be material to the basic financial statements.

4. Capital Assets

Capital Assets have been acquired for general governmental purposes. Assets purchased or constructed are recorded as expenditures in the applicable governmental fund type and capitalized at historical cost in the Capital Asset account group. Contributed capital assets are recorded at estimated fair market value at the time received. Infrastructure assets are also included in the Capital Asset account group.

The full depreciation of the applicable capital assets is being recognized in compliance with the implementation of GASB Statement 34. Depreciation is calculated on the straight-line basis according to the following useful lives:

Building and Improvements	20 – 40 years
Office and Field Equipment	5 - 15 years

5. Deferred Outflows/Inflows of Resources

The District is compliant with GASB Statement No. 63, *Financial Reporting of Deferred Outflows of Resources, Deferred Inflows of Resources, and Net Position* and GASB Statement No. 65, *Items Previously Reported as Assets and Liabilities*. In addition to assets, the statement of net position will sometimes report a section for deferred outflow of resources. This separate financial statement element represents a consumption of net position that applies to a future period(s) and so will not be recognized as an outflow of resources (expenditures) until then. The District currently does not have any items that qualify for reporting in this category.

In addition to liabilities, the statement of net position will sometimes report a separate section for deferred inflows of resources. This separate financial statement element represents an acquisition of net position that applies to a future period(s) and so will not be recognized as an inflow of resources (revenue) until that time. The District has one type of item that qualifies for reporting in this category; delinquent property taxes. The amount of this item is deferred and will be recognized as an inflow of resources in the period the amount is collected and remitted to the District.

6. Equity Classifications

In the government-wide financial statements, equity is shown as net position and classified into three components; Net Investment in Capital Assets, Restricted, and Unrestricted. The District uses two of these classifications.

a. *Net Investment in Capital Assets* – Capital Assets, net of accumulated depreciation and reduced by any outstanding debt that poses an encumbrance.

b. *Unrestricted* – All other assets that do not meet the definition of net investment in capital assets.

The District reports the governmental fund balance as, unassigned; not previously classed as:

Non-spendable – Amounts that cannot be spent because they are either not in a spendable form or, legally or contractually required to be maintained intact.

Restricted – Amounts with restrictions imposed externally by creditors, grantors, contributors, or laws or regulations of other governments, constitutional provisions or enabling legislation.

Committed – Amounts that can only be used for specific purposes and imposed by formal action of the board of directors.

Assigned – Amounts informally constrained by District management but not formally restricted by the board of directors.

7. Risks, uncertainties, and use of 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 revenue and expenditures during the reporting period. Actual results could differ from those estimates.

NOTE 2 – PROPERTY TAXES

Property taxes are levied October 1 on the assessed property value as of the prior January 1 for all real and business personal property located in the district in conformity with Subtitle E, Texas Property Tax Code. Taxes are due on receipt of the tax bill and are delinquent if not paid before February 1 of the year following the year in which imposed. On January 31 of each year, a tax lien attaches to property to secure the payment of all taxes, penalties, and interest ultimately imposed. The District's property taxes are billed and collected by the Tax Appraisal District of Bell County.

The net assessed value after adjustments, based on 100 percent of the assessed valuation of real and personal property within the District on the 2019 tax roll, was $20,531,428,738. The 2020 tax rate of $0.003573 per $100 valuation was assessed and allocated to the General Fund. The resulting tax levy was $715,109.

Deferred tax revenue is reported as deferred inflows of resources (Note 1.D.5 para 2) by the District on its Governmental Funds balance sheet under the General Fund and arises when potential revenue does not meet the "measurable" and "available" criteria for recognition in the current period. In subsequent periods, when both revenue recognition criteria are met, the liability for the deferred tax revenue is removed from the balance sheet and the revenue is recognized. The current Deferred Inflow of Resources is $22,426.

NOTE 3 – CHANGES IN CAPITAL ASSETS

A summary of changes in capital assets is as follows:

	Primary Government			
2020	Beginning investment	Increase	Retirements	Ending Investment
Capital Assets not Depreciated				
Land	$ 59,981	$ -	$ -	$ 59,981
Total not Depreciated	59,981	-	-	59,981
Capital Assets Depreciated				
Land Improvements	19,000	-	-	19,000
Buildings	411,116	-	-	411,116
Monitor Wells	92,938		-	92,938
Mobile Classroom	90,689	-	-	90,689
Field Equipment	17,244	-	-	17,244
District Vehicles	6,920	-	-	6,920
Office Equipment	71,573		-	71,573
Total Depreciated	709,480	30,949	-	740,429
Total Capital Assets	769,461	30,949	-	800,410
Accumulated Depreciation	(177,272)	(30,949)	-	(208,221)
Net Investment in Capital Assets	$ 592,189	$ (30,949)	$ -	$ 561,240

NOTE 4 – CASH DEPOSITS AND INVESTMENTS WITH FINANCIAL INSTITUTIONS

The District's checking deposits were fully covered by federal depository insurance. The Texas Treasury Safekeeping Trust Company (TexPool) investments at September 30, 2020 were not covered by federal depository insurance or pledged securities. In accordance with GASB Statement No. 31, *Accounting and Reporting for Certain Investments and External Investment Pools*, the District reports all investments at fair value. The District's invested funds are invested with TexPool. The District categorizes its fair value measurements within the hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are other observable inputs; and Level 3 inputs are unobservable inputs.

The District's cash and invested funds at September 30, 2020, were as follows:

	General Fund	Input Level
BancorpSouth		
Operating account	$ 15,306	-
TexPool Accounts		
LGI Pool	404,662	2
Prime	409,854	2
Total TexPool accounts	814,316	
Total cash and invested funds	$ 829,822	

NOTE 4 – CASH DEPOSITS AND INVESTMENTS WITH FINANCIAL INSTITUTIONS (Continued)

Policies, Governing Deposits and Investments

The District has implemented an investment policy and is authorized, according to the *Public Funds Investment Act* (PFIA) (Government Code Chapter 2256), to invest any and all of its funds in certificates of deposit, direct debt securities of the United States of America or the State of Texas, fully collateralized repurchase agreements, certain types of commercial paper, certain types of municipal bonds and local government investment pools created under the Interlocal Cooperation Act, wherein all funds were invested as listed above.

In compliance with the Public Funds Investments Act, the District has adopted a deposit and investment policy where that policy addresses the following risks:

Custodial Credit Risk – Deposits: This is the risk that in the event of bank failure, the District's deposits may not be returned to it. The District was not exposed to custodial credit risk since deposits, in the bank during the year ended September 30, 2020, were covered by depository insurance.

Custodial Credit Risk – Investments: This is the risk that, in the event of the failure of the counterparty, the District will not be able to recover the value of its investments or collateral securities that are in the possession of an outside party. Investments are subject to custodial credit risk only if they are evidenced by securities that exist in physical or book entry form. Thus, positions in external investment pools are not subject to custodial credit risk because they are not evidenced by securities that exist in physical or book entry form.

The market value for the above listed accounts is not materially different from the carrying value of the accounts.

NOTE 5 – 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 upon separation. Accrued compensated absences for September 30, 2020 was $13,353.

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 per pay 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, 2020, the employer match was $ 8,716.

NOTE 6 - SUBSEQUENT EVENTS

District management has evaluated subsequent events as of April 13, 2021 the date the financial statements were available to be issued. No change to the financial statements for the fiscal year ending September 30, 2020 is deemed necessary as a result of this evaluation.

ALTON D. THIELE, P.C.

CERTIFIED PUBLIC ACCOUNTANT
300 E. AVENUE C
P.O. BOX 808
BELTON, TX 76513-0808

INDEPENDENT AUDITORS' REPORT ON COMPLIANCE AND ON INTERNAL CONTROL OVER FINANCIAL REPORTING BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS*

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

We have audited, 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, the financial statements of governmental activities and the aggregate remaining fund balance information of Clearwater Underground Water Conservation District (the District) as of and for the year ended September 30, 2020, and the related notes to the financial statements, which collectively comprise the basic financial statements, and have issued our report thereon dated April 13, 2021.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the District's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. Accordingly, we do not express an opinion on the effectiveness of the 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 may exist that have not been identified.

Compliance

As part of obtaining reasonable assurance about whether the District's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, and contracts, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. 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 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.

Belton, Texas
April 13, 2021

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
SCHEDULE OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE-BUDGET TO ACTUAL-GENERAL FUND
FOR THE YEAR ENDED SEPTEMBER 30, 2020

	General Fund			Variance Favorable (Unfavorable)
	Original Budget	Final Budget	Actual	
REVENUES				
Property taxes	$ 746,999	$ 746,999	$ 716,887	$ (30,112)
Application fee	30,000	30,000	12,400	(17,600)
Transport fee	1,500	1,500	1,466	(34)
Interest	15,000	15,000	11,935	(3,065)
Other income (expense)			-	-
Total revenues	793,499	793,499	742,688	(50,811)
EXPENDITURES				
Administrative expenses	55,200	55,200	36,110	19,090
Compensation and benefits	282,888	282,888	278,425	4,463
Clearwater studies	247,300	247,300	287,509	(40,209)
Educational outreach/marketing	21,500	21,500	10,099	11,401
Spring flow gage	15,900	15,900	15,900	-
Computer systems	36,200	36,200	29,450	6,750
Legal fees	38,000	38,000	41,025	(3,025)
Reserve for uncollected taxes	20,000	20,000	-	(20,000)
Other operating expenses (net)	72,450	72,450	62,541	9,909
Facility costs	21,975	21,975	15,243	6,732
Utilities	9,200	9,200	8,263	937
Total expenditures	820,613	820,613	784,565	36,048
Excess (deficiency) of revenues over expenditures	(27,114)	(27,114)	(41,877)	(86,859)
OTHER REVENUE				
Reserve funds for health insurance				
Reserve for equipment				
Total other revenue				
Change in fund balance	$	$	$ (41,877.00)	$ (86,859.00)
FUND BALANCE				
Beginning of fiscal year			851,116	
End of fiscal year			$ 809,239	

REQUIRED SUPPLEMENTARY INFORMATION

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

INDEX OF SUPPLEMENTAL SCHEDULES INCLUDED IN THIS REPORT

SEPTEMBER 30, 2020

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
SCHEDULE OF GENERAL FUND EXPENDITURES
FOR THE YEAR ENDED SEPTEMBER 30, 2020

Current			
Compensation and benefits	$	282,348	
(Number of persons employed by the District: 4 - Full-time)			
Professional Services			
Auditing		7,200	
Legal		41,024	
Clearwater studies		287,509	
Utilities		8,263	
Facility costs		15,243	
Administrative expenses (including director fees)		36,110	
Capital outlay			
Acquisition of capital assets		-	
Educational outreach/marketing		10,099	
Computer systems		29,450	
Other operating expenses		67,293	
Other expenditures		-	
TOTAL	$	784,539	(see page 8)
Depreciation	$	30,948	

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
SCHEDULE OF TEMPORARY INVESTMENTS
FOR THE YEAR ENDED SEPTEMBER 30, 2020

Governmental Funds	Pool / Type	Interest Rate	Maturity Date	Balance at End of Year
General Fund				
Local Government Investment Pools				
TexPool	449	1.3330%	Demand	$ 404,662
TexPool - Prime	590	2.3072%	Demand	409,854
TOTAL				814,516
Other accounts				
BancorpSouth - Operations Account	Transaction	N/A	Demand	11,609
TOTAL				11,609
TOTAL ALL ACCOUNTS				$ 826,125

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
ANALYSIS OF TAXES LEVIED AND RECEIVABLE
FOR THE YEAR ENDED SEPTEMBER 30, 2020

	Maintenance Taxes
Taxes receivable at October 1, 2019	$ 21,727
2019 Original tax roll, net of adjustments	728,373
Total to be accounted for	750,100
Tax Collections:	
Current year	(708,064)
Prior years	(8,135)
Total collections	(716,199)
Adjustments	(11,486)
Taxes receivable, September 30, 2020	$ 22,415
Taxes receivable by years:	
2013 and years prior to	$ 4,723
2014	1,020
2015	1,308
2016	1,633
2017	2,270
2018	3,848
2019	7,613
Taxes receivable, September 30, 2020	$ 22,415

	2019	2018	2017
Property Valuations, net taxable	$ 20,531,428,738	$ 18,670,513,065	$ 18,057,233,710
Tax rates per $100 valuation:			
Debt service tax rates	N/A	N/A	N/A
Maintenance tax rates	0.00357	0.00383	0.00385
Total tax rates per $100 valuation:	0.00357	0.00383	0.00385
Gross Original tax levy	$ 732,972	$ 715,081	$ 695,203
Percent of taxes collected to taxes levied	96.60%	96.75%	97.22%

CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT
SCHEDULE OF BOARD MEMBERS, CONSULTANTS, AND KEY PERSONNEL
SEPTEMBER 30, 2020

Complete District Mailing Address: PO Box 1989, Belton, TX 76513

District Business Telephone Number: (254) 933-0120

Submission Date of the most recent District Registration Form: N/A
(TWC Sections 36.054 and 49.054)

Limit on Fees of Office that a Director may receive during a fiscal year: $9,000
(TWC Section 36.060) Fee: $150 per day while on District busines

Name and addresses	Precinct and Terms of Office 4-year terms	Fees Paid as of 09/30/2019	Expense Reimbursement	Title as of 09/30/2019	Property owner within the District
Board Members					
Leland Gersbach 7872 Hackberry Holland, TX 76534	Precinct 1 2016 to 2020	Waived	$350	President	Yes
Gary Young 1314 Creek View, Salado, TX 76571	Precinct 2 2018 to 2022	$3,150	$235	Secretary	Yes
Jody Williams P.O. Box 780 Rogers, TX 76569	Precinct 3 2018 to 2020	$2,400	$235	Director	Yes
Scott Brooks 425 Mercy Ranch Rd. Florence, TX 76527	Precinct 4 2018 to 2022	-	$235	Director	Yes
David Cole 2401 Brown Circle Killeen, TX 76543	At-Large 2018 to 2022	$2,700	$225	Vice President	Yes
Consultants					
Lloyd Gosselink Attorneys at Law 816 Congress Ave Suite 1900 Austin, TX 78701-4071	N/A	$41,025	N/A	Attorney	N/A
Alton D Thiele, P.C. P.O. Box 808 Belton, TX 76513	N/A	$7,200	N/A	Auditor	N/A
Key Personnel		**Salary**			
Dirk Aaron	N/A	$84,292		District Manager	
Shelly Chapman	N/A	$47,865		District Administrative Assistant	

Appendix C

Well Registration Totals

Year	Exempt Wells		Non-Exempt Wells			Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Water	Envr	
2002 - 2019	4352	1013	104	33	52	25	121	**5700**
2020 - Jan	4	1	0	0	0	0	0	**5**
Feb	0	4	0	1	1	0	0	**6**
Mar	0	0	0	0	4	1	0	**5**
Apr	60	2	0	0	0	0	0	**62**
May	0	10	0	0	0	0	0	**10**
June	1	5	0	0	0	0	0	**6**
July	1	5	0	1	0	0	0	**7**
Aug	1	5	1	0	0	0	0	**7**
Sep	1	8	0	0	0	0	0	**9**
Oct	1	3	0	0	0	0	0	**4**
Nov	2	1	0	0	1	0	0	**4**
Dec	1	7	0	1	3	0	0	**12**
Total 2021	**72**	**51**	**1**	**3**	**9**	**1**	**0**	**137**
Totals	**4424**	**1064**	**105**	**36**	**61**	**26**	**121**	**5837**

Adjustments

Adjustment Type	Exempt Wells		Non-Exempt Wells			Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Water	Envr	
2002-Present	**4424**	**1064**	**105**	**36**	**61**	**26**	**121**	**5837**
Never Drilled	N/A	-34	N/A	-3	-6	0	-1	-44
Plugged	-216	-42	-18	-2	-1	-2	-57	-338
Totals	**4208**	**988**	**87**	**31**	**54**	**24**	**63**	**5455**

Appendix D

Non-Exempt Wells--Edwards BFZ

File No.	State #	Name	Acre-Feet: Hist. Permit	Acre-Feet: Oper. Permit	Acre-Feet: Total Permit	2020 Monthly Production (gallons): Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	YTD ac-ft	% Permit
		Chick Landscaping	**0.00**	**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**	**3.93%**
N2-06-002G		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**	**3.93%**
		Jarrell-Schwertner WSC	**301.20**	**153.00**	**454.20**	**9,850,796**	**9,600,733**	**9,076,280**	**8,806,084**	**10,647,233**	**12,145,074**	**13,655,506**	**14,108,170**	**8,885,606**	**10,912,442**	**9,917,962**	**9,574,279**	**127,180,165**	**390.30**	**85.93%**
N2-02-041G	5804808	JSWSC (Prairie Dell 2)				4,426,542	4,179,356	4,023,175	3,913,621	4,681,523	5,440,296	6,045,210	6,135,945	2,556,572	4,705,144	4,394,996	4,544,238	**55,046,618**	**168.93**	**37.19%**
N2-02-042G	5804811	JSWSC (Prairie Dell 5)				3,164,623	3,028,848	2,903,751	2,811,088	3,376,883	3,804,144	4,290,866	4,541,371	3,547,395	3,591,859	3,865,227	3,352,664	**42,278,719**	**129.75**	**28.57%**
N2-03-005P		JSWSC (Prairie Dell 8)				2,259,631	2,392,529	2,149,354	2,081,375	2,588,827	2,900,634	3,319,430	3,430,854	2,781,639	2,615,439	1,657,739	1,677,377	**29,854,828**	**91.62**	**20.17%**
		Not Aggregated	**72.00**	**29.74**	**101.74**	**282,982**	**271,706**	**271,216**	**333,833**	**411,387**	**468,207**	**488,913**	**554,946**	**353,661**	**413,423**	**398,217**	**340,292**	**4,588,783**	**14.07**	
N2-15-003P		Anthony Craft		0.60	**0.60**	330	530	400	320	380	830	10,520	1,780	1,650	0	730	1,150	**18,620**	**0.06**	**10.00%**
N2-02-016G		Arthur. W. Capps	70.50		**70.50**	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	**1,080,000**	**3.31**	**4.70%**
N2-07-010G	5804637	Bloomer Mfg.		2.07	**2.07**	0	0	451	639	0	9,749	9,584	6,114	4,424	3,950	8,800	3,905	**47,616**	**0.15**	**7.25%**
N2-19-007P		Brazos Valley Equine Hospital		1.32	**1.32**	0	0	0	0	0	9,800	16,600	34,000	31,900	32,500	30,500	20,400	**175,700**	**0.54**	**40.91%**
N2-11-004P	5804631	Charles Broecker		0.99	**0.99**	5,000	2,000	10,000	25,000	25,000	25,000	17,000	18,000	12,000	15,000	13,000	6,000	**173,000**	**0.53**	**53.54%**
N2-16-002G		Charles Dunifer		0.60	**0.60**	0	937	374	4,190	1,129	6,370	24,220	18,250	10,640	1,970	493	478	**69,051**	**0.21**	**35.00%**
N1-20-001P		Dillman Trust		0.59	**0.59**	0	0	0	16,060	16,060	16,060	16,060	16,060	16,060	16,060	16,060	16,060	**144,540**	**0.44**	**74.58%**
N1-09-004P		Domingo Perez		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**	**100.00%**
N1-20-002P		Donald & Sheryl Rich		0.39	**0.39**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-17-001P	5804305	Heart of Texas Feed		0.14	**0.14**	750	550	640	730	590	530	420	600	330	520	490	320	**6,470**	**0.02**	**14.29%**
N2-11-005P	5805108	James & Terry Boston		1.66	**1.66**	1,065	1,288	1,315	1,490	1,122	1,928	1,762	1,850	1,810	2,051	2,305	1,102	**19,088**	**0.06**	**3.61%**
N1-07-001P		James Schnitker		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**	**100.00%**
N1-13-002P		Janet Stone		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**	**100.00%**
N1-14-001P		Karen Duerr		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**	**100.00%**
N1-10-001P		Kenneth Stone		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**	**100.00%**
N2-08-004P		Lonnie Sherman		1.10	**1.10**	0	0	0	0	0	4,710	5,280	0	0	0	0	0	**9,990**	**0.03**	**2.73%**
N2-09-002P		O. W. Lowery		1.84	**1.84**	32,330	16,300	90	19,580	53,970	85,750	94,650	135,970	6,520	83,860	71,410	46,260	**646,690**	**1.98**	**107.61%**
N1-07-005P		Patricia Suarez		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**	**100.00%**
N2-20-001G		Richard Castle		0.67	**0.67**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-07-005G		RLF Salado Quarries (Office)		3.91	**3.91**	1,550	0	0	0	0	0	0	0	0	0	0	0	**1,550**	**0.00**	**0.00%**
N1-07-003P		Ronald Gravette		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**	**100.00%**
N2-03-004G	5804627	Salado ISD (MS)	1.50		**1.50**	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**	**24.00%**
N2-09-004G		Salado UMC		1.86	**1.86**	0	24	4	921	31,068	11,602	29,314	20,806	430	1,960	3,790	1	**99,920**	**0.31**	**16.67%**
N2-15-004P	5804633	Scott Law Well #1		0.60	**0.60**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-15-005P	5804634	Scott Law Well #2, Isaac Byers		0.60	**0.60**	4,014	2,934	6,069	5,270	18,615	28,685	23,570	34,383	23,130	18,478	9,361	3,025	**177,534**	**0.54**	**90.00%**
N2-15-006P		Scott Law Well #3		0.60	**0.60**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-15-007P		Scott Law Well #4		0.60	**0.60**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-15-008P		Scott Law Well #5		0.60	**0.60**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-15-009P		Scott Law Well #6		0.60	**0.60**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-15-010P	5805109	Scott Law Well #7 - Brady Woods		0.60	**0.60**	6,190	15,280	20,070	27,690	31,210	34,740	7,680	34,670	12,940	5,305	9,525	9,525	**214,825**	**0.66**	**110.00%**
N2-15-011P		Scott Law Well #8		0.60	**0.60**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-15-012P		Scott Law Well #9 - Jana Lever		0.60	**0.60**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-04-017G		Sonic of Salado		0.86	**0.86**	2,180	2,290	2,230	2,370	2,670	2,880	2,680	2,890	2,254	2,196	2,180	2,493	**29,313**	**0.09**	**10.47%**
N1-18-002P	5812203	Windy Meadows		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**	**100.00%**
		Salado WSC	**1,472.30**	**36.99**	**1,509.29**	**21,806,000**	**16,930,000**	**20,347,000**	**20,815,000**	**32,012,000**	**141,970,512**	**52,491,000**	**54,061,000**	**28,743,000**	**32,539,000**	**27,515,000**	**19,542,000**	**468,771,512**	**1,438.62**	**95.32%**
N2-02-010G	5804512	7KX Ranch (#8)				4,000	0	0	0	4,402,000	11,673,000	5,673,000	5,817,000	386,000	1,669,000	4,000	0	**29,628,000**	**90.93**	**6.02%**
N2-02-011G	5804513	7KX Ranch (#9)				6,051,000	5,602,000	5,786,000	5,448,000	1,900,000	298,000	23,000	0	0	0	4,359,000	5,606,000	**35,073,000**	**107.64**	**7.13%**
N2-02-003G	5804602	Salado WSC (#1)				105,000	3,177,000	3,824,000	3,661,000	3,890,000	3,738,000	3,666,000	3,704,000	3,430,000	3,243,000	4,101,000	3,844,000	**40,383,000**	**123.93**	**8.21%**
N2-02-004G	5804604	Salado WSC (#2)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-02-005G	5804508	Salado WSC (#3)				15,626,000	8,110,000	9,802,000	9,317,000	9,909,000	9,864,000	9,792,000	9,885,000	9,121,000	6,731,000	9,813,000	9,356,000	**117,326,000**	**360.06**	**23.86%**
N2-02-006G	5804621	Salado WSC (#4)				20,000	35,000	726,000	2,219,000	10,281,000	13,447,000	12,709,000	11,464,000	122,000	64,000	0	1,000	**51,088,000**	**156.78**	**10.39%**
N2-02-007G	5804509	Salado WSC (#5)				0	2,000	125,000	170,000	1,130,000	19,900,798	9,318,000	12,055,000	3,726,000	10,833,000	943,000	88,000	**58,290,798**	**178.89**	**11.85%**
N2-02-008G	5804510	Salado WSC (#6)				0	4,000	0	0	422,000	82,120,714	6,286,000	5,753,000	11,000,000	8,657,000	7,423,000	521,000	**122,186,714**	**374.98**	**24.84%**
N2-02-009G	5804626	Salado WSC (#7)				0	0	84,000	0	78,000	929,000	5,024,000	5,383,000	958,000	1,342,000	872,000	126,000	**14,796,000**	**45.41**	**3.01%**
		Schwertner Farms	**328.90**	**74.05**	**402.95**	**9,018,328**	**8,206,790**	**9,292,658**	**9,364,508**	**9,297,272**	**8,416,508**	**11,508,121**	**11,285,749**	**9,835,757**	**8,634,047**	**7,376,430**	**6,491,022**	**108,727,190**	**333.67**	**82.81%**
N2-04-005G		Schwertner Farms Blackwell				224,434	204,102	239,258	231,540	325,652	323,646	350,115	330,905	547,366	345,270	287,640	222,105	**3,632,033**	**11.15**	**2.77%**
N2-04-001G		Schwertner Farms CCL #1				2,255,657	2,002,184	2,302,243	2,336,546	2,225,071	1,971,660	2,919,800	2,919,800	2,380,800	2,038,608	1,642,885	1,347,324	**26,342,578**	**80.84**	**20.06%**
N2-04-002G		Schwertner Farms CCL #2				2,255,657	2,002,184	2,302,243	2,336,546	2,225,071	1,971,660	2,919,800	2,919,800	2,380,800	2,038,608	1,642,885	1,347,324	**26,342,578**	**80.84**	**20.06%**
N2-04-003G		Schwertner Farms CCL #3				2,255,657	2,002,184	2,302,243	2,336,546	2,225,071	1,971,660	2,919,800	2,919,800	2,380,800	2,038,608	1,642,885	1,347,324	**26,342,578**	**80.84**	**20.06%**
N2-04-004G		Schwertner Farms Eastland W.				268,532	244,035	261,715	276,420	333,863	307,785	412,080	316,200	316,200	304,504	292,740	276,590	**3,610,664**	**11.08**	**2.75%**
N2-04-006G		Schwertner Farms ES #1				98,171	110,853	119,285	108,745	127,530	109,000	144,440	115,035	98,290	105,243	120,390	116,480	**1,373,462**	**4.22**	**1.05%**
N2-04-007G		Schwertner Farms ES #2				660,943	685,270	731,561	728,586	741,727	727,701	760,121	769,046	727,566	722,228	777,937	813,025	**8,845,711**	**27.15**	**6.74%**
N2-04-008G		Schwertner Farms ES #3				633,709	599,301	637,143	616,590	689,418	667,012	690,030	580,754	611,235	642,141	568,820	602,106	**7,538,259**	**23.13**	**5.74%**
N2-10-006P		Schwertner Farms Little D.				365,568	356,677	396,967	392,989	403,869	366,384	391,935	414,409	392,700	398,837	400,248	418,744	**4,699,327**	**14.42**	**3.58%**
		Stagecoach Inn	**35.30**	**7.02**	**42.32**	**714,700**	**266,300**	**224,200**	**260,300**	**530,700**	**445,900**	**415,800**	**751,100**	**59,500**	**196,200**	**226,700**	**56,800**	**4,148,200**	**12.73**	**30.08%**
N2-02-002G	5804623	Stagecoach (deep)				714,700	266,300	224,200	260,300	530,700	445,900	415,800	751,100	59,500	196,200	226,700	56,800	**4,148,200**	**12.73**	**30.08%**
N2-02-037G		Stagecoach (spring)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
Totals:			**2,209.70**	**303.09**	**2,512.79**	**41,675,206**	**35,277,929**	**39,213,754**	**39,582,125**	**52,900,992**	**163,448,601**	**78,561,740**	**80,763,365**	**47,879,924**	**52,697,512**	**45,436,709**	**36,006,793**	**713,444,650**	**2,189.48**	**87.13%**

Non-Exempt Wells--Trinity

File No.	State #	Name	Acre-Feet Hist. Permit	Acre-Feet Oper. Permit	Acre-Feet Total Permit	2020 Monthly Production (gallons) 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**	**1,399,320**	**1,410,230**	**1,286,540**	**1,291,360**	**2,129,490**	**3,707,800**	**5,242,840**	**5,254,650**	**4,735,340**	**3,208,730**	**3,591,640**	**2,690,410**	**35,948,350**	**110.32**	**22.61%**
N2-02-024G	5805202	Armstrong WSC #1				320	230	540	360	5,490	12,800	17,840	19,650	14,340	11,730	4,640	6,410	**94,350**	**0.29**	**0.06%**
N2-10-001P	5805502	Armstrong WSC #2				1,399,000	1,410,000	1,286,000	1,291,000	2,124,000	3,695,000	5,225,000	5,235,000	4,721,000	3,197,000	3,587,000	2,684,000	**35,854,000**	**110.03**	**22.55%**
		Bell Milam Falls WSC	**262.20**	**0.00**	**262.20**	**5,384,200**	**3,225,500**	**1,205,400**	**5,906,500**	**6,050,400**	**9,032,600**	**10,952,200**	**10,901,100**	**5,027,500**	**4,610,300**	**3,619,100**	**3,365,600**	**69,280,400**	**212.61**	**81.09%**
N2-02-046G	5814402	Bell-Milam-Falls WSC (Bartlett)				1,768,000	0	418,000	1,468,000	1,222,000	3,567,000	4,332,000	4,606,000	1,843,000	1,146,000	0	0	**20,370,000**	**62.51**	**23.84%**
N2-02-038G	5806601	Bell-Milam-Falls WSC (Rogers)				3,616,200	3,225,500	787,400	4,438,500	4,828,400	5,465,600	6,620,200	6,295,100	3,184,500	3,464,300	3,619,100	3,365,600	**48,910,400**	**150.10**	**57.25%**
		Central Texas WSC	**0.00**	**1,776.00**	**1,776.00**	**0**	**73,000**	**61,000**	**172,000**	**28,000**	**93,000**	**9,475,000**	**11,316,000**	**7,718,000**	**10,371,000**	**19,000**	**3,895,000**	**43,221,000**	**132.64**	**7.47%**
N2-14-004P	5804203	CTWSC Doc Curb				0	73,000	61,000	172,000	28,000	93,000	32,000	67,000	0	0	19,000	24,000	**569,000**	**1.75**	**0.10%**
N2-14-005P	5806202	CTWSC System Split Well				0	0	0	0	0	0	9,443,000	11,249,000	7,718,000	10,371,000	0	3,871,000	**42,652,000**	**130.89**	**7.37%**
		City of Troy	**119.90**	**100.60**	**220.50**	**1,495,300**	**1,331,900**	**1,298,600**	**1,441,300**	**1,336,600**	**1,552,100**	**1,401,900**	**527,100**	**308,900**	**915,100**	**786,900**	**840,200**	**13,235,900**	**40.62**	**18.42%**
N2-02-036G	4054503	City of Troy #1				1,495,300	1,331,900	1,298,600	1,441,300	1,336,600	1,552,100	1,401,900	527,100	308,900	915,100	786,900	840,200	**13,235,900**	**40.62**	**18.42%**
N2-15-002P		City of Troy #2				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
		East Bell WSC	**69.70**	**114.85**	**184.55**	**613,000**	**702,000**	**635,000**	**609,000**	**423,500**	**2,018,500**	**3,956,000**	**5,494,000**	**3,617,000**	**1,067,000**	**1,110,000**	**1,273,000**	**21,518,000**	**66.04**	**35.78%**
N2-02-034G	4063501	East Bell WSC #1				278,000	361,000	204,000	116,000	258,500	715,500	1,533,000	2,600,000	2,218,000	574,000	729,000	840,000	**10,427,000**	**32.00**	**17.34%**
N2-04-010P	5806301	East Bell WSC #2				335,000	341,000	431,000	493,000	165,000	1,303,000	2,423,000	2,894,000	1,399,000	493,000	381,000	433,000	**11,091,000**	**34.04**	**18.44%**
		Leon River Turkey Farms	**60.90**	**0.00**	**60.90**	**8,200**	**8,700**	**9,000**	**10,000**	**9,000**	**14,800**	**21,110**	**43,300**	**22,000**	**21,300**	**19,500**	**29,200**	**216,110**	**0.66**	**1.08%**
N2-02-045G	5805403	Leon River Turkey				4,000	4,400	4,700	5,000	4,700	9,500	15,410	32,400	15,800	15,500	13,500	13,200	**138,110**	**0.42**	**0.69%**
N2-02-043G	4053301	Leon River Turkey (East)				3,000	3,200	3,100	3,500	3,100	3,600	3,800	8,400	2,200	3,800	4,200	3,000	**44,900**	**0.14**	**0.23%**
N2-02-044G	4053302	Leon River Turkey (West)				1,200	1,100	1,200	1,500	1,200	1,700	1,900	2,500	4,000	2,000	1,800	13,000	**33,100**	**0.10**	**0.16%**
		Lhoist	**40.00**	**0.00**	**40.00**	**17,108**	**23,118**	**0**	**26,700**	**25,979**	**28,601**	**32,836**	**28,679**	**25,018**	**29,438**	**13,840**	**24,110**	**275,427**	**0.85**	**2.13%**
N2-03-002G	4060101	LHoist #1				17,108	23,118	0	26,700	25,979	28,601	32,836	28,679	25,018	29,438	13,840	24,110	**275,427**	**0.85**	**2.13%**
N2-03-003G		LHoist #2				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
		Moffat WSC	**47.70**	**157.80**	**205.50**	**4,292,000**	**2,897,000**	**3,384,000**	**3,095,000**	**4,689,000**	**10,523,000**	**12,297,000**	**7,616,000**	**4,378,000**	**2,435,000**	**583,000**	**625,000**	**56,814,000**	**174.35**	**84.84%**
N2-02-022G	4053406	Moffat WSC #1				0	0	0	0	0	0	0	0	0	0	577,000	578,000	**1,155,000**	**3.54**	**1.72%**
N2-13-001P	4053507	Moffat WSC #2				4,292,000	2,897,000	3,384,000	3,095,000	4,689,000	10,523,000	12,297,000	7,616,000	4,378,000	2,435,000	6,000	47,000	**55,659,000**	**170.81**	**83.12%**
		Not Aggregated																		
N1-17-002P		Advanced Electrical Systems		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**	**100.00%**
N1-11-002P		Andrew Robertson		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**	**100.00%**
N2-07-008G		Apache Stone		22.66	**22.66**	648,600	183,670	324,970	327,120	579,810	474,870	582,360	538,710	364,560	352,640	558,530	483,390	**5,419,230**	**16.63**	**73.39%**
N2-02-001G	5806102	Bell Co. WCID #2	184.20	21.60	**205.80**	1,778,000	1,795,000	1,642,000	1,725,000	2,156,000	2,358,000	1,986,000	2,506,000	1,221,000	3,772,000	2,957,000	2,676,000	**26,572,000**	**81.55**	**39.63%**
N2-02-040G	4062801	Bell Co. WCID #5	20.70	8.00	**28.70**	423,000	211,600	106,700	450,000	389,200	492,600	639,900	659,500	515,900	427,200	138,200	0	**4,453,800**	**13.67**	**47.63%**
N2-03-001G	4062401	Cen. TX Vet. Hospital		60.00	**60.00**	0	0	0	0	0	0	0	0	0	154,000	5,600	3,000	**162,600**	**0.50**	**0.83%**
N2-19-001P		CenTex Acres 1 (Winteroud)		0.61	**0.61**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-19-002P		CenTex Acres 2 (Penney)		0.61	**0.61**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-04-011P	4061407	Central Texas Strike Zone		1.30	**1.30**	0	4,520	0	0	0	0	0	0	0	3,452	1,141	1,095	**10,208**	**0.03**	**2.31%**
N2-08-003G		City of Harker Heights		1.16	**1.16**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-02-013G	5805901	City of Holland	158.40		**158.40**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-02-012G	5807701	City of Rogers	139.40		**139.40**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N1-19-007P		Cristy & Larry Bickel		0.60	**0.60**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N1-19-008P		Cristy & Larry Bickel		0.60	**0.60**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N1-16-005P	4059803	David Cole		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**	**100.00%**
N2-19-003P		Eveans		0.50	**0.50**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-07-007G		Garden of Hope of Central Texas		0.01	**0.01**	270	270	270	270	270	270	270	270	270	270	270	270	**3,240**	**0.01**	**100.00%**
N1-19-003P		Gary Kelley		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**	**100.00%**
N2-20-002P		Hines Texas, LLC #1		4.14	**4.14**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-20-003P		Hines Texas, LLC #2		4.14	**4.14**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-20-004P		Hines Texas, LLC #3		4.14	**4.14**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-20-005P		Hines Texas, LLC #4		4.14	**4.14**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N1-07-002P		Ingo Smith		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**	**100.00%**
N1-18-001P	5803506	Joe Jackson		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**	**100.00%**
N1-05-001P		John Kurzyniec		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**	**100.00%**
N1-18-004P	5803404	Justin Scott		0.22	**0.22**	6,083	6,083	6,083	6,083	6,083	6,083	6,083	6,083	6,083	6,083	6,083	6,083	**72,996**	**0.22**	**100.00%**
N2-07-003G	5803503	Killeen Crushed Stone		36.00	**36.00**	4,027,800	556,000	0	0	0	101,400	1,559,000	1,999,900	0	0	0	0	**8,244,100**	**25.30**	**70.28%**
N2-09-001P		Kimberly Langston		12.32	**12.32**	70,969	47,962	15,022	513,338	48,217	648,400	639,200	695,500	515,400	589,300	246,200	4,700	**4,034,208**	**12.38**	**100.49%**
N2-08-001P		Kirby Stone		16.03	**16.03**	152,480	110,820	169,120	104,860	234,350	154,330	128,600	155,535	0	0	0	0	**1,210,095**	**3.71**	**23.14%**
N1-09-003P	4053707	Laurie Gehring		0.34	**0.34**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-02-039G	4054801	Little Elm Valley WSC	91.20		**91.20**	1,375,700	1,114,600	388,200	1,365,400	1,668,200	2,155,900	3,042,900	3,485,200	2,007,600	1,818,500	1,691,300	1,788,400	**21,901,900**	**67.21**	**73.70%**
N1-16-004P	4059804	Michael Maples		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**	**100.00%**
N2-02-035G		Mill Creek Country Club, LLC	61.90	60.00	**121.90**	0	0	0	720,000	1,260,000	1,260,000	1,440,000	1,440,000	0	0	0	0	**6,120,000**	**18.78**	**15.41%**
N1-18-003P	4059302	Myers		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**	**100.00%**
N2-02-017G	4055701	Oenaville / Belfalls WSC	16.20	20.79	**36.99**	59,041	60,698	45,402	5,969	74,394	367,789	603,590	875,033	351,048	80,953	60,718	47,050	**2,631,685**	**8.08**	**21.84%**
N2-07-009G		Parrie Haynes Ranch		13.80	**13.80**	44,048	17,300	17,607	11,785	34,520	39,147	31,096	43,969	43,884	20,334	15,138	28,219	**347,047**	**1.07**	**7.75%**
N2-09-005G		R S Materials Group		16.67	**16.67**	473,787	599,609	443,676	462,051	654,647	584,794	306,284	295,387	232,318	254,301	225,380	300,540	**4,832,774**	**14.83**	**88.96%**
N1-16-001P	5803505	Richard Ross		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**	**100.00%**
N1-17-001P		Robert & Victoria Lewis		0.82	**0.82**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N1-16-006P	4057603	Ronald Ham		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**	**100.00%**
N2-05-004P		Salado B.P. / Ronnie Tynes		11.05	**11.05**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-08-002P	5804314	Salado ISD (HS)		21.41	**21.41**	67,078	6,014	229,525	161,921	168,053	230,519	397,185	170,105	535,780	1,093,425	202,500	201,400	**3,463,505**	**10.63**	**49.65%**
N2-07-011G	5804624	Stagecoach (Spa)		0.05	**0.05**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-07-012G		Temple Park Estates		9.50	**9.50**	50,040	48,100	48,900	86,970	87,370	238,240	275,270	303,300	85,190	115,280	76,120	46,610	**1,461,390**	**4.48**	**47.16%**
N2-05-003P	40589	Texas Veterans Land Board		36.80	**36.80**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-13-002P	5806201	Trinity Oasis LLC (Jack Hilliard Dozer and Material		73.20	**73.20**	851,200	85,000	277,500	2,908,800	810,000	5,447,800	8,926,200	2,225,900	935,500	1,247,900	1,629,255	1,629,255	**26,974,310**	**82.78**	**113.09%**
N2-11-003G	4061408	UMHB		7.50	**7.50**	1,540	0	779	1,150	0	0	45,369	10,968	8,401	6,992	4,051	7	**79,257**	**0.24**	**3.20%**
N2-06-008P		VillasDelSol / John Henderson		3.13	**3.13**	9,000	9,000	11,000	41,000	55,000	90,000	125,000	125,000	40,000	67,000	7,000	28,000	**607,000**	**1.86**	**59.42%**
N1-08-001P		Yong Conway		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**	**100.00%**
		Pendleton WSC	**75.30**	**47.07**	**122.37**	**1,950,200**	**1,869,000**	**2,018,500**	**2,135,100**	**2,523,100**	**2,782,300**	**3,121,000**	**4,394,000**	**3,222,400**	**3,159,900**	**2,668,800**	**2,618,200**	**32,462,500**	**99.63**	**81.42%**
N2-02-047G	4054401	Pendleton WSC (#1)				1,950,200	1,869,000	2,018,500	2,135,100	2,523,100	2,782,300	3,121,000	3,199,800	1,718,900	1,704,500	1,438,700	1,416,400	**25,877,500**	**79.42**	**64.90%**
N2-02-048G	4054502	Pendleton WSC (#2)				0	0	0	0	0	0	0	1,194,200	1,503,500	1,455,400	1,230,100	1,201,800	**6,585,000**	**20.21**	**16.52%**
Totals:			**1,502.60**	**3,013.17**	**4,515.77**	**25,465,490**	**16,664,220**	**13,892,320**	**23,846,203**	**25,708,709**	**44,670,369**	**67,501,719**	**61,378,715**	**36,184,618**	**36,094,924**	**20,503,792**	**22,872,265**	**394,783,344**	**1,211.53**	**26.83%**

Non-Exempt Wells--Other

			Acre-Feet			2020 Monthly Production (gallons)														
File No.	**State #**	**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	**0.00**	**160.00**	**160.00**	**2,313,545**	**0**	**1,466,332**	**1,401,162**	**2,411,300**	**3,160,759**	**4,105,728**	**3,649,536**	**2,248,375**	**3,160,759**	**3,443,886**	**2,476,471**	**29,837,853**	**91.57**	**57.23%**
N2-11-001G		Bradley B. Ware				1,401,161	0	1,042,725	1,042,725	1,694,427	2,215,790	2,085,449	2,378,715	1,661,842	2,215,790	3,085,449	1,759,598	**20,583,671**	**63.17**	**39.48%**
N2-11-002G		Bradley B. Ware				912,384	0	423,607	358,437	716,873	944,969	2,020,279	1,270,821	586,533	944,969	358,437	716,873	**9,254,182**	**28.40**	**17.75%**
		Not Aggregated																		
N2-07-014P		Barking Oaks		0.62	**0.62**	6,084	5,960	5,680	5,460	6,180	6,280	6,850	6,250	6,220	6,200	5,880	5,980	**73,024**	**0.22**	**35.48%**
N2-07-013G		D.R. Dorsey Properties		2.47	**2.47**	20	8	54	114	275	0	15	30	80	0	18	35	**649**	**0.00**	**0.00%**
N2-10-007P		Goode Towing		0.05	**0.05**	2,613	0	0	0	0	1,827	0	0	0	0	0	0	**4,440**	**0.01**	**20.00%**
N2-08-005G		Lone Star Paving		1.07	**1.07**	1,780	1,360	1,730	910	2,850	956	533	413	184	100	114	101	**11,031**	**0.03**	**2.80%**
N2-14-001G		Mikeska		100.00	**100.00**	0	0	0	0	0	0	6,517,029	0	0	0	0	0	**6,517,029**	**20.00**	**20.00%**
N2-06-007G		Misty Creek HOA		6.45	**6.45**	17,050	17,000	17,500	15,500	12,000	14,500	14,500	14,200	14,500	11,800	14,700	14,300	**177,550**	**0.54**	**8.37%**
N1-11-001P		Roy Rodriquez		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**	**100.00%**
N1-04-001P		Stephen Spinn		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**	**100.00%**
N2-16-001P		Strike 3 Bail Bonds		0.12	**0.12**	480	450	470	390	360	460	420	460	420	340	380	380	**5,010**	**0.02**	**16.67%**
N2-08-007G		Trio Investments		0.18	**0.18**	400	200	200	200	300	600	300	400	1,200	400	300	300	**4,800**	**0.01**	**5.56%**
N1-16-007P		Wells Fargo Bank		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**	**100.00%**
		Strasburger Farms	**271.80**	**33.84**	**305.64**	**0**	**0**	**0**	**0**	**0**	**43,398,000**	**25,746,000**	**8,685,000**	**0**	**0**	**0**	**0**	**77,829,000**	**238.85**	**78.15%**
N2-02-030G		Strasburger Farms (#10)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-02-031G		Strasburger Farms (#11)				0	0	0	0	0	10,944,000	20,976,000	5,985,000	0	0	0	0	**37,905,000**	**116.33**	**38.06%**
N2-02-032G		Strasburger Farms (#15)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-02-033G		Strasburger Farms (#16)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-18-001P		Strasburger Farms (#2)				0	0	0	0	0	22,086,000	0	0	0	0	0	0	**22,086,000**	**67.78**	**22.18%**
N2-02-027G		Strasburger Farms (#4)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
N2-12-002P		Strasburger Farms (#5)				0	0	0	0	0	10,368,000	4,770,000	2,700,000	0	0	0	0	**17,838,000**	**54.74**	**17.91%**
N2-02-029G		Strasburger Farms (#6)				0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0.00**	**0.00%**
Totals:			**271.80**	**316.67**	**588.47**	**2,393,569**	**76,575**	**1,543,563**	**1,475,333**	**2,484,862**	**46,634,979**	**36,442,972**	**12,407,886**	**2,322,576**	**3,231,196**	**3,516,875**	**2,549,164**	**115,079,550**	**353.15**	**60.01%**

Appendix E

CUWCD Exempt Well Use Summary

As of: 3/8/2021

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)	*437*	*355*	*103,859*	*116*	*82*	*70,848*	*79*	*174,707*	*196*	
Hensell (Middle Trinity)	*915*	*857*	*401,648*	*450*	*58*	*50,112*	*56*	*451,760*	*506*	
Hosston (Lower Trinity)	*147*	*136*	*39,788*	*45*	*11*	*9,504*	*11*	*49,292*	*55*	
Trinity (Total)[6]	**1,499**	**1,348**	**545,295**	**611**	**151**	**130,464**	**146**	**675,759**	**757**	**1,419**
Edwards BFZ	**833**	**701**	**205,085**	**230**	**132**	**114,048**	**128**	**319,133**	**357**	**825**
Edwards Equivalent	494	391	114,391	128	103	88,992	100	203,383	228	
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	226	142	41,544	47	84	72,576	81	114,120	128	
Ozan	166	118	34,522	39	48	41,472	46	75,994	85	
Pecan Gap	67	44	12,873	14	23	19,872	22	32,745	37	
Kemp	15	11	3,218	4	4	3,456	4	6,674	7	
Alluvium	586	378	110,588	124	208	179,712	201	290,300	325	
Other[5]	**1,590**	**1,102**	**322,401**	**361**	**488**	**421,632**	**472**	**744,033**	**833**	
CUWCD Total Active	**3,922**	**3,151**	**1,072,781**	**1,202**	**771**	**666,144**	**746**	**1,738,925**	**1,948**	

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.

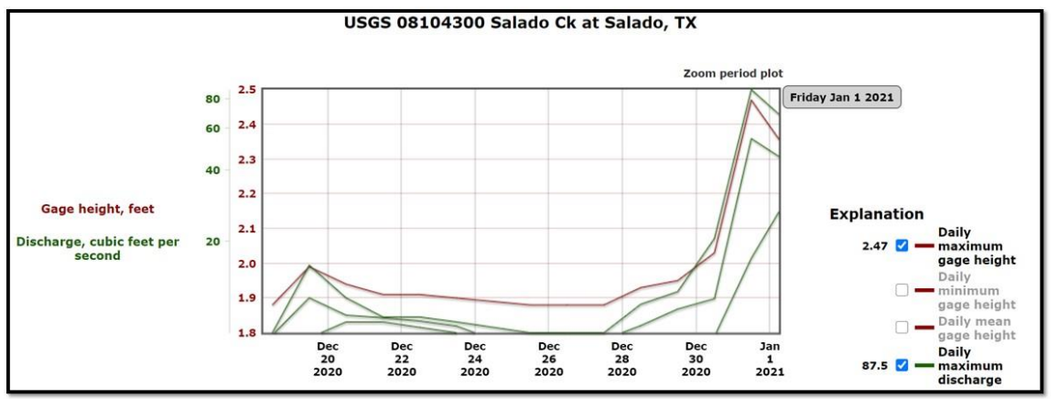
Appendix F

DFC Analysis Over Time (2000-Present) Modeled Available Groundwater				*HEUP and OP Permit Analysis Relative to the Modeled Available Groundwater*			*2020 YTD Prod. Jan - Dec 2,189.47 Ac-ft 87.1 3%*	*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	**2019 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**	**2304 Ac-ft** 1/1/2021 vs **220 Ac-ft** 08/20/2014	6469	2209.7	303.09	**2512.79**	**1,994.27 Ac-ft 79.44%**	3131.21	**0**	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.*



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 28th – January 1st was 38.72 CFS = 2304.00 ac-ft/month

5 - day average for November 29th – December 3rd was 10.34 CFS = 615.15 ac-ft/month

DFC Analysis Over Time (2000-Present) *Modeled Available Groundwater*			*HEUP and OP Permit Analysis* *Relative to the Modeled Available Groundwater*			*2020 YTD Total Prod.* *Jan - Dec* *1,211.55 Ac-ft* *26.83%*		*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)	**2019 YTD Prod.** (by layer)	**2020 YTD Prod.** (by layer)	**Available for Permitting Ac-ft** (by layer)	**Pending Applications Ac-ft** (by layer)	**Exempt Well Reserve Ac-ft** (by layer)	**2019 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	974	61.9	72.13	**134.03**	48.84	25.85	146.97	0	693	223	470
Hensell (middle)	**-2.28 ft/yr** -137 ft/60 yrs	1099	259.3	208.40	**467.70**	81.32	93.69	83.30	0	548	490	58
Hosston (lower)	**-5.50 ft/yr** -330 ft/60 yrs	7193	1181.4	2732.64	**3914.04**	1009.73	1092.01	3100.96	*** 1702.8	178	52	126
Total		**9266**	1502.6	2996.61	**4515.77**	1139.90 (25.34%)	1211.55 (26.83%)	3331.62	**1702.8**	1419	765	654

**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 in the Hosston Layer (Lower)*

Trinity Oasis LLC Operating Permit N2-13-002P (1702.8 ac-ft/yr) (this permit amount not reflected in Trinity Aquifer total permit amount; production contingent on TCEQ approval and plant construction

Appendix G

Clearwater Source

Clearwater Underground Water Conservation District

www.cuwcd.org

2020 Annual Newsletter | December 2020 | Volume 16, Issue 1

Upcoming TWDB Projects

The TWDB contracted with LRE Water, WSP, Thornhill Group, and Michelle Sutherland to improve the current estimated historical volume, location, and timing of groundwater pumpage from the Pecos Valley Aquifer, Edwards-Trinity (Plateau) Aquifer, Trinity (Hill Country) Aquifer, Edwards (Balcones Fault Zone) Aquifer (located south of the Colorado River), and the Lipan Aquifer. The TWDB also contracted with WSP, LRE Water, IRP Water, and Dr. Raghavan Srinivasan to develop estimates of recharge and stream baseflow conditions (or groundwater-surface water interactions) for the same aquifers, except the Lipan, and study area. The study area for these projects includes portions of 56 counties (Figure 1), 35 conservation districts (Figure 2), eight groundwater management areas (Figure 3), and five regional water planning areas (Figure 4).

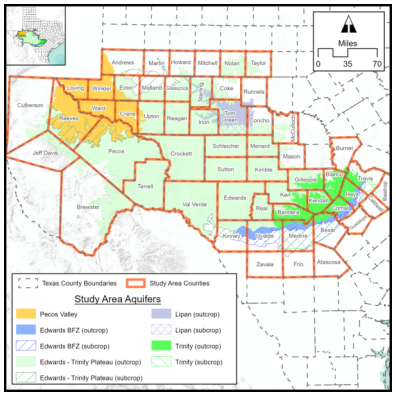


Figure 1. Study area map illustrating the counties and aquifers included as part of this project.

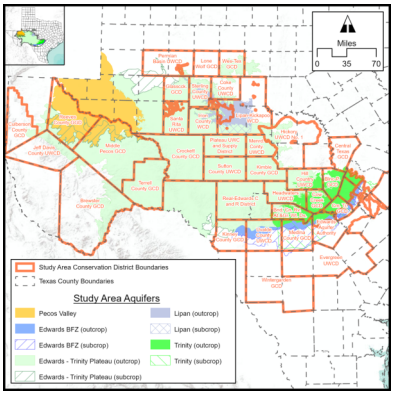


Figure 2. Study area map illustrating the conservation districts and aquifers included as part of this project.

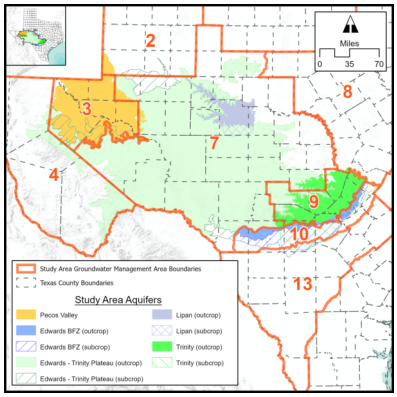


Figure 3. Study area map illustrating the groundwater management areas and aquifers included as part of this project.

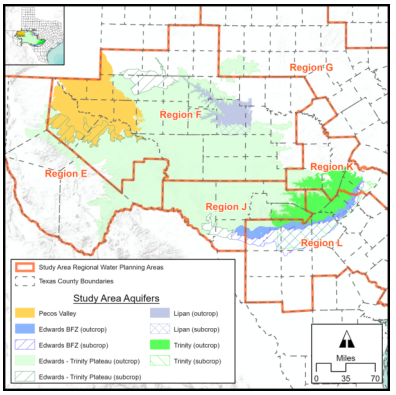


Figure 4. Study area map illustrating the regional water planning areas and aquifers included as part of this project.

Clearwater UWCD Expresses Deep Concerns

The Texas Water Development Board (TWDB) recently contracted and will pay ***$650,000*** with the following very credible geoscience consultants (LRE Water, WSP, Thornhill Group, and Michelle Sutherland) to improve their knowledge by determining: *the current estimated historical volume of pumping from the aquifers, location of wells in the prescribed aquifers, and timing of groundwater pumping from the aquifers.*

The study is looking at specifically the following aquifers: Pecos Valley Aquifer, Edwards-Trinity (Plateau) Aquifer, Trinity (Hill Country) Aquifer, Edwards (Balcones Fault Zone) Aquifer, and the Lipan Aquifer.

The TWDB also contracted, spending an additional $650,000, with geoscience consulting firms and individual consultants (WSP, LRE Water, IRP Water, and Dr. Raghavan Srinivasan) to develop estimates of recharge and stream baseflow conditions (or groundwater-surface water interactions) for the same aquifers in the same study area. The study area for these projects includes portions of 56 counties, 35 conservation districts, but does not include Bell, Williamson and northern Travis Counties nor the jurisdiction of Clearwater UWCD (Figure 1.).

It is clear that the TWDB in hiring a group of superior geoscientists, missed the boat by failing to include the highest growth counties along IH35 in the United States pumping collectively more than *50,000* ac-feet of groundwater a year. This must mean the TWDB lacks the same sense of urgency Clearwater's Constituents have for Groundwater Assessment in and around our backyard. Spending *$1.3 million* and to not incorporate those Counties and following a decade of drought thus unforeseen depletions is simply not defendable.

Dirk Aaron, General Manager
Clearwater UWCD

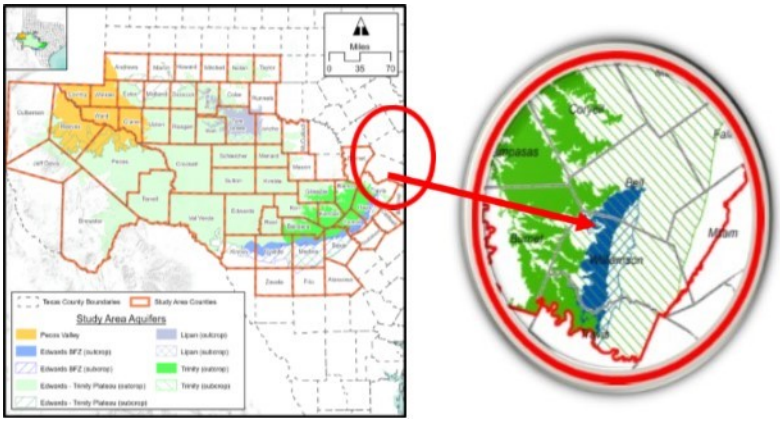


Figure 1. Study area map illustrating that Clearwater UWCD, Bell Country, Williamson County and Northern Travis County are not included with the other conservation districts and counties .

Board of Directors

Leland Gersbach - Precinct 1
2013-Present (President)

Jody Williams - Precinct 3
2018-Present (Director)

Gary Young - Precinct 2
2014-Present (Secretary)

Scott Brooks - Precinct 4
2018-Present (Director)

David Cole - At large
2013-Present (Vice-President)

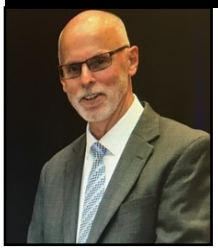
Mission Statement

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.

Williamson and Northern Travis Counties Combined Used 13 Billion Gallons of Groundwater in 2019



Clearwater Underground Water Conservation District canceled the 20th Annual Water Bell County Water Symposium planned for November this "The Year of COVID", but the 20th will occur in the fall of 2021 in Killeen at the campus of Texas A&M University - Central Texas. The theme will be related to "Best Available Science" and the need for policy to align with such local discernment.

The most recent studies conducted by Clearwater addressed many of the unknowns concerning the depletion of artesian pressure in the Trinity Aquifer in the most southwestern portions of our county. Our own State Senator Dawn Buckingham, Representative Brad Buckley and Representative Hugh Shine carried legislation in both the house and senate two years ago to simply have the State fund a study to determine if the aquifer system is sustainable in Bell, Williamson and Northern Travis Counties. The proposed legislation failed, even though the Texas Water Development Board testified that their current data was from 1999 and needed to be updated. The bill would have provided less than $200,000 to accomplish the necessary studies. This issue has been discussed in a collaborative effort with our legislators and the county judges and commissioners of both Bell and Williamson Counties. When our concerns got nowhere last session because of opposition and fear from the leadership to the south, that the true pumping numbers would see the light of day, Clearwater was justified in funding parts of the necessary science ourselves. Thanks to our legislators we have been able to keep the concerns of our well owners in the forefront. Yes, the counties to the south use more than **42,000-acre feet** of groundwater per year from the Edwards BFZ and Trinity aquifers.

The following studies quantify the groundwater use and validate the concerns:

1) Evaluation of Groundwater Pumping in Travis & Williamson Counties
The above study validates two issues: 1) Pumping from the Middle Trinity at current levels in both Bell and Williamson Counites is of major concern and 2) the concern of our Board of Directors is that Williamson County being unmanaged (meaning they have no groundwater district) is justified. This has been a hot issue at the Capital this last session, but now is the time to talk, discuss, and move forward with shared resolutions. The study shows the two counties to the south used a combined amount of more than ***42,000 acre feet of groundwater in 2019 (or more than 13 billion gallons).*** Compare that to Bell County's use from the same two aquifer systems, we used ***5,662-acre feet in 2019 (or 1.8 billion gallons)***. The study proves that we cannot sustain our aquifer system with this kind of production to the south which is more than 7 times larger than our production in Bell County.

2) Drawdown Analysis of the Local Middle and Lower Trinity Aquifers in Bell, Travis and Williamson Counties validates that extreme declines continue at nearly ***10 feet per year*** and if the trend continues, pumps will likely have to be lowered in wells with water levels reaching the top of the aquifer in about 30 years in some of the higher developments in the areas to the west of I35. These declines are illustrated in monitoring wells shown on the map prepared in 2019 in figure 2 below. In northwestern Williamson County, the Middle Trinity aquifer water levels are near the top of the aquifer. Landowners in this area have reported difficulties accessing groundwater from the Middle Trinity. It is likely that many well owners will soon, if they do not already, have pumps set near the bottom of their wells and will have to adjust to limited groundwater availability or find alternative water supplies. Conditions in the Lower Trinity are better than in the Middle Trinity, but it is a somewhat more expensive alternative that may not exist in some areas due to the unknown structure and challenges to drilling. A robust risk assessment is in-order and must first be evaluated by landowners before expending resources before drilling.

Clearwater UWCD, Board President, Leland Gersbach stated that Clearwater is a leader in fostered local collaboration and opened the 2019 Water Symposium by focusing on the biggest issue in our region and that is that "***Water will be what moves us forward or holds us back.***" Once we completed the above mentioned studies, it's apparent that local groundwater resources are being unfairly withdrawn from our shared aquifer systems.

Dirk Aaron, General Manager
Clearwater UWCD

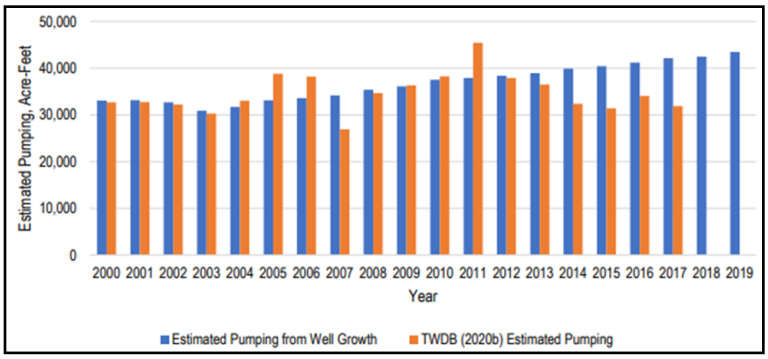


Figure 1. Travis and Williamson counties estimated groundwater pumping from the Edwards BFZ, Trinity and other aquifers.

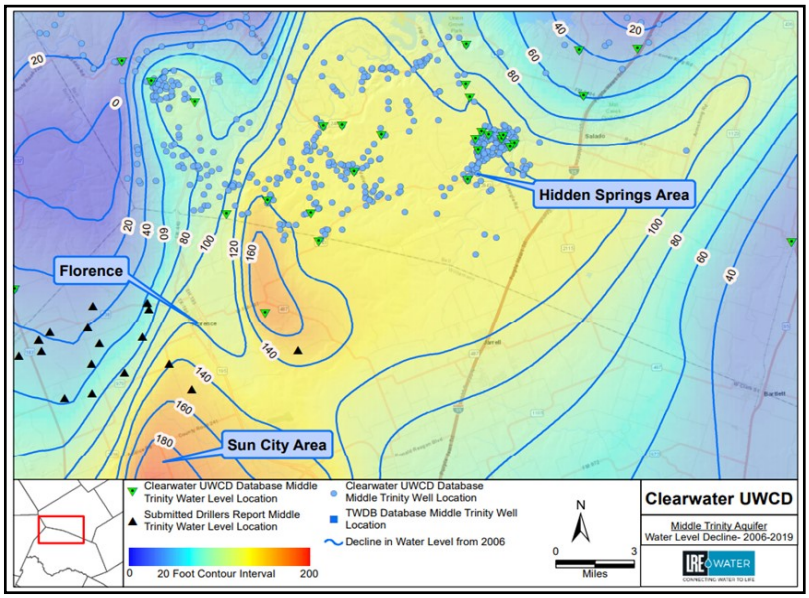


Figure 2. Middle Trinity Aquifer water level declines since 2006.

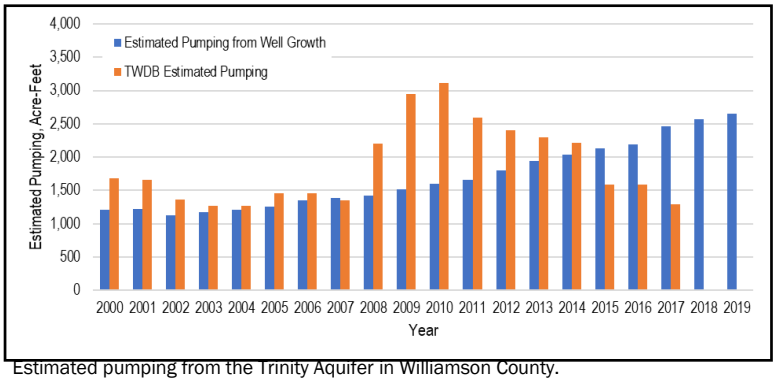
New Organization Focuses on Quarry Operations

Limestone quarry operations continue to expand along the I-35 Corridor from San Antonio area to Bell County, and beyond. Also, increased fracking has led to numerous new sand mining operations along several watersheds in Texas. These quarry and mining operations are not currently subject to the Texas Railroad Commission rules imposed on lignite and uranium mines. During the 2019 legislative session, various citizen groups supported proposed legislation to strengthen regulation of these activities (called Aggregate Production Operations, or APOs). In late 2019, these groups joined together to form Texans for Responsible Aggregate Mining (TRAM). This coalition, comprised of 15 member groups covering 32 counties and about 42% of the TX population across the state, seeks to work with lawmakers, state agencies, and industry operators to create statewide standards (Best Management Practices) for APOs, and to adopt those standards into law. During October, TRAM actively participated in public hearings held by the House Interim Committee on APOs, whose report is expected by year end. Although TRAM focuses on a range of issues including air quality, noise, light, and buffer zones for blasting, TRAM's key issues also include

(continued on page 7)

Evaluation and Estimation of Groundwater Pumping

The amount of pumping from an aquifer can be one of the least understood stresses on a groundwater system but we can easily observe its impacts as changes in water level. Within Bell County, pumping is reasonably well known thanks to the management efforts by Clearwater UWCD. However, south of Bell County reported pumping is less reliable and has a higher degree of uncertainty. As such, we must rely on other data to evaluate the pumping data and inform our estimates of how pumping may have changed over time.



Estimated pumping from the Trinity Aquifer in Williamson County.

To assist the District in understanding the amount of pumping to the south of Bell County, we evaluated groundwater production relative to the number of completed water wells. While published pumping estimates showed decreasing use in some areas and aquifers, the number of wells consistently increased suggesting pumping should also be increasing or at least relatively stable. For example, when looking at the Trinity Aquifer in Williamson County, our analysis suggests that the Texas Water Development Board (TWDB) data may underestimate pumping for recent years.

Recently, we started a project supporting TWDB groundwater modeling efforts for aquifers extending from west to central Texas. This project involves applying many of the same methods we used to evaluate pumping data and develop estimates of pumping for Williamson and Travis counties. The experience we gained working with Clearwater UWCD was invaluable to supporting the efforts of the TWDB to accurately simulate pumping in future groundwater model updates.

Mike Keester, Senior Project Manager/Hydrogeologist
LRE Water

Update on Receding Middle Trinity Wells in Southwest Bell County

In Volume 14, Issue 1 of this newsletter (published in October 2018), I shared with readers my personal story of dealing with a troubled well in the Middle Trinity aquifer in southwest Bell County, and how those troubles were the impetus for my becoming a District Director. In this issue, I would like to give readers an update on the situation.

In the two years since that article was written, a lot of activity has occurred due to those well troubles some of us have experienced or are currently experiencing. Many of us are lowering or have lowered our pumps, if we are lucky enough to be able to do so, and some of us are having to give up on our wells altogether because they are no longer viable. Personally, the water level in our home's well continues to steadily drop, and as a result, we have begun building a rainwater collection system to eventually replace the well when it becomes no longer viable (likely in the next few years, if the trend of the last 8 years continues.)

Since my last article, in which I asked for well owners to report troubles to Clearwater staff, many of you have done so, and we thank you for taking time to do so. In addition to the data provided by well owners, your District has invested wisely in gathering additional data to better understand the problem. These additional data were developed by three consultants contracted by the District, and soon they will be collaborating to put it all together in a coordinated attempt to understand the uniqueness of the Middle Trinity aquifer in southwest Bell County. For more information on that effort, please refer to Mike Keester's article in this issue.

One of the efforts by the District consulting team of Allan R. Standen LLC and Michelle A. Sutherland LLC involved examining existing well driller's reports for data to add to the District's 3-D model of the aquifer. After adding these data to the model, something unusual was detected in southwest Bell County. Although much work is still needed to understand the situation, it appears as though two previously-unknown faults exist in this area. These faults may likely explain why this region's groundwater conditions are so different from the conditions just a few miles away.

It is still going to take some effort to understand all the new data that the District has received after investing in the scientific collection and analysis of new data. Our consultants' work will eventually yield a more complete understanding of the aquifer conditions using the scientific process. After a more complete scientific understanding is revealed, your Board will then begin the process of refining the policies of the District in order to better manage this most precious of resources, so that the needs of all the users of groundwater in the District can be realized for generations to come.

Scott Brooks, P.E., Director Pct. 4
Clearwater UWCD

Springshed Delineation for the Downtown Salado Spring Complex

This study focuses on the Downtown Salado Spring Complex (DSSC) to identify important recharge zones which will support groundwater management efforts and help protect the aquifer. Synoptic water-level measurements collected in 2010, 2013, and 2019 by CUWCD were used to hypothesize a springshed for the DSSC. Due to flow path variability characteristic of karst aquifers, the synoptic maps were analyzed in conjunction with groundwater chemistry.

Water samples were collected from springs and wells and analyzed for the major ions. The water chemistry patterns confirm interpretations made from the estimated springshed. Calcium-bicarbonate water was found in the aquifer outcrop within the springshed and sodium-bicarbonate water was found from a well outside of the springshed (Figure 1). These results indicate the deeper, confined aquifer does not contribute to groundwater discharging at the DSSC. However, in a karst aquifer the springshed boundaries may not include all the contributing flow paths.

Clara Smith-Salgado, Master's Student, Baylor University
Stephanie Wong, Doctoral Student, Baylor University
William Anderson, Intern, Clearwater UWCD
Dr. Joe C. Yelderman, Jr., P.G., Professor of Geology
Baylor University

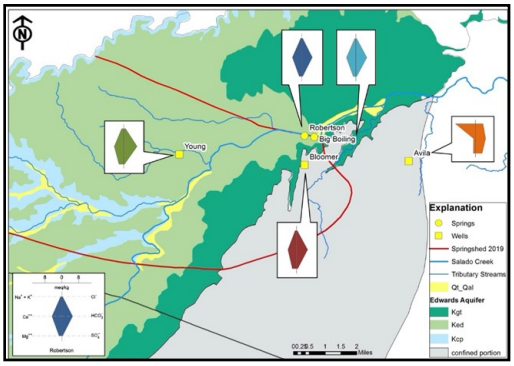


Figure 1. Hypothesized springshed to the Downtown Salado Spring Complex with ionic chemistry of the springs and selected wells displayed with Stiff diagrams.

Interactive Tool for Evaluating Aquifer Status

In 2014 the Clearwater UWCD began looking at their monitoring data in a new way to ultimate visualize data Clearwater wanted a scientific tool to better understand how the monitoring data they were collecting correlated to the desired future conditions for the aquifers and to improve communication of the status of the managed aquifers.

What began as a spreadsheet tool has evolved into an interactive web-browser based tool that provides a visual representation of measured water levels for the Upper, Middle, and Lower Trinity aquifers in Bell County.

Currently, the tool analyzes water-level data collected at District monitoring well locations in these aquifers to assess and visually represent the current groundwater conditions relative to the desired future conditions. LRE Water is excited about updates to the tool in 2021 to incorporate water-level data for the Edwards (BFZ) Aquifer and water quality data from all of the managed aquifers.

Just a few examples of the tool's illustration capabilities are in the few figures.

Micaela Pedrazas, Hydrogeologist
LRE Water

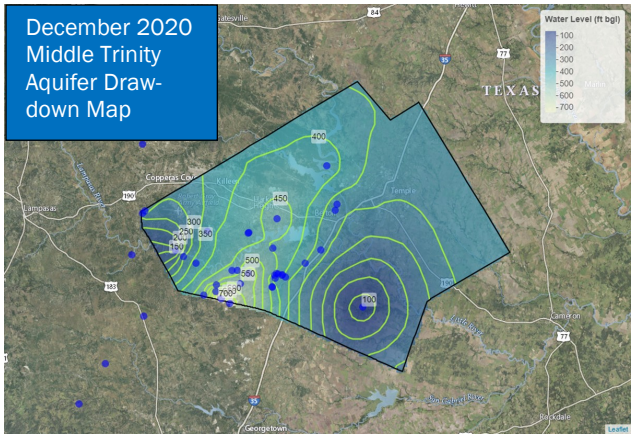


Figure 1. The tool has the ability to generate in an automated fashion, Drawdown Maps of the Middle Trinity Aquifer on December 4, 2020. Well owners can then better understand the trends per this visualized in their region, neighborhood and source aquifer.

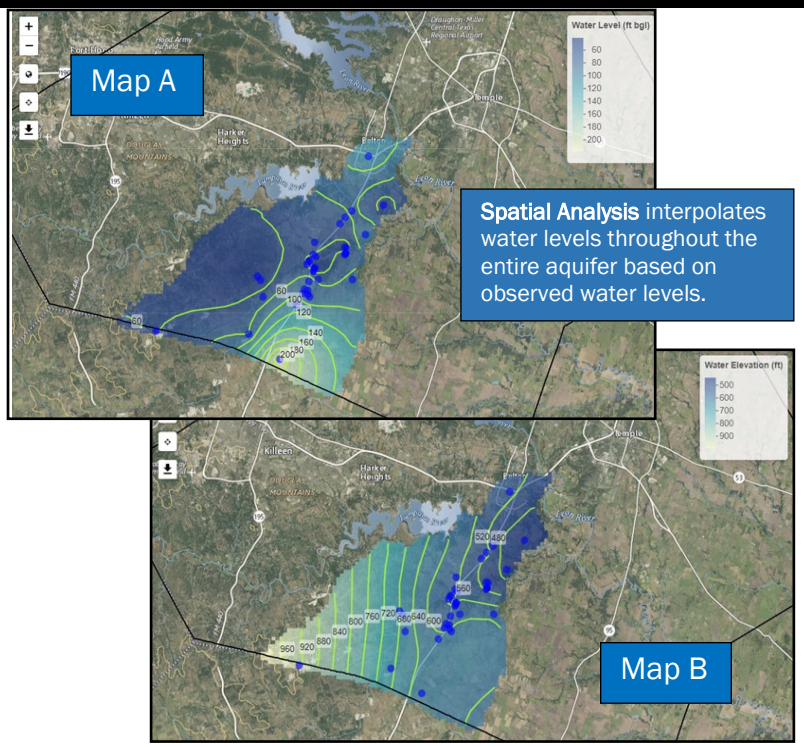


Figure 2. These maps illustrate the water levels of the Edwards BFZ Aquifer. Map A is a drawdown map and Map B is a synoptic water level map showing the flow direction of the Springs of Salado.

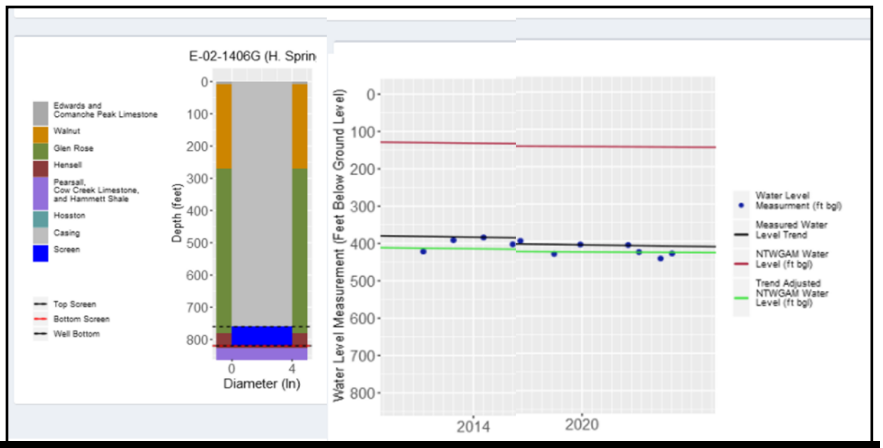


Figure 3. Illustrates the tool's ability to visualize specific monitor wells while comparing real time data with modeled data (GAM) and seeing the trends as we look toward Desired Future Conditions (DFC).

Monitoring, Surveys, and Education in the Middle Trinity Aquifer

Acoustic water level monitoring devices were installed almost 2 years ago on several domestic pumping wells in the Middle Trinity aquifer in Bell County. Shortly after the devices were installed, questionnaires that addressed water management opinions were distributed to well owners using the Middle Trinity aquifer. The average water levels from these devices were shared bi-weekly with selected well owners and a follow-up questionnaire was distributed after a seasonal pumping period. The monitor devices showed a strong seasonal drawdown that did not appear to recover to previous levels resulting in a long-term groundwater decline trend (Figure 1). The pattern from the average levels monitored by the acoustic devices in the active domestic wells was more detailed than the quarterly designated monitor well, but the patterns were generally similar. The results of the questionnaires are currently being analyzed to assess potential applications for this type of monitoring.

Will Brewer, Doctoral Student, Baylor University
Dr. Joe C. Yelderman, Jr., P.G., Professor of Geology
Baylor University

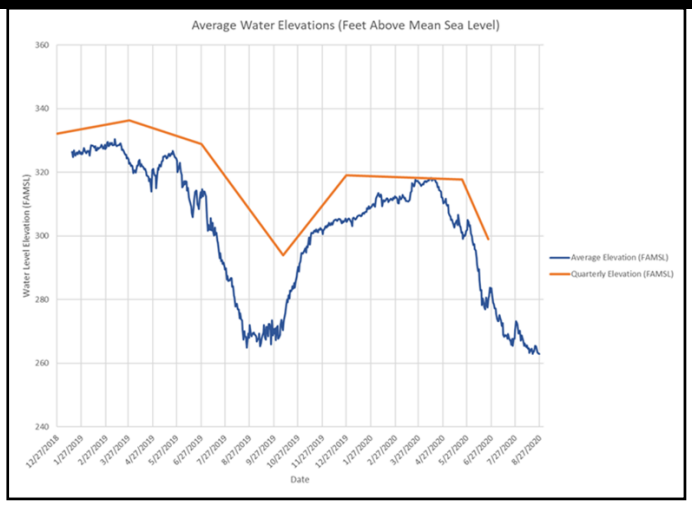


Figure 1. Average water levels from six nearby acoustic monitoring devices in the Middle Trinity aquifer exhibiting a strong seasonal drawdown pattern that did not recover to previous levels.

Groundwater Conservation Districts FAQs

What is a Groundwater Conservation District?

GCDs are political subdivisions of the state created to protect and balance private groundwater interests with the conservation, preservation, protection, recharging, and prevention of waste of groundwater, and the control of subsidence caused by withdrawal.

What does a GCD do?

Establish rules for the spacing and drilling of all water wells
Consider and permit non-exempt water wells
Maintain records of non-exempt wells in a district
Submit management plans to Texas Water Development Board for approval
Collaborate regionally in joint planning for the establishment of DFCs
Collect water level and water quality data on aquifers
Educate stakeholders on water conservation
Work to prevent harm to the aquifer due to pumping or contamination

How do GCDs allocate their budgets?

Education & Outreach
Science & Research
Operations
Conservation
Regional Planning

How many GCDs are there in Texas?

Currently, there are **98** GCDs plus 2 subsidence districts.

What rules must a GCD follow?

GCDs are governed by Chapter 36 of the Texas Water Code. As political subdivisions of the state, they are also subject to Chapter 49 of the Texas Administrative Code. Based on the rules established by the State, each GCD creates policies to accomplish the goals of their District.

Do I have to register my well with my GCD?

Yes, state law requires all wells to be registered with the GCD. This does not mean that all wells require a permit. All domestic wells and livestock wells that produce less than 25,000 gallons per day are exempt from permits. A GCD has the ability to exempt others in their rules.

More GCD FAQs

What is a management plan?

A management plan outlines a GCD's goals and course of action to achieve those goals. The management plan is submitted to TWDB for approval, and rules necessary to implement the management plan are adopted by each district.

What is a Desired Future Condition?

The desired future condition is a metric that is established during the joint planning process by GCDs in a common Groundwater Management Area (GMA). The DFCs provide for consistency in groundwater management in the GMA and a balance between groundwater protection and production.

How are GCDs funded?

GCDs are funded through property taxes, permitting fees and/or usage fees.

Groundwater Terms

Aquifer

An underground geological formation able to store and yield water in useable amounts. Aquifers in Texas can consist of sand, gravel, limestone, granite, and many other rock types that have pores or spaces for water to pass through.

Aquitard

An aquitard, or confining layer, is a zone within the earth that restricts the flow of groundwater.

Total Dissolved Solids (TDS)

TDS refers to the total concentration of dissolved constituents in solution. A TDS level of less than 1000 ppm is often considered freshwater, although many Texans' drinking water has a higher TDS.

Cone of Depression

A cone of depression is a conically shaped area of decreased water level (or pressure) that occurs when water is withdrawn from an aquifer. If wells are too close to each other, these cones may overlap and cause interference resulting in abnormally low water levels in those wells. In areas that withdraw more water than is recharged or flows to that area, a semi-permanent regional cone of depression may occur.

Abandoned Wells & Water Quality

There is a high environmental risk associated with abandoned or deteriorated wells, as they are a direct conduit from the surface to our groundwater resources. Because of this risk, it is highly recommended to have abandoned or deteriorated wells plugged. Some GCDs have have established programs to assist landowners in plugging abandoned wells.

How often should I have my well water tested?

It is recommended that well owners have their water professionally tested annually or when an observed change in water quality occurs.

Who can disinfect my well water?

It is recommend to contact a licensed water well driller or a pump installer to professionally disinfect your well.

Water Quality and Quantity in our Homes and Community

In 1995 the Texas Legislature consolidated groundwater conservation law into Chapter 36 of the Texas Water Code. The groundwater conservation districts (GCD), were created under Chapter 36 for the conservation, preservation, protection, recharging and prevention of waste of groundwater. Clearwater Underground Water Conservation District (CUWCD) was established in 1989, approved by voters in 1999 and opened its doors in 2002.

The Power & Duties of All GCDs:

Chapter 36, Texas Groundwater Code - All GCD's are obligated to develop and enforce rules to conserve and protect the ground water within its jurisdiction. A District must:

- Consider all groundwater uses and needs,
- Develop rules that are fair and impartial,
- Consider groundwater ownership rights,
- Consider the public's interest in conserving groundwater,
- Consider and set goals in a management plan.

Hidden Springs Community, Your Water Quality and Quantity are Critical Issues and Concerns

I am a property owner in the Hidden Springs subdivision and the Elected Director thus a member of the Board of Directors of Clearwater Underground Water Conservation District representing Precinct 2 of Salado and the Hidden Springs area.

The Hidden Springs subdivision contains approximately 326 lots and presently around 200 homes have been built. The last count showed 185+ wells of which draw from either the Edwards BFZ Aquifer or the Trinity Aquifer with an estimate of 50 to 85 wells to be added. As a property owner and Director, I am very focused and committed to protect all ground water rights and consider all groundwater uses and needs to maintain water quality and quantity.

A Critical Habitat – A Bell County Concern

In 2012 the US Fish and Wildlife Service (FWS) was challenged in a lawsuit (Center for Biological Diversity Case 1:19–cv-01607). The FWS was supposed to list proposed critical habitat. When FWS did not meet the agreed timeline a second lawsuit was filed (Center for Biological Diversity Case 1:19-cv-0167-KBJ). While the Salado salamander was listed as "threatened" in 2014, a critical habitat was never finalized. Since 2012, in its capacity as the local ground water regulator in Bell County, Clearwater (CUWCD) has taken on the role of repository of best available science. Clearwater together with the Bell County Adaptive Management Coalition (The Coalition) has funded a significant research campaign over a seven year period and the completion of a five year Salado Salamander Monitoring Study. This Coalition also includes a three phase comprehensive investigation seeking to better understand geo-hydrology of the Salado Springs Complex as it relates to the Salado Salamander. The combined effect of the Coalition efforts to designate a "Critical Habitat" for the Salado Salamander is unnecessary and not prudent. The Coalition along with the FWS and other stakeholders are submitting comments in response to this law suit. Our comments simply put are: "*The critical habitat designation currently proposed should not be adopted, as it results in unnecessary and burdensome designations in areas of Bell County that are being successfully managed by the District to support the stability of the Salado salamander. The proposed designation is based on science that cannot be supported.*

My Dear Friends and Neighbors the year 2020 has been incredibly challenging starting with the legislature, then federal regulatory challenges and compounded by COVID 19. Please know that as your elected Director, I stand firm on in Clearwater's commitment to protect and preserve groundwater availability and quality water.

C. Gary Young, Director Pct. 2
Clearwater UWCD

Towards Understanding Groundwater Flow with Isotopes and Dissolved Gases

Managing groundwater in complex karst terrain like the Northern Segment of the Edwards BFZ aquifer requires the use of multiple tools, methods, and avenues of investigation. Researchers at Baylor University have been working with CUWCD and the TWDB using isotopes of ^{2}H and ^{18}O, ^{3}H and ^{14}C as well as refrigerant gases of CFCs an SF_6 found in precipitation (Figure 1). The methods associated with these constituents can help detect interactions between groundwater and surface water as well as approximate apparent groundwater ages. Although the results of these studies have not been finalized, the preliminary interpretations support the inferences in other work by Clara Smith-Salgado and Stephanie Wong. Apparent groundwater ages are generally youngest in the Edwards outcrop west of Salado Creek, older near the unconfined/confined transition zone and oldest in the deeper confined portion of the aquifer. Both isotopes and dissolved gases indicate surface water contributions to the aquifer below Stillhouse Hollow Reservoir.

Figure 1. Will Anderson (CUWCD intern) in foreground with Will Brewer and Stephanie Wong sampling springs below Stillhouse hollow Reservoir for CFCs and SF_6 refrigerant gases.

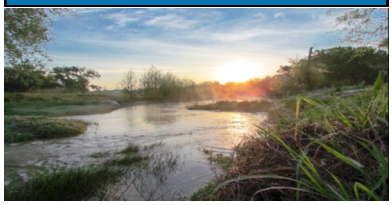
Will Brewer, Doctoral Student, Baylor University
Clara Smith-Salgado, Master's Student, Baylor University
Stephanie Wong, Doctoral Student, Baylor University
Dr. Joe C. Yelderman, Jr., P.G., Professor of Geology
Baylor University

(continued from page 2)

water supply and water quality. TRAM supports rules which would require APO groundwater supplies to meet the same regulatory criteria required for real estate developers, or to meet the requirements for lignite mines, including assessment of cumulative regional groundwater impacts of mining and other developments. TRAM supports creation of a Priority Groundwater Management area along the I-35 Corridor to focus on Edwards and Trinity Formation aquifers, including counties which do not have a groundwater conservation district. TRAM is currently preparing its advocacy plans for the upcoming 87th Texas Legislature.

Jim Brown, TRAM's Hydrology Advisor
Clearwater UWCD WellIntel Program Participant

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



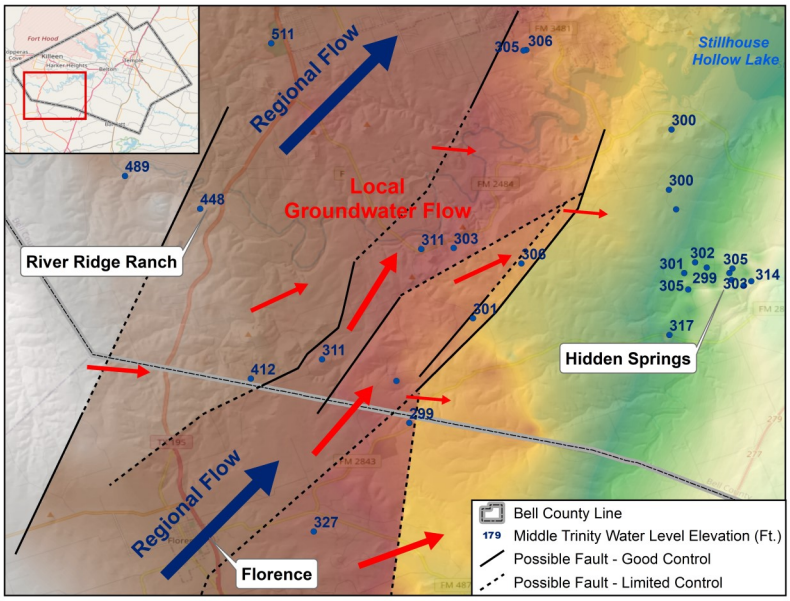
Developing a Conceptual Model for Groundwater Flow in Southwest Bell County

Over the last decade, landowners in Southwestern Bell County have observed local water level declines of over 100 feet in their wells. To address this public concern, Clearwater UWCD has invested in several studies aimed at understanding the Middle Trinity Hensell and Lower Trinity Hosston aquifer systems in this portion of the county. This has included the development and maintenance of the Clearwater 3D hydro-stratigraphic model.

Earlier this year Allan R. Standen, LLC completed a substantial update to the 3D hydro-stratigraphic model where an emphasis was placed on the subsurface geology in this area. Key findings from this update included identifying the Middle Trinity, Cow Creek Limestone as a possible aquifer below the Middle Trinity Hensell in western-southwestern Bell County and the identification of probable subsurface fault offsets impacting groundwater flow within the Middle Trinity Aquifer.

During September 2020, the Clearwater UWCD contracted Allan R Standen, LLC to expand on these findings. This new research will include a detailed review of all available water well driller reports and geophysical logs in an expanded study area to evaluate to what extent the underlying geology is a factor for these water level declines. This research will be completed in late 2020 and is part of a collaborative effort between Clearwater UWCD consultants and Baylor Geologic Studies to better understand the aquifer systems in Southwestern Bell County.

Vince Clause, Hydrogeologist
Allan R. Standen, LLC



Draft conceptual model framework for the Middle Trinity Aquifer in SW Bell County with possible fault/structural controls and grouwndwater flow paths.

Collaborative Project

The results of research directed by Clearwater Underground Water Conservation District along with the reports of local well owners and drilling contractors has confirmed that the hydrogeologic conditions and groundwater availability of the Trinity Aquifer are distinctly different in the southwestern area of Bell County from other parts of the county. Over the last few years, the District has invested in more than a dozen projects to investigate the Trinity Aquifer structure, lithology, hydraulic properties, and water-level changes in the area. This year, the District is upholding its dedication to science-based aquifer management through a collaborative project between the District's consultants to develop a holistic understanding of the Trinity Aquifer in southwestern Bell, northeastern Burnet, and northwestern Williamson counties.

One goal of this project is to synthesize the research in which Clearwater UWCD has invested into a single report documenting the consensus understanding of the District's hydrogeologic experts. During this coming year, the Clearwater UWCD consulting team will seek answers to specific questions regarding the faulting and configuration of the aquifer units in southwestern Bell, northeastern Burnet, and northwestern Williamson counties to arrive at a shared understanding on how these affect groundwater flow through the aquifer. The team will incorporate this information into the consensus report which will support Clearwater UWCD's policy refinement and dedication to science-based management of the groundwater resources within Bell County.

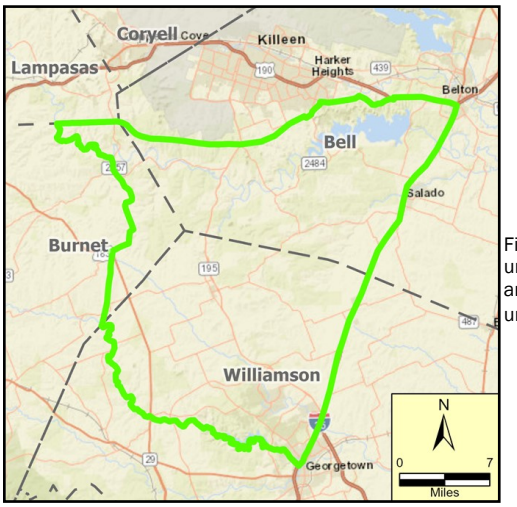


Figure 1. Study area to improve understanding of the faulting and configuration of the aquifer units.

Mike Keester, Senior Project Manager/ Hydrogeologist
LRE Water

Appendix H

CUWCD 2020 Education and Outreach Events

Date	People	Event Information	Presentation	Booth
1/21/20	235	Texas A&M AgriLife Crops Conference		X
1/23/20	365	Texas A&M AgriLife Grounds Conference		X
2/19/20	120	Saegert Elementary S.M.A.R.T. Event	X	X
3/5/20	42	Charter Oak Elementary Career Day	X	X
3/6/20	60	Miller Heights Elementary Career Day	X	X
Total reached	**822**			

Appendix I

Results of Groundwater Samples in CUWCD Lab

Test Date	District Well #	Lattitude	Longitude	Elevation	Depth (ft)	Aquifer[2]	Coliform Bacteria[3]	Ecoli	Conductivity (µs/cm)	Total Dissolved Solids (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)
FY20																		
10/7/2019	E-19-122P	30.942604	-97.602146	725.01	116	Edwards (BFZ)	Not Tested	Not Tested	682	332	7.49	340	340	0.007	3.38	0.15	7	0.2
10/7/2019	E-19-035P	30.936161	-97.584979	681.6	120	Edwards (BFZ)	Not Tested	Not Tested	888	448	8	320	280	0.005		0.17	85	1.4
10/8/2019	E-19-126P	30.9648	-97.61085	812.2	870	Middle Trinity	Not Tested	Not Tested	1294	643	8.78	340	100	0.001	0.037	0.06	169	2.5
10/9/2019	E-19-028P	30.856538	-97.570483	850.56	450	Edwards (BFZ)	Not Tested	Not Tested	1018	498	8.33	300	140	0.052	0.195	0.59	150	3.35
10/17/2019	E-19-223P	31.040275	-97.902062	907.59	408	Upper Trinity	Not Tested	Not Tested	3540	1885	8.26	340	240	0	0.001	0.04	664	4.2
10/29/2019	E-18-014P	30.91958	-97.61276	730.76	840	Middle Trinity	Presence	Absence	1348	672	8.58	320	80	0.002	0.025	0.04	153	3.7
11/19/2019	E-19-227P	30.972141	-97.613516	833.83	920	Middle Trinity	Not Tested	Not Tested	1208	599	9.8	360	80	0.001	2.4	0.37	2	
11/19/2019	E-19-226P	30.97325	-97.60672	816.29	120	Edwards (BFZ)	Not Tested	Not Tested	678	331	7.72	340	3450	0.006	2.3	0.06	7	0.2
11/26/2019	E-13-029P	31.159965	-97.466452	667.21	930	Middle Trinity	Absence	Absence	3320	1693	8.34	400	220	2.49	0.01	0.12	869	8.15
12/2/2019	E-19-230P	30.91142	-97.775581	868.19	580	Middle Trinity	Not Tested	Not Tested	2430	1253	7.95	360	260	0.008	0.054	0.07	691	5.1
12/9/2019	E-19-004P	30.996164	-97.516599	661.61	175	Edwards (BFZ)	Not Tested	Not Tested	638	321	8.23	300	300	0.004	0.042	5.17	36	1.17
12/10/2019	E-03-449P	30.993922	-97.49459	577.95	960	Middle Trinity	Absence	Absence	1825	924	8.51	360	120	0.001	0.021	0.04	311	3.4
12/16/2019	E-02-3141G	31.013652	-97.400789	502.04	30	Alluvium	Presence	Presence	1138	586	7.42	400	20	0.001	6.67	0.17	31	0
12/19/2019	E-19-045P	30.889829	-97.606535	734.17	80	Edwards (BFZ)	Not Tested	Not Tested	489	238	8.32	220	240	0.004	0.443	0.03	18	0.2
1/3/2020	E-02-3141G	31.013652	-97.400789	502.04	30	Alluvium	Presence	Presence										
1/3/2020	E-18-098P	31.277445	-97.487146	715.14	880	Middle Trinity	Not Tested	Not Tested	3250	1676	8.3	380	200	0.004	0.021	0.04	962	7.7
1/9/2020	E-02-3141G	31.013652	-97.400789	502.04	30	Alluvium	Absence	Absence	1240	616	7.29	440	320	0.001	6.42	0.25	27	0.7
1/31/2020	E-19-037P	30.932177	-97.594739	711.3	100	Edwards (BFZ)	Not Tested	Not Tested	746	366	7.77	340	360	0.002	3.68	0.11	13	0.3
1/31/2020	E-19-239P	30.93609	-97.596096	706.82	880	Middle Trinity	Not Tested	Not Tested	2280	1154	8	360	340	0	4.4	0.08	518	0.2
2/3/2020	E-19-110P	30.913564	-97.680503	843.79	820	Middle Trinity	Not Tested	Not Tested	1240	616	10.29	180	60	0.004	3.8	0.51	159	3.5
2/3/2020	E-19-036P	30.90059	-97.72944	1001.31	880	Middle Trinity	Not Tested	Not Tested	906	447	8.86	260	100	0.005	7.1	0.09	143	1
2/3/2020	E-19-240P	30.900852	-97.7151611	968.48	860	Middle Trinity	Not Tested	Not Tested	774	379	8.08	280	340	0.006	2.48	0.35	121	0.5
2/6/2020	N1-19-003P	30.943791	-97.800554	901.64	632	Lower Trinity	Not Tested	Not Tested	1943	985	8.83	400	80	0.003	3.1	0.99	99	5
2/6/2020	E-19-231P	30.969962	-97.806232	844.53	520	Lower Trinity	Not Tested	Not Tested	2023	1031	8.38	380	120	0.015	2.4	0.14	223	5
2/13/2020	N2-20-001G	30.983801	-97.507313	586.84	160	Edwards (BFZ)	Not Tested	Not Tested	420	202	8.67	180	200	0.002	0.08	0.08	53	1.68
2/26/2020	E-20-007P	30.93851	-97.59019	699.66	890	Middle Trinity	Not Tested	Not Tested	1530	764	8.45	340	80	0.004	0.004	0.1	203	2.5
2/28/2020	E-18-106P	30.88129	-97.6028	761.8	158	Edwards (BFZ)	Not Tested	Not Tested	682	333	7.91	260	280	0.005	5.8	0.18	90	2.3
2/28/2020	N2-19-007P	30.9271	-97.513962	693.06	320	Edwards (BFZ)	Not Tested	Not Tested	1543	773	8.44	300	120	0.003	9.7	0.66	216	6.15
3/13/2020	E-20-005P	30.931658	-97.791021	901.7	520	Middle Trinity	Not Tested	Not Tested	1229	610	7.77	280	300	0	0	0	280	3.5
3/13/2020	E-19-236P	30.929466	-97.77634	827.76	500	Middle Trinity	Not Tested	Not Tested	1370	680	8.25	340	120	0.006	2.5	0.14	204	4
3/13/2020	E-19-237P	30.930066	-97.774845	818.74	500	Middle Trinity	Not Tested	Not Tested	1826	925	8.16	340	200	0.004	0.05	0.12	405	4.5
3/17/2020	N2-08-001P	30.901057	-97.654399	883.96	900	Middle Trinity	Not Tested	Not Tested	1347	668	8.6	340	100	0.002	0.027	0.16	157	2.9
3/17/2020	N2-08-001P	30.901057	-97.654399	883.96	900	Middle Trinity	Not Tested	Not Tested	1319	659	8.2	320	100	0.002	0.031	0.01	161	3
3/17/2020	N2-08-001P	30.901057	-97.654399	883.96	900	Middle Trinity	Not Tested	Not Tested	1321	659	8.15	340	80	0.005	0.022	0.02	158	3
3/17/2020	N2-08-001P	30.901057	-97.654399	883.96	900	Middle Trinity	Not Tested	Not Tested	1314	653	8.09	340	100	0.001	0.01	0.03	162	3.1
3/17/2020	E-12-054P	30.96737	-97.795157	851.5	560	Middle Trinity	Absence	Absence	2155	1092	8.2	400	80	0.004	0.305	0.09	188	6.5
4/7/2020	E-19-015GU	30.937002	-97.821238	933.46	535	Middle Trinity	Not Tested	Not Tested	1301	651	8.7	320	80	0.002	0.058	0.46	183	3.5
5/4/2020	E-02-158G	31.123038	-97.4748007	680	150	Edwards Equivalent	Not Tested	Not Tested	768	375	7.83	380	420	0.001	0.8	0.29	9	1.5
5/4/2020	E-20-010P	30.94337	-97.59093	720.05	900	Middle Trinity	Not Tested	Not Tested	1516	758	8.25	340	80	0.009	2	0.07	219	2.5
5/4/2020	E-20-006P	30.936637	-97.584012	668.3	180	Edwards (BFZ)	Not Tested	Not Tested	734	358	7.76	320	320	0.329		0.34	36	1
5/4/2020	E-20-001P	30.934722	-97.596944	726.81	86	Edwards (BFZ)	Not Tested	Not Tested	837	411	7.76	360	340	0.008		0.54	10	0
5/6/2020	E-19-233P	30.88598	-97.60145	755.63	920	Middle Trinity	Not Tested	Not Tested	1142	560	8.75	340	80	0.001	0.05	0.05	127	2.2
5/7/2020	E-17-036P	30.97417	-97.48381	591.42	215	Edwards (BFZ)	Not Tested	Not Tested	2182	1106	8.42	340	120	0.007		0.03	334	5.4
5/7/2020	E-19-140P	30.966067	-97.614138	823.43	130	Edwards (BFZ)	Not Tested	Not Tested	582	282	8.52	220	240	0.009	3.9	0.13	15	0.1
5/11/2020	E-20-072P	30.815119	-97.347741	526.88	23	Alluvium	Not Tested	Not Tested	993	449	7.66	300	240	0.004	58.5	36	33	0
5/11/2020	E-19-229P	31.03166	-97.459578	589.61	200	Edwards Equivalent	Not Tested	Not Tested	646	314	7.85	320	320	0.007	5.7	0.24	41	2
5/11/2020	E-02-3219G	30.915932	-97.688751	888.82	775	Middle Trinity	Absence	Absence	2240	1135	7.97	320	240	0.007	10	0.09	617	4.5
5/12/2020	E-19-228P	30.987164	-97.82196	732.94	320	Middle Trinity	Not Tested	Not Tested	1627	819	8.61	360	100	0.002	0.057	0.08	243	5.35
5/13/2020	E-20-011P	30.970528	-97.71373	752.39	700	Middle Trinity	Not Tested	Not Tested	2192	1113	8.91	480	60	0.001	0.062	0.13	183	10.5
5/18/2020	E-20-074P	30.97421	-97.62604	818.87	900	Edwards (BFZ)	Not Tested	Not Tested	717	350	7.63	340	420	0.001	0.877	0.1	18	0.17
5/19/2020	E-08-003P	30.994028	-97.718373	820.23	750	Lower Trinity	Not Tested	Not Tested	3330	1714	8.59	460	100	0.002	0.065	0.17	170	6.3
5/26/2020	N2-15-012P	30.962047	-97.501339	542.71	150	Edwards (BFZ)	Not Tested	Not Tested	1518	757	8.24	320	140	0.003	0.089	0.02	197	5.95
5/29/2020	E-02-2837G	30.969316	-97.501607	613.98	150	Edwards (BFZ)	Not Tested	Not Tested	1492	741	8.58	320	140	0.001	0.027	0.02	161	6
6/2/2020	E-19-221P	30.88296	-97.60147	755.15	900	Middle Trinity	Not Tested	Not Tested	1022	507	8.8	300	80	0.001	0.065	0.41	109	2.3
6/10/2020	N1-20-001P	31.001199	-97.45883	487.86	190	Edwards (BFZ)	Not Tested	Not Tested	917	449	7.79	340	380	0.007		0.08	69	0.5
6/10/2020	E-02-3091G	31.159422	-97.482658	666.68	950	Middle Trinity	Not Tested	Not Tested	3480	1791	8.37	400	240	0.004	5.6	0.13	924	8
6/11/2020	E-20-076P	31.063205	-97.226239	487.54	41	Alluvium	Not Tested	Not Tested	1535	766	7.64	320	380	0.047	24	0.22	234	1.15

6/17/2020	E-08-041P	31.048948	-97.502786	662.48	190	Edwards Equivalent	Not Tested	Not Tested	773	375	8.17	320	340	0.001	3.36	0.1	16	0.67
6/19/2020	E-08-054P	30.935833	-97.598336	718.74	150	Edwards (BFZ)	Not Tested	Not Tested	805	397	7.71	360	420	0.008		0.36	14	0.8
6/19/2020	N2-07-010G	30.931035	-97.541089	683.23	190	Edwards (BFZ)	Not Tested	Not Tested	655	319	8.44	280	320	0.006	3.5	0.33	29	1.9
6/19/2020	E-02-021P	30.932858	-97.493473	679.86	420	Edwards (BFZ)	Not Tested	Not Tested	1582	790	7.97	320	160	0.006		0.08	217	6.1
6/29/2020	E-19-222P	30.971826	-97.610782	832.18	95	Edwards (BFZ)	Not Tested	Not Tested	650	316	7.8	300	320	0.006	2.28	0.14	8	0
6/29/2020	E-20-077P	30.962338	-97.584156	683.43	40	Edwards (BFZ)	Not Tested	Not Tested	681	332	7.75	32	320	0.001	0	0.16	5	0
6/30/2020	E-20-009P	31.122092	-97.492774	679.72	900	Middle Trinity	Not Tested	Not Tested	4230	2198	8.42	320	240	0.003	0.062	0.18	654	0.15
7/8/2020	E-17-003P	30.956949	-97.52614	602.73	160	Edwards (BFZ)	Absence	Absence	858	419	7.91	380	380	0	0	0.22	52	0.95
7/16/2020	N1-20-001P	31.001199	-97.45883	487.86	190	Edwards (BFZ)	Not Tested	Not Tested	945	455	8.28	360	400	0.019	1.73	0.11	83	0.8
7/16/2020	E-17-036P	30.97417	-97.48381	591.42	215	Edwards (BFZ)	Not Tested	Not Tested	2200	1112	8.23	360	100	0.018	0.085	0.08	352	5.25
7/16/2020	E-19-038P	30.972992	-97.483887	576.83	200	Edwards (BFZ)	Not Tested	Not Tested	2194	1111	8.26	360	120	0.022	0.076	0.23	343	5.5
7/16/2020	E-20-091GU	30.941653	-97.519885	603.18	192	Edwards (BFZ)	Not Tested	Not Tested	661	322	8.47	300	260	0.017	0.094	0.08	30	1.6
7/16/2020	E-02-2136G	30.967048	-97.803133	830.11	450	Upper Trinity	Absence	Absence	1438	716	8.31	340	80	0.018	0.951	0.07	207	4.7
7/20/2020	E-20-073P	30.983088	-97.481514	598.59	200	Edwards (BFZ)	Not Tested	Not Tested	2210	1101	8.73	360	100	0.015	0.053	0.35	347	5.75
7/20/2020	E-20-084P	30.936562	-97.588181	687.32	880	Middle Trinity	Not Tested	Not Tested	1813	912	8.6	340	100	0.013	0.076	0.1	325	3.05
7/23/2020	E-20-080P	30.9224	-97.72599	815.05	750	Middle Trinity	Not Tested	Not Tested	2124	1065	8.84	420	80	0.017	0.053	0.08	69	5.56
7/23/2020	E-20-086P	30.931465	-97.773983	831.63	480	Middle Trinity	Not Tested	Not Tested	2059	1038	8.12	300	240	0.02	1.09	0.08	470	5.15
7/24/2020	E-17-049P	30.907029	-97.566924	709.22	155	Edwards (BFZ)	Not Tested	Not Tested							0.086			
7/24/2020	E-20-001P	30.934722	-97.596944	726.81	86	Edwards (BFZ)	Not Tested	Not Tested							3.01			
7/24/2020	E-18-016P	30.936372	-97.597269	704.09	870	Middle Trinity	Not Tested	Not Tested							0.091			
7/24/2020	E-08-054P	30.935833	-97.598336	718.74	150	Edwards (BFZ)	Not Tested	Not Tested							0.084			
7/24/2020	E-18-050P	30.94115	-97.5953	712.03	895	Middle Trinity	Not Tested	Not Tested	2041	1037	8.71	360	100	0.015	0.156	0.11	366	2.9
7/24/2020	E-19-052P	30.93848	-97.59362	677.84	840	Middle Trinity	Not Tested	Not Tested	1586	792	8.5	380	80	0.019	0.724	0.08	160	2.8
7/24/2020	E-19-027P	30.9454	-97.59301	727.47	123	Edwards (BFZ)	Not Tested	Not Tested							2.24			
7/24/2020	E-19-119P	30.9451	-97.58626	722.78	900	Middle Trinity	Not Tested	Not Tested							0.19			
7/24/2020	E-19-035P	30.936161	-97.584979	681.6	120	Edwards (BFZ)	Not Tested	Not Tested							2.87			
7/24/2020	E-20-006P	30.936637	-97.584012	668.3	180	Edwards (BFZ)	Not Tested	Not Tested							2.11			
7/29/2020	E-20-079P	30.812493	-97.312919	524.61	50	Alluvium	Not Tested	Not Tested	941	463	7.56	380	360	0.002	0.18	0.08	52	0.23
7/28/2020	E-02-2208G	31.002856	-97.501001	588.62	107	Edwards (BFZ)	Presence	Absence	672	328	8.3	300	280	0.003	1.28	0.09	20	0.45
8/6/2020	E-18-035P	31.125635	-97.487166	654.91	1010	Lower Trinity	Absence	Absence	2128	1075	8.81	240	140	0	0	0	259	2.25
8/10/2020	E-20-081P	30.856819	-97.438691	574.43	33	Alluvium	Not Tested	Not Tested	855	419	8.11	240	340	0.001	33.6	0	35	0.5
8/11/2020	E-02-349G	30.958242	-97.484329	532.42	207	Edwards (BFZ)	Not Tested	Not Tested	2192	1106	8.65	400	100	0.001	0.089	0	356	4.6
8/13/2020	E-20-095G	30.906456	-97.669521		800	Middle Trinity	Presence	Absence	3200	1648	8.24	400	400	0.003	1.63	0.06	1076	5.85
8/14/2020	E-20-088P	30.935626	-97.823789	948.66	570	Middle Trinity	Not Tested	Not Tested	1575	783	8.56	380	100	0.001	0.386	0.12	191	3.45
8/14/2020	E-20-082P	30.977336	-97.801165	807.98	460	Middle Trinity	Not Tested	Not Tested	1379	678	8.75	380	80	0.007	0.138	0.16	170	3.65
8/17/2020	E-02-2884G	31.019126	-97.424135	502.54	0	Alluvium	Not Tested	Not Tested	1644	820	7.46	560	840	0.031	0.148	0.62	135	0.13
8/20/2020	N2-20-006G	31.029541	-97.472035	622.63	200	Edwards Equivalent	Not Tested	Not Tested	600	293	8.36	280	360	0	0.604	0.14	31	1.3
8/24/2020	E-02-021P	30.932858	-97.493473	679.86	420	Edwards (BFZ)	Not Tested	Not Tested	1573	770	8.84	340	140	0.026	2.9	0.47	235	6
8/24/2020	E-20-089P	30.911832	-97.713903	892.53	750	Middle Trinity	Not Tested	Not Tested	1478	736	8.25	320	200	0.001	1.9	0.08	350	2.45
9/4/2020	E-07-011P	30.908888	-97.742948	1021.92	787	Middle Trinity	Not Tested	Not Tested	1131	559	8.82	340	80	0.006	0.112	0.43	149	2.35
9/9/2020	E-06-005P	30.933056	-97.606402	748.17	880	Middle Trinity	Not Tested	Not Tested	4630	2400	8.32	460	340	0.002	0.129	0.15	1268	5.4
9/14/2020	E-20-106G	30.990589	-97.36348	499.93	20	Alluvium			959	471	7.58	320	120	0.041	26	0.17	33	0.24
9/17/2020	E-20-085P	30.977688	-97.776804	766.65	600	Lower Trinity	Not Tested	Not Tested	2970	1524	8.63	440	80	0.007	5	0.07	225	6.7
9/17/2020	E-20-094P	30.97039	-97.79688	776.46	515	Middle Trinity	Not Tested	Not Tested	2310	1169	8.83	420	60	0.019	0.22	0.16	150	5.9
9/18/2020	E-17-056P	30.900224	-97.687511	835.37	97	Edwards (BFZ)	Not Tested	Not Tested	631	308	8.12	260	260	0.019	2.63	0.63	26	0.69

Appendix J

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.

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Appendix K

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

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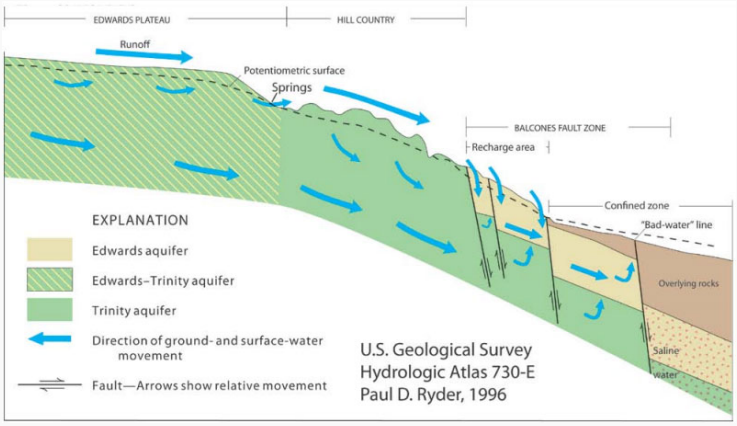
Appendix L

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

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Appendix M

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 #	58-04-628	58-04-502	58-04-508	58-04-509	58-04-602	58-04-623	58-04-702	58-04-510	58-04-626	58-04-512	58-04-513	58-04-816	58-04-627	58-04-409	None	58-04-408	58-04-631	58-13-502	None	58-03-702	None	None	None
CUWCD #	M-08-002G	M-13-004G	N2-02-005G	N2-02-007G	N2-02-003G	N2-02-002G	M-06-001G	N2-02-008G	N2-02-009G	N2-02-010G	N2-02-011G	M-08-001G	N2-03-004G	E-04-077P	E-08-054P	E-10-005P	N2-11-004P	M-12-014G	E-13-009P	M-14-001P	N2-15-005P	N2-15-004P	N2-17-001P
Well Name	Salado Cemetary	Salado ISD	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#1)	Stagecoach (deep)	Patterson's Crossing	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Rest Stop	Salado ISD (MS)	Peters	Young	Coppin	Charles Broecker	City of Bartlett	Thaler	Gault - Edwards	Scott Law Well #2	Scott Law Well #1	Heart of Texas Feed
Highest	-4.70	-38.30	-56.14	-68.64	-21.57	-66.10	-69.82	-60.00	-58.40	-75.59	-72.49	-4.49	-34.60	-28.50	-37.30	-58.30	-67.10	0.00	-76.20	-53.32	-45.41	-46.54	-71.30
Lowest	-129.44	-60.00	-117.28	-186.84	-64.07	-106.50	-78.25	-120.10	-97.70	-103.19	-103.21	-145.82	-50.70	-39.40	-39.70	-73.30	-78.10	-73.80	-128.10	-59.10	-83.61	-83.60	-75.10
2/5/1941 12:00																		0.00					
7/23/1966 12:00		-60.00																					
2/20/1968 12:00					-35.00																		
1/1/1980 0:00							-71.00																
1/1/1981 0:00					-29.30																		
1/1/1985 0:00		-50.30																					
1/1/1993 0:00						-83.80																	
9/2/1997 12:00								-60.00															
3/16/1998 12:00													-40.00										
11/4/1999 12:00									-90.00														
8/8/2000 12:00										-84.00	-86.00												
1/1/2003 0:00		-48.50			-63.20	-83.40	-78.25						-38.20	-28.50									
7/1/2003 0:00		-55.90			-38.20	-88.00	-71.96						-41.00										
1/1/2004 0:00		-49.00			-29.50	-88.10	-72.72						-39.80										
7/1/2004 0:00		-48.40			-32.70	-91.20	-71.84						-37.90										
1/1/2005 0:00		-47.00			-27.20	-84.70	-72.20						-37.50										
7/1/2005 0:00		-51.60			-36.00	-85.60	-72.17						-41.80					-37.10					
1/1/2006 0:00		-51.60			-36.50	-81.40							-41.70					-47.30					
4/1/2006 0:00											-102.79												
7/1/2006 0:00		-43.40			-41.84	-93.70	-72.73						-42.00					-49.30					
9/1/2006 0:00		-42.90			-34.09	-81.20	-72.87						-41.50					-52.90					
10/1/2006 0:00		-44.40			-33.21	-84.20	-72.95						-43.00					-57.40					
11/1/2006 0:00		-43.60			-30.09	-79.40							-42.20					-62.10					
1/1/2007 0:00		-49.30			-27.55	-78.70	-72.08						-39.20					-57.80					
7/1/2007 0:00		-44.60			-31.50	-70.70	-69.87											-46.50					
7/4/2007 0:00													-34.60										
1/1/2008 0:00		-49.60			-31.42	-84.90	-72.07						-40.30					-43.60					
7/1/2008 0:00	-124.80	-52.00			-40.17	-70.70	-69.82						-42.00					-43.50					
1/1/2009 0:00	-125.47	-51.40			-38.92	-87.20	-72.88					-71.91	-41.80					-58.00					
7/1/2009 0:00	-128.15	-53.50			-34.92	-84.10	-73.19					-83.61	-49.90					-60.30					
1/1/2010 0:00	-118.18	-48.20			-27.12	-66.10	-70.43					-39.81	-38.00			-58.30							
7/1/2010 0:00	-120.46	-50.50			-31.53	-80.10						-72.83	-40.50					-55.00					
1/1/2011 0:00		-49.20			-31.43	-81.00	-72.05					-64.63	-41.40					-55.80					
7/1/2011 0:00	-125.39	-53.30			-35.52	-85.60	-71.05					-81.51	-42.90					-58.20					
9/1/2011 0:00	-126.41	-53.80			-37.83	-87.60	-71.15					-89.10	-44.20					-65.60					
11/1/2011 0:00	-126.09	-52.60			-32.53	-82.00	-72.08					-80.97	-42.80				-76.40	-73.80					
1/1/2012 0:00	-125.18	-50.00			-30.73	-78.10	-74.20					-64.78	-41.00					-73.00					
5/1/2012 0:00	-123.57	-50.60			-31.20	-80.30	-73.83					-79.17	-40.20					-64.40					
1/1/2013 0:00	-125.18	-49.60			-32.40	-83.80	-71.20					-71.54	-40.60					-65.90					
1/7/2013 0:00			-58.00	-76.00				-109.60	-66.10	-87.00	-101.90												
3/6/2013 0:00																			-83.90				
4/1/2013 0:00			-59.50	-78.50				-114.30	-67.60	-89.70	-102.30												
5/1/2013 0:00	-126.78	-49.80			-31.60	-84.90	-73.57					-64.79	-40.40					-60.00					
8/1/2013 0:00	-129.44	-52.30			-32.20	-82.50	-73.70					-84.93	-42.80			-73.30	-67.10	-61.70					
8/5/2013 0:00			-70.24	-89.90				-115.90	-93.70	-97.45	-85.30												
11/1/2013 0:00	-125.05	-49.50			-29.40	-79.50	-73.60					-53.35	-42.10	-32.30		-66.90							
12/2/2013 0:00			-57.60	-74.60				-83.90	-64.50	-85.67	-93.30												
1/6/2014 0:00			-58.30	-73.50				-102.30	-63.90	-85.67	-102.50												
2/1/2014 0:00	-124.22	-49.70			-30.20	-78.40	-73.64					-67.54	-40.60	-32.50		-67.00	-72.80	-59.20		-59.10			
4/7/2014 0:00			-60.34	-75.60				-108.72	-65.50	-87.17	-102.90												
5/1/2014 0:00	-125.66	-52.00			-31.00	-88.70	-73.98					-72.25	-45.30	-37.70		-70.70	-77.00	-61.40		-57.20			
8/1/2014 0:00	-128.09	-52.50			-33.80	-90.20	-74.24					-82.71	-45.50	-37.90		-70.90		-62.80		-57.30			
8/4/2014 0:00			-70.74	-88.30				-115.80	-91.80	-95.77	-83.91												
11/1/2014 0:00	-127.60	-43.70			-31.20	-87.00	-74.33					-77.79	-50.70	-32.90		-67.60	-78.10	-56.80		-58.58			
12/1/2014 0:00			-58.44	-77.14				-110.90	-66.90	-88.27	-102.50												
1/1/2015 0:00	-125.52	-41.10			-29.60	-77.70	-73.77					-30.01	-47.50	-33.20		-67.40	-72.70	-59.00		-59.01			
1/5/2015 0:00			-58.30	-76.30	-31.07			-89.90	-66.10	-87.57	-102.10												
2/2/2015 0:00			-58.24	-83.04	-29.77			-108.10	-65.70	-86.47	-102.71												
3/2/2015 0:00			-58.44	-74.74	-30.67			-105.90	-64.70	-86.37	-102.81												
4/6/2015 0:00			-57.94	-83.50	-29.17			-108.70	-65.70	-86.07	-103.10												
5/4/2015 0:00			-67.54	-84.54	-29.77			-110.60	-88.90	-86.87	-103.21												
6/1/2015 0:00	-121.67	-38.30	-64.64	-81.14	-23.97	-74.80	-72.97	-106.30	-63.50	-80.47	-76.61	-23.43	-45.60	-32.90		-61.10	-70.50	-53.80		-53.32			
7/6/2015 0:00			-69.34	-80.74	-26.77			-83.20	-62.50	-83.07	-76.61												
8/3/2015 0:00			-69.74	-82.14	-54.87			-110.50	-85.30	-87.47	-77.70												
9/14/2015 0:00	-122.76	-50.40	-68.04	-83.54	-27.70	-79.30	-72.70	-113.50	-65.30	-88.89	-78.51	-77.55	-44.10	-39.40		-69.20	-76.30	-59.50		-58.26			
10/5/2015 0:00			-68.54	-84.84	-28.47			-113.20	-66.50	-91.30	-79.80												
11/2/2015 0:00			-57.54	-83.04	-25.07			-91.60	-64.70	-82.87	-77.21												
11/30/2015 0:00	-120.44	-45.40			-23.90	-70.80	-72.03					-16.20	-38.80	-35.10		-61.20	-72.90	-59.00		-54.33			
12/4/2015 0:00			-57.34																				
12/7/2015 0:00			-57.34	-142.28	-24.77			-84.00	-61.20	-79.27	-102.60												
1/1/2016 0:00							-72.83																
1/4/2016 0:00			-57.34	-79.54	-24.60			-83.50	-61.30	-78.09	-102.49												
1/5/2016 0:00	-119.60	-47.00			-24.60	-69.30	-71.91					-61.53	-38.80	-33.00		-62.20	-73.80	-55.40		-57.16			
2/1/2016 0:00			-57.50	-70.34	-25.60			-80.50	-60.20	-79.69	-102.59												
3/7/2016 0:00			-57.90	-71.94	-26.60			-105.50	-61.50	-81.69	-102.69												
4/4/2016 0:00			-66.34	-73.50	-25.80			-109.10	-62.70	-81.10	-102.79												
4/16/2016 0:00														-30.90									
4/19/2016 0:00	-120.16	-47.50			-26.30	-68.50	-71.39					-15.78	-38.14			-62.65	-71.50	-50.50		-56.49			
5/2/2016 0:00			-58.50	-71.54	-25.40			-105.10	-61.30	-80.00	-102.69												
6/1/2016 0:00	-117.89						-71.27													-55.51			
6/2/2016 0:00												-4.49											
6/6/2016 0:00			-56.70	-68.64	-23.00			-101.90	-58.40	-76.29	-102.99												
7/5/2016 0:00			-67.50	-73.74	-25.20			-109.70	-61.00	-82.69	-74.19												
8/1/2016 0:00			-67.74	-80.30	-26.40			-109.20	-83.70	-85.20	-75.79												
8/29/2016 0:00			-65.94	-72.54	-25.40			-109.00	-61.70	-82.09	-74.89												
8/30/2016 0:00	-119.40	-48.33				-74.22	-71.40					-53.40						-53.60		-56.90	-58.50	-59.50	
10/3/2016 0:00			-61.40	-73.54	-26.40			-111.90	-62.90	-84.49	-76.49												
10/6/2016 0:00	-120.43						-71.60					-74.40											
10/19/2016 0:00	-121.11						-71.75					-73.02								-57.56			
11/1/2016 0:00	-121.40						-71.78													-57.75			
11/2/2016 0:00												-145.82											
11/7/2016 0:00			-59.14	-73.34	-27.20			-110.30	-62.90	-82.69	-76.69												
11/28/2016 0:00			-58.74	-72.74	-27.40			-108.70	-62.50	-82.89	-76.69												
12/1/2016 0:00	-121.79						-71.95					-65.21								-57.79			
12/6/2016 0:00	-121.67						-71.93					-51.22								-57.74			
12/12/2016 0:00			-58.14	-72.50	-27.57			-101.70	-63.14	-83.29	-102.69												
12/19/2016 0:00			-58.34	-72.54	-27.77			-107.30	-63.20	-83.29	-102.49												
1/5/2017 0:00	-121.90	-48.80				-75.40	-72.00					-63.20	-40.80				-74.69	-52.19		-58.00	-47.70	-47.40	
1/6/2017 0:00																			-84.10				
1/9/2017 0:00			-58.34	-73.54	-27.80			-107.50	-63.70	-84.09	-102.69												
2/6/2017 0:00	-121.71		-58.14	-73.54	-27.37		-72.06	-88.30	-62.90	-83.09	-85.23	-53.37								-57.52			
3/5/2017 0:00	-121.11						-72.23													-57.43			
3/6/2017 0:00			-57.94	-72.74	-27.20			-86.80	-62.10	-82.29	-83.69	-43.11											
3/31/2017 0:00	-120.90	-48.10				-75.00	-72.35					-60.13	-47.20	-35.69		-65.50		-48.00	-81.30	-57.48	-46.90	-47.60	
4/3/2017 0:00			-61.70	-72.74	-26.97			-86.90	-62.10	-102.70	-82.49												
5/8/2017 0:00	-121.15		-67.94	-82.94	-55.17		-72.46	-112.70	-86.70	-83.29	-102.99	-69.82								-57.26			
6/4/2017 0:00	-121.34						-72.48													-57.43			
6/5/2017 0:00			-68.44	-78.94	-27.37			-82.10	-62.60	-84.19	-76.49	-63.60											
7/3/2017 0:00			-70.94	-83.14				-110.80	-85.30	-90.99	-79.29												
7/6/2017 0:00	-122.22	-44.70				-88.90	-72.59					-73.75	-50.30	-33.10	-37.40	-66.50	-75.19	-46.40	-105.10	-58.06	-58.00	-58.60	
7/31/2017 0:00			-71.54	-85.04	-31.17			-114.90	-87.10	-94.89	-81.59												
8/9/2017 0:00	-122.76						-72.67					-71.86								-57.88			
9/5/2017 0:00	-123.00						-72.70					-54.90								-56.92			
9/11/2017 0:00				-76.74	-28.77			-111.80	-90.50	-93.09	-80.49												
10/2/2017 0:00			-70.54	-75.14	-29.07			-110.80	-66.00	-92.89	-79.69												
10/3/2017 0:00		-52.20				-79.40							-44.10	-33.50	-37.30	-66.90	-74.69	-52.50	-99.10		-56.50	-57.30	
11/6/2017 0:00	-123.66		-70.14	-186.84	-29.37		-72.85		-64.70	-91.99	-80.09	-54.90								-58.36			
11/27/2017 0:00																							-71.80
12/4/2017 0:00	-123.96		-70.54	-76.24	-29.77		-72.85	-111.90	-91.50	-86.99	-102.89	-56.04								-58.41			
12/29/2017 0:00	-123.84	-51.20				-81.20	-72.94					-61.67		-33.90	-37.60	-66.70	-74.89	-53.09	-79.30	-58.49	-47.50	-48.50	
1/8/2018 0:00			-61.54	-83.80	-50.37				-64.40	-85.29	-102.29		-43.60										
2/5/2018 10:04												-56.45											
2/5/2018 10:05	-124.09																						
2/5/2018 10:06							-72.95																
2/5/2018 10:07																				-58.50			
2/5/2018 13:10					-50.47																		

State #	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
CUWCD #	E-02-021P	N2-07-010G	E-18-043GU	E-18-107P	E-19-028P	E-19-029P	E-19-037P	E-19-079GU	E-19-081GU	E-19-113P	N1-18-002P	N1-20-001P	N1-20-002P	N2-10-002P	N2-11-005P	N2-15-010P	N2-15-012P	N2-19-007P	N2-20-001G				
Well Name																							
Highest	-82.30	-101.30	-47.00	-65.70	-243.60	-238.65	-37.40	-13.42	-11.83	-59.40	-239.40	-33.00	-62.00	-74.70	-75.20	-26.43	-26.49	-87.99	-70.39				
Lowest	-93.20	-106.90	-49.10	-66.80	-243.60	-238.65	-37.90	-14.26	-13.08	-87.40	-242.20	-99.50	-62.00	-74.80	-85.50	-44.35	-47.90	-96.80	-70.39				
2/5/1941 12:00																							
7/23/1966 12:00																							
2/20/1968 12:00																							
1/1/1980 0:00																							
1/1/1981 0:00																							
1/1/1985 0:00																							
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12/19/2016 0:00																							
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1/6/2017 0:00																							
1/9/2017 0:00																							
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3/5/2017 0:00																							
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4/3/2017 0:00																							
5/8/2017 0:00																							
6/4/2017 0:00																							
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11/27/2017 0:00																							
12/4/2017 0:00																							
12/29/2017 0:00																							
1/8/2018 0:00																							
2/5/2018 10:04																							
2/5/2018 10:05																							
2/5/2018 10:06																							
2/5/2018 10:07																							
2/5/2018 13:10																							

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 #	58-04-628	58-04-502	58-04-508	58-04-509	58-04-602	58-04-623	58-04-702	58-04-510	58-04-626	58-04-512	58-04-513	58-04-816	58-04-627	58-04-409	None	58-04-408	58-04-631	58-13-502	None	58-03-702	None	None	None	E-02-021P	N2-07-010G	E-18-043GU	E-18-107P	E-19-028P	E-19-029P	E-19-037P	E-19-079GU	E-19-081GU	E-19-113P	N1-18-002P	N1-20-001P	N1-20-002P	N2-10-002P	N2-11-005P	N2-15-010P	N2-15-012P	N2-19-007P	N2-20-001G
CUWCD #	M-08-002G	M-13-004G	N2-02-005G	N2-02-007G	N2-02-003G	N2-02-002G	M-06-001G	N2-02-008G	N2-02-009G	N2-02-010G	N2-02-011G	M-08-001G	N2-03-004G	E-04-077P	E-08-054P	E-10-005P	N2-11-004P	M-12-014G	E-13-009P	M-14-001P	N2-15-005P	N2-15-004P	N2-17-001P																				
Well Name	Salado Cemetary	Salado ISD	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#1)	Stagecoach (deep)	Patterson's Crossing	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Rest Stop	Salado ISD (MS)	Peters	Young	Coppin	Charles Broecker	City of Bartlett	Thaler	Gault - Edwards	Scott Law Well #2	Scott Law Well #1	Heart of Texas Feed																				
Highest	-4.70	-38.30	-56.14	-68.64	-21.57	-66.10	-69.82	-60.00	-58.40	-75.59	-72.49	-4.49	-34.60	-28.50	-37.30	-58.30	-67.10	0.00	-76.20	-53.32	-45.41	-46.54	-71.30	-82.30	-101.30	-47.00	-65.70	-243.60	-238.65	-37.40	-13.42	-11.83	-59.40	-239.40	-33.00	-62.00	-74.70	-75.20	-26.43	-26.49	-87.99	-70.39
Lowest	-129.44	-60.00	-117.28	-186.84	-64.07	-106.50	-78.25	-120.10	-97.70	-103.19	-103.21	-145.82	-50.70	-39.40	-39.70	-73.30	-78.10	-73.80	-128.10	-59.10	-83.61	-83.60	-75.10	-93.20	-106.90	-49.10	-66.80	-243.60	-238.65	-37.90	-14.26	-13.08	-87.40	-242.20	-99.50	-62.00	-74.80	-85.50	-44.35	-47.90	-96.80	-70.39
2/5/2018 13:11			-70.14																																							
2/5/2018 13:12				-74.44																																						
2/5/2018 13:14								-84.90	-64.90																																	
2/5/2018 13:15										-86.09																																
2/5/2018 13:16											-102.59																															
3/5/2018 12:00	-124.30		-61.64	-74.24	-50.47		-72.92	-86.50	-64.60	-89.69	-102.59	-62.86								-58.53																						
3/29/2018 12:00	-124.48																																									
3/30/2018 0:00																							-75.10																			
3/30/2018 10:13														-34.50																												
3/30/2018 10:20															-37.50																											
3/30/2018 11:25						-93.80																																			
3/30/2018 11:40		-52.19																																							
3/30/2018 11:46																	-75.10																									
3/30/2018 12:00							-72.95					-75.11								-58.58																						
3/30/2018 12:28																			-86.20																						
3/30/2018 12:40																					-49.80																					
3/30/2018 12:43																						-50.40																				
3/30/2018 13:27																		-50.40																							
4/2/2018 9:00			-71.04	-88.90	-50.57					-86.19																															
4/3/2018 9:00									-66.10		-102.89																															
5/6/2018 14:00																				-58.57																					
5/7/2018 12:00	-125.50		-69.14	-86.14	-30.77		-73.22	-111.90	-67.40	-90.89	-82.47	-58.26																													
6/3/2018 19:00							-73.27																																		
6/3/2018 22:00	-126.42																			-58.63																					
6/4/2018 0:00												-48.49																													
6/4/2018 12:00			-68.54	-85.74	-31.17			-90.30	-89.90	-97.79	-83.89																															
6/11/2018 10:00	-127.03																																									
6/11/2018 12:00			-68.54	-88.34				-117.60	-90.30	-99.29	-85.09																															
6/12/2018 12:00					-32.77																																			
7/2/2018 0:00			-68.74	-89.24																																					
7/2/2018 12:00					-50.97			-117.90	-91.10	-100.89	-85.89																															
7/5/2018 0:00																							-71.60																			
7/5/2018 9:30															-39.20																										
7/5/2018 9:40																-68.10																										
7/5/2018 9:56														-35.30																											
7/5/2018 10:15						-82.10																																			
7/5/2018 10:30		-51.19																																							
7/5/2018 10:36													-43.80																												
7/5/2018 10:40																	-75.69																								
7/5/2018 11:35																			-115.40																						
7/5/2018 11:47																						-73.17																			
7/5/2018 11:50																					-72.32																				
7/5/2018 12:00	-126.74						-73.36					-46.42								-58.71																					
7/5/2018 12:28																		-51.00																						
7/9/2018 12:00			-59.48	-80.54	-32.97			-91.50	-95.20	-99.49	-84.69																															
7/16/2018 12:00			-59.64	-78.74	-34.01			-89.70	-93.70	-100.89	-84.69																															
7/23/2018 12:00			-69.24	-91.54	-50.97			-119.20	-91.70	-103.19	-86.29																															
7/30/2018 8:00			-69.54	-92.34	-50.97			-120.10	-92.50	-102.99	-102.89																															
8/6/2018 12:00	-128.87		-69.54	-90.74	-50.97		-73.29	-119.70	-92.30	-103.09	-102.69									-58.72																					
8/9/2018 12:00												-40.05																													
8/13/2018 12:00	-127.84		-59.40	-80.14	-34.07		-73.29	-91.20	-94.90	-100.90	-84.99	-46.20								-58.73																					
8/20/2018 12:00			-69.24	-90.54	-50.97			-118.90	-97.00	-101.29	-85.99																															
8/27/2018 12:00			-72.54	-90.54	-50.97			-119.10	-97.70	-103.19	-86.29																															
9/3/2018 12:00	-129.06						-73.36					-42.24																															
9/10/2018 12:00			-58.74	-78.04	-33.70			-87.70	-69.90	-97.69	-82.89																															
9/17/2018 12:00			-58.84	-77.54	-32.77			-87.10	-69.50	-96.69	-82.39																															
9/24/2018 12:00			-58.54	-77.14	-31.57			-87.30	-67.30	-96.69	-84.40																															
9/27/2018 0:00																							-71.50																			
9/27/2018 10:10																-68.10																									
9/27/2018 10:32															-37.90																									
9/27/2018 10:38														-35.19																										
9/27/2018 11:17		-50.00																																						
9/27/2018 11:26													-42.60																												
9/27/2018 11:30																	-75.19																								
9/27/2018 12:00							-73.41					-66.67																													
9/27/2018 12:02																			-96.80																						
9/27/2018 12:12																						-57.70																			
9/27/2018 12:14																					-57.68																			
9/27/2018 13:18																		-61.80																						
9/28/2018 12:00	-125.56																			-56.65																					
10/1/2018 10:59						-83.20																																			
10/1/2018 12:00			-58.64	-75.94	-31.77			-86.90	-66.30	-98.59	-82.49																															
10/8/2018 12:00			-58.54	-75.04	-31.97			-84.50	-66.10	-94.09	-80.79																															
10/15/2018 12:00			-117.28	-75.34	-31.57			-84.50	-94.30	-93.69	-80.59																															
10/22/2018 12:00			-56.94	-74.34	-27.17			-83.00	-90.60	-88.09	-78.69																															
11/5/2018 11:00							-73.06																																		
11/5/2018 12:00	-17.44		-57.84	-73.64	-27.57			-81.90	-89.20	-86.89	-77.49	-123.01								-55.76																					
11/12/2018 12:00			-57.94	-73.14	-27.97			-105.30	-89.90	-84.90	-77.17																															
11/19/2018 12:00			-58.14	-73.54	-27.97			-106.10	-63.70	-84.49	-102.69																															
11/26/2018 12:00			-58.14	-73.74	-28.17			-107.10	-63.70	-84.49	-102.69																															
12/3/2018 0:00									-63.70																																
12/3/2018 12:00	-55.90		-58.34		-28.17		-73.08	-107.40		-84.49	-102.89	-122.45								-56.99																					
12/4/2018 12:00				-73.94																																					
12/19/2018 10:00																					-45.41																				
12/27/2018 9:45														-34.80																											
12/27/2018 9:50															-37.60																										
12/27/2018 10:40						-74.40																																			
12/27/2018 10:50		-48.00																																							
12/27/2018 10:53																	-73.39																								
12/27/2018 11:05																							-71.39																		
12/27/2018 11:37																			-76.20																						
12/27/2018 11:49																						-46.54																			
12/27/2018 11:52																					-47.65																				
12/27/2018 12:00	-30.36						-72.86					-121.15								-56.95																					
12/27/2018 12:40																		-65.39																						
12/31/2018 12:00			-57.74	-71.34	-26.90			-103.90	-61.90	-81.79	-102.69																															
2/4/2019 12:00	-43.46						-72.34					-119.33								-55.75																					
2/11/2019 12:00			-57.54	-69.94	-25.77			-103.90	-60.10	-79.49	-102.69																															
3/4/2019 11:27						-75.00																																			
3/4/2019 12:00	-57.45		-57.94	-69.84	-26.17		-72.45	-79.70	-60.20	-79.79	-102.69	-119.23								-56.90																					
3/28/2019 10:32																-65.80																									
3/28/2019 11:00															-37.70																										
3/28/2019 11:08														-34.10																											
3/28/2019 11:35						-92.80																																			
3/28/2019 11:45		-48.59																																							
3/28/2019 12:00	-61.90						-72.47					-120.05	-40.60							-57.33																					
3/28/2019 12:48																	-74.00																								
3/28/2019 12:58																							-71.39																		
3/28/2019 13:05																			-83.30																					
3/28/2019 13:24																						-49.98																			
3/28/2019 13:26																					-49.80																			
3/28/2019 13:30																																									
3/28/2019 14:05																		-54.00																						
4/1/2019 12:00			-58.04	-72.54	-26.67			-110.70	-61.90	-81.29	-102.69																															
5/6/2019 7:00							-71.69																																		
5/6/2019 9:50						-69.80																																			
5/6/2019 10:00												-119.38																													
5/6/2019 12:00	-4.70		-56.14	-70.74	-21.57			-78.50	-60.90	-75.59	-72.49									-55.69																					
6/3/2019 12:00	-57.38		-57.34	-78.54	-25.07		-71.56	-104.00	-59.90	-79.29	-73.09	-118.24								-55.09																					
6/5/2019 9:52						-73.20																																			
6/26/2019 12:00																				-55.96																					
6/27/2019 11:10																		-52.30																						
6/27/2019 11:35																						-53.87																			
6/27/2019 11:38																					-53.48																			
6/27/2019 11:40																																									

Clearwater UWCD - Edwards BFZ Monitor Wells

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State #	58-04-628	58-04-502	58-04-508	58-04-509	58-04-602	58-04-623	58-04-702	58-04-510	58-04-626	58-04-512	58-04-513	58-04-816	58-04-627	58-04-409	None	58-04-408	58-04-631	58-13-502	None	58-03-702	None	None	None	E-02-021P	N2-07-010G	E-18-043GU	E-18-107P	E-19-028P	E-19-029P	E-19-037P	E-19-079GU	E-19-081GU	E-19-113P	N1-18-002P	N1-20-001P	N1-20-002P	N2-10-002P	N2-11-005P	N2-15-010P	N2-15-012P	N2-19-007P	N2-20-001G
CUWCD #	M-08-002G	M-13-004G	N2-02-005G	N2-02-007G	N2-02-003G	N2-02-002G	M-06-001G	N2-02-008G	N2-02-009G	N2-02-010G	N2-02-011G	M-08-001G	N2-03-004G	E-04-077P	E-08-054P	E-10-005P	N2-11-004P	M-12-014G	E-13-009P	M-14-001P	N2-15-005P	N2-15-004P	N2-17-001P																				
Well Name	Salado Cemetary	Salado ISD	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#1)	Stagecoach (deep)	Patterson's Crossing	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Rest Stop	Salado ISD (MS)	Peters	Young	Coppin	Charles Broecker	City of Bartlett	Thaler	Gault - Edwards	Scott Law Well #2	Scott Law Well #1	Heart of Texas Feed																				
Highest	-4.70	-38.30	-56.14	-68.64	-21.57	-66.10	-69.82	-60.00	-58.40	-75.59	-72.49	-4.49	-34.60	-28.50	-37.30	-58.30	-67.10	0.00	-76.20	-53.32	-45.41	-46.54	-71.30	-82.30	-101.30	-47.00	-65.70	-243.60	-238.65	-37.40	-13.42	-11.83	-59.40	-239.40	-33.00	-62.00	-74.70	-75.20	-26.43	-26.49	-87.99	-70.39
Lowest	-129.44	-60.00	-117.28	-186.84	-64.07	-106.50	-78.25	-120.10	-97.70	-103.19	-103.21	-145.82	-50.70	-39.40	-39.70	-73.30	-78.10	-73.80	-128.10	-59.10	-83.61	-83.60	-75.10	-93.20	-106.90	-49.10	-66.80	-243.60	-238.65	-37.90	-14.26	-13.08	-87.40	-242.20	-99.50	-62.00	-74.80	-85.50	-44.35	-47.90	-96.80	-70.39
6/27/2019 12:00	-34.76											-118.13																														
6/27/2019 12:05						-84.60																																				
6/27/2019 12:52													-39.60																													
6/27/2019 12:54																	-73.00																									
6/27/2019 13:04																			-81.50																							
6/27/2019 13:27																							-71.39																			
6/27/2019 13:52															-37.40																											
6/27/2019 14:15																-63.89																										
7/1/2019 12:00			-57.54		-25.37			-108.30	-60.20	-78.19	-73.69																																
7/1/2019 14:00				-70.94																																					
7/11/2019 11:25																																									
7/22/2019 8:10																																									
7/22/2019 8:20																						-72.67																			
7/22/2019 8:31																					-73.50																				
7/22/2019 8:55																																									
7/22/2019 9:58																																									
7/22/2019 10:00																																									
7/22/2019 10:18		-48.59																																							
7/22/2019 10:40																	-74.00																									
7/22/2019 11:20																																									
7/22/2019 11:36																			-101.70																							
7/22/2019 12:00	-75.60		-57.94	-81.54	-26.17			-109.00	-83.20	-85.19	-75.79	-119.77								-56.70																						
7/22/2019 13:30																																									
7/22/2019 13:35																																									
7/22/2019 14:09																							-74.69																			
7/22/2019 15:00																																									
7/22/2019 15:30																-64.89																										
7/22/2019 15:35															-37.40																											
7/23/2019 11:10																																									
7/23/2019 13:25																																									
7/23/2019 14:00																		-58.30																								
7/23/2019 14:45						-106.50																																			
7/24/2019 9:00													-41.00																													
8/5/2019 12:00	-75.26		-69.54	-74.34	-55.67			-87.10	-88.90	-86.09	-76.29	-119.59								-56.96																						
8/6/2019 11:45						-79.70																																			
8/26/2019 15:27																						-76.34																			
8/26/2019 17:25																					-76.61																				
9/3/2019 12:00	-76.71						-72.16					-121.07								-57.45																						
9/4/2019 12:00			-70.54	-83.24	-50.77			-111.30	-85.10	-89.09	-78.09																															
9/11/2019 13:25																					-75.24																				
9/11/2019 13:28																						-75.23																			
9/25/2019 9:20																																									
9/25/2019 9:40																																									
9/25/2019 10:18															-37.70																											
9/25/2019 10:43																-66.10																										
9/25/2019 11:28						-84.80																																			
9/25/2019 11:59																																									
9/25/2019 12:00	-76.08						-72.27					-122.11																													
9/25/2019 12:02																																									
9/25/2019 13:11		-53.19																																							
9/25/2019 13:14													-43.90																													
9/25/2019 13:20																	-74.89																									
9/25/2019 13:23																																										
9/25/2019 13:46																							-74.30																			
9/26/2019 14:15																		-58.19																								
9/26/2019 14:35																																										
9/26/2019 14:45																																										
9/26/2019 14:47																						-73.66																			
9/26/2019 14:50																					-73.99																				
9/26/2019 15:12																			-124.20																						
9/26/2019 15:19																																									
9/27/2019 12:00																				-57.82																						
11/4/2019 12:00	-68.41											-122.12								-58.23																						
12/2/2019 12:00	-67.27		-70.54	-72.14	-50.77			-80.80	-62.70	-83.88	-102.69	-122.73								-58.42																						
12/4/2019 11:43						-82.60																																			
12/27/2019 9:10																																									
12/27/2019 9:27																																									
12/27/2019 9:55															-37.30																											
12/27/2019 11:00																																									
12/27/2019 11:13																																									
12/27/2019 11:28																																									
12/27/2019 11:41																	-75.19																									
12/27/2019 12:00							-72.59					-123.03								-58.40																						
12/27/2019 12:10																																										
12/27/2019 12:23																							-71.30																			
12/30/2019 0:00				-72.74																																					
12/30/2019 12:00			-65.94		-50.67			-81.10	-63.50	-84.49	-102.67																																
12/30/2019 12:41																		-64.39																								
12/30/2019 13:16																																										
12/30/2019 13:19																																										
12/30/2019 13:21																						-52.94																			
12/30/2019 13:23																					-53.05																				
12/30/2019 13:28																																										
12/30/2019 13:32																																										
12/30/2019 13:48																			-90.10																							
12/30/2019 13:58																																										
12/30/2019 14:10																																										
1/6/2020 10:10	-67.56		-68.74	-72.84	-50.87		-72.69		-63.70	-84.39	-102.49									-58.19																						
1/6/2020 10:21												-123.03																													
1/31/2020 11:15								-81.00																																	
2/3/2020 12:00																																									-87.99	
2/3/2020 12:05						-91.40																																			
2/4/2020 12:00			-70.74	-72.74	-50.77		-72.76	-80.80	-63.40	-84.39	-102.69	-122.94																													
2/28/2020 10:10																				-57.70																						
3/2/2020 11:25			-70.74	-73.04	-50.87			-82.50	-63.50	-84.09	-102.69																															
3/2/2020 12:00						-78.80																																			
3/5/2020 11:29																																			-33.00							
3/30/2020 12:00							-72.73																																		
4/1/2020 10:31						-84.00																																			
4/10/2020 12:00			-71.14	-83.74	-50.87			-87.90	-65.10	-84.49	-102.99									-57.15																						
5/3/2020 2:00																																									-33.60	
5/4/2020 9:52	-65.78		-71.14	-73.54	-50.77			-86.30	-63.70	-88.89	-78.89	-122.63								-57.89																						
5/4/2020 12:00			-71.64	-86.94	-64.07			-92.70	-67.50	-94.29	-81.59																															
5/26/2020 14:08			-71.64	-78.24	-50.77			-91.50	-67.30	-90.49	-81.29																															
6/1/2020 12:00																																		-239.40							
6/15/2020 12:00																										-65.70															
6/22/2020 12:00																														-37.40											
6/23/2020 9:40															-38.20																										
6/23/2020 9:59																																-11.83									
6/23/2020 10:24																															-13.42										
6/23/2020 10:29													-43.69																												
6/23/2020 11:41		-52.59																																							
6/23/2020 11:42	-76.52											-123.40								-58.17																						
6/23/2020 11:50																					-47.10																				
6/23/2020 11:55																							-71.39																		
6/23/2020 12:00																		-57.00																							
6/23/2020 12:04																																									-92.29	
6/23/2020 13:22																								-85.00																	
6/26/2020 12:36																																	-76.00								
6/26/2020 13:00																						-72.17																			
6/26/2020 13:07																					-72.21																				
6/26/2020 13:15																																							-44.35			
6/26/2020 13:18																																								-41.50		
6/26/2020 13:20																			-119.70																						
6/26/2020 13:25																																					-74.80					

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 #	58-04-628	58-04-502	58-04-508	58-04-509	58-04-602	58-04-623	58-04-702	58-04-510	58-04-626	58-04-512	58-04-513	58-04-816	58-04-627	58-04-409	None	58-04-408	58-04-631	58-13-502	None	58-03-702	None	None	None	E-02-021P	N2-07-010G	E-18-043GU	E-18-107P	E-19-028P	E-19-029P	E-19-037P	E-19-079GU	E-19-081GU	E-19-113P	N1-18-002P	N1-20-001P	N1-20-002P	N2-10-002P	N2-11-005P	N2-15-010P	N2-15-012P	N2-19-007P	N2-20-001G
CUWCD #	M-08-002G	M-13-004G	N2-02-005G	N2-02-007G	N2-02-003G	N2-02-002G	M-06-001G	N2-02-008G	N2-02-009G	N2-02-010G	N2-02-011G	M-08-001G	N2-03-004G	E-04-077P	E-08-054P	E-10-005P	N2-11-004P	M-12-014G	E-13-009P	M-14-001P	N2-15-005P	N2-15-004P	N2-17-001P																				
Well Name	Salado Cemetary	Salado ISD	Salado WSC (#3)	Salado WSC (#5)	Salado WSC (#1)	Stagecoach (deep)	Patterson's Crossing	Salado WSC (#6)	Salado WSC (#7)	7KX Ranch (#8)	7KX Ranch (#9)	Rest Stop	Salado ISD (MS)	Peters	Young	Coppin	Charles Broecker	City of Bartlett	Thaler	Gault - Edwards	Scott Law Well #2	Scott Law Well #1	Heart of Texas Feed																				
Highest	-4.70	-38.30	-56.14	-68.64	-21.57	-66.10	-69.82	-60.00	-58.40	-75.59	-72.49	-4.49	-34.60	-28.50	-37.30	-58.30	-67.10	0.00	-76.20	-53.32	-45.41	-46.54	-71.30	-82.30	-101.30	-47.00	-65.70	-243.60	-238.65	-37.40	-13.42	-11.83	-59.40	-239.40	-33.00	-62.00	-74.70	-75.20	-26.43	-26.49	-87.99	-70.39
Lowest	-129.44	-60.00	-117.28	-186.84	-64.07	-106.50	-78.25	-120.10	-97.70	-103.19	-103.21	-145.82	-50.70	-39.40	-39.70	-73.30	-78.10	-73.80	-128.10	-59.10	-83.61	-83.60	-75.10	-93.20	-106.90	-49.10	-66.80	-243.60	-238.65	-37.90	-14.26	-13.08	-87.40	-242.20	-99.50	-62.00	-74.80	-85.50	-44.35	-47.90	-96.80	-70.39
6/26/2020 13:33																																										
6/26/2020 13:47						-95.60																																				
6/26/2020 14:10			-71.90		-51.00																																					
6/29/2020 12:00				-86.50																																						
7/29/2020 11:00								-113.50	-90.80																																	
8/3/2020 9:32										-91.50																																
8/3/2020 9:33	-81.18						-72.92					-124.90								-58.52																							
8/3/2020 9:34											-82.00																															
8/3/2020 9:35			-72.34	-87.19	-50.77			-114.40	-91.30	-93.69	-82.09																															
8/3/2020 12:00																																				-74.80						
8/7/2020 9:35																														-37.50												
8/10/2020 12:00															-39.50																											
8/11/2020 9:50																																		-242.20								
8/11/2020 10:07																									-106.90																	
8/11/2020 10:12																																									-96.80	
8/11/2020 10:46						-91.00																																			
8/11/2020 10:57																																-13.08										
8/11/2020 11:03																															-14.26											
8/11/2020 11:15																										-49.10																
8/11/2020 11:21													-45.40																													
8/11/2020 11:23		-53.80																																								
8/11/2020 11:50																							-74.60																			
8/11/2020 12:15																			-128.10																							
8/11/2020 12:19																																	-87.40									
8/11/2020 12:25																						-83.60																				
8/11/2020 12:33																					-83.61																					
8/11/2020 12:42																																								-47.90		
8/11/2020 12:45																								-93.20																		
8/11/2020 12:49					-50.77																																				
8/11/2020 13:00			-72.64	-87.54				-114.90	-91.90	-94.09	-82.59																															
8/11/2020 13:07			-72.74	-89.14	-50.97			-114.90	-91.70	-94.39	-82.59																															
8/17/2020 0:00	-73.87						-72.89					-124.80								-57.14																						
8/17/2020 12:00			-71.54	-75.34	-50.97			-86.00	-65.70	-86.49	-79.99																															
8/24/2020 12:00						-87.40																																			
9/7/2020 12:00			-71.34	-77.54	-50.97			-110.30	-67.10	-87.29	-80.49																															
9/9/2020 12:00			-71.54	-78.54	-50.97			-110.00	-66.90	-86.49	-80.19																															
9/10/2020 11:13																																				-74.80						
9/14/2020 12:00																																										-70.39
9/21/2020 12:00																							-71.39																			
9/30/2020 10:39																																		-240.80								
9/30/2020 10:44																											-66.80															
9/30/2020 10:51																														-37.69												
9/30/2020 11:08															-39.70																											
9/30/2020 11:23	-68.21						-73.01					-124.50								-57.73																						
9/30/2020 11:43																									-102.70																	
9/30/2020 11:48																																-12.35										
9/30/2020 12:00																															-13.84											
9/30/2020 12:08						-84.80																																			
9/30/2020 12:46													-43.80																													
9/30/2020 12:48		-52.59																																								
9/30/2020 13:00											-75.19																															
9/30/2020 13:17																										-47.00																
9/30/2020 13:20																																									-90.77	
9/30/2020 13:23																		-67.60																								
9/30/2020 13:27																								-83.00																		
9/30/2020 13:37																																-64.10										
9/30/2020 14:00																						-59.41																				
9/30/2020 14:22																					-59.09																					
9/30/2020 14:28																																								-30.24		
9/30/2020 14:33																																									-27.70	
9/30/2020 14:36																			-103.90																							
9/30/2020 14:40																																							-85.50			
9/30/2020 14:45			-69.54	-86.94	-50.87			-110.70	-67.50	-88.89	-80.59																															
9/30/2020 14:56																																					-62.00					
9/30/2020 15:04						-86.40																																			
10/5/2020 12:00	-71.12						-73.09					-124.65								-58.64																						
11/1/2020 12:00						-85.80																																			
11/3/2020 10:53																																							-75.20		
12/1/2020 12:00																							-74.39																		
12/2/2020 10:28																																		-241.10							
12/28/2020 9:26																												-243.60													
12/28/2020 9:47																											-66.80														
12/28/2020 10:06																														-37.90											
12/28/2020 10:12															-37.50																										
12/28/2020 10:31																									-101.30																
12/28/2020 10:48						-84.00																																			
12/28/2020 10:51																																-12.47										
12/28/2020 11:07																															-14.20										
12/28/2020 11:17	-69.06						-73.24													-58.75																						
12/28/2020 11:23																-67.50																										
12/28/2020 11:25													-44.40																													
12/28/2020 12:00		-52.80																																								
12/28/2020 12:02											-74.80																															
12/28/2020 12:29																										-47.60																
12/28/2020 12:31																																									-91.26	
12/28/2020 12:34																		-70.30																							
12/28/2020 12:38																								-82.30																		
12/28/2020 13:11																																	-59.40									
12/28/2020 13:35																						-59.00																				
12/28/2020 13:57																					-55.58																					
12/28/2020 14:07																																								-26.43		
12/28/2020 14:10																																									-26.49	
12/28/2020 14:12																																				-99.50						
12/28/2020 14:18																													238.65													
12/28/2020 14:25												-124.90																													
12/28/2020 14:52																																					74.70					
12/28/2020 16:02																																										
12/28/2020 17:00																																										
12/29/2020 14:06																																										
Since Last	2.06	-0.21	2.00	-8.40	0.10	1.80	-0.15	-0.70	-0.60	-2.40	-0.40	-0.25	-0.60	0.70	2.20	-1.40	0.39	-2.70	24.20	-0.11	3.51	0.41	-3.00	0.70	1.40	-0.60	0.00			-0.21	-0.36	-0.12	4.70	-0.30	-66.50		0.10	10.30	3.81	1.21	-0.49	
Historic	55.74	7.20	-11.54	-10.94	-15.87	-0.20	-2.24	-50.70	22.50	-4.89	5.41	-52.99	-4.40	-5.60	-0.10	-9.20	1.60	-70.30	-20.00	0.35	2.92	0.50	-2.59	2.70	5.60	-0.50	-1.10	0.00	0.00	-0.50	-0.78	-0.64	16.60	-1.70	-66.50	0.00	0.10	10.30	17.92	7.11	-3.27	0.00

E-line 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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State #	40-57-902	40-57-903	40-58-201	58-04-103	57-15-903	40-59-302							
CUWCD #	E-02-721G	E-02-722G	M-10-001P	E-16-052GU	M-17-CTGCD_Robinson	N1-18-003P							
Well Name	McCallum #1	McCallum #2	CTC	Fant	Robinson	Myers							
Highest	-131.20	-131.10	-77.83	-280.10	-4.93	-474.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lowest	-172.60	-173.30	-87.59	-339.85	-64.19	-483.66	0.00	0.00	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									
1/18/1996 0:00				-309.10									
1/14/1997 0:00				-302.44									
1/12/1998 0:00				-302.27									
1/13/1999 0:00				-297.20									
1/11/2000 0:00				-310.90									
1/12/2001 0:00				-312.70									
1/10/2002 0:00				-311.60									
1/29/2003 0:00				-310.80									
2/19/2004 0:00				-304.70									
1/14/2005 0:00				-311.60									
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											
1/23/2008 0:00				-311.55									
7/1/2008 0:00	-151.80	-151.50											
1/1/2009 0:00	-145.40	-145.00											
2/3/2009 0:00				-339.85									
7/1/2009 0:00	-159.60	-159.50											
1/1/2010 0:00	-152.10	-152.00	-87.59		-7.38								
3/24/2010 0:00				-320.04									
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								
10/4/2011 0:00				-325.51									
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								
12/13/2013 0:00				-331.41									
2/1/2014 0:00	-156.80	-157.70	-82.68		-14.94								

Clearwater UWCD - Upper Trinity Monitor Wells

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State #	40-57-902	40-57-903	40-58-201	58-04-103	57-15-903	40-59-302							
CUWCD #	E-02-721G	E-02-722G	M-10-001P	E-16-052GU	M-17-CTGCD_Robinson	N1-18-003P							
Well Name	McCallum #1	McCallum #2	CTC	Fant	Robinson	Myers							
Highest	-131.20	-131.10	-77.83	-280.10	-4.93	-474.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lowest	-172.60	-173.30	-87.59	-339.85	-64.19	-483.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	-157.07	-83.82		-7.72								
6/1/2016 0:00					-8.28								
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	-153.79											
1/5/2017 0:00			-83.90										
2/6/2017 0:00			-83.92										
3/5/2017 0:00			-83.96										
3/6/2017 0:00													
3/30/2017 0:00	-154.10	-154.39	-84.00										
5/8/2017 0:00			-84.23										
6/4/2017 0:00			-84.21										
6/5/2017 0:00													
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	-161.39	-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	-156.79	-83.31										
12/27/2017 14:14					-13.81								
2/5/2018 10:10													
3/5/2018 0:00					-13.86								
3/5/2018 12:00													

Clearwater UWCD - Upper Trinity Monitor Wells

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State #	40-57-902	40-57-903	40-58-201	58-04-103	57-15-903	40-59-302							
CUWCD #	E-02-721G	E-02-722G	M-10-001P	E-16-052GU	M-17-CTGCD_Robinson	N1-18-003P							
Well Name	McCallum #1	McCallum #2	CTC	Fant	Robinson	Myers							
Highest	-131.20	-131.10	-77.83	-280.10	-4.93	-474.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lowest	-172.60	-173.30	-87.59	-339.85	-64.19	-483.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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 12:00													
5/7/2018 14:21			-83.78										
6/3/2018 20:00			-83.99										
6/4/2018 0:00					-11.75								
6/4/2018 2:00													
6/21/2018 11:57		-162.70											
6/21/2018 12:00			-84.21										
6/22/2018 11:53	-162.60												
6/22/2018 15:27													
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										
9/28/2018 12:00			-84.30										
9/28/2018 12:14	-165.70												
9/28/2018 12:17		-166.00											
11/5/2018 12:00			-83.46		-5.69								
12/3/2018 12:00			-83.64		-8.36								
12/26/2018 11:24	-157.10												
12/26/2018 11:27		-157.39											
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 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 11:13	-154.10												
6/26/2019 11:16		-154.39											
6/26/2019 12:00													
7/1/2019 12:00					-10.22								
8/5/2019 12:00			-84.81		-11.04								

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	40-58-201	58-04-103	57-15-903	40-59-302							
CUWCD #	E-02-721G	E-02-722G	M-10-001P	E-16-052GU	M-17-CTGCD_Robinson	N1-18-003P							
Well Name	McCallum #1	McCallum #2	CTC	Fant	Robinson	Myers							
Highest	-131.20	-131.10	-77.83	-280.10	-4.93	-474.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lowest	-172.60	-173.30	-87.59	-339.85	-64.19	-483.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/2/2019 12:00					-11.73								
9/3/2019 12:00			-85.08										
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								
11/4/2019 12:00			-85.22		-13.56								
12/2/2019 12:00			-85.26										
12/26/2019 12:00			-85.07										
12/26/2019 13:20	-158.50												
12/26/2019 13:22		-158.79											
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 10:34	-171.29												
6/25/2020 10:37		-171.39											
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		-171.29											
12/1/2020 12:00			-85.07										
12/27/2020 12:00			-85.07										
12/30/2020 13:38	-167.79												
12/30/2020 13:41		-168.00											
12/30/2020 14:38						-480.20							
Since Last	3.11	3.29	0.00	21.26	0.25	3.46							
Historic	-25.69	-25.50	2.52	-8.45	-5.90	-6.11							

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	40-58-201	58-04-103	57-15-903	40-59-302							
CUWCD #	E-02-721G	E-02-722G	M-10-001P	E-16-052GU	M-17-CTGCD_Robinson	N1-18-003P							
Well Name	McCallum #1	McCallum #2	CTC	Fant	Robinson	Myers							
Highest	-131.20	-131.10	-77.83	-280.10	-4.93	-474.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lowest	-172.60	-173.30	-87.59	-339.85	-64.19	-483.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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: 3

Average Drawdown **-2.55 ft/yr**

Drawdown of Water Level

Increase of Water Level

Clearwater UWCD - Middle 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 #	58-02-302	58-04-405	None	58-05-901	58-04-407	58-04-406	58-04-514	None	None	None	None	40-58-903	None	None	58-04-104	None	40-57-601	58-03-504	None	58-02-901
CUWCD #	M-16-001G	E-05-083P	N2-11-003G	N2-02-013G	E-02-1407G	E-02-1406G	E-02-1409G	N2-07-006G	E-03-444P	N2-04-011P	E-07-011P	E-06-063P	N2-07-003G	N2-08-002P	E-08-005P	N1-09-003P	M-09-001P	E-10-003P	N2-10-003P	M-13-001P
Well Name	River Ridge Monitor Well	Lester (Murphy)	UMHB	City of Holland	Reavis	H. Springs	H. Spring Park	Maxdale Cowboy Church	McLemore	Central Texas Strike Zone	Brooks	Veterans Monitor Well	Killeen Crushed Stone	Salado ISD (HS)	Stephenson	Laurie Gehring	Copperas Cove - Middle	Christian	James Construction	StillmanValley Monitor Well
Highest	-254.90	-281.40	-301.10	-17.20	-370.40	-373.90	-313.00	-62.00	-399.58	-305.30	-566.00	-359.70	-343.30	-288.10	-346.90	-422.80	-295.47	-555.40	-318.20	-454.00
Lowest	-348.96	-444.49	-326.30	-60.05	-450.80	-446.00	-392.00	-179.50	-494.20	-333.50	-718.99	-440.60	-476.00	-353.80	-453.50	-439.50	-326.48	-611.50	-357.00	-523.79
3/15/1966 0:00																				
4/17/1967 0:00																				
3/22/1968 0:00																				
3/17/1969 0:00																				
10/1/1969 0:00																				
10/24/1969 0:00																				
11/29/1969 0:00																				
12/23/1969 0:00																				
1/27/1970 0:00																				
3/6/1970 0:00																				
5/6/1970 0:00																				
6/1/1970 0:00																				
7/6/1970 0:00																				
8/6/1970 0:00																				
9/3/1970 0:00																				
10/2/1970 0:00																				
11/3/1970 0:00																				
12/8/1970 0:00																				
1/8/1971 0:00																				
2/4/1971 0:00																				
3/12/1971 0:00																				
4/8/1971 0:00																				
5/11/1971 0:00																				
6/8/1971 0:00																				
7/8/1971 0:00																				
8/3/1971 0:00																				
9/3/1971 0:00																				
10/5/1971 0:00																				
11/4/1971 0:00																				
12/3/1971 0:00																				
1/7/1972 0:00																				
2/8/1972 0:00																				
3/13/1972 0:00																				
4/7/1972 0:00																				
5/5/1972 0:00																				
6/2/1972 0:00																				
8/8/1972 0:00																				
9/12/1972 0:00																				
10/3/1972 0:00																				
11/7/1972 0:00																				
12/5/1972 0:00																				
1/9/1973 0:00																				
2/6/1973 0:00																				
3/19/1973 0:00																				
4/10/1973 0:00																				
5/8/1973 0:00																				
6/5/1973 0:00																				
7/5/1973 0:00																				
9/11/1973 0:00																				
10/11/1973 0:00																				
11/2/1973 0:00																				
12/4/1973 0:00																				
1/8/1974 0:00																				
3/11/1974 0:00																				
4/24/1975 0:00																				
3/16/1976 0:00																				
3/17/1980 0:00																				
3/15/1982 0:00																				
3/11/1985 0:00																				
4/23/1986 0:00																				
4/21/1987 0:00																				
2/19/1988 0:00																				
2/27/1989 0:00																				
1/9/1990 0:00																				
2/26/1991 0:00																				
1/10/1992 0:00																				
2/8/1994 0:00																				
1/27/1995 0:00																				
1/18/1996 0:00																				
1/20/1998 0:00																				
1/13/1999 0:00																				
1/11/2000 0:00																				
1/8/2001 0:00																				
1/11/2002 0:00																				
1/1/2003 0:00				-23.70																
1/29/2003 0:00																				
7/1/2003 0:00				-25.30																
1/1/2004 0:00				-26.20																
2/19/2004 0:00																				
7/1/2004 0:00				-28.20																
1/1/2005 0:00				-29.90																
1/10/2005 0:00																				
7/1/2005 0:00				-31.80																
1/1/2006 0:00				-26.00									-376.80							
7/1/2006 0:00				-28.30																
9/1/2006 0:00				-28.00																
10/1/2006 0:00				-21.50																
11/1/2006 0:00		-312.60		-27.10					-417.58			-397.70								
1/1/2007 0:00	-265.50	-281.40		-26.10					-410.92			-373.60								
1/25/2007 0:00																				
2/8/2007 0:00											-566.00									
7/1/2007 0:00	-254.90	-287.20		-27.00					-399.58			-377.90								
1/1/2008 0:00	-260.50	-290.70		-28.80					-410.58			-380.80	-343.30							
1/21/2008 0:00															-346.90					
1/23/2008 0:00																				
7/1/2008 0:00	-278.80	-333.20		-30.80					-433.42			-440.60	-375.10							
8/30/2008 0:00														-288.10						
1/1/2009 0:00	-282.90	-322.60		-34.00					-426.67			-387.90	-376.80		-368.40					
2/3/2009 0:00																				
7/1/2009 0:00	-292.20	-367.40		-36.60					-445.58			-368.50	-376.20		-377.40					
7/1/2009 12:00																				
1/1/2010 0:00	-280.10	-325.30		-36.60					-429.58			-361.20	-382.40		-371.40		-306.94			
1/1/2010 12:00																				
3/24/2010 0:00																				
7/1/2010 0:00	-285.90	-344.00		-38.80					-436.38			-376.80	-374.50		-377.30		-295.47			
7/1/2010 12:00																				
1/1/2011 0:00	-285.40	-333.80		-39.90					-436.70			-379.20	-380.10		-380.10		-308.10			
1/1/2011 12:00																				
2/24/2011 0:00																				
7/1/2011 0:00	-310.60	-402.20		-41.10					-468.16			-360.70	-413.40		-404.50		-313.40			
7/1/2011 12:00																				
9/1/2011 0:00	-323.80	-403.50		-41.70								-360.50	-423.20		-411.00		-319.94			
9/1/2011 12:00																				
10/4/2011 0:00																				
11/1/2011 0:00	-318.00	-384.80		-42.10					-470.40			-363.00	-415.40		-412.30		-316.65			
11/1/2011 12:00																				
1/1/2012 0:00	-307.00	-356.10		-43.10					-456.93			-361.00	-408.90		-402.30		-311.90			
1/2/2012 12:00																				
5/1/2012 0:00	-302.80	-375.60		-44.10					-456.93			-360.60	-403.90		-398.60		-309.74			
5/1/2012 12:00																				
10/9/2012 0:00																				
1/1/2013 0:00	-301.70	-369.40		-42.10					-454.34			-359.70	-405.90		-400.50		-312.56			
1/1/2013 12:00																				
5/1/2013 0:00	-311.40	-387.70		-50.40					-461.13			-365.80	-421.00		-411.20		-311.45	-555.40		
5/1/2013 12:00																				
5/20/2013 0:00																				-476.40
8/1/2013 0:00	-323.80	-416.20		-50.00	-424.10	-421.40	-364.20		-472.46			-369.80	-430.40		-422.20		-317.87	-568.20		-478.59
8/1/2013 12:00																				
11/1/2013 0:00	-325.50	-385.00		-51.30	-393.80	-391.00	-335.90					-369.40	-431.10		-421.70		-314.73	-572.40		-472.40
11/1/2013 12:00																				
12/13/2013 0:00																				
2/1/2014 0:00	-320.50	-373.60		-51.30	-386.50	-383.80	-322.90					-368.50	-438.20		-416.10		-311.78	-565.80		-464.90
2/1/2014 12:00																				
2/27/2014 0:00																				-477.40
5/1/2014 0:00		-389.30		-56.00	-405.50	-402.00	-335.20					-373.40	-440.20		-417.80		-313.33	-572.70		-473.70
5/1/2014 12:00																				
5/11/2014 0:00	-330.20																			
8/1/2014 0:00	-336.90	-411.00		-55.30	-413.10	-409.70	-351.90					-373.50	-445.80		-425.50		-314.87	-581.20		-477.09
8/1/2014 12:00																				
10/1/2014 0:00																				
11/1/2014 0:00	-343.30	-405.50	-326.30	-52.80	-415.10	-411.20	-348.80			-333.50	-678.00	-375.90	-446.50	-337.40	-432.50		-316.99	-584.40		-479.79
11/1/2014 12:00																				
1/1/2015 0:00	-327.90	-374.40	-317.80	-42.40	-388.50	-386.00	-324.30			-327.80	-665.20	-370.60	-444.80	-319.90	-420.60		-312.52	-568.70		-468.29
1/1/2015 12:00																				
1/5/2015 0:00																			-324.30	
6/1/2015 0:00	-320.30	-376.00	-313.20	-34.20	-386.30	-384.10	-324.00			-325.20	-659.20	-371.10	-427.60	-318.90	-415.50		-307.36	-563.30		-465.29
6/1/2015 12:00																				
6/14/2015 0:00																				
9/1/2015 0:00	-341.60																			
9/14/2015 0:00		-410.50	-326.20	-33.30		-411.50	-352.20			-332.00	-678.60	-375.70	-450.10	-335.70	-429.00		-314.51	-582.80		-478.70
9/14/2015 12:00																				
11/1/2015 0:00	-333.10																			
11/3/2015 0:00																				
11/30/2015 0:00		-377.10	-313.20	-20.60		-387.40	-327.20			-322.00	-663.80	-371.90	-435.50	-324.30	-423.60		-313.26	-571.10		-473.00
12/4/2015 0:00																			-324.30	
1/1/2016 0:00	-326.80																			
1/1/2016 12:00																				
1/5/2016 0:00		-370.90	-308.20	-19.30		-382.70	-319.90			-318.80	-657.20	-368.40	-429.40	-315.90	-421.20		-307.95	-562.70		-467.40
4/1/2016 0:00	-324.00																			
4/19/2016 0:00		-368.74	-302.10	-18.50		-374.00	-316.85			-310.10	-650.00	-366.50	-422.27	-310.80	-413.60		-306.26	-556.80		-459.09
4/19/2016 12:00																				
6/1/2016 0:00																				
6/1/2016 12:00																				
8/30/2016 0:00	-330.90		-305.30	-24.00					-469.60	-312.00	-656.20	-372.20	-431.10	-321.50		-424.90	-309.65			-461.40
8/30/2016 12:00																				
9/12/2016 0:00		-369.90			-387.10	-374.60	-317.70								-414.30			-557.10		
10/3/2016 0:00																	-307.50			
10/6/2016 0:00																				
10/6/2016 12:00																				
10/19/2016 0:00																	-308.40			
10/22/2016 0:00																				
11/1/2016 0:00																				
11/1/2016 12:00																				
11/14/2016 0:00																				
11/21/2016 0:00	-329.00																			
11/22/2016 0:00				-26.98																
12/1/2016 0:00																	-308.10			
12/1/2016 12:00																				
12/6/2016 0:00																	-308.32			
12/28/2016 0:00		-364.79	-304.20							-308.80				-312.80						
12/29/2016 0:00												-370.70								
12/30/2016 0:00					-377.30	-373.90	-313.00	-176.20			-650.90		-427.10					-561.59		-458.20
1/5/2017 0:00	-326.20			-17.20											-411.30		-308.10			
1/5/2017 12:00																				
1/12/2017 0:00									-459.70											
2/6/2017 0:00	-338.84																-306.11			
2/6/2017 12:00																				
3/5/2017 0:00																	-304.97			
3/5/2017 12:00																				
3/6/2017 0:00	-327.46																			
3/28/2017 0:00																				
3/30/2017 0:00	-321.90							-161.50	-459.60		-645.30	-369.30	-416.40		-407.20		-304.80			-455.70
3/31/2017 0:00		-365.20	-301.10	-23.40	-370.40	-375.60	-313.00			-307.30				-307.60						
3/31/2017 12:00																				
4/6/2017 0:00																			-338.50	
5/8/2017 0:00	-318.42																-304.75			
5/8/2017 12:00																				
6/4/2017 0:00	-333.97																-305.41			
6/4/2017 12:00																				
6/14/2017 0:00																				
6/19/2017 0:00																-422.80				
7/6/2017 0:00		-398.50	-303.00	-36.90	-392.80	-390.20	-335.80			-305.30				-320.80		-424.95			-357.00	
7/6/2017 12:00																				
7/7/2017 0:00	-334.92							-158.10	-469.80			-370.90			-414.10		-306.37	-563.09		-454.00
7/24/2017 0:00											-656.50		-436.10							
8/9/2017 0:00	-339.20																-309.02			
8/9/2017 12:00																				
9/5/2017 0:00	-337.44																-309.10			
9/5/2017 12:00																				
9/5/2017 13:32																				
9/5/2017 13:58																				
9/5/2017 14:22																				
10/2/2017 0:00	-338.16							-159.30	-475.30		-667.40	-376.50	-435.00		-423.60		-310.50	-574.30		-469.50
10/2/2017 12:00																				
10/2/2017 13:34																				
10/2/2017 13:59																				
10/2/2017 14:04																				

State #	58-03-701	None	None	40-49-601	58-01-202	58-09-303	None	57-24-503	None	58-09-201	57-16-201
CUWCD #	M-14-002P	N2-14-003P	E-14-053P	M-18-TWDB-Cove	M-17-TWDB Kempner	M-17-TWDB Briggs	N1-16-006P	M-17-CTGCD_Mattingly	M-17-CTGCD_Konecci	M-17-CTGCD_Allen	M-17-CTGCD_Fischer
Well Name	Gault - Middle Trinity	RS Materials	Pedigo				Ronald Ham	Mattingly	Konecci	Allen	Fischer
Highest	-623.72	-696.30	-400.10	-273.23	-81.30	-427.76	-267.08	-337.27	-338.70	-398.07	-212.38
Lowest	-694.48	-743.32	-430.10	-284.07	-195.80	-463.08	-474.33	-340.30	-398.00	-419.90	-231.78
7/1/2009 0:00					-97.32						
7/1/2009 12:00				-277.73							
1/1/2010 0:00					-84.67	-427.97		-337.38			
1/1/2010 12:00				-273.23							
7/1/2010 0:00					-84.71	-427.76		-337.27			
7/1/2010 12:00				-276.32							
1/1/2011 0:00					-91.56	-430.89		-337.42			
1/1/2011 12:00				-273.58							
7/1/2011 0:00					-97.59	-437.89		-338.13			
7/1/2011 12:00				-274.78							
9/1/2011 0:00					-102.00			-339.31			
9/1/2011 12:00				-279.86							
11/1/2011 0:00					-100.99	-444.40		-338.50		-408.18	
11/1/2011 12:00				-280.07							
1/1/2012 0:00					-98.49	-442.74		-338.37		-406.30	
1/2/2012 12:00				-278.81							
5/1/2012 0:00					-92.28	-438.81		-338.66		-398.07	
5/1/2012 12:00				-276.98							
1/1/2013 0:00					-98.91	-446.13		-338.83		-403.08	-218.47
1/1/2013 12:00				-280.22							
5/1/2013 0:00					-97.72			-338.87		-402.45	-218.88
5/1/2013 12:00				-279.27							
8/1/2013 0:00					-99.63	-448.42		-338.96		-404.83	-225.45
8/1/2013 12:00				-281.73							
11/1/2013 0:00					-100.00			-338.99		-405.83	-222.98
11/1/2013 12:00				-280.36							
2/1/2014 0:00	-630.00				-99.77			-338.82		-404.89	
2/1/2014 12:00				-276.97							
5/1/2014 0:00	-645.00				-98.87	-447.29		-338.98		-405.21	
5/1/2014 12:00				-276.81							
8/1/2014 0:00	-655.90				-100.09	-448.41		-339.06		-406.32	-224.91
8/1/2014 12:00				-277.53							
11/1/2014 0:00	-650.98				-101.46	-450.72		-339.01		-407.45	-224.34
11/1/2014 12:00				-279.04							
1/1/2015 0:00	-648.91		-412.40		-100.32	-449.74		-338.90		-406.51	-223.19
1/1/2015 12:00				-278.56							
6/1/2015 0:00	-630.83		-411.60		-97.48	-443.67				-403.68	-219.65
6/1/2015 12:00				-273.93							
6/14/2015 0:00						-446.92					
9/14/2015 0:00	-652.11				-96.14					-405.49	-223.84
9/14/2015 12:00				-277.20							
11/30/2015 0:00	-642.10				-94.14	-446.60				-405.04	-219.49
1/1/2016 0:00					-88.66	-445.45				-403.70	-216.98
1/1/2016 12:00				-275.91							
1/5/2016 0:00	-639.33										
4/19/2016 0:00	-629.44				-85.61	-443.86				-401.55	-214.67
4/19/2016 12:00				-275.49							
6/1/2016 0:00					-83.64	-442.94				-406.45	-213.65
6/1/2016 12:00				-273.33							
8/30/2016 0:00	-629.95				-87.62	-444.12				-408.73	-217.75
8/30/2016 12:00				-276.92							
10/6/2016 0:00					-88.87	-444.33				-409.11	-217.39
10/6/2016 12:00				-277.51							
10/19/2016 0:00	-634.53										
11/1/2016 0:00					-90.24	-444.70				-409.47	-218.21
11/1/2016 12:00				-277.92							
12/1/2016 0:00					-91.24	-444.46				-408.94	-217.98
12/1/2016 12:00				-277.49							
12/6/2016 0:00	-633.60										
12/28/2016 0:00			-406.80								
1/5/2017 0:00	-635.50				-92.31	-444.46				-408.95	-217.68
1/5/2017 12:00				-277.10							
2/6/2017 0:00					-92.94	-444.40		-340.00		-408.49	-218.95
2/6/2017 12:00				-276.96							
3/5/2017 0:00	-629.62				-91.98	-444.34		-339.80		-407.45	-220.90
3/5/2017 12:00				-277.04							
3/28/2017 0:00	-629.20										
3/30/2017 0:00							-421.80				
3/31/2017 0:00					-90.05	-444.10		-340.30		-407.13	-221.75
3/31/2017 12:00				-276.73							
4/6/2017 0:00			-402.70								
5/8/2017 0:00					-90.18	-444.22		-340.00		-407.31	-217.53
5/8/2017 12:00				-277.14							
6/4/2017 0:00	-623.72				-91.49	-444.38		-340.10		-407.58	-216.77
6/4/2017 12:00				-278.84							
6/14/2017 0:00									-387.56		
7/6/2017 0:00	-630.74		-409.20		-94.02	-444.89		-339.70	-388.09	-408.44	-218.63
7/6/2017 12:00				-280.47							
7/7/2017 0:00							-431.80				
8/9/2017 0:00	-634.75				-97.19	-445.48		-339.90	-388.74	-410.60	-225.42
8/9/2017 12:00				-282.23							
9/5/2017 0:00	-638.78				-97.97	-445.58					-224.73
9/5/2017 12:00				-283.05							
9/5/2017 13:32										-411.00	
9/5/2017 13:58									-338.70		
9/5/2017 14:22								-339.80			
10/2/2017 0:00					-98.46	-446.89	-438.90				
10/2/2017 12:00				-283.60							
10/2/2017 13:34										-411.70	
10/2/2017 13:59									-389.00		
10/2/2017 14:04											-222.44

State #	5804415	5804416	5804417	5804514					5817504												
CUWCD #	E-13-054P	E-15-056P	E-17-016P	E-02-1409G	E-07-011P	E-10-051P	E-14-059P	M-17-CTGCD_Fischer	M-5817504	M-19-002P	E-10-018P	M-5811102	M-20-001P	N1-09-003P	N1-16-001P	N1-16-004P	N1-16-005P	N1-18-001P	N2-10-003P	N2-19-002P	N2-19-003P
Well Name	Lee	Goodwill	Brown	H. Spring Park					TenEyck		Sloan	Basey									
Highest	-408.56	-399.72	-403.01	-329.60	-50.75	-412.03	-298.80	-217.94	-272.75	-359.67	-424.83	-631.15	-512.38	-434.00	-463.74	-412.91	-417.22	-535.20	-331.09	-437.20	-444.58
Lowest	-453.93	-447.00	-457.52	-392.00	-718.99	-730.94	-416.30	-447.96	-272.75	-388.80	-468.23	-631.15	-512.52	-435.09	-479.40	-414.51	-418.97	-550.01	-337.92	-439.70	-444.58

Clearwater UWCD - Middle 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 #	58-02-302	58-04-405	None	58-05-901	58-04-407	58-04-406	58-04-514	None	None	None	None	40-58-903	None	None	58-04-104	None	40-57-601	58-03-504	None	58-02-901	58-03-701	None	None	40-49-601	58-01-202	58-09-303	None	57-24-503	None	58-09-201	57-16-201	5804415	5804416	5804417	5804514					5817504												
CUWCD #	M-16-001G	E-05-083P	N2-11-003G	N2-02-013G	E-02-1407G	E-02-1406G	E-02-1409G	N2-07-006G	E-03-444P	N2-04-011P	E-07-011P	E-06-063P	N2-07-003G	N2-08-002P	E-08-005P	N1-09-003P	M-09-001P	E-10-003P	N2-10-003P	M-13-001P	M-14-002P	N2-14-003P	E-14-053P	M-18-TWDB-Cove	M-17-TWDB Kempner	M-17-TWDB Briggs	N1-16-006P	M-17-CTGCD_Mattingly	M-17-CTGCD_Konecci	M-17-CTGCD_Allen	M-17-CTGCD_Fischer	E-13-054P	E-15-056P	E-17-016P	E-02-1409G	E-07-011P	E-10-051P	E-14-059P	M-17-CTGCD_Fischer	M-5817504	M-19-002P	E-10-018P	M-5811102	M-20-001P	N1-09-003P	N1-16-001P	N1-16-004P	N1-16-005P	N1-18-001P	N2-10-003P	N2-19-002P	N2-19-003P
Well Name	River Ridge Monitor Well	Lester (Murphy)	UMHB	City of Holland	Reavis	H. Springs	H. Spring Park	Maxdale Cowboy Church	McLemore	Central Texas Strike Zone	Brooks	Veterans Monitor Well	Killeen Crushed Stone	Salado ISD (HS)	Stephenson	Laurie Gehring	Copperas Cove - Middle	Christian	James Construction	StillmanValley Monitor Well	Gault - Middle Trinity	RS Materials	Pedigo				Ronald Ham	Mattingly	Konecci	Allen	Fischer	Lee	Goodwill	Brown	H. Spring Park					TenEyck		Sloan	Basey									
Highest	-254.90	-281.40	-301.10	-17.20	-370.40	-373.90	-313.00	-62.00	-399.58	-305.30	-566.00	-359.70	-343.30	-288.10	-346.90	-422.80	-295.47	-555.40	-318.20	-454.00	-623.72	-696.30	-400.10	-273.23	-81.30	-427.76	-267.08	-337.27	-338.70	-398.07	-212.38	-408.56	-399.72	-403.01	-329.60	-50.75	-412.03	-298.80	-217.94	-272.75	-359.67	-424.83	-631.15	-512.38	-434.00	-463.74	-412.91	-417.22	-535.20	-331.09	-437.20	-444.58
Lowest	-348.96	-444.49	-326.30	-60.05	-450.80	-446.00	-392.00	-179.50	-494.20	-333.50	-718.99	-440.60	-476.00	-353.80	-453.50	-439.50	-326.48	-611.50	-357.00	-523.79	-694.48	-743.32	-430.10	-284.07	-195.80	-463.08	-474.33	-340.30	-398.00	-419.90	-231.78	-453.93	-447.00	-457.52	-392.00	-718.99	-730.94	-416.30	-447.96	-272.75	-388.80	-468.23	-631.15	-512.52	-435.09	-479.40	-414.51	-418.97	-550.01	-337.92	-439.70	-444.58
10/2/2017 14:23																												-340.00																								
10/3/2017 0:00		-397.20		-39.00	-403.80	-400.40	-340.60							-327.20					-320.30				-415.10																														
10/4/2017 0:00			-308.30													-425.00																																					
10/27/2017 0:00													-444.60																																						
11/6/2017 0:00	-335.84																-309.61				-644.98				-99.03	-446.12																											
11/6/2017 12:00																								-282.41																											
11/6/2017 13:35																														-411.80																					
11/6/2017 13:59																													-386.90																						
11/6/2017 14:05																															-221.69																				
11/6/2017 16:44																												-339.10																								
12/4/2017 0:00	-335.59												-442.80				-309.17				-646.20																															
12/4/2017 13:54																														-412.30																					
12/4/2017 14:00																													-386.90																						
12/4/2017 14:06																															-220.66																				
12/4/2017 16:45																												-339.10																								
12/20/2017 0:00																						-696.50																													
12/27/2017 0:00	-334.40							-171.70	-464.20		-663.80	-371.90			-421.10		-308.66	-576.09		-476.40			-414.40		-99.43	-446.30	-443.80																									
12/27/2017 12:00																								-281.37																											
12/27/2017 13:54																														-412.60																					
12/27/2017 14:01																													-387.50																						
12/27/2017 14:06																															-225.62																				
12/27/2017 16:46																												-339.30																								
12/29/2017 0:00		-378.90	-307.80	-47.00	-392.80	-389.30	-326.30			-308.50			-440.80	-322.80		-422.80			-318.20		-647.15																															
1/2/2018 0:00																						-696.30																													
2/5/2018 0:00																													-387.50	-413.80																					
2/5/2018 10:07																					-652.21																															
2/5/2018 10:08	-332.83																																																			
2/5/2018 10:11																		-309.69																																			
2/5/2018 10:13																									-99.86																										
2/5/2018 10:14																										-446.35																									
2/5/2018 12:00																								-280.80																											
2/5/2018 15:04																												-339.40																								
3/5/2018 0:00																												-338.90	-386.80	-413.30	-224.23																				
3/5/2018 12:00	-330.97																	-309.47																																			
3/29/2018 0:00																												-338.90	-387.00	-413.70	-224.56																				
3/29/2018 9:20									-462.90																																												
3/29/2018 10:25												-378.20																																								
3/29/2018 10:44								-178.50																																													
3/29/2018 11:39																																																				
3/29/2018 12:00	-331.39																	-309.69																																			
3/29/2018 13:10																				-479.79																															
3/29/2018 13:38											-669.40																																									
3/29/2018 14:05																						-702.30																													
3/29/2018 14:50																											-447.23																									
3/29/2018 15:00													-443.60																																						
3/29/2018 15:16																		-576.30																																	
3/29/2018 15:35															-419.10																																				
3/29/2018 15:53																							-413.40																												
3/30/2018 9:37																			-320.95																																
3/30/2018 9:58						-393.30																																													
3/30/2018 10:00					-396.90																																														
3/30/2018 10:45		-384.90																																																	
3/30/2018 10:55																																																				
3/30/2018 11:01							-329.00																																												
3/30/2018 12:00																					-653.69																															
3/30/2018 12:05														-325.20																																					
3/30/2018 13:06				-46.19																																															
3/30/2018 14:33			-304.40																																																
3/30/2018 14:42										-309.70																																									
3/30/2018 15:00																-425.90																																			
4/9/2018 12:00																																																				
4/24/2018 14:34				-46.41																																															
5/7/2018 0:00																												-339.20	-387.30	-414.50	-222.63																				
5/7/2018 12:00	-333.69																	-308.58																																			
5/29/2018 15:03				-46.62																																															
6/3/2018 19:00																		-310.72																																			
6/4/2018 0:00																												-339.50	-387.90	-415.60	-224.31																				
6/4/2018 3:00	-333.43																																																			
6/11/2018 10:20																																																				
6/21/2018 9:45									-481.20																																												
6/21/2018 10:20												-380.72																																								
6/21/2018 10:55																																																				
6/21/2018 12:00	-337.93																	-310.87							-281.07	-103.16	-447.23																									
6/21/2018 12:10								-174.80																																													
6/21/2018 13:38																				-496.71																															
6/21/2018 14:25																						-719.20																													
6/21/2018 15:06																											-464.66																									
6/21/2018 15:55															-430.00																																				
6/22/2018 8:44																			-328.68																																
6/22/2018 9:20						-421.40																																													
6/22/2018 9:22					-425.60																																														
6/22/2018 9:35		-430.00																																																	
6/22/2018 9:42																																																				
6/22/2018 9:47							-367.90																																												
6/22/2018 10:25				-47.18																																															
6/22/2018 11:28			-311.00																																																
6/22/2018 11:37										-307.80																																									
6/22/2018 11:57																-430.30																																			
6/26/2018 8:48													-464.80																																						
6/26/2018 9:12																																																				
6/26/2018 11:15																		-587.90																																	
6/26/2018 11:35														-338.60																																					
6/26/2018 11:50																							-425.10																												
7/2/2018 12:00																					-659.82																															
7/5/2018 0:00																												-339.40	-398.00	-416.70	-223.83																				
7/17/2018 13:42						-427.20																																													
7/17/2018 13:45					-430.60																																														
7/17/2018 14:00							-365.70																																												
7/17/2018 14:05		-424.70																																																	
7/19/2018 9:10																			-332.59																																
7/19/2018 9:21																							-430.00																												
7/19/2018 11:05																		-600.69																																	
7/19/2018 12:00	-343.19																	-312.26				-663.13																															
7/20/2018 9:30														-342.20																																					
7/20/2018 9:48				-47.65																																															
7/20/2018 10:24																						-727.29																													
7/20/2018 11:24																																																				
7/20/2018 11:48																											-474.33																									
7/20/2018 12:27																				-510.65																															
7/20/2018 13:50								-177.10																																													
7/20/2018 14:20																																																				
7/20/2018 15:24												-382.49																																								
7/20/2018 15:58			-310.30																																																
7/20/2018 16:07										-309.20																																									
7/20/2018 16:30																-439.50																																			
7/23/2018 8:35																																																				
7/23/2018 9:05													-469.50																																						
7/23/2018 9:45															-437.30																																				
7/23/2018 10:04									-490.40																																												
8/6/2018 0:00																												-339.50	-389.30	-418.20	-225.58																				
8/6/2018 12:00	-347.44																	-314.99				-669.80			-283.44	-105.04	-448.45																											
8/13/2018 12:00	-348.19																	-316.32				-672.24					-448.57																											
8/20/2018 10:10																-435.77																																			
8/20/2018 10:32										-311.90																																									
8/20/2018 10:40			-314.00																																																
8/20/2018 11:45																																																				
8/20/2018 12:00	-347.64																	-317.35				-668.61																															
8/20/2018 12:17												-383.67																																								
8/20/2018 12:43								-179.50																																													
8/20/2018 13:04																				-521.52																															
8/20/2018 13:06													-466.20																																						
8/20/2018 13:30																						-730.84																													
8/20/2018 14:10																											-471.35																									
8/20/2018 14:25																																																				
8/20/2018 14:40																		-605.50																																	
8/20/2018 14:56															-443.30																																				
8/20/2018 15:10																							-430.10																												
8/20/2018 15:17														-345.00																																					
8/20/2018 15:45				-48.35																																															
8/20/2018 16:10																			-334.60																																
8/21/2018 8:35																																																				
8/21/2018 8:57									-490.30																																												
8/21/2018 9:32						-438.00																																													
8/21/2018 9:50							-377.80																																												
8/21/2018 21:34					-441.20																																														
8/21/2018 21:45		-438.50																																																	
9/3/2018 12:00	-348.96																	-319.63				-667.79			-284.07	-105.95	-448.76																											
9/10/2018 11:15													-465.60																																						
9/27/2018 7:00																					-681.81																															
9/27/2018 8:55										-311.70																																									
9/27/2018 9:04			-313.60																																																
9/27/2018 9:22																			-333.96																																
9/27/2018 10:17		-412.90																																																	
9/27/2018 10:22							-357.40																																												
9/27/2018 10:48						-423.50																																													
9/27/2018 10:50					-427.10																																														
9/27/2018 11:35														-340.60																																					
9/27/2018 12:58				-49.35																																															
9/27/2018 14:52																-434.11																																			
9/28/2018 9:00																							-428.70																												
9/28/2018 9:18															-444.50																																				
9/28/2018 9:33													-462.60																																						
9/28/2018 9:43																											-467.65																									
9/28/2018 10:00																		-601.80																																	
9/28/2018 10:09																																																				
9/28/2018 11:12																				-523.79																															
9/28/2018 11:51								-179.10																																													
9/28/2018 12:00																		-321.18							-283.72	-195.80	-448.27																									
9/28/2018 12:33																																																				
9/28/2018 13:36												-383.87																																								
9/28/2018 14:05									-482.80																																												
10/29/2018 14:11													-456.60																																						
11/5/2018 12:00	-346.51																	-318.97				-674.76			-281.21	-102.02	-446.96																											
12/3/2018 12:00	-342.39																	-318.89				-674.76			-280.06	-98.55	-446.94																											
12/26/2018 8:55									-470.20																																												
12/26/2018 10:32												-381.52																																								
12/26/2018 11:00																											-284.59																									
12/26/2018 11:47								-142.50																																													
12/26/2018 12:00	-339.54																	-319.56							-278.95	-95.94	-446.67																									
12/26/2018 13:22																				-486.70																															
12/26/2018 14:00																		-583.59																																	
12/26/2018 14:20															-429.90																																				
12/27/2018 8:47																			-325.03																																
12/27/2018 9:03																							-418.20																												
12/27/2018 9:33						-395.40																																													
12/27/2018 9:35					-398.40																																														
12/27/2018 10:07		-381.00																																																	
12/27/2018 10:13							-330.80																																												
12/27/2018 11:00														-327.40																																					
12/27/2018 12:00																					-666.69																															
12/27/2018 14:01			-306.70																																																
12/27/2018 14:12										-309.40																																									
12/27/2018 14:29																-430.78																																			
12/31/2018 12:00																												-338.90	-387.80	-413.70	-216.86																				
1/2/2019 12:25				-50.75																															-50.75															
2/4/2019 12:00	-333.81	-384.61																	-315.06				-666.32			-277.77	-81.30	-446.28		-338.90	-387.80	-412.60	-214.68							-412.60	-446.28		-387.80										
2/11/2019 9:30													-440.80																																						
3/4/2019 10:30													-440.40																																						
3/4/2019 12:00	-331.88	-379.71																	-313.30				-663.32			-278.16	-84.34	-446.40		-339.30	-387.60	-412.40	-213.66							-412.40	-446.40		-387.60										
3/26/2019 9:17									-465.50																																												
3/26/2019 9:35																																																				
3/26/2019 10:03																																																				
3/26/2019 10:11																																																				
3/26/2019 11:05																											-273.72																									
3/26/2019 11:48								-113.30																																													
3/26/2019 12:00	-330.77																	-312.41							-278.78	-85.90	-446.54													-446.54														
3/26/2019 12:05																																																				
3/26/2019 12:21												-379.50																																								
3/26/2019 13:05																				-480.67																															
3/26/2019 13:47																						-711.41															-711.41															
3/26/2019 14:24													-439.80																																						
3/26/2019 14:51																		-575.09																																	
3/26/2019 15:10															-423.30																																				
3/26/2019 15:25																							-414.20																												
3/28/2019 10:05																			-321.48																																
3/28/2019 10:50							-329.60																												-329.60																
3/28/2019 11:20						-391.20																																													

Clearwater UWCD - Middle 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 #	58-02-302	58-04-405	None	58-05-901	58-04-407	58-04-406	58-04-514	None	None	None	None	40-58-903	None	None	58-04-104	None	40-57-601	58-03-504	None	58-02-901	58-03-701	None	None	40-49-601	58-01-202	58-09-303	None	57-24-503	None	58-09-201	57-16-201	5804415	5804416	5804417	5804514					5817504												
CUWCD #	M-16-001G	E-05-083P	N2-11-003G	N2-02-013G	E-02-1407G	E-02-1406G	E-02-1409G	N2-07-006G	E-03-444P	N2-04-011P	E-07-011P	E-06-063P	N2-07-003G	N2-08-002P	E-08-005P	N1-09-003P	M-09-001P	E-10-003P	N2-10-003P	M-13-001P	M-14-002P	N2-14-003P	E-14-053P	M-18-TWDB-Cove	M-17-TWDB Kempner	M-17-TWDB Briggs	N1-16-006P	M-17-CTGCD_Mattingly	M-17-CTGCD_Konecci	M-17-CTGCD_Allen	M-17-CTGCD_Fischer	E-13-054P	E-15-056P	E-17-016P	E-02-1409G	E-07-011P	E-10-051P	E-14-059P	M-17-CTGCD_Fischer	M-5817504	M-19-002P	E-10-018P	M-5811102	M-20-001P	N1-09-003P	N1-16-001P	N1-16-004P	N1-16-005P	N1-18-001P	N2-10-003P	N2-19-002P	N2-19-003P
Well Name	River Ridge Monitor Well	Lester (Murphy)	UMHB	City of Holland	Reavis	H. Springs	H. Spring Park	Maxdale Cowboy Church	McLemore	Central Texas Strike Zone	Brooks	Veterans Monitor Well	Killeen Crushed Stone	Salado ISD (HS)	Stephenson	Laurie Gehring	Copperas Cove - Middle	Christian	James Construction	StillmanValley Monitor Well	Gault - Middle Trinity	RS Materials	Pedigo				Ronald Ham	Mattingly	Konecci	Allen	Fischer	Lee	Goodwill	Brown	H. Spring Park					TenEyck		Sloan	Basey									
Highest	-254.90	-281.40	-301.10	-17.20	-370.40	-373.90	-313.00	-62.00	-399.58	-305.30	-566.00	-359.70	-343.30	-288.10	-346.90	-422.80	-295.47	-555.40	-318.20	-454.00	-623.72	-696.30	-400.10	-273.23	-81.30	-427.76	-267.08	-337.27	-338.70	-398.07	-212.38	-408.56	-399.72	-403.01	-329.60	-50.75	-412.03	-298.80	-217.94	-272.75	-359.67	-424.83	-631.15	-512.38	-434.00	-463.74	-412.91	-417.22	-535.20	-331.09	-437.20	-444.58
Lowest	-348.96	-444.49	-326.30	-60.05	-450.80	-446.00	-392.00	-179.50	-494.20	-333.50	-718.99	-440.60	-476.00	-353.80	-453.50	-439.50	-326.48	-611.50	-357.00	-523.79	-694.48	-743.32	-430.10	-284.07	-195.80	-463.08	-474.33	-340.30	-398.00	-419.90	-231.78	-453.93	-447.00	-457.52	-392.00	-718.99	-730.94	-416.30	-447.96	-272.75	-388.80	-468.23	-631.15	-512.52	-435.09	-479.40	-414.51	-418.97	-550.01	-337.92	-439.70	-444.58
3/28/2019 12:00																						-662.54																															
3/28/2019 12:52															-321.90																																						
3/28/2019 13:50					-52.28																															-52.28																
3/28/2019 15:29				-305.10																																																	
3/28/2019 15:37											-310.00																																										
3/28/2019 15:56																	-429.90																																				
4/1/2019 12:00			-388.49																									-339.40	-387.90	-412.30	-213.84							-412.30			-387.90											
5/1/2019 9:27														-439.30																																							
5/6/2019 3:00		-333.90																																																			
5/6/2019 7:00																		-315.36																																			
5/6/2019 8:00																											-446.49													-446.49													
5/6/2019 11:00																									-278.37																												
5/6/2019 12:00			-388.37									-679.15										-658.15							-338.90	-387.70	-411.80	-213.45							-411.80			-387.70											
6/3/2019 12:00			-395.23									-679.92						-315.95				-658.09			-277.67	-83.44	-446.36		-339.00	-387.30	-411.50	-212.94							-411.50	-446.36		-387.30											
6/4/2019 4:00		-333.33																																																			
6/5/2019 9:15														-437.00																																							
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6/26/2019 12:00		-335.11																-314.99				-658.16			-278.03		-446.38													-446.38													
6/26/2019 12:03													-379.03																																								
6/26/2019 12:22									-62.00																																												
6/26/2019 12:49																					-477.07																																
6/26/2019 13:24																							-707.28															-707.28															
6/26/2019 14:05														-437.60																																							
6/26/2019 14:30																			-569.30																																		
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6/26/2019 15:03															-328.40																																						
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6/27/2019 8:39											-307.80																																										
6/27/2019 8:48				-307.30																																																	
6/27/2019 9:08																	-429.94																																				
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6/27/2019 13:42							-398.70																																														
6/27/2019 14:30								-336.90																											-336.90																	
6/27/2019 15:58																										-84.79																											
7/1/2019 0:00												-679.67																																									
7/1/2019 12:00			-394.64																									-339.20	-387.30	-411.70	-212.38							-411.70			-387.30											
8/5/2019 7:00																						-664.18																															
8/5/2019 12:00			-427.34									-686.45						-314.55							-278.08	-88.63	-446.69		-339.30	-388.50	-412.90	-215.86							-412.90	-446.69		-388.50											
9/2/2019 12:00												-696.16																-339.40	-388.80	-414.80	-219.79							-414.80			-388.80											
9/3/2019 12:00																		-315.28				-671.89			-279.20	-91.74	-447.28													-447.28													
9/25/2019 10:56								-374.60																											-374.60																	
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9/27/2019 12:06									-142.10																																												
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11/4/2019 12:00																		-315.87				-685.38			-278.62	-96.73	-447.96			-388.10	-416.10	-221.27							-416.10	-447.96		-388.10											
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12/26/2019 10:11																																																				
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12/26/2019 10:49																																																				
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12/27/2019 10:25								-345.40																											-345.40																	
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12/27/2019 12:18			-402.01																																																		
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12/27/2019 13:20																																		-410.00																			
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2/3/2020 6:00			-384.61																																																		
2/3/2020 12:00																													-339.10	-387.00	-415.50	-217.94								-217.94													
2/4/2020 5:05														-461.80																																							
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8/6/2020 12:00								-392.00																											-392.00																	
8/28/2020 9:41																													-339.60	-388.80	-419.90	-231.78								-231.78													
8/28/2020 9:43																		-326.48				-692.90				-105.98	-463.08															-376.07											
8/28/2020 9:59														-476.00																																							
9/7/2020 5:00																																-226.62								-226.62													
9/7/2020 12:00										-494.20																																											
9/10/2020 9:22																																																	-418.97				
10/2/2020 5:00																																																-414.51					
10/2/2020 8:42																																							-307.70														
10/2/2020 9:30																												-280.58																									
10/2/2020 9:35																		-325.74				-694.48				-105.61																-372.83											
10/2/2020 10:25													-391.04																																								
10/2/2020 11:34																					-505.17																																
10/2/2020 12:00																							-743.15																														
10/2/2020 12:30																																															-477.45						
10/2/2020 12:55														-472.10																																							
10/2/2020 13:20																																																		-550.01			
10/2/2020 13:53																			-611.50																																		
10/2/2020 14:00																-453.50																																					
10/2/2020 14:20															-353.80																																						
10/2/2020 14:30							-432.40																																														
10/2/2020 14:42						-435.80																																															
10/2/2020 15:04								-370.60																											-370.60																	
10/2/2020 15:17					-60.05																																																
10/2/2020 15:19				-316.00																																																	
10/2/2020 15:36											-317.20																																										
10/2/2020 16:01																	-435.09																												-435.09							
10/2/2020 16:31														-471.10																																							
10/2/2020 16:40																																													-512.38								
10/2/2020 16:55																										-105.92																-370.53											

Clearwater UWCD - Middle 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 #	58-02-302	58-04-405	None	58-05-901	58-04-407	58-04-406	58-04-514	None	None	None	None	40-58-903	None
CUWCD #	M-16-001G	E-05-083P	N2-11-003G	N2-02-013G	E-02-1407G	E-02-1406G	E-02-1409G	N2-07-006G	E-03-444P	N2-04-011P	E-07-011P	E-06-063P	N2-07-003G
Well Name	River Ridge Monitor Well	Lester (Murphy)	UMHB	City of Holland	Reavis	H. Springs	H. Spring Park	Maxdale Cowboy Church	McLemore	Central Texas Strike Zone	Brooks	Veterans Monitor Well	Killeen Crushed Stone
Highest	-254.90	-281.40	-301.10	-17.20	-370.40	-373.90	-313.00	-62.00	-399.58	-305.30	-566.00	-359.70	-343.30
Lowest	-348.96	-444.49	-326.30	-60.05	-450.80	-446.00	-392.00	-179.50	-494.20	-333.50	-718.99	-440.60	-476.00
11/3/2020 9:46													-469.20
11/18/2020 15:05													
12/1/2020 12:00									-482.60				
12/2/2020 9:58													
12/4/2020 11:00													
12/29/2020 8:50												-394.09	
12/29/2020 9:15													
12/29/2020 9:19													
12/29/2020 9:35								-174.50					
12/29/2020 10:05													
12/29/2020 10:20													
12/29/2020 10:54													
12/29/2020 11:43											-718.99		
12/29/2020 11:57													
12/29/2020 12:00													
12/29/2020 12:13													
12/29/2020 12:20													
12/29/2020 12:50													
12/29/2020 13:08													
12/29/2020 13:17													
12/29/2020 13:31						-419.80							
12/29/2020 14:04					-423.00								
12/29/2020 14:15							-352.20						
12/29/2020 14:45													
12/29/2020 14:47			-313.40										
12/29/2020 15:02										-319.00			
12/29/2020 15:18													
12/29/2020 16:11													
12/29/2020 16:18													
12/29/2020 16:45													
12/29/2020 16:55													
Since Last	-1.78	4.64	2.60	-1.47	12.80	12.60	18.40	-32.40	11.60	-1.80	-4.52	-3.05	1.90
Historic	-69.61	-127.25	12.90	-36.35	1.10	1.60	12.00	1.70	-65.02	14.50	-152.99	3.61	-92.40

State #	None	58-04-104	None	40-57-601	58-03-504	None	58-02-901	58-03-701	None	None	40-49-601	58-01-202	58-09-303
CUWCD #	N2-08-002P	E-08-005P	N1-09-003P	M-09-001P	E-10-003P	N2-10-003P	M-13-001P	M-14-002P	N2-14-003P	E-14-053P	M-18-TWDB-Cove	M-17-TWDB Kempner	M-17-TWDB Briggs
Well Name	Salado ISD (HS)	Stephenson	Laurie Gehring	Copperas Cove - Middle	Christian	James Construction	StillmanValley Monitor Well	Gault - Middle Trinity	RS Materials	Pedigo			
Highest	-288.10	-346.90	-422.80	-295.47	-555.40	-318.20	-454.00	-623.72	-696.30	-400.10	-273.23	-81.30	-427.76
Lowest	-353.80	-453.50	-439.50	-326.48	-611.50	-357.00	-523.79	-694.48	-743.32	-430.10	-284.07	-195.80	-463.08
11/3/2020 9:46													
11/18/2020 15:05													
12/1/2020 12:00													
12/2/2020 9:58													
12/4/2020 11:00													
12/29/2020 8:50													
12/29/2020 9:15													
12/29/2020 9:19													-459.89
12/29/2020 9:35													
12/29/2020 10:05							-503.95						
12/29/2020 10:20													
12/29/2020 10:54												-106.56	
12/29/2020 11:43													
12/29/2020 11:57									-741.40				
12/29/2020 12:00													
12/29/2020 12:13													
12/29/2020 12:20					-607.69								
12/29/2020 12:50		-446.30											
12/29/2020 13:08						-337.92							
12/29/2020 13:17	-342.20												
12/29/2020 13:31													
12/29/2020 14:04													
12/29/2020 14:15													
12/29/2020 14:45													
12/29/2020 14:47													
12/29/2020 15:02													
12/29/2020 15:18													
12/29/2020 16:11			-434.00										
12/29/2020 16:18													
12/29/2020 16:45													
12/29/2020 16:55													
Since Last	11.60	7.20	1.09	0.74	3.81	-6.83	1.22	-1.58	1.75	14.10	-0.99	-0.64	3.19
Historic	-54.10	-99.40	-9.10	-18.80	-52.29	-13.62	-27.55	-64.48	-44.90	12.30	0.30	-9.24	-31.92

State #	None	57-24-503	None	58-09-201	57-16-201	5804415	5804416	5804417	5804514				
CUWCD #	N1-16-006P	M-17-CTGCD_Mattingly	M-17-CTGCD_Konecci	M-17-CTGCD_Allen	M-17-CTGCD_Fischer	E-13-054P	E-15-056P	E-17-016P	E-02-1409G	E-07-011P	E-10-051P	E-14-059P	M-17-CTGCD_Fischer
Well Name	Ronald Ham	Mattingly	Konecci	Allen	Fischer	Lee	Goodwill	Brown	H. Spring Park				
Highest	-267.08	-337.27	-338.70	-398.07	-212.38	-408.56	-399.72	-403.01	-329.60	-50.75	-412.03	-298.80	-217.94
Lowest	-474.33	-340.30	-398.00	-419.90	-231.78	-453.93	-447.00	-457.52	-392.00	-718.99	-730.94	-416.30	-447.96
11/3/2020 9:46													
11/18/2020 15:05													
12/1/2020 12:00													
12/2/2020 9:58													
12/4/2020 11:00													
12/29/2020 8:50													
12/29/2020 9:15	-282.62												
12/29/2020 9:19													
12/29/2020 9:35													
12/29/2020 10:05													
12/29/2020 10:20													
12/29/2020 10:54													
12/29/2020 11:43										-718.99			
12/29/2020 11:57													
12/29/2020 12:00													
12/29/2020 12:13													
12/29/2020 12:20													
12/29/2020 12:50													
12/29/2020 13:08													
12/29/2020 13:17													
12/29/2020 13:31													
12/29/2020 14:04													
12/29/2020 14:15									-352.20				
12/29/2020 14:45													
12/29/2020 14:47													
12/29/2020 15:02													
12/29/2020 15:18													
12/29/2020 16:11													
12/29/2020 16:18													
12/29/2020 16:45													
12/29/2020 16:55													
Since Last	-2.04	0.20	0.00	-0.80	5.16	0.38	-44.25	-46.16	18.40	-4.52	2.10	-8.90	5.16
Historic	139.18	-2.22	-1.24	-11.72	-8.15	-30.66	-37.00	-37.39	-22.60	-668.24	251.70	104.90	219.66

State #	5817504												
CUWCD #	M-5817504	M-19-002P	E-10-018P	M-5811102	M-20-001P	N1-09-003P	N1-16-001P	N1-16-004P	N1-16-005P	N1-18-001P	N2-10-003P	N2-19-002P	N2-19-003P
Well Name	TenEyck		Sloan	Basey									
Highest	-272.75	-359.67	-424.83	-631.15	-512.38	-434.00	-463.74	-412.91	-417.22	-535.20	-331.09	-437.20	-444.58
Lowest	-272.75	-388.80	-468.23	-631.15	-512.52	-435.09	-479.40	-414.51	-418.97	-550.01	-337.92	-439.70	-444.58
11/3/2020 9:46													
11/18/2020 15:05												-439.70	
12/1/2020 12:00													
12/2/2020 9:58									-417.22				
12/4/2020 11:00								-412.91					
12/29/2020 8:50													
12/29/2020 9:15													
12/29/2020 9:19													
12/29/2020 9:35													
12/29/2020 10:05													
12/29/2020 10:20					-512.52								
12/29/2020 10:54		-368.76											
12/29/2020 11:43													
12/29/2020 11:57													
12/29/2020 12:00							-479.40						
12/29/2020 12:13										-547.90			
12/29/2020 12:20													
12/29/2020 12:50													
12/29/2020 13:08											-337.92		
12/29/2020 13:17													
12/29/2020 13:31													
12/29/2020 14:04													
12/29/2020 14:15													
12/29/2020 14:45												-437.20	
12/29/2020 14:47													
12/29/2020 15:02													
12/29/2020 15:18													-444.58
12/29/2020 16:11						-434.00							
12/29/2020 16:18													
12/29/2020 16:45													
12/29/2020 16:55													
Since Last		1.77	-26.54		-0.14	1.09	-1.95	1.60	1.75	2.11	-6.83	2.50	
Historic	0.00	19.04	-32.08	0.00	-0.14	0.45	-15.66	1.60	1.75	-12.70	-6.83	2.50	0.00

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 Middle Trinity is no more than 286 feet of drawdown after 50 years. The ***average drawdown goal per year is -5.72 feet.***

Minimum Number of Measurements: 3

Average Drawdown **-16.51 ft/yr**

Drawdown of Water Level
Increase of Water Level

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 #	40-53-406	40-54-701	40-61-509	40-62-401	40-62-501	40-63-501	58-05-202	58-06-102	58-06-301	40-57-602	None	58-06-201	40-53-405	None	None	None	40-35-404	5806202	5806301	5817902	5829603	None									
CUWCD #	N2-02-022G	M-13-006G	M-13-007G	N2-03-001G	M-13-005G	N2-02-034G	N2-02-024G	N2-02-001G	N2-04-010P	M-09-002P	N2-10-001P	N2-13-002P	M-13-039G	N2-14-005P	N2-14-004P	M-17-CTGCD_Carlile	M-18-TWDB-Gatesville	N2-14-005P	N2-04-010P	M-5817902	M-5829603	M-17-CTGCD_Carlile	M-19-001P	N1-18-004P	N1-19-003P	N2-13-001P	N2-20-002P	N2-20-003P	N2-20-004P	N2-20-005P	
Well Name	Moffat WSC #1	Cearley-City of Temple #2	Pea Ridge-City of Temple #3	Cen. TX Vet. Hospital	Acres-City of Temple #1	East Bell WSC #1	Armstrong WSC #1	Bell Co. WCID #2	East Bell WSC #2	Copperas Cove - Lower	Armstrong WSC #2	Jack Hilliard Dozer and Materials	CUWCD-Tanglewood Monitor Well	CTWSC System Split Well	CTWSC Doc Curb	Carlile	0	CTWSC System Split Well	East Bell WSC #2	Westwood Boys Ranch	City of Taylor #3	Carlile									
Highest	-329.70	-259.00	-31.00	-71.60	-136.13	-217.45	-245.80	-36.00	-268.00	-290.13	-305.80	-173.40	-268.60	-179.11	-417.08	-370.70	-477.64	-191.45	-293.99	-384.20	-207.94	-353.59	-300.29	-355.37	-377.31	-507.00	-348.35	-389.81	-377.12	-417.34	
Lowest	-583.70	-490.42	-285.25	-426.19	-371.91	-295.99	-270.80	-274.52	-378.00	-300.01	-373.10	-199.04	-480.29	-218.26	-485.03	-374.00	-543.86	-570.80	-305.96	-384.20	-211.57	-374.00	-310.57	-363.01	-377.31	-587.30	-350.84	-392.59	-380.00	-419.04	
5/30/1944 0:00				-73.00																											
6/24/1944 0:00				-71.60																											
3/1/1952 0:00			-31.00																												
9/30/1955 0:00								-50.00																							
12/29/1961 0:00								-36.00																							
9/1/1966 0:00			-134.13		-136.13																										
6/1/1968 0:00		-259.00																													
1/14/1974 0:00													-268.6																		
3/1/1978 0:00			-94.19																												
1/1/2003 0:00	-332.70																														
7/1/2003 0:00	-415.50																														
1/1/2004 0:00	-333.70																														
7/1/2004 0:00	-413.80																														
1/1/2005 0:00	-337.70																														
7/1/2005 0:00																															
1/1/2006 0:00																															
7/1/2006 0:00																															
9/1/2006 0:00																															
10/1/2006 0:00																															
11/1/2006 0:00																															
1/1/2007 0:00	-330.70																														
7/1/2007 0:00	-379.00																														
1/1/2008 0:00	-329.70																														
7/1/2008 0:00	-355.90																														
1/1/2009 0:00	-434.40																														
7/1/2009 0:00	-355.90																														
7/1/2009 12:00																	-480.05														
1/1/2010 0:00	-397.40									-291.16																					
1/1/2010 12:00																	-477.64														
7/1/2010 0:00	-406.70									-292.71																					
7/1/2010 12:00																	-482.23														
1/1/2011 0:00	-360.50									-290.13																					
1/1/2011 12:00																	-481.64														
7/1/2011 0:00	-346.50								-268.00	-290.25																					
7/1/2011 12:00																	-492.01														
9/1/2011 0:00	-457.10									-291.93																					
9/1/2011 14:00																	-504.69														
11/1/2011 0:00	-454.80	-456.40								-292.44																					
11/1/2011 12:00																	-495.66														
1/1/2012 0:00	-453.20								-378.00	-293.85																					
1/5/2012 13:00																	-492.23														
5/1/2012 0:00	-456.50								-278.00	-293.47																					
5/1/2012 12:00																	-494.64														
1/1/2013 0:00	-468.80								-280.00	-294.22																					
1/1/2013 12:00																	-504.42														
5/1/2013 0:00	-466.30								-285.00	-294.96																					
5/1/2013 12:00																	-504.54														
8/1/2013 0:00	-473.10								-282.00	-295.11	-329.83																				
8/1/2013 12:00																	-507.21														
10/25/2013 0:00											-328																				
11/1/2013 0:00	-466.60								-290.00	-295.85		-173.4																			
11/1/2013 12:00																	-504.65														
12/5/2013 0:00												-177.7																			
2/1/2014 0:00	-466.20					-230.00			-290.00	-295.70																					
2/1/2014 12:00																	-500.52														
5/1/2014 0:00	-469.50					-230.00			-285.00	-296.14		-174																			
5/1/2014 12:00																	-505.63														
8/1/2014 0:00	-471.70	-456.00	-239.20		-348.68	-230.00			-285.00	-296.00		-176																			
8/1/2014 12:00																	-501.99														
9/23/2014 0:00		-465.05																													
9/26/2014 0:00			-241.10																												
11/1/2014 0:00	-470.40					-235.00			-290.00	-296.91		-177.79																			
11/1/2014 12:00																	-509.54														
11/17/2014 0:00							-247.90				-329.6																				
12/16/2014 0:00							-246.30				-327.4																				
1/1/2015 0:00		-456.00	-239.70		-340.10	-235.00			-290.00	-296.84		-175.1																			
1/1/2015 12:00																	-504.68														
1/6/2015 0:00	-467.79																														
1/9/2015 0:00							-246.40				-327.7																				
2/1/2015 0:00		-456.20																													
2/11/2015 0:00							-246.70				-327.7																				
3/5/2015 0:00	-468.79																														
3/11/2015 0:00							-247.00				-328.3																				
3/26/2015 0:00		-465.05	-241.60																												
4/9/2015 0:00	-468.70						-247.90				-329.2																				
5/1/2015 0:00	-469.00																														
5/12/2015 0:00							-245.80				-330.3																				
5/20/2015 0:00															-454																
6/1/2015 0:00	-467.80				-339.50	-230.00			-290.00	-296.69		-175.1																			
6/1/2015 12:00																	-500.88														
6/4/2015 0:00							-248.50				-331																				
6/5/2015 0:00		-456.20																													
7/1/2015 0:00	-468.50					-230.00			-290.00																						
7/8/2015 0:00							-248.70				-330.6																				
8/3/2015 0:00	-485.20					-265.00			-290.00																						
9/2/2015 0:00	-481.10																														
9/5/2015 0:00						-275.00			-290.00																						
9/7/2015 0:00							-247.30				-330.6																				
9/14/2015 0:00		-469.26			-347.84					-297.06		-180.79																			
9/14/2015 12:00																	-515														
10/1/2015 0:00	-477.70																														
11/2/2015 0:00	-478.00																														
11/5/2015 0:00						-270.00	-248.80		-290.00		-330.8																				
11/30/2015 0:00		-468.20			-349.07					-297.43		-177.7																				
11/30/2015 12:00																	-509.45														
12/2/2015 0:00	-471.70																														
1/1/2016 12:00																	-507.8														
1/5/2016 0:00	-470.80	-467.91			-349.98	-260.00	-249.00		-295.00	-297.43	-331.1	-175.89																			
3/1/2016 0:00	-470.90																														
4/4/2016 0:00	-472.20																														
4/5/2016 0:00						-260.00	-250.30		-295.00		-332.1																				
4/9/2016 0:00		-466.87																													
4/19/2016 0:00					-349.38					-297.21		-176.5																			
4/19/2016 12:00																	-507.52														
5/2/2016 0:00	-472.40																														
5/11/2016 0:00													-445.4																		
6/1/2016 12:00																	-505.35														
7/1/2016 0:00	-485.50																														
8/1/2016 0:00	-484.00																														
8/2/2016 0:00						-272.00			-290.00																						
8/30/2016 0:00	-476.80				-351.60	-265.00	-252.80		-292.00	-297.10	-334.1	-176.7	-451																			
8/30/2016 12:00																	-515.93														
8/31/2016 0:00																		-371.39													
9/13/2016 0:00			-239.50																												
9/30/2016 0:00	-485.10																														
10/3/2016 0:00						-268.00			-290.00	-297.14																					
10/5/2016 0:00		-471.54			-352.23		-251.70				-334.5																				
10/6/2016 0:00																-371.17															
10/6/2016 12:00																	-515.12														
10/17/2016 0:00								-262.50																							
10/19/2016 0:00					-353.20					-297.65																					
11/1/2016 0:00	-477.30					-268.00			-270.00							-371.69															
11/1/2016 12:00																	-515.11														
11/2/2016 0:00							-254.10				-335.5		-450																		
11/21/2016 0:00													-455.9																		
12/1/2016 0:00	-476.30	-472.58			-352.85	-268.00	-252.90		-290.00	-297.58	-305.8					-371.46															

Clearwater UWCD - Lower Trinity Monitor Wells

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State #	40-53-406	40-54-701	40-61-509	40-62-401	40-62-501	40-63-501	58-05-202	58-06-102	58-06-301	40-57-602	None	58-06-201	40-53-405	None	None	None	40-35-404	5806202	5806301	5817902	5829603	None									
CUWCD #	N2-02-022G	M-13-006G	M-13-007G	N2-03-001G	M-13-005G	N2-02-034G	N2-02-024G	N2-02-001G	N2-04-010P	M-09-002P	N2-10-001P	N2-13-002P	M-13-039G	N2-14-005P	N2-14-004P	M-17-CTGCD_Carlile	M-18-TWDB-Gatesville	N2-14-005P	N2-04-010P	M-5817902	M-5829603	M-17-CTGCD_Carlile	M-19-001P	N1-18-004P	N1-19-003P	N2-13-001P	N2-20-002P	N2-20-003P	N2-20-004P	N2-20-005P	
Well Name	Moffat WSC #1	Cearley-City of Temple #2	Pea Ridge-City of Temple #3	Cen. TX Vet. Hospital	Acres-City of Temple #1	East Bell WSC #1	Armstrong WSC #1	Bell Co. WCID #2	East Bell WSC #2	Copperas Cove - Lower	Armstrong WSC #2	Jack Hilliard Dozer and Materials	CUWCD-Tanglewood Monitor Well	CTWSC System Split Well	CTWSC Doc Curb	Carlile	0	CTWSC System Split Well	East Bell WSC #2	Westwood Boys Ranch	City of Taylor #3	Carlile									
Highest	-329.70	-259.00	-31.00	-71.60	-136.13	-217.45	-245.80	-36.00	-268.00	-290.13	-305.80	-173.40	-268.60	-179.11	-417.08	-370.70	-477.64	-191.45	-293.99	-384.20	-207.94	-353.59	-300.29	-355.37	-377.31	-507.00	-348.35	-389.81	-377.12	-417.34	
Lowest	-583.70	-490.42	-285.25	-426.19	-371.91	-295.99	-270.80	-274.52	-378.00	-300.01	-373.10	-199.04	-480.29	-218.26	-485.03	-374.00	-543.86	-570.80	-305.96	-384.20	-211.57	-374.00	-310.57	-363.01	-377.31	-587.30	-350.84	-392.59	-380.00	-419.04	
12/1/2016 12:00																	-514														
12/6/2016 0:00		-472.68	-250.00		-352.84					-298.17																					
1/3/2017 0:00	-475.60					-262.00			-290.00																						
1/5/2017 0:00		-472.30	-249.90		-353.20		-254.60			-298.30	-356.3					-371.12															
1/5/2017 12:00																	-513.32														
1/6/2017 0:00												-183.79																			
2/1/2017 0:00	-476.30					-262.00	-254.60		-290.00		-336.2																				
2/2/2017 0:00								-225.50																							
2/6/2017 0:00		-472.18	-249.99		-353.35					-297.72						-371.03															
2/6/2017 12:00																	-512.78														
3/1/2017 0:00						-251.00			-292.00																						
3/5/2017 0:00					-353.20					-297.65						-371.13															
3/5/2017 12:00																	-512.95														
3/6/2017 0:00		-471.30	-249.90																												
3/7/2017 0:00							-254.00				-336.5																				
3/30/2017 0:00		-472.20	-249.50		-353.20					-297.60																					
3/31/2017 0:00																-370.7															
3/31/2017 12:00																	-512.64														
4/3/2017 0:00	-476.80					-253.00			-294.00				-453.9																		
4/4/2017 0:00							-253.70				-335																				
4/5/2017 0:00												-184.2																			
4/24/2017 0:00					-353.31																										
5/1/2017 0:00	-477.30					-267.00			-294.00																						
5/4/2017 0:00							-252.40				-335																				
5/8/2017 0:00		-471.93	-249.84							-292.70						-371.04															
5/8/2017 12:00																	-514.67														
6/1/2017 0:00						-269.00			-295.00																						
6/2/2017 0:00							-254.00				-335.7																				
6/4/2017 0:00					-353.90					-297.28						-371.41															
6/4/2017 12:00																	-515.82														
6/5/2017 0:00	-480.70	-473.45	-250.00																												
6/30/2017 0:00								-186.20																							
7/5/2017 0:00	-478.00					-268.00			-295.00																						
7/6/2017 0:00		-473.83	-250.63		-354.40							-185.1	-451.2			-371.28															
7/6/2017 12:00																	-516.31														
7/7/2017 0:00							-254.70			-297.35	-336																				
8/1/2017 0:00	-478.60					-270.00			-295.00																						
8/3/2017 0:00							-255.00				-335.5																				
8/4/2017 0:00															-453.9																
8/9/2017 0:00		-474.52	-251.31		-355.22					-297.20						-371.28															
8/9/2017 12:00																	-525.8														
8/25/2017 0:00				-404.70																											
9/1/2017 0:00	-482.20					-285.00			-294.00																						
9/4/2017 0:00							-253.20				-336.7																				
9/5/2017 0:00		-474.84	-251.74							-296.91						-371.5															
9/5/2017 12:00																	-525.8														
10/2/2017 0:00	-484.40					-283.00			-295.00	-297.80						-371.3															
10/2/2017 12:00																	-526.6														
10/3/2017 0:00							-256.60	-193.17			-337.3	-183.6																			
10/4/2017 0:00				-405.30									-451.6																		
11/1/2017 0:00	-477.90																														
11/2/2017 0:00							-257.20				-337.9			-183.4	-455																
11/3/2017 0:00						-283.00			-297.00																						
11/6/2017 0:00		-475.80			-356.97					-297.87		-185.29																			
11/6/2017 12:00																	-524.16														
11/6/2017 14:19																-371.4															
12/1/2017 0:00	-484.00					-220.00			-297.00																						
12/4/2017 0:00		-476.26			-357.15					-297.94		-186.29		-183.29	-455.4																
12/4/2017 14:16																-371.2															
12/5/2017 0:00							-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																-371.3															
12/29/2017 0:00		-476.82	-253.86		-357.33								-456.2	-183.75	-455.85																
1/2/2018 0:00	-483.90					-220.00			-297.00																						
1/4/2018 0:00							-257.80				-357.7																				
1/8/2018 0:00				-406.70																											
1/31/2018 12:00						-217.45			-294.41																						
2/1/2018 13:50							-257.80				-338.4																				
2/5/2018 0:00																-371.3															
2/5/2018 9:57		-476.98																													
2/5/2018 10:00			-253.68																												
2/5/2018 10:02					-357.54																										
2/5/2018 10:12										-298.02																					
2/5/2018 12:00																	-522.72														
2/28/2018 12:00						-217.45			-296.72																						
3/1/2018 14:00	-484.50																														
3/2/2018 12:20							-257.60																								
3/2/2018 12:30											-338.2																				
3/5/2018 0:00																-371															
3/5/2018 12:00		-477.14	-253.65		-357.77					-297.72																					
3/6/2018 15:48												-186.7																			
3/19/2018 9:45								-186.24																							
3/29/2018 10:03																															
3/29/2018 12:00										-297.72																					
3/30/2018 12:00		-477.16	-254.39		-357.98																										
3/30/2018 14:00												-187.29																			
3/30/2018 15:40													-468.5																		
4/3/2018 8:00	-494.80																														
4/4/2018 8:58							-256.60																								
4/4/2018 13:22								-191.36																							
4/4/2018 13:55														-180																	
4/4/2018 14:40															-456.75																
4/24/2018 8:17											-334.8																				
4/24/2018 9:05							-254.80																								
4/24/2018 11:01						-219.76																									
4/24/2018 11:41									-296.72																						
4/24/2018 13:25				-408.80																											
4/24/2018 13:52								-274.52																							
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 12:40	-487.30																														
5/1/2018 12:41																															
5/7/2018 0:00																-371.9															
5/7/2018 12:00		-477.82	-254.96		-359.03					-297.43																					
5/31/2018 9:03						-217.45																									
5/31/2018 12:00						-219.76			-303.65																						
6/1/2018 9:50															-457.1																
6/1/2018 9:55							-261.60																								
6/1/2018 10:05											-339.9																				
6/1/2018 11:20				-410.60																											
6/1/2018 11:44									-303.65																						
6/3/2018 19:00										-297.57																					
6/3/2018 20:00					-360.85																										
6/4/2018 0:00																-372.2															
6/4/2018 1:00			-254.66																												
6/4/2018 2:00		-479.43																													
6/4/2018 8:10	-495.50																														
6/4/2018 8:17																															
6/4/2018 8:50														-184.84																	
6/21/2018 12:00																	-528.55														
6/29/2018 12:00						-245.17			-296.72																						
7/3/2018 9:17							-261.30																								
7/3/2018 9:18											-342.2																				

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CUWCD #	N2-02-022G	M-13-006G	M-13-007G	N2-03-001G	M-13-005G	N2-02-034G	N2-02-024G	N2-02-001G	N2-04-010P	M-09-002P	N2-10-001P	N2-13-002P	M-13-039G	N2-14-005P	N2-14-004P	M-17-CTGCD_Carlile	M-18-TWDB-Gatesville	N2-14-005P	N2-04-010P	M-5817902	M-5829603	M-17-CTGCD_Carlile								
Well Name	Moffat WSC #1	Cearley-City of Temple #2	Pea Ridge-City of Temple #3	Cen. TX Vet. Hospital	Acres-City of Temple #1	East Bell WSC #1	Armstrong WSC #1	Bell Co. WCID #2	East Bell WSC #2	Copperas Cove - Lower	Armstrong WSC #2	Jack Hilliard Dozer and Materials	CUWCD-Tanglewood Monitor Well	CTWSC System Split Well	CTWSC Doc Curb	Carlile	0	CTWSC System Split Well	East Bell WSC #2	Westwood Boys Ranch	City of Taylor #3	Carlile								
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Lowest	-583.70	-490.42	-285.25	-426.19	-371.91	-295.99	-270.80	-274.52	-378.00	-300.01	-373.10	-199.04	-480.29	-218.26	-485.03	-374.00	-543.86	-570.80	-305.96	-384.20	-211.57	-374.00	-310.57	-363.01	-377.31	-587.30	-350.84	-392.59	-380.00	419.04
7/5/2018 0:00			-255.80													-371.8														
7/5/2018 11:04															-458.9															
7/5/2018 12:00					-361.65					-297.28																				
7/5/2018 13:05												-187.89																		
7/5/2018 13:30				-412.50																										
7/5/2018 14:00													-468.61																	
7/31/2018 12:00						-284.44			-296.72																					
8/6/2018 0:00																-371.9														
8/6/2018 12:00										-297.43																				
8/6/2018 14:52														-179.11																
8/6/2018 18:00																	-543.86													
8/7/2018 9:15							-262.60																							
8/7/2018 9:16											-343																			
8/13/2018 12:00		-481.89	-257.19		-363.13					-297.80																				
8/31/2018 12:00						-286.75			-299.03																					
9/3/2018 12:00		-483.00	-257.91		-363.60					-297.72							-539.51													
9/3/2018 14:52														-185.51																
9/4/2018 12:08	-493.50																													
9/10/2018 14:00														-185.45																
9/11/2018 9:11							-257.50																							
9/11/2018 9:14											-353.3																			
9/27/2018 9:42															-461.46															
9/27/2018 12:00		-482.72	-285.25																											
9/27/2018 13:55												-191.07																		
9/27/2018 14:25				-414.30																										
9/27/2018 15:21													-469.29																	
9/28/2018 12:00										-297.72							-531.08													
9/28/2018 13:20																														
10/2/2018 10:18														-185.51																
10/4/2018 9:08							-259.40																							
10/4/2018 9:09											-343.3																			
10/29/2018 11:23														-184.59																
10/29/2018 11:40												-191.41																		
10/29/2018 13:41															-452.84															
10/31/2018 12:00						-286.75			-299.03																					
11/5/2018 12:00			-258.82							-298.09							-527.84													
11/5/2018 15:00		-482.26																												
12/3/2018 12:00			-259.20		-362.84	-284.44			-296.72								-527.17													
12/3/2018 15:00		-482.10																												
12/4/2018 12:00										-297.94																				
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						-289.06			-292.10																					
12/31/2018 21:29														-180.47																
1/2/2019 0:00																		-498.5												
1/2/2019 8:00	-488.30																													
1/7/2019 15:53															-461.22															
1/8/2019 14:05							-261.10				-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			-258.76		-363.52					-298.31						-371.4	-525.85													
2/4/2019 14:30							-261.00				-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		-481.37	-259.21		-363.29					-298.46						-371.7	-524.53													
3/4/2019 13:26												-191.7																		
3/5/2019 12:00																					-211.22									
3/6/2019 14:00							-262.00				-344.2																			
3/26/2019 12:00										-298.09							-529.59		-293.99											
3/27/2019 2:00		-481.48																												
3/28/2019 11:38														-188.97	-463.4															
3/28/2019 12:00			-259.02		-363.47																									
3/28/2019 14:32												-191.97																		
3/28/2019 16:25													-467.01																	
4/1/2019 12:00						-289.06			-292.10							-371.4														
4/2/2019 0:00																		-497.29												
4/2/2019 10:58	-488.30																													
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															
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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							-262.90																							
5/2/2019 10:57	-522.60																													
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													-370.7														
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	-489.30																													
6/3/2019 12:00		-481.25	-258.99		-363.09					-298.24						-370.9	-524.25													
6/5/2019 11:15												-192.32																		
6/5/2019 12:00																					-210.01									
6/7/2019 12:14							-262.60																							
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		-481.34	-259.46		-363.04																									
7/1/2019 10:45															-464.25															
7/1/2019 12:00																-371														
7/1/2019 12:15														-190.95																
7/1/2019 13:56	-492.09																													
7/1/2019 13:57																		-504.59												
7/5/2019 12:00																					-209.64									
7/5/2019 14:18							-262.50																							
7/5/2019 14:19											-353																			
8/2/2019 9:14	-583.70																													
8/2/2019 9:15																		-541.6												
8/5/2019 9:30							-262.20																							
8/5/2019 9:31											-344.3																			
8/5/2019 12:00		-483.12	-260.34		-364.04					-298.39						-371.5	-534.19		-296.31		-209.18									
8/26/2019 10:30																						-353.59								
9/2/2019 12:00						-286.75			-299.03							-371.8														
9/3/2019 10:55	-501.50																													
9/3/2019 10:59																		-534.19												
9/3/2019 12:00			-260.80		-364.84					-298.46							-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							-264.40																							
9/6/2019 10:47											-357.1																			

Clearwater UWCD - Lower Trinity Monitor Wells

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State #	40-53-406	40-54-701	40-61-509	40-62-401	40-62-501	40-63-501	58-05-202	58-06-102	58-06-301	40-57-602	None	58-06-201	40-53-405	None	None	None	40-35-404	5806202	5806301	5817902	5829603	None	M-19-001P	N1-18-004P	N1-19-003P	N2-13-001P	N2-20-002P	N2-20-003P	N2-20-004P	N2-20-005P
CUWCD #	N2-02-022G	M-13-006G	M-13-007G	N2-03-001G	M-13-005G	N2-02-034G	N2-02-024G	N2-02-001G	N2-04-010P	M-09-002P	N2-10-001P	N2-13-002P	M-13-039G	N2-14-005P	N2-14-004P	M-17-CTGCD_Carlile	M-18-TWDB-Gatesville	N2-14-005P	N2-04-010P	M-5817902	M-5829603	M-17-CTGCD_Carlile								
Well Name	Moffat WSC #1	Cearley-City of Temple #2	Pea Ridge-City of Temple #3	Cen. TX Vet. Hospital	Acres-City of Temple #1	East Bell WSC #1	Armstrong WSC #1	Bell Co. WCID #2	East Bell WSC #2	Copperas Cove - Lower	Armstrong WSC #2	Jack Hilliard Dozer and Materials	CUWCD-Tanglewood Monitor Well	CTWSC System Split Well	CTWSC Doc Curb	Carlile	0	CTWSC System Split Well	East Bell WSC #2	Westwood Boys Ranch	City of Taylor #3	Carlile								
Highest	-329.70	-259.00	-31.00	-71.60	-136.13	-217.45	-245.80	-36.00	-268.00	-290.13	-305.80	-173.40	-268.60	-179.11	-417.08	-370.70	-477.64	-191.45	-293.99	-384.20	-207.94	-353.59	-300.29	-355.37	-377.31	-507.00	-348.35	-389.81	-377.12	-417.34
Lowest	-583.70	-490.42	-285.25	-426.19	-371.91	-295.99	-270.80	-274.52	-378.00	-300.01	-373.10	-199.04	-480.29	-218.26	-485.03	-374.00	-543.86	-570.80	-305.96	-384.20	-211.57	-374.00	-310.57	-363.01	-377.31	-587.30	-350.84	-392.59	-380.00	419.04
9/26/2019 9:40				-411.50																										
9/26/2019 10:14													-478.91																	
9/26/2019 12:00			-261.82		-364.66																									
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	-502.30																													
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							-264.90																							
10/7/2019 10:47											-350.2																			
10/7/2019 12:00																-372.1														
10/9/2019 10:50																				-384.2										
11/1/2019 12:00						-286.75			-299.03																					
11/4/2019 10:44							-265.50																							
11/4/2019 10:47											-351.9																			
11/4/2019 10:54	-496.09																													
11/4/2019 11:00																		-570.8												
11/4/2019 12:00			-262.89		-365.88					-299.27						-372	-531.84		-301.88											
11/4/2019 14:05														-190.85																
11/4/2019 14:25												-193.82																		
11/5/2019 12:00																					-209.15									
12/1/2019 12:00			-262.78																											
12/2/2019 12:00					-365.79	-289.06			-301.34	-299.13							-533.8		-301.5											
12/2/2019 15:00		-485.68																												
12/4/2019 10:43							-262.90																							
12/4/2019 10:48											-346.4																			
12/4/2019 10:52	-496.70																													
12/4/2019 11:01																		-512.4												
12/26/2019 12:00										-299.79							-533.16		-301.43											
12/30/2019 10:42													-476.93																	
12/30/2019 11:33				-421.09																										
12/30/2019 12:00			-262.70		-366.03																									
12/30/2019 12:02												-193.85																		
12/30/2019 15:00		-485.78																												
1/2/2020 12:00														-191.64																
1/3/2020 10:41																		-191.64						-355.37						
1/3/2020 10:42		-485.70																												
1/8/2020 10:25																-372.8						-372.8								
1/8/2020 13:55			-263.24		-366.32	-289.06			-301.34	-299.86							-530.43		-301.34				-300.89							
2/2/2020 15:00	-495.09																													
2/3/2020 6:00																										-512.19				
2/3/2020 12:00												-194.82																		
2/5/2020 9:27							-262.20				-344.3																			
2/5/2020 9:28																-372.6						-372.6								
2/5/2020 10:10															-466.25															
2/6/2020 9:29			-263.21		-366.43	-279.82			-299.03	-299.94							-528.79		-299.03				-300.34							
3/2/2020 6:00														-191.45				-191.45												
3/2/2020 10:00												-194.83																		
3/2/2020 12:00		-485.48																												
3/2/2020 12:05							-266.10																							
3/2/2020 12:22											-365.1																			
3/2/2020 15:00	-494.20																													
3/4/2020 9:24																										-509.69				
3/4/2020 9:25															-466.34															
3/5/2020 9:26														-191.53				-191.53												
3/5/2020 9:27												-195.04																		
4/1/2020 9:17						-282.13			-299.03										-299.03											
4/1/2020 11:08	-493.30																													
4/1/2020 11:24							-265.80																							
4/1/2020 12:00											-347.8																			
4/3/2020 8:57						-284.44			-296.72										-296.72											
4/3/2020 10:03		-485.45																												
4/3/2020 10:12																-372.6						-372.6								
5/1/2020 12:00												-194.33																		
5/2/2020 21:00			-263.43		-366.94					-299.50							-527.26						-300.29							
5/4/2020 5:00																										-507				
5/4/2020 9:15	-492.50																													
5/4/2020 12:00							-266.40																							
5/6/2020 9:50											-347.3																			
5/6/2020 10:01		-484.92			-367.13	-282.13			-294.41	-299.57							-527.34		-294.41				-301.43							
5/14/2020 10:03																-372.9						-372.9								
5/14/2020 10:12																										-587.3				
6/1/2020 12:00	-497.70																													
6/2/2020 5:00							-265.40																							
6/3/2020 9:53											-347.1																			
6/3/2020 10:01														-195.25				-195.25												
6/3/2020 10:04															-451.03															
6/3/2020 10:11																-373.2						-373.2								
6/4/2020 0:33										-299.57													-303.06							
6/5/2020 1:06													-478.28																	
6/25/2020 5:00				-422.71																										
6/25/2020 12:00																	-528.99													
6/26/2020 10:03	-503.70																													
6/26/2020 10:48														-197.98				-197.98												
6/26/2020 15:27															-456.7															
7/1/2020 10:00							-267.00																							
7/7/2020 8:20											-348.6																			
7/8/2020 9:08												-195.42																		
7/8/2020 12:28	-508.50																													
7/8/2020 12:29														-198.61				-198.61												
7/29/2020 12:43																-373.9						-373.9								
7/31/2020 10:00															-449.74															
8/1/2020 22:20		-488.79	-266.16		-370.26	-295.99			-305.96	-300.01							-531.33		-305.96				-306.52							
8/3/2020 5:00							-269.20																							
8/3/2020 8:08											-346.4																			
8/3/2020 12:00								-271.71																						
8/12/2020 10:05															-424.41															
8/12/2020 10:11																										-539.69				
8/13/2020 14:15	-506.70																													
9/1/2020 18:29							-270.00																							
9/3/2020 9:55											-350.3																			
9/3/2020 9:59														-201.75				-201.75												
9/4/2020 10:05																-374						-374								
9/4/2020 10:08		-490.42	-267.35		-371.13					-299.86							-533.26						-309.24							
9/4/2020 21:57												-198.75																		
9/7/2020 5:00								-211.35																						
9/7/2020 12:00															-417.08															
9/10/2020 11:52													-480.29																	
9/25/2020 9:15														-218.26				-218.26												
10/1/2020 11:29		-490.15	-267.58		-371.34	-289.06			-305.96	-299.72							-531.39		-305.96				-309.85							
10/1/2020 11:52				-426.19																										
10/1/2020 11:59												-198.14																		
10/1/2020 12:00																								-363.01						
10/1/2020 12:35																										-583.3				
10/1/2020 13:02	-505.00																													
10/1/2020 13:45							-270.00																							
10/2/2020 9:55											-350.9																			
10/2/2020 9:59																										-513.1				
10/12/2020 10:06	-502.00																													
10/12/2020 10:08						-284.44			-305.96										-305.96											
11/2/2020 9:57												-199.04																		

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11/2/2020 9:58														-192.34				-192.34												
11/2/2020 12:00																												-389.81		
11/3/2020 13:36																											-348.35			
11/4/2020 0:25																														-417.34
11/18/2020 14:30																													-380	
11/18/2020 14:38														-195.77				-195.77												
11/18/2020 14:52			-267.68		-371.38	-284.44			-305.96								-529.26		-305.96				-310.57							
11/18/2020 15:20												-196.82																		
12/1/2020 0:25								-227.84																						
12/1/2020 12:00																										-511.79				
12/2/2020 11:15	-497.90																													
12/2/2020 11:34							-270.80																							
12/3/2020 9:56											-351.8																			
12/3/2020 9:58													-475.8																	
12/3/2020 10:06				-423.31																										
12/3/2020 10:07												-198.41																		
12/30/2020 9:30								-229.18																						
12/30/2020 10:00			-267.40		-371.91												-529.88						-310.37							
12/30/2020 10:25																														-419.04
12/30/2020 10:45																													-377.12	
12/30/2020 12:00																											-350.84			
12/30/2020 12:20																												-392.59		
12/30/2020 12:27																									-377.31					
12/30/2020 12:35																														
12/30/2020 12:43																														
12/30/2020 13:07																														
Since Last	4.10	0.27	0.28	2.88	-0.53	0.00	-0.80	-1.34	0.00	0.14	-0.90	-1.59	4.49	-3.43	7.33	-0.10	-0.62	-3.43	0.00		-1.21	-0.10	0.20	-7.64		1.31	-2.49	-2.78	2.88	-1.70
Historical	-165.20	-231.15	-236.40	-350.31	-235.78	-54.44	-22.90	-179.18	-37.96	-8.56	-21.97	-25.01	-207.20	-12.37	36.92	-2.61	-49.83	302.73	-11.97	0.00	2.42	-20.41	-9.48	-7.64	0.00	0.40	-2.49	-2.78	2.88	-1.70

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 50 years.

The average drawdown goal per year is -6.38 feet.

Lower Trinity is no more than 319 feet of drawdown after

Minimum Number of Measurements: 3

Average Drawdown **4.85 ft/yr**

Drawdown of Water Level

Increase of Water Level

Appendix N

2020 Bell County Water Symposium was canceled due to COVID-19.