



Every drop counts!

Board Meeting
&
Workshop

Clearwater Underground Water Conservation District
700 Kennedy Court
Belton, Texas

Wednesday
October 14, 2020
1:30 p.m.

**Clearwater Underground Water Conservation District
Board Members**

Leland Gersbach, Director Pct. 1

President

7872 Hackberry
Holland, TX 76534
Phone: 254-657-2679
E-mail: lgersbach@cuwcd.org

Work: Brockway, Gersbach, Franklin
& Niemeier P.C.
3520 SW H.K. Dodgen Loop
Temple, TX 76504
Phone: 254-773-9907
Fax: 254-773-1570

Gary Young, Director Pct. 2

Secretary

1314 Creek View
Salado, TX 76571
Cell Phone: 972-571-3118
E-mail: gyoung@cuwcd.org

Jody Williams, Director Pct. 3

15098 FM 437 South
P.O. Box 780
Rogers, TX 76569
Cell Phone: 254-493-4705
E-mail: jwilliams@cuwcd.org

Scott Brooks, Director Pct. 4

425 Mercy Ranch Rd.
Florence, TX 76527
Phone: 254-226-4000
E-mail: sbrooks@cuwcd.org

David Cole, Director At-Large

Vice President

2401 Brown Circle
Killeen, TX 76543-2930
Cell Phone: 254-289-1219
E-mail: dcole@cuwcd.org

Revised Dec. 26, 2018

Agenda

**NOTICE OF THE MEETING OF THE
CLEARWATER UNDERGROUND WATER
CONSERVATION DISTRICT**

Notice is hereby given that the above-named Board will hold a Workshop, Public Hearings and Board meeting on Wednesday, October 14, 2020 beginning at 1:30 p.m., in the Clearwater UWCD Board Room located at 700 Kennedy Court, Belton, Texas. The following items of business will be discussed¹.

Workshop:

1. Receive information related to Groundwater Management Area 8, related to Joint Planning and Development of the Desired Future Conditions.
2. Receive information related to the Salado Salamander proposed rule for Critical Habitat.

Board Meeting:

1. Invocation and Pledge of Allegiance.
2. Public comment².
3. Approve minutes of the September 9, 2020 Board meeting.
4. Discuss, consider and take appropriate action if necessary, to accept the monthly financial report for September 2020 (FY20) as presented.
5. Discuss, consider and take appropriate action if necessary, to accept the monthly investment fund account report for September 2020 (FY20).
6. Discuss, consider and take appropriate action if necessary, to accept the Quarterly Deferred Compensation Employee Retirement Program account report as presented.
7. Discuss, consider and take appropriate action if necessary, to approve the **FY20** line item budget amendments as requested.
8. Discuss, consider and take appropriate action if necessary, to review and approve the proposed collaborative research project for southwest area of the District by LRE Water, Allen R Standen LLC and Baylor University Geology Department related to enhanced understanding of the Trinity Aquifer.
9. Discuss, consider and take appropriate action if necessary, to approve the **FY21** line item budget amendments as requested.
10. Hold public hearing on the following permit application:
 - a. Discuss, consider and take appropriate action if necessary on the proposed operating permit of 9.97 ac-ft/yr, for REDDYLEE LLC authorizing operating permit from an existing (well# N2-20-006G) completed in the Edwards Equivalent Aquifer for agricultural use located at 204 Loop 121, Belton TX 76513.
11. Hold public hearing on the proposed adoption of amendments to the District Management Plan:
 - a. Call to Order
 - b. Summary presentation of the proposed amendments to the CUWCD Management Plan a required by Chapter 36 of the Texas Water Code and Chapter 356 of the Texas Water Development Board's (TWDB) rules contained in Title 30 of the Texas Administrative Code.
 - c. Public Comment on the Groundwater Management Plan proposed for adoption.
 - d. Adjourn.
12. General Manager's report concerning office management and staffing related to District Management Plan³.
13. Receive monthly staff report and possible consideration and Board action on the following:
 - a. Drought Status reports
 - b. Education Outreach update
 - c. Monitoring Well reports
 - d. Rainfall report
 - e. Well Registration update
 - f. Aquifer Status and Non-exempt Monthly Well Production reports
14. Director comments and reports³.
15. Discuss agenda items for next meeting.
16. Set time and place for next meeting.
17. Adjourn.

Dated the 9th day of October 2020

Leland Gersbach, Board President

By: 
Dirk Aaron, Asst. Secretary

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CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT

Agenda items may be considered, deliberated and/or acted upon in a different order than set forth above.

The Clearwater Underground Water Conservation District is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District office at 254-933-0120 at least 24 hours in advance if accommodation is needed.

¹During the meeting, the Board reserves the right to go into executive session for any of the purposes authorized under V.T.C.A., Government Code, Chapter 551, for any item on the above agenda or as otherwise authorized by law.

²Citizens who desire to address the Board on any matter may sign up to do so prior to this meeting. Public comments will be received during this portion of the meeting. Please limit comments to 3 minutes. No discussion or final action will be taken by the Board.

³No formal action will be taken by the Board on these agenda items. These items are on the agenda to provide the District's staff, Public Task Force Committees, and Directors with an opportunity to bring to the public's and each other's attention important activities and issues pertinent to the management of groundwater within the District, including, but not limited to, current events in the District involving groundwater, wells, or District permittees, state or regional developments related to water management, and activities of the staff, Public Advisory Committee, and Directors. Substantive deliberation and formal action on any of these issues will be conducted pursuant to a specific item on a future agenda.

GUIDELINES FOR PUBLIC PARTICIPATION IN CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT BOARD MEETING, WORKSHOP AND PUBLIC HEARINGS

Clearwater UWCD, in order to maintain governmental transparency and continued government operation while reducing face-to-face contact for government open meetings, is implementing measures according to guidelines set forth by the Office of the Texas Governor, Greg Abbott. In accordance with section 418.016 of the Texas Government Code, Governor Abbott has suspended various open-meetings provisions that require government officials and members of the public to be physically present at a specified meeting location. CUWCD's adherence to the Governor's guidance temporary suspension procedure ensures public accessibility and opportunity to participate in CUWCD's open meeting, workshop and public hearings.

Members of the public wishing to make public comment during the meeting must register by emailing schapman@cuwcd.org prior to 11:30 a.m. on October 14, 2020. This meeting will be recorded and the audio will be available online <http://www.cuwcd.org> or by requesting a copy from daaron@cuwcd.org. A copy of the agenda packet is available on the CUWCD's website prior to the meeting.

You may join CUWCD's Board meeting as follows:

- ✓ CUWCD Regular Board Workshop, Public Hearing and Business Meeting
- ✓ Wed, Oct 14, 2020 1:30 PM - 6:30 PM (CDT)
- ✓ **Please join the meeting from your computer, tablet or smartphone.**

<https://global.gotomeeting.com/join/478263293>

You can also dial in using your phone.

United States (Toll Free): [1 866 899 4679](tel:18668994679) Access Code: 478-263-293

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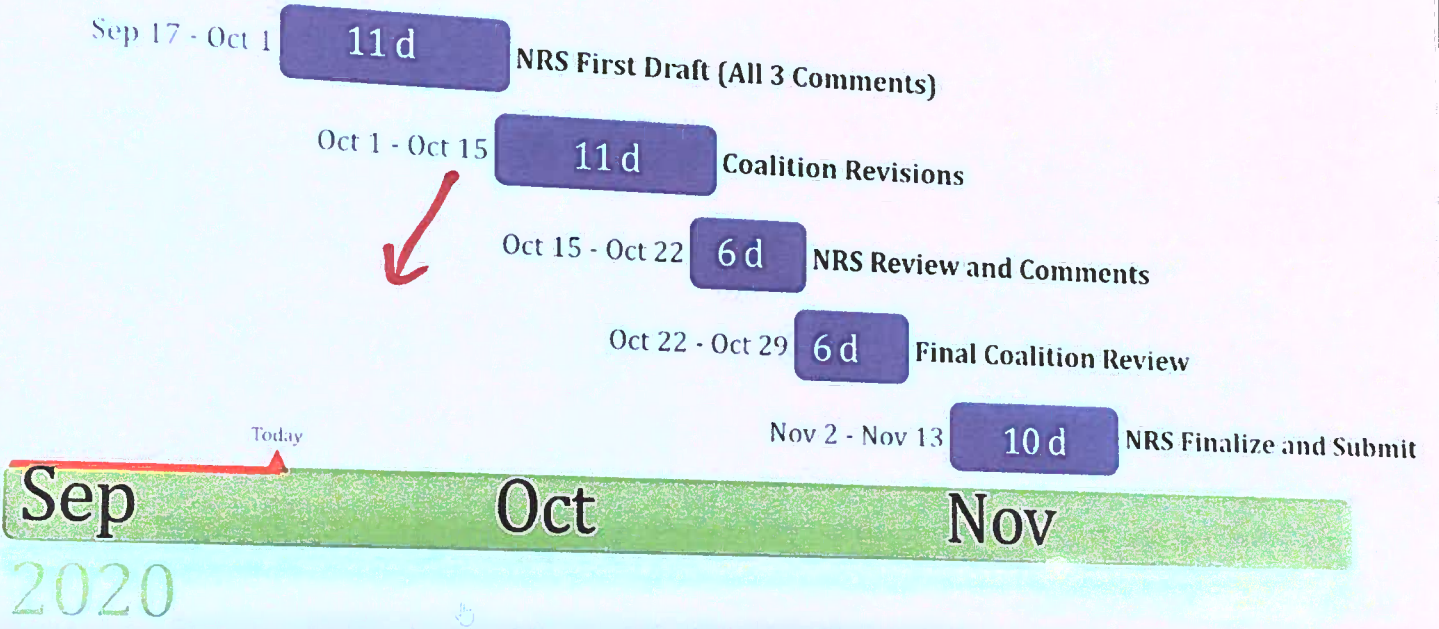
<https://global.gotomeeting.com/install/478263293>

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SHELLEY COSTOM
CO. CLERK BELL CO. TX

Workshop Item #2

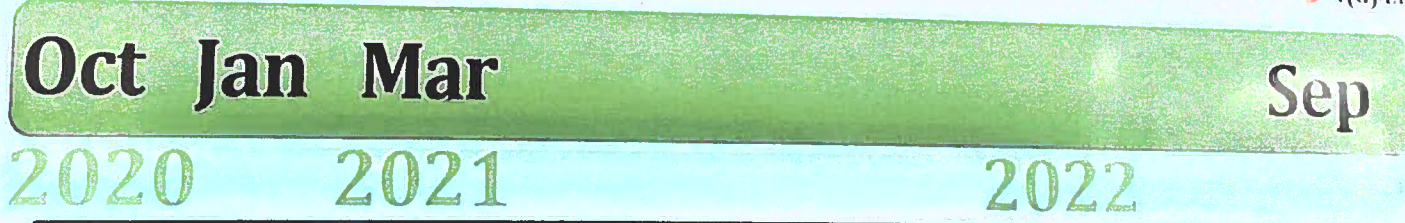
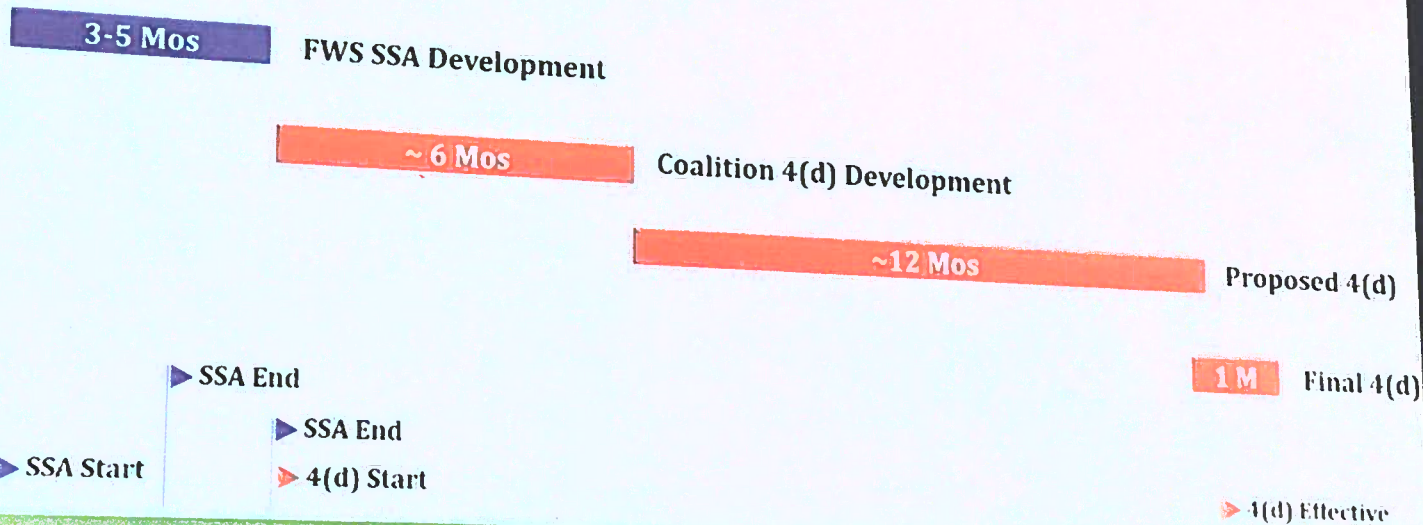
Comment Timeline

- DA
- DJ
- DB
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- C
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- BW
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- M
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- C



Recording...

Estimated Timeline



- DA
- DJ
- DB
- C
- MT
- C
- C
- BW
- C
- SB
- KN
- M
- DF
- C

Recording...



Date

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Public Comments Processing
Attn: FWS-R2-ES-2020-0048
U.S. Fish and Wildlife Service
MS: PRB/3W
5275 Leesburg Pike
Falls Church, VA 22041-3803

Re: Formal comments from Clearwater Underground Water Conservation District on the proposed critical habitat designation for the Georgetown and Salado salamanders (*Eurycea chisholmensis*).

Dear X,

Clearwater Underground Water Conservation District (District) formally submit these comments in response to the proposed critical habitat designation for the Salado salamander. On September 15, 2020, the proposed designation was published in the Federal Register (85 FR 57578), with a 60-day public comment period ending on November 16, 2020.

The District has been an involved member of the Bell County Adaptive Management Coalition's (Coalition) efforts regarding the Salado salamander since ~~XX~~2012. For reasons described in detail below, the District believes critical habitat of any scale is unnecessary and *not* prudent for the following reasons:

- I. The proposed designation is not valid because it's boundaries are contingent on ~~considers~~ factors such as water *quantity* and *quality*, both of which ~~that~~ have been successfully mitigated through the District's efforts;
- II. The foundational science used to support the proposed subsurface and surface designations should not be relied upon because it is not consistent with best available scientific literature; and
- III. The District has concerns about the availability and underlying assumptions of the Draft Economic Analysis.

Submitted XX, 2020

Background Information

The District is a political subdivision of the State of Texas, and groundwater conservation district created and operating under Article XVI, Section 59, of the Texas Constitution; Texas Water Code Chapter 36; and its enabling act.¹ The Texas Legislature created the District in 1989, entrusting it to protect property rights, balance groundwater conservation and development to meet the needs of the state and the citizens of Bell County, and to use the *best available science* to develop and promulgate rules to regulate groundwater conservation and development in Bell County.² The District's powers are defined in Chapter 36 of the Texas Water Code, and its jurisdiction is coterminous with the boundaries of Bell County, Texas, which is approximately 1,055 square miles.

The District is governed by a five-member Board of Directors, four of whom represent each of the four Bell County Precincts, and one whom represents Bell County At-large. Directors are elected, and serve staggered four year terms.

The District manages groundwater pursuant to the Board-adopted District Rules and Management Plan. In this way, the Board sets policy, while professional staff manages day-to-day operations of the District. Together, the Board and staff regulate water well drilling, spacing and pumping in Bell County; and also develop groundwater conservation strategies, and monitor groundwater production and quality.

The two primary sources of groundwater in Bell County are the Edwards Balcones Fault Zone (BFZ) Aquifer and the Trinity Aquifer. The Edwards BFZ Aquifer is the source of Salado Springs and is also the primary source of water supply to the City of Salado.

In its capacity as the local groundwater regulator in Bell County, the District has taken on the roll as the repository of best available science, particularly with regard to the Edwards BFZ Aquifer. Together with the Coalition, the District has helped fund a significant research campaign over the past seven years, amounting to \$418,903. This has resulted in the completion of (1) a five-year Salado Salamander monitoring study, conducted by the Texas Fish and Wildlife Conservation Office in coordination with the U.S. Fish and Wildlife Service, San Marcos Aquatic Resource Center, Texas State University, and Texas Parks and Wildlife Department³; and (2) a three-phase comprehensive investigation of the recharge pathways and mechanisms in the northern segment of the Edwards BFZ Aquifer.⁴ Both studies seek to better understand the geo-hydrology of the Salado Springs Complex as it relates to the Salado Salamander. The research has informed District planning and decision-making, and its findings have been incorporated into the District's Management Plan.

¹ Act of May 27, 1989, 71st Leg., RS, ch. 524, 1989 (HB 3172).

² Tex. Water Code § 36.0015.

³ Diaz, P., Montagne, M., Gibson, R., Najvar, P., Nice, C., Warren, J. 2019, Salado Salamander Monitoring Final Reports (compilation of annual reports for years 2015-2019).

⁴ Stephanie Wong and Joe Yelderman, An investigation into the recharge pathways and mechanisms in the northern segment of the Edwards Aquifer, Bell County, Texas (Phase I, Phase II, and Phase III).

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The District's most recently adopted Management Plan memorializes the District's commitment to ensuring sufficient spring flows at the Salado Springs, and includes the following objectives adopted to ensure this goal is met:

Funding Salado Salamander Monitoring Study.

The District is committed to funding the five-year Salado Salamander monitoring study as a reimbursable U.S. Fish and Wildlife task order.

Monitoring Discharge Rate of Salado Springs.

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

The District's gauges installed in the Salado Creek have proven to be an effective mechanism to protect spring flow. The District began collecting data from the Salado Creek stream flow gauges in 2008. During the spring of 2013, the District installed an upgraded gauge package by the U.S. Geological Survey (USGS) Water Science Group, and began the process of analyzing the data and recalibrating the system to ensure accuracy. The new gauges and relationship with the USGS have proven 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/>.

Monitoring Water Quality.

The District is committed to retrieving water samples from each individual spring located in the Salado Spring Complex on a quarterly-basis, and assessing each spring for nitrates, dissolved oxygen, temperature, and dissolved solids.

These objectives, together with the District's coordination with various researchers and stakeholders have made available to the District a body of improved science-driven data, informing the District's management of the Edwards BFZ Aquifer, and enhancing its monitoring capabilities of the Salado Springs Complex. The important steps taken by the District and other stakeholders has provided the District with an intimate knowledge of the geo-hydrology and interconnectivity of the Salado Spring Complex and Edwards BFZ Aquifer. Equipped with this knowledge, the District formally submits these comments in response to the proposed critical habitat designation for the Salado salamander.

~~INSERT BACKGROUND INFORMATION ON DISTRICT. FOR EXAMPLE: HISTORY (WHEN AND WHY IT WAS FOUNDED), BOARD/MEMBERSHIP, OVERVIEW OF ACTIVITIES, ETC.~~

~~INSERT STATEMENT OUTLINING THE DISTRICT'S INTEREST WITH THIS TOPIC. WHY ARE YOU WRITING IN? WHY ARE YOU INVOLVED? WHAT ARE YOUR GOALS?~~

~~ADD ANY ADDITIONAL STATEMENTS THAT COULD HELP FRAME YOUR PARTICIPATION, YOUR VIEWPOINT, ETC.~~

achieve conservation goals and usage reduction measures.⁶ The plan proved to be effective during the drought of 2011, and again during the drought of 2018. Each stage recommends continuing or increasing voluntary reduction in various uses. Once the drought stages are triggered, the District releases a drought declaration to the public immediately.

The District's current effective regulatory framework demonstrates pumping from the Edward's Aquifer is not an ongoing threat and will not likely impact spring flow in Bell County. In addition, the District's groundwater permitting and program are protective of groundwater quality, negating the need for additional critical habitat protections.

Desired Future Conditions

A DFC is a quantifiable condition of an aquifer at a specified future time. Chapter 36.108 (d) of the Texas Water Code requires districts to adopt DFC's for aquifers located within their Groundwater Management Area (GMA) every five years.⁷ DFC is a planning goal that describes conditions that managers are attempting to achieve over a specified period of time, in a given geographic area. Once DFCs are adopted, the Texas Water Code requires each district to develop a management plan that addresses the DFCs for those aquifers located within the district.⁸ Districts then adopt the rules necessary to implement the district's management plan.

The District and GMA 8 adopted a DFC that would prevent springs from going dry even during a period of little to no rainfall.⁹ The DFC for Bell County is maintaining at least **100 acre-feet per month** of stream/spring flow in Salado creek, or **1.68 cfs**, during a repeat of the drought of record. The District is statutorily mandated to protect a minimum five-day average spring flow of **1.68 cfs** measured at Salado Springs Complex.¹⁰

To protect the spring complex, The District, in collaboration with U. S. Geological Survey (USGS), installed a gauge downstream of the Salado Spring Complex. Spring flow is measured and estimated by the USGS Gauge in Salado Creek.

⁶ Clearwater Underground Water Conservation District. June 21, 2018. Clearwater Underground Water Conservation District Expressing and Ringing Alarms. Accessed on October 2, 2020 <http://www.cuwcd.org/2018/06/clearwater-underground-water-conservation-district-expressing-and-ringing-alarms/>.

⁷ Tex. Water Code § 36.108 (d).

⁸ Tex. Water Code § 36.3011.

⁹ GAM RUN 17-029 MAG Model Available Groundwater for the Trinity, Woodbine, Edwards (Balcones Fault Zone) in Groundwater Management Area 8 by Jerry Shi, Ph.D., P.G. Texas Water Development Board Groundwater Availability Modeling Department, January 19, 2019.

¹⁰ [The District must develop a management plan that addresses the DFCs it adopts, and must adopt rules necessary to implement its management plan \(see Tex. Water Code § 36.1071 \(a\)\(8\) and \(f\)\). The District's management plan must be developed using the groundwater availability modeling information provided by the Texas Water Development Board, which is based on the District's DFCs \(see Tex. Water Code § 36.1071 \(h\)\).](#)

The District's Comments on the Proposed Critical Habitat Designation

- I. The proposed critical habitat designation suggests that water *quantity* and water *quality* degradation are current threats to the Salado salamander. However, the District is statutorily obligated to regulate water wells and groundwater withdrawal within Bell County that can impact spring flow, aquifer level, and the quality of the Edwards Aquifer. The District's successful implementation and management of water quality and quantity in the Edwards Aquifer ~~these activities~~ render critical habitat unnecessary and *not* prudent.

The District has a statutory obligation to assess potential impacts on existing users and groundwater resources and achieve desired future conditions (DFCs) based on best available science. The District, under a local agreement with all platting authorities, provides a professional analysis that includes records review, desktop analysis and site inspection of the proposed plat for existing wells. In addition, it addresses regulatory requirements for the applicant to adhere to current and future proposed property lines, well spacing, and spacing from future on-site wastewater. As detailed in below, the District has worked diligently to advance the available scientific data, bolstering its ability to manage the Edwards BFZ Aquifer with more precision and accuracy in order to protect the spring flow and water quality of the Salado Springs Complex.

Drought Stage Response

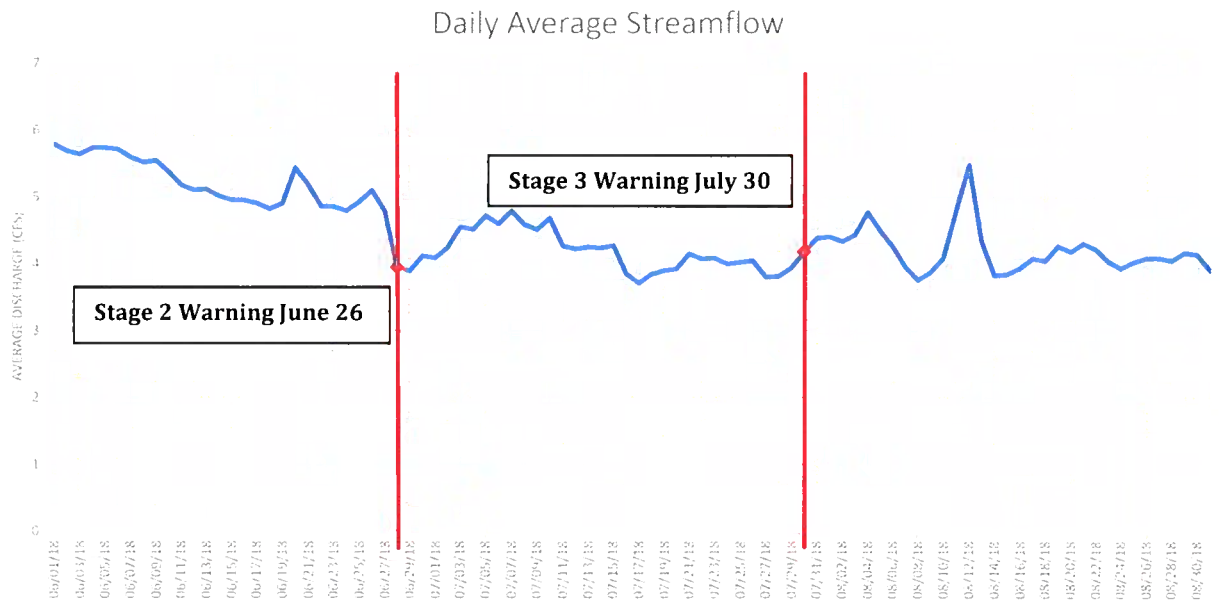
The District is notified each month on the Precipitation Deficit Index (PDI), daily maximum spring discharge, and average spring discharge values. The PDI is monitored daily on a running-year basis and is based on NEX-RAD rainfall data provided by the National Oceanic and Atmospheric Administration. The drought stages are triggered when either the PDI trigger condition is exceeded for 28 consecutive days, or the average spring discharge daily maximum values averaged over five consecutive days.⁵ Once the PDI or average spring discharge values are higher than trigger conditions, the drought stage in effect will be reduced or terminated.

Compliance with the drought stage declarations described below are voluntary for privately-owned wells within the District's jurisdiction. However, compliance with those drought stage declarations is mandatory for permitted water purveyors within the district. The District implemented the drought plan in 2010 and encourages all groundwater users to comply with the measures to help

⁵ Edwards BFZ Drought Management Plan Initiation and Termination of Drought Stages, accessed on October 2, 2020, <http://www.cuwcd.org/regulatory-program/drought-management/edwards-drought-management-plan/>

Measurements were taken every 15 minutes. Beginning in June 2018, measurements are taken every 5 minutes (Figure 1).

Figure 1. Daily average streamflow from USGS Salado gauge June 1, 2018 to August 31, 2018.



Modeled Available Groundwater

Every five years, after DFCs are adopted by the GMA, the GMA districts submit the DFCs and an accompanying explanatory report to the Texas Water Development Board (TWDB). Chapter 36.1084 of the Texas Water Code requires TWDB to provide the modeled available groundwater (MAG) for each groundwater conservation district and regional water planning group in a GMA based upon the DFCs adopted by the GMA districts. The MAG is the amount of water that the Executive Administrator of the TWDB determines may be produced on an average annual basis to achieve a DFC.

Based on the DFCs adopted by the District and GMA 8, TWDB issued a MAG report (GAM Run 17-029 MAG), which provides the MAG for the Edwards BFZ Aquifer in Bell County. MAGs essentially represent a quantity of groundwater in a specific aquifer within a district’s boundaries, which must not be exceeded if the DFCs are to be successfully met. Since the DFC for Bell County was adopted in order to maintain at least **100 acre-feet per month** of stream/spring flow in Salado creek, or **1.68 cfs**, during a repeat of the drought of record, the MAG for Bell County provides a groundwater production ceiling for the District to impose on Bell County groundwater producers. The District, through the development of its

Management Plan and promulgation of its rules, has not exceeded the Bell County MAG for the Edwards BFZ Aquifer, and is committed to maintaining sufficient spring flow at the Salado Springs Complex.

Water Quality Screening

The District is committed to monitoring water quality by screening water samples from each individual spring located in the Salado Spring Complex on a quarterly-basis. The District screens some of the most common parameters for drinking water quality: salinity, pH, alkalinity, hardness, nitrite, nitrate, phosphate, sulfate, and fluoride.¹¹ The District inspects all groundwater wells upon completion and tests the water, ~~which is not a task that is above and beyond the District's statutory duty as prescribed—required~~ by Chapter 36, Texas Groundwater Code. The additional testing helps the District maintain baseline water quality data, which informs District decisions regarding production limits, permitting, well location and construction, and waste as provided in the District Rules.

Baylor University Research

In 2011, the District contacted Baylor University to conduct preliminary research on the Northern Segment of the Edwards Balcones Fault Zone (BFZ) Aquifer. Since the Salado Springs Complex was proposed as critical habitat, a research permit was required to study groundwater flow patterns in the area. In 2013, the District contracted Baylor to research the Salado Springs Complex.¹² In 2015, U.S. Fish and Wildlife Service awarded the District Permit TE52824B to investigate and gain better understanding of the Salado Salamander habitat.

~~a five-year research permit was awarded to the District and R~~research for Phase I included groundwater flow, water chemistry, aquifer response to recharge, and recharge features recharacterization. Measurements of water level, temperature, and specific conductance were taken every 5 minutes underneath the Stagecoach Inn Cave Well. After a year of data collection, the logging interval was adjusted to once every 10 minutes. The results indicated the recharge responds to changes in water level, specific conductance, and temperature in the Stagecoach Inn Cave well at a rapid pace.

Phase II included continued groundwater flow dynamics of the Northern Segment of the Edwards BFZ aquifer as well as surface/ groundwater interactions. Through a multiparameter datalogger in the Stagecoach Inn Cave Well, there was a slight change in water quality. Nitrate levels were not found to be over the drinking water limit. Nitrogen data showed values slightly above expected background levels. Researchers concluded the nitrogen data should be further investigated

¹¹ Provin, T.L. and Pitt, J.L. 2002. Description of water analysis parameters. Texas A&M AgriLife Extension.

¹² Stephanie Wong and Joe Yelderian, An investigation into the recharge pathways and mechanisms in the northern segment of the Edwards Aquifer, Bell County, Texas (Phase I, Phase II, and Phase III)

and monitored. The results from Phase II are expected to aid water management and direct future research needs.

Phase III included investigating the relationship between precipitation and changes in groundwater level and chemistry in the Northern Segment of the Edwards BFZ Aquifer and monitored groundwater at Stagecoach Inn Cave. Most recharge to the Edwards aquifer in the Salado Creek basin is a result of convective rain levels or locally intense and short-duration events. Results from Phase III reveal similar magnitude storms can have different groundwater responses, and small evenly distributed rainfalls may not result in recharge. Research on the Northern Segment of the Edwards BFZ aquifer is ongoing.

II. The foundational science used in support of the proposed 80 meter (m) surface and 300 m subsurface designations is not consistent with best available scientific literature, and should not be relied upon. [A1]

The District reviewed the available scientific literature for the Salado salamander and did not find supporting scientific documentation to validate the 80 m surface designation. If a critical habitat designation is to be established, a more site-specific approach to account accounting for area hydrology and geology would yield a more supportable science-driven and precise designation in the 50 m range. The 50 m range should be based on elevation contours used to delineate spring runs rather than the radius-based buffer typically used in designations. The Salado Salamander Monitoring Final Reports, which outlines the findings of five-years' worth of consistent research conducted under federal permit TE676811-9 and state permit SPR-0111-003 by the Texas Fish and Wildlife Conservation Office, conclusively supports this approach.¹³

III. The Draft Economic Analysis prepared by the Service is not complete and it appears the Service's Incremental Effect Memorandum (IEM) does not include all anticipated impacts from the proposed designation of critical habitat.

The Service prepared an Incremental Effects Memorandum to consider economic impacts from proposed designation of critical habitat for the Salado salamander.¹⁴ The only anticipated economic impact is an administrative effort during section 7 consultation estimated at \$38,500. The economic impact does not demonstrate the increase in population and development in Bell County.

¹³ Diaz, P., Montagne, M., Gibson, R., Najvar, P., Nice, C., Warren, J. 2019, Salado Salamander Monitoring Final Reports (compilation of annual reports for years 2015-2019).

¹⁴ Zerrenner, A. 2020. Incremental effects memorandum for the economic analysis of the proposed rule to designate critical habitat for the Georgetown and Salado salamanders. Memorandum to Industrial Economics, Inc.

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In addition, the Service states that the IEM will be used in conjunction with a “screening analysis” to serve as the Draft Economic Analysis. While both the IEM and screening analysis are available, it is unclear whether there is a separate, final report, as referenced as “Industrial Economics, Incorporated (IEc) 2020, entire”.^[A2]

Conclusion

The critical habitat designation currently proposed should not be ~~considered 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. In addition to the District adopting regulatory measures to maintain adequate spring flows, the District actively participates in conversations with the Service, Texas Parks and Wildlife Department, Bell County, and other stakeholders on issues related to the Salado salamander. The District is committed to assessing the salamander and its habitat and addressing any issues within their jurisdiction. The District has exceeded its statutory requirements and has protected the Salado salamander and its habitat.

Sincerely,

Minutes - Item #3

Clearwater Underground Water Conservation District Meeting
700 Kennedy Court
Belton, TX
Wednesday, September 16, 2020
Minutes

In accordance with Governor Abbott's declaration of the COVID-19 public health threat, action to temporarily suspend certain provisions of the Texas Open Meetings Act, and Executive Order, a quorum of CUWCD's Board of Directors held a regular Board meeting by telephonic conference call and, for redundancy, video conference on Wednesday, September, 16, 2020 at 1:30 p.m. The meeting originated from the Clearwater UWCD Building, located at 700 Kennedy Court, Belton, Texas.

Board Members Present:

Leland Gersbach, President, Pct. 1
David Cole, Vice President, At Large
Gary Young, Secretary, Pct. 2
Jody Williams, Director, Pct.
Scott Brooks, Director, Pct. 4

Absent:

Staff:

Dirk Aaron, General Manager
Shelly Chapman, Admin. Manager

Guest: (remote)

Ami Muttoni – BRA	Bill Schumann – County Commissioner	Jennifer Bronson – USGS
Katie Fields – NRS	Maddie Todd – NRS	Mike Keester – LRE Water
Sandra Blankenship	Ty Embry – Lloyd Gosselink	Vince Clause
Dr. Yelderman – Baylor	Steve Manning – NRS	David Jones - NRS

Workshop convened with President, Leland Gersbach at 1:35 p.m.

Workshop Item #1. Receive legislative and interim report update from Ty Embrey, Lloyd Gosselink Attorneys at Law.

Received a brief update on legislative and interim report from Ty Embrey.

Workshop Item #2. Receive follow-up presentation from CUWCD Geoscience Consulting Teams related to the proposed Trinity Aquifer research effort in FY21.

Mike Keester presented information on proposed research efforts for the Trinity aquifer in FY21. Vince Clause briefed the Board on his part of the research efforts and how data will be applied and useful.

Workshop Item #3. Receive update related to GMA8 Round III DFC determination, per TWC section 36.108.

Dirk briefed the Board on items related to Round III of the DFC determination. He commented that they are nearing the end of this round. The next meeting will be in October 27th.

Workshop Item #4. Receive update related to the BCAMC efforts in responding to the Critical Habitat Designation for the Salado Salamander.

Dirk Aaron gave an update on items related to the efforts of the BCAMC and the critical habitat designation for the Salado Salamander.

Workshop closed and Board Meeting convened with President, Leland Gersbach at 3:14 p.m.

1. Invocation and Pledge of Allegiance.

Vice President, David Cole, gave the invocation.
Secretary, Gary Young, led the Pledge of Allegiance.

2. Public Comment.

No public comments.

3. Approve minutes of the August 31, 2020 Board meeting and Workshop.

Board members received the minutes of the August 31, 2020 Board meeting and workshop in their Board Packet to review prior to the meeting.

Secretary, Gary Young, moved to approve the minutes of the August 31, 2020 Board meeting and Workshop. Director, Scott Brooks, seconded the motion.

Motion carried 5-0.

4. *Discuss, consider and take appropriate action if necessary, to accept the monthly Financial Report for August 2020 as presented.*

Board members received the monthly financial report for August 2020 in their Board Packet to review prior to the meeting.

Director, Scott Brooks, moved to accept the monthly financial report for August 2020 as presented. Director, Jody Williams, seconded the motion.

Motion carried 5-0.

5. *Discuss, consider and take appropriate action if necessary, to accept the monthly Investment Fund Account report as presented.*

Board members received the monthly investment fund account report for August 2020 in their Board Packet to review prior to the meeting.

Secretary, Gary Young, moved to accept the monthly investment fund account report for August 2020 as presented. Vice President, David Cole, seconded the motion.

Motion carried 5-0.

6. *Discuss, consider and take action if necessary, to approve the FY20 line item budget amendments as requested.*

Dirk Aaron presented the request for budget amendments and explained the needs for the requests. See budget amendment requests below:

Vendor	Line Item	Invoice Amount	Available Funds	Amount Requested	New Balance	From	Available Funds	New Balance
Lloyd Gosselink	53732-permit review-legal	\$3,506.00	\$0.05	\$3,505.95	\$3,506.00	53731-permit review-geoscience	\$6,219.20	\$2,713.25
David Cole	50405-Director Fee	\$600.00	\$450.00	\$150.00	\$600.00	50410-Director Fee-pct1	\$2,550.00	\$2,400.00
Gary Young	50415-Director Fee	\$600.00	\$0.00	\$600.00	\$600.00	50410-Director Fee-pct1	\$2,400.00	\$1,800.00
Tax Appraisal Dist	50303-Appraisal Dist	\$2,036.00	\$1,802.25	\$233.75	\$2,036.00	50550-Election Exp	\$500.00	\$266.25
Well Scope	53130.5-GeoLogging	\$2,000.00	\$1,450.00	\$550.00	\$2,000.00	53140-Mon. Well Exp	\$13,845.05	\$13,295.05
	BCAMC	\$105,000.00				Reserve Funds	\$919,358.87	\$814,358.87

Director, Scott Brooks, moved to approve the line item budget amendments as requested. Director, Jody Williams, seconded the motion.

Motion carried 5-0.

7. *Discuss, consider and take appropriate action if necessary, to cancel the November 3rd General Election for Directors representing Precinct 1 and Precinct 3.*

Dirk encouraged the Board to formally cancel the election on November 3rd for Precinct 1 and Precinct 3 since the candidates are running unopposed.

Dirk presented copies of the "Certification of Unopposed Candidates" and "Order of Cancellation" required by the Bell County Elections office along with supporting documentation of proper procedures to follow. He noted that the Bell County election office is aware of the cancellation request and confirmed they will provide the required posting of the Board's cancellation order at the polling locations used for the election.

Vice President, David Cole, moved to cancel the November 3, 2020 election of Precincts 1 & 3. Secretary, Gary Young, seconded the motion.

Motion carried 5-0.

8. **General Manager's Report concerning office management and staffing related to District Management Plan³.**
- Permit hearing for Reddy Lee, LLC.
 - Working on a permit review for Victory Rock.
 - ASR meeting on September 29th at CUWCD office. Dirk will post meeting in case a quorum of the Board would like to attend.
 - Work on the new road for the Belton Business Park is beginning.
 - Will presented the informational video has worked on during his internship.
 - Work on the newsletter will begin soon. Dirk will reach out to experts for articles.
 - Oath of office will be administered in December.
9. **Receive monthly report and possible consideration and Board action on the following:**
- a) **Drought Status Reports**
 - b) **Education Outreach Update**
 - c) **Monitoring Wells**
 - d) **Rainfall Reports**
 - e) **Well Registration Update**
 - f) **Aquifer Status Report & Non-exempt Monthly Well Production Reports**

(Copies of the Monthly Staff Reports were given to the Board Members to review. No action required. Information items only.)

10. **Director comments and reports³.**
- **Gary Young:** None
 - **David Cole:** Thanked Dirk and staff for all the work they do. Dirk as a great asset to the District.
 - **Jody Williams:** Thanked Dirk for all the hard work. Encouraged Dirk and staff to keep it up.
 - **Scott Brooks:** None
 - **Leland Gersbach:** None
11. **Discuss agenda items for next meeting.**
- Permit hearing for Reddy Lee, LLC
 - Budget amendment for FY21

12. **Set time and place of next meeting.**
Wednesday, October 14, 2020

13. **Adjourn.**

Board meeting adjourned and Workshop convened with President, Leland Gersbach, at 4:05 p.m.

Leland Gersbach, President

ATTEST:

Gary Young, Secretary or
Dirk Aaron, Assistant Secretary

Clearwater Underground Water Conservation
Balance Sheet
As of September 30, 2020

10/07/20

Accrual Basis

	Sep 30, 20
ASSETS	
Current Assets	
Checking/Savings	
10005 · Cash-Reg Operating	31,583.88
10500 · Cash-TexPool Prime	409,853.74
10505 · Cash - TexPool	404,662.34
Total Checking/Savings	846,099.96
Accounts Receivable	
11000 · Accounts Receivable	250.00
Total Accounts Receivable	250.00
Other Current Assets	
11005 · Accounts Receivable - Taxes	21,737.60
Total Other Current Assets	21,737.60
Total Current Assets	868,087.56
Fixed Assets	
15005 · Land	59,981.29
15010 · Leasehold Improvements	19,000.00
15015 · Building	306,734.08
15016 · Storage Building	104,382.03
15018 · Monitor Wells	92,938.18
15019 · Mobile Classroom Trailer	90,688.85
15020 · Field Equipment	17,243.55
15023 · Vehicles	6,920.00
15025 · Office Equipment	71,574.04
15030 · Accumulated Depreciation	-177,272.36
Total Fixed Assets	592,189.66
TOTAL ASSETS	1,460,277.22
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Other Current Liabilities	
21000 · Deferred Tax Revenue	21,737.60
21050 · Compensated Absences Accrued	9,429.60
Total Other Current Liabilities	31,167.20
Total Current Liabilities	31,167.20
Total Liabilities	31,167.20
Equity	
31000 · Unappropriated Fund Balance	863,207.26
33000 · Investment in Fixed Assets	592,189.66
Net Income	-26,286.90
Total Equity	1,429,110.02
TOTAL LIABILITIES & EQUITY	1,460,277.22

**Clearwater Underground Water Conservation
Profit & Loss Budget vs. Actual
October 2019 through September 2020**

2:28 PM

10/07/2020

Accrual Basis

Ordinary Income/Expense

Income

	Sept '20	Oct '19 thru Sept '20	FY20 Original Budget	FY20 Amended Budget	\$ Over Budget
40005 · Application Fee Income	0.00	12,400.00	30,000.00	30,000.00	-17,600.00
40010 · Bell CAD Current Year Tax	1,841.61	708,063.73	734,499.00	734,499.00	-26,435.27
40015 · Bell CAD Delinquent Tax	1,040.11	8,134.98	12,500.00	12,500.00	-4,365.02
40020 · Interest Income	157.21	11,937.58	15,000.00	15,000.00	-3,062.42
40030 · Transport Fee Income	0.00	1,464.77	1,500.00	1,500.00	-35.23

Total Income

	3,038.93	742,001.06	793,499.00	793,499.00	-51,497.94
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Gross Profit

	3,038.93	742,001.06	793,499.00	793,499.00	-51,497.94
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Expense

50000 · Administrative Expenses

50100 · Audit	0.00	7,200.00	7,200.00	7,200.00	0.00
50200 · Conferences & Prof Development	-470.00	2,280.00	4,000.00	4,000.00	-1,720.00
50250 · Contingency Fund	0.00	0.00	0.00	0.00	0.00
50300 · Director Expenses					
50305 · At Large	-150.00	225.00	1,500.00	1,500.00	-1,275.00
50310 · Pct. 1	-150.00	350.00	1,500.00	1,500.00	-1,150.00
50315 · Pct. 2	-150.00	235.00	1,500.00	1,500.00	-1,265.00
50320 · Pct. 3	-150.00	235.00	1,500.00	1,500.00	-1,265.00
50325 · Pct. 4	-150.00	235.00	1,500.00	1,500.00	-1,265.00

Total 50300 · Director Expenses

	-750.00	1,280.00	7,500.00	7,500.00	-6,220.00
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50400 · Director Fees

50405 · At Large	900.00	2,700.00	2,550.00	2,700.00	0.00
50410 · Pct. 1	0.00	0.00	2,550.00	1,800.00	-1,800.00
50415 · Pct. 2	900.00	3,150.00	2,550.00	3,150.00	0.00
50420 · Pct. 3	750.00	2,400.00	2,550.00	2,550.00	-150.00
50425 · Pct. 4	0.00	0.00	2,550.00	2,550.00	-2,550.00

Total 50400 · Director Fees

	2,550.00	8,250.00	12,750.00	12,750.00	-4,500.00
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50500 · Dues & Memberships

	0.00	2,647.00	2,750.00	2,750.00	-103.00
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50550 · Election Expense

	0.00	0.00	500.00	266.25	-266.25
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50600 · GMA 8 Expenses

50605 · Technical Committee	254.25	6,833.05	5,000.00	11,250.00	-4,416.95
50610 · Administration	580.94	1,170.15	5,000.00	5,000.00	-3,829.85

Total 50600 · GMA 8 Expenses

	835.19	8,003.20	10,000.00	16,250.00	-8,246.80
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50700 · Meals

	0.00	476.89	1,000.00	1,000.00	-523.11
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50800 · Mileage Reimbursements

	202.98	2,275.69	5,000.00	5,000.00	-2,724.31
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50900 · Travel & Hotel

	0.00	1,681.49	4,500.00	4,500.00	-2,818.51
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Total 50000 · Administrative Expenses

	2,368.17	34,094.27	55,200.00	61,216.25	-27,121.98
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	Sept '20	Oct '19 thru Sept '20	FY20 Original Budget	FY20 Amended Budget	\$ Over Budget
52000 · Salary Costs					
52005 · Administrative Assistant	4,013.33	48,159.96	48,161.00	48,161.00	-1.04
52010 · Educational Coord/Support Tech	3,416.67	41,000.04	41,000.00	41,000.00	0.04
52015 · Manager	6,853.58	82,242.96	82,243.00	82,243.00	-0.04
52020 · Part Time/Intern	0.00	0.00	2,640.00	2,640.00	-2,640.00
52025 · Office Assistant/Field Tech	3,333.33	39,999.96	40,000.00	40,000.00	-0.04
52040 · Health Insurance	-273.90	41,273.28	41,274.00	41,274.00	-0.72
52045 · Payroll Taxes & Work Comp	1,326.73	16,496.88	17,500.00	17,500.00	-1,003.12
52050 · Retirement	726.31	8,715.72	9,513.00	9,513.00	-797.28
52055 · Payroll Expenses	8.66	95.26	125.00	125.00	-29.74
52060 · Freshbenies	36.00	432.00	432.00	432.00	0.00
Total 52000 · Salary Costs	19,440.71	278,416.06	282,888.00	282,888.00	-4,471.94
53000 · Operating Expenses					
53010 · Bank Service Charges	0.00	0.00	50.00	50.00	-50.00
53020 · Advertisement	2,378.75	3,466.25	3,500.00	3,500.00	-33.75
53030 · Appraisal District	2,036.00	8,233.75	8,000.00	8,233.75	0.00
53100 · Clearwater Studies					
53105 · Trinity Studies					
53105.1 · Pumping Distribution	0.00	0.00	0.00	0.00	0.00
53105.2 · Pumping Test	0.00	1,360.00	2,000.00	2,000.00	-640.00
53105.3 · Synoptic	0.00	5,365.00	5,600.00	5,600.00	-235.00
53105.4 · GAM Run	10,074.50	25,000.00	25,000.00	25,000.00	0.00
53105.5 · Mgmt Options	0.00	8,400.00	0.00	8,400.00	0.00
53105.6 · Water Quality Studies	0.00	0.00	0.00	0.00	0.00
Total 53105 · Trinity Studies	10,074.50	40,125.00	32,600.00	41,000.00	-875.00
53110 · Edwards BFZ Studies					
53110.1 · Pumping Distribution	0.00	0.00	0.00	0.00	0.00
53110.2 · Pumping Test	0.00	0.00	0.00	0.00	0.00
53110.3 · Synoptic	0.00	0.00	0.00	0.00	0.00
53110.4 · Spring Shed (Baylor)	0.00	0.00	0.00	0.00	0.00
53110.5 · Water Quality Studies	0.00	0.00	0.00	0.00	0.00
53110.6 · GAM Calibration	7,500.00	15,055.00	18,200.00	15,055.00	0.00
Total 53110 · Edwards BFZ Studies	7,500.00	15,055.00	18,200.00	15,055.00	0.00
53115 · Drought Contingency Plan	0.00	0.00	0.00	0.00	0.00
53120 · Endangered Species					
53120.1 · Coalition	0.00	0.00	0.00	0.00	0.00
53120.2 · Reimburseable Order	0.00	0.00	0.00	0.00	0.00
53120.3 · 4(d) rule	0.00	0.00	0.00	0.00	0.00
53120.4 · DPS Petition	0.00	0.00	0.00	0.00	0.00
53120 · Endangered Species - Other	105,000.00	140,000.00	15,000.00	140,000.00	0.00
Total 53120 · Endangered Species	105,000.00	140,000.00	15,000.00	140,000.00	0.00

	Sept '20	Oct '19 thru Sept '20	FY20 Original Budget	FY20 Amended Budget	\$ Over Budget
53125 · Environmental Flows	0.00	0.00	0.00	0.00	0.00
53130 · General Consulting					
53130.1 · DFC Process	718.75	10,000.00	10,000.00	10,000.00	0.00
53130.2 · Eval of Rules	0.00	1,440.00	5,000.00	1,440.00	0.00
53130.3 · Eval. Hydrogeologic Report	0.00	0.00	0.00	0.00	0.00
53130.4 · Investigations	630.00	4,915.00	7,000.00	5,305.00	-390.00
53130.5 · Geo Logging	4,300.00	4,300.00	10,000.00	4,300.00	0.00
53130.6 · Aquifer Monitor Well Tool	0.00	6,980.00	7,000.00	7,000.00	-20.00
53130.7 · ASR Study	0.00	27,000.00	27,000.00	27,000.00	0.00
53130.8 · Data Release	0.00	0.00	0.00	0.00	0.00
Total 53130 · General Consulting	5,648.75	54,635.00	66,000.00	55,045.00	-410.00
53135 · Monitor Well Construction	0.00	0.00	70,000.00	31,355.95	-31,355.95
53140 · Monitor Wells Expenses	1,224.80	2,379.75	15,000.00	14,450.00	-12,070.25
53141 · Weather Station Expense	0.00	0.00	0.00	0.00	0.00
53145 · Spring Flow Gauge	0.00	0.00	0.00	0.00	0.00
53150 · Water Quality	11.92	2,285.91	2,500.00	2,500.00	-214.09
53155 · 3-D Visualization	5,500.00	24,500.00	28,000.00	28,000.00	-3,500.00
Total 53100 · Clearwater Studies	134,959.97	278,980.66	247,300.00	327,405.95	-48,425.29
53200 · Spring Flow Gage System					
53205 · Op. & Maintenance	0.00	15,900.00	15,900.00	15,900.00	0.00
53210 · Installation	0.00	0.00	0.00	0.00	0.00
Total 53200 · Spring Flow Gage System	0.00	15,900.00	15,900.00	15,900.00	0.00
53300 · Computer Consulting					
53305 · Enhancements - Data Base	184.11	2,549.99	7,500.00	7,500.00	-4,950.01
53306 · Hosting - Data Base	0.00	3,000.00	3,000.00	3,000.00	0.00
53310 · Hosting - PDI	0.00	1,000.00	1,000.00	1,000.00	0.00
53311 · Hosting - Website	0.00	0.00	1,800.00	1,800.00	-1,800.00
53312 · Enhancements - Website	13,375.00	17,500.00	17,500.00	17,500.00	0.00
53315 · IT Network Sustainment	450.00	5,400.00	5,400.00	5,400.00	0.00
53317 · Management Tool Sustainment	0.00	0.00	0.00	0.00	0.00
Total 53300 · Computer Consulting	14,009.11	29,449.99	36,200.00	36,200.00	-6,750.01
53400 · Computer Licenses/Virus Prtctn	108.24	1,293.24	1,500.00	1,500.00	-206.76
53450 · Computer Repairs and Supplies	0.00	369.06	1,500.00	1,500.00	-1,130.94
53500 · Computer Software & Hardware	0.00	3,643.42	5,500.00	5,500.00	-1,856.58
53550 · Copier/Scanner/Plotter	486.56	5,838.72	6,000.00	6,000.00	-161.28
53600 · Educational Outreach/Marketing					
53603 · Event Sponsor/Income	0.00	-2,250.00	0.00	0.00	-2,250.00
53605 · Event Cost	-140.05	11,269.25	12,000.00	12,000.00	-730.75
53615 · Promotional Items	0.00	534.50	5,000.00	5,000.00	-4,465.50
53620 · Supplies & Equipment	28.09	534.14	4,500.00	4,500.00	-3,965.86
53625 · Curriculum	0.00	0.00	0.00	0.00	0.00
Total 53600 · Educational Outreach/Marketing	-111.96	10,087.89	21,500.00	21,500.00	-11,412.11

	Sept '20	Oct '19 thru Sept '20	FY20 Original Budget	FY20 Amended Budget	\$ Over Budget
53650 · Furniture & Equipment	0.00	1,159.04	1,500.00	1,500.00	-340.96
53700 · Legal					
53701 · Drought Contingency Plan	0.00	0.00	5,000.00	2,692.58	-2,692.58
53702 · Endangered Species	32.00	6,028.00	3,000.00	10,500.00	-4,472.00
53703 · General (rules/accountability)	437.50	11,809.55	10,000.00	21,144.05	-9,334.50
53704 · Legislative Research/Analysis	600.00	6,934.00	10,000.00	10,000.00	-3,066.00
53705 · Legislative Services	0.00	0.00	0.00	0.00	0.00
53706 · GMA/DFC/MAG support	0.00	12,307.42	10,000.00	12,307.42	0.00
Total 53700 · Legal	1,069.50	37,078.97	38,000.00	56,644.05	-19,565.08
53720 · Office Supplies	0.00	2,998.05	3,000.00	3,000.00	-1.95
53730 · Permit Reviews					
53731 · Geoscience	225.00	6,973.75	15,000.00	9,462.00	-2,488.25
53732 · Legal Evaluation	3,506.00	20,538.00	15,000.00	20,538.00	0.00
Total 53730 · Permit Reviews	3,731.00	27,511.75	30,000.00	30,000.00	-2,488.25
53740 · Postage	0.00	1,866.20	2,500.00	2,500.00	-633.80
53750 · Printing	0.00	1,458.97	2,500.00	2,500.00	-1,041.03
53760 · Reserve for Uncollected Taxes	0.00	0.00	20,000.00	20,000.00	-20,000.00
53780 · Subscriptions	0.00	439.88	900.00	900.00	-460.12
53785 · Mobile Classroom Expense	0.00	0.00	2,000.00	2,000.00	-2,000.00
53790 · Vehicle Expense	86.74	2,998.67	4,000.00	4,000.00	-1,001.33
Total 53000 · Operating Expenses	158,753.91	432,774.51	451,350.00	550,333.75	-117,559.24
54000 · Facility Costs					
54100 · Insurance					
54101 · Liability	0.00	1,115.24	1,300.00	1,118.70	-3.46
54102 · Property	0.00	1,699.32	1,650.00	1,699.32	0.00
54103 · Surety Bonds	0.00	720.00	1,200.00	1,200.00	-480.00
54104 · Worker's Comp	0.00	994.98	800.00	994.98	0.00
54105 · Liability - Vehicle	0.00	904.54	1,250.00	1,187.00	-282.46
Total 54100 · Insurance	0.00	5,434.08	6,200.00	6,200.00	-765.92
54200 · Building Repairs/Maintenance	159.07	2,885.46	8,550.00	8,550.00	-5,664.54
54300 · Janitorial Service	300.00	3,600.00	3,600.00	3,600.00	0.00
54400 · Janitorial Supplies	0.00	744.48	750.00	750.00	-5.52
54500 · Lawn Maintenance/Service	185.00	2,220.00	2,500.00	2,500.00	-280.00
54600 · Security	29.95	359.40	375.00	375.00	-15.60
Total 54000 · Facility Costs	674.02	15,243.42	21,975.00	21,975.00	-6,731.58
55000 · Utilities					
55200 · Electricity	217.65	2,132.96	2,500.00	2,500.00	-367.04
55300 · Internet	149.99	1,649.89	2,000.00	2,000.00	-350.11
55400 · Phone	156.55	1,819.74	2,400.00	2,400.00	-580.26
55500 · Water/Garbage	217.81	2,157.11	2,300.00	2,300.00	-142.89
Total 55000 · Utilities	742.00	7,759.70	9,200.00	9,200.00	-1,440.30
Total Expense	181,978.81	768,287.96	820,613.00	925,613.00	-157,325.04
Net Ordinary Income	-178,939.88	-26,286.90	-27,114.00	-132,114.00	105,827.10

	Sept '20	Oct '19 thru Sept '20	FY20 Original Budget	FY20 Amended Budget	\$ Over Budget
Other Income/Expense					
Other Income					
61050 - Reserve Funds from Prior Years	0.00	0.00	27,114.00	132,114.00	-132,114.00
Total Other Income	0.00	0.00	27,114.00	132,114.00	-132,114.00
Net Other Income	0.00	0.00	27,114.00	132,114.00	-132,114.00
Net Income	-178,939.88	-26,286.90	0.00	0.00	-26,286.90

Clearwater Underground Water Conservation
Profit & Loss Detail
September 2020

10/07/20

Accrual Basis

Type	Date	Num	Name	Memo	Amount	Balance
Ordinary Income/Expense						
Income						
40010 · Bell CAD Current Year Tax						
Deposit	09/04/2020			Deposit	330.51	330.51
Deposit	09/04/2020			Deposit	6.40	336.91
Deposit	09/04/2020			Deposit	-0.10	336.81
Deposit	09/28/2020			BellCAD - Te...	101.25	438.06
Deposit	09/30/2020			Deposit	4.31	442.37
Deposit	09/30/2020			Deposit	1,649.97	2,092.34
Deposit	09/30/2020			Deposit	-250.75	1,841.59
Deposit	09/30/2020			Deposit	0.02	1,841.61
Total 40010 · Bell CAD Current Year Tax					1,841.61	1,841.61
40015 · Bell CAD Deliquent Tax						
Deposit	09/04/2020			Deposit	484.57	484.57
Deposit	09/04/2020			Deposit	2.15	486.72
Deposit	09/30/2020			Deposit	2.04	488.76
Deposit	09/30/2020			Deposit	644.54	1,133.30
Deposit	09/30/2020			Deposit	-93.19	1,040.11
Total 40015 · Bell CAD Deliquent Tax					1,040.11	1,040.11
40020 · Interest Income						
Deposit	09/29/2020			Deposit	100.94	100.94
Deposit	09/29/2020			Deposit	56.27	157.21
Total 40020 · Interest Income					157.21	157.21
Total Income					3,038.93	3,038.93
Gross Profit					3,038.93	3,038.93
Expense						
50000 · Administrative Expenses						
50200 · Conferences & Prof Development						
Bill	09/16/2020		Card Service Center	Groundwater ...	-235.00	-235.00
Bill	09/16/2020		Card Service Center	Groundwater ...	-235.00	-470.00
Total 50200 · Conferences & Prof Development					-470.00	-470.00
50300 · Director Expenses						
50305 · At Large						
Bill	09/16/2020		Card Service Center	Groundwater ...	-150.00	-150.00
Total 50305 · At Large					-150.00	-150.00
50310 · Pct. 1						
Bill	09/16/2020		Card Service Center	Groundwater ...	-150.00	-150.00
Total 50310 · Pct. 1					-150.00	-150.00
50315 · Pct. 2						
Bill	09/16/2020		Card Service Center	Groundwater ...	-150.00	-150.00
Total 50315 · Pct. 2					-150.00	-150.00
50320 · Pct. 3						
Bill	09/16/2020		Card Service Center	Groundwater ...	-150.00	-150.00
Total 50320 · Pct. 3					-150.00	-150.00
50325 · Pct. 4						
Bill	09/16/2020		Card Service Center	Groundwater ...	-150.00	-150.00
Total 50325 · Pct. 4					-150.00	-150.00
Total 50300 · Director Expenses					-750.00	-750.00

**Clearwater Underground Water Conservation
Profit & Loss Detail
September 2020**

10/07/20

Accrual Basis

Type	Date	Num	Name	Memo	Amount	Balance
50400 · Director Fees						
50405 · At Large						
Bill	09/16/2020	August 2020	David Cole	Board Mtgs 8...	300.00	300.00
Bill	09/28/2020	Sept2020	David Cole	Water Summ...	600.00	900.00
Total 50405 · At Large					900.00	900.00
50415 · Pct. 2						
Bill	09/16/2020	August 2020	Gary Young	Board mtgs 8...	300.00	300.00
Bill	09/28/2020	Sept2020	Gary Young	Groundwater ...	600.00	900.00
Total 50415 · Pct. 2					900.00	900.00
50420 · Pct. 3						
Bill	09/16/2020	August 2020	Jody Williams	Board Mtg 8/...	150.00	150.00
Bill	09/28/2020	Sept2020	Jody Williams	Groundwater ...	600.00	750.00
Total 50420 · Pct. 3					750.00	750.00
Total 50400 · Director Fees					2,550.00	2,550.00
50600 · GMA 8 Expenses						
50605 · Technical Committee						
Bill	09/28/2020	Inv 993429	WSP USA, Inc	Inv 993429	241.00	241.00
Bill	09/28/2020	inv 993429	WSP USA, Inc	Inv 993429	13.25	254.25
Total 50605 · Technical Committee					254.25	254.25
50610 · Administration						
Bill	09/01/2020	Inv 97513722	Lloyd Gosselink Attorne...	Inv 97513722	420.00	420.00
Bill	09/16/2020	Inv 20200901	North Texas GCD	Inv 20200901	160.94	580.94
Total 50610 · Administration					580.94	580.94
Total 50600 · GMA 8 Expenses					835.19	835.19
50800 · Mileage Reimbursements						
Bill	09/28/2020	Mileage Rei...	William Anderson	Mileage Reimb	202.98	202.98
Total 50800 · Mileage Reimbursements					202.98	202.98
Total 50000 · Administrative Expenses					2,368.17	2,368.17
52000 · Salary Costs						
52005 · Administrative Assistant						
Paycheck	09/30/2020	DD1261	Shelly Chapman	Direct Deposit	3,922.12	3,922.12
Paycheck	09/30/2020	DD1261	Shelly Chapman	Direct Deposit	91.21	4,013.33
Total 52005 · Administrative Assistant					4,013.33	4,013.33
52010 · Educational Coord/Support Tech						
Paycheck	09/30/2020	DD1262	Tristin S Smith	Direct Deposit	3,416.67	3,416.67
Total 52010 · Educational Coord/Support Tech					3,416.67	3,416.67
52015 · Manager						
Paycheck	09/30/2020	DD1260	Richard E Aaron	Direct Deposit	5,919.00	5,919.00
Paycheck	09/30/2020	DD1260	Richard E Aaron	Direct Deposit	934.58	6,853.58
Total 52015 · Manager					6,853.58	6,853.58
52025 · Office Assistant/Field Tech						
Paycheck	09/30/2020	DD1259	Corey C Dawson	Direct Deposit	3,333.33	3,333.33
Paycheck	09/30/2020	DD1259	Corey C Dawson	Direct Deposit	0.00	3,333.33
Paycheck	09/30/2020	DD1259	Corey C Dawson	Direct Deposit	0.00	3,333.33
Total 52025 · Office Assistant/Field Tech					3,333.33	3,333.33

**Clearwater Underground Water Conservation
Profit & Loss Detail
September 2020**

10/07/20

Accrual Basis

Type	Date	Num	Name	Memo	Amount	Balance
52040 · Health Insurance						
Paycheck	09/30/2020	DD1259	Corey C Dawson	Direct Deposit	500.00	500.00
Paycheck	09/30/2020	DD1260	Richard E Aaron	Direct Deposit	500.00	1,000.00
Paycheck	09/30/2020	DD1261	Shelly Chapman	Direct Deposit	-636.95	363.05
Paycheck	09/30/2020	DD1261	Shelly Chapman	Direct Deposit	1,219.72	1,582.77
Paycheck	09/30/2020	DD1261	Shelly Chapman	Direct Deposit	-1,219.72	363.05
Paycheck	09/30/2020	DD1262	Tristin S Smith	Direct Deposit	-636.95	-273.90
Paycheck	09/30/2020	DD1262	Tristin S Smith	Direct Deposit	1,219.72	945.82
Paycheck	09/30/2020	DD1262	Tristin S Smith	Direct Deposit	-1,219.72	-273.90
Total 52040 · Health Insurance					-273.90	-273.90
52045 · Payroll Taxes & Work Comp						
Paycheck	09/30/2020	DD1259	Corey C Dawson	Direct Deposit	237.67	237.67
Paycheck	09/30/2020	DD1259	Corey C Dawson	Direct Deposit	55.58	293.25
Paycheck	09/30/2020	DD1259	Corey C Dawson	Direct Deposit	0.00	293.25
Paycheck	09/30/2020	DD1260	Richard E Aaron	Direct Deposit	455.92	749.17
Paycheck	09/30/2020	DD1260	Richard E Aaron	Direct Deposit	106.62	855.79
Paycheck	09/30/2020	DD1260	Richard E Aaron	Direct Deposit	0.00	855.79
Paycheck	09/30/2020	DD1261	Shelly Chapman	Direct Deposit	209.34	1,065.13
Paycheck	09/30/2020	DD1261	Shelly Chapman	Direct Deposit	48.96	1,114.09
Paycheck	09/30/2020	DD1261	Shelly Chapman	Direct Deposit	0.00	1,114.09
Paycheck	09/30/2020	DD1262	Tristin S Smith	Direct Deposit	172.34	1,286.43
Paycheck	09/30/2020	DD1262	Tristin S Smith	Direct Deposit	40.30	1,326.73
Paycheck	09/30/2020	DD1262	Tristin S Smith	Direct Deposit	0.00	1,326.73
Total 52045 · Payroll Taxes & Work Comp					1,326.73	1,326.73
52050 · Retirement						
Paycheck	09/30/2020	DD1259	Corey C Dawson	Direct Deposit	172.50	172.50
Paycheck	09/30/2020	DD1260	Richard E Aaron	Direct Deposit	330.91	503.41
Paycheck	09/30/2020	DD1261	Shelly Chapman	Direct Deposit	120.40	623.81
Paycheck	09/30/2020	DD1262	Tristin S Smith	Direct Deposit	102.50	726.31
Total 52050 · Retirement					726.31	726.31
52055 · Payroll Expenses						
Bill	09/16/2020		Card Service Center	QB payroll fee	8.66	8.66
Total 52055 · Payroll Expenses					8.66	8.66
52060 · Freshbenies						
Check	09/04/2020	Sept21-TS	New Benefits Ltd - Fres...	Freshbenies ...	18.00	18.00
Check	09/04/2020	Sept20-SC	New Benefits Ltd - Fres...	Freshbenies ...	18.00	36.00
Paycheck	09/30/2020	DD1261	Shelly Chapman	Direct Deposit	18.00	54.00
Paycheck	09/30/2020	DD1261	Shelly Chapman	Direct Deposit	-18.00	36.00
Paycheck	09/30/2020	DD1262	Tristin S Smith	Direct Deposit	18.00	54.00
Paycheck	09/30/2020	DD1262	Tristin S Smith	Direct Deposit	-18.00	36.00
Total 52060 · Freshbenies					36.00	36.00
Total 52000 · Salary Costs					19,440.71	19,440.71
53000 · Operating Expenses						
53020 · Advertisement						
Bill	09/01/2020	Inv 2020-18...	Salado Village Voice	Inv 2020-182...	546.00	546.00
Bill	09/01/2020	Inv 2020-18...	Salado Village Voice	Inv 2020-183...	761.50	1,307.50
Bill	09/16/2020	Inv 80957242	Killeen Daily Herald	Inv 80957242	520.00	1,827.50
Bill	09/16/2020	Inv 16660584	Temple Daily Telegram	Inv 16660584	551.25	2,378.75
Total 53020 · Advertisement					2,378.75	2,378.75
53030 · Appraisal District						
Bill	09/16/2020	2021 1st Qtr	Tax Appraisal District - ...	2021 1st QTR	2,036.00	2,036.00
Total 53030 · Appraisal District					2,036.00	2,036.00

Clearwater Underground Water Conservation
Profit & Loss Detail
September 2020

10/07/20

Accrual Basis

Type	Date	Num	Name	Memo	Amount	Balance	
		53100 · Clearwater Studies					
		53105 · Trinity Studies					
		53105.4 · GAM Run					
Bill	09/28/2020	Inv 993429	WSP USA, Inc	Inv 993429	10,074.50	10,074.50	
		Total 53105.4 · GAM Run				10,074.50	10,074.50
		Total 53105 · Trinity Studies				10,074.50	10,074.50
		53110 · Edwards BFZ Studies					
		53110.6 · GAM Calibration					
Bill	09/28/2020	Inv 993429	WSP USA, Inc	Inv 993429	7,500.00	7,500.00	
		Total 53110.6 · GAM Calibration				7,500.00	7,500.00
		Total 53110 · Edwards BFZ Studies				7,500.00	7,500.00
		53120 · Endangered Species					
Bill	09/28/2020	BCAMC	Bell County	BCAMC - Sal...	105,000.00	105,000.00	
		Total 53120 · Endangered Species				105,000.00	105,000.00
		53130 · General Consulting					
		53130.1 · DFC Process					
Bill	09/28/2020	Inv 993429	WSP USA, Inc	Inv 993429	718.75	718.75	
		Total 53130.1 · DFC Process				718.75	718.75
		53130.4 · Investigations					
Bill	09/16/2020	Inv TX-373	LRE Water, LLC	Inv TX-373 ...	270.00	270.00	
Bill	09/16/2020	Inv TX-373	LRE Water, LLC	Inv TX-373 ...	360.00	630.00	
		Total 53130.4 · Investigations				630.00	630.00
		53130.5 · Geo Logging					
Bill	09/01/2020	Inv 1195	Well Scope	Inv 1195 (V.A...	2,300.00	2,300.00	
Bill	09/16/2020	Inv 1197	Well Scope	Inv 1197 - W...	2,000.00	4,300.00	
		Total 53130.5 · Geo Logging				4,300.00	4,300.00
		Total 53130 · General Consulting				5,648.75	5,648.75
		53140 · Monitor Wells Expenses					
Bill	09/16/2020		Card Service Center	Monitorwell/w...	1,224.80	1,224.80	
		Total 53140 · Monitor Wells Expenses				1,224.80	1,224.80
		53150 · Water Quality					
Bill	09/16/2020		Card Service Center	Supplies	11.92	11.92	
		Total 53150 · Water Quality				11.92	11.92
		53155 · 3-D Visualization					
Bill	09/16/2020	Inv #5	Allan R Standen, LLC	Inv #5	5,500.00	5,500.00	
		Total 53155 · 3-D Visualization				5,500.00	5,500.00
		Total 53100 · Clearwater Studies				134,959.97	134,959.97
		53300 · Computer Consulting					
		53305 · Enhancements - Data Base					
Bill	09/16/2020	Inv 10041127	Half Associates, Inc	Inv 10041127	184.11	184.11	
		Total 53305 · Enhancements - Data Base				184.11	184.11
		53312 · Enhancements - Website					
Bill	09/16/2020	Inv 16689	Engineer Austin, LLC	Inv 16689	13,375.00	13,375.00	
		Total 53312 · Enhancements - Website				13,375.00	13,375.00

Clearwater Underground Water Conservation
Profit & Loss Detail
September 2020

10/07/20

Accrual Basis

Type	Date	Num	Name	Memo	Amount	Balance
		53315 · IT Network Sustainment				
Bill	09/16/2020	Inv 16628	Engineer Austin, LLC	Inv 16628	450.00	450.00
		Total 53315 · IT Network Sustainment			450.00	450.00
		Total 53300 · Computer Consulting			14,009.11	14,009.11
		53400 · Computer Licenses/Virus Prctn				
Bill	09/16/2020		Card Service Center	Microsoft sub...	108.24	108.24
		Total 53400 · Computer Licenses/Virus Prctn			108.24	108.24
		53550 · Copier/Scanner/Plotter				
Bill	09/16/2020	Inv 0112529...	Xerox	Inv 011252918	486.56	486.56
		Total 53550 · Copier/Scanner/Plotter			486.56	486.56
		53600 · Educational Outreach/Marketing				
		53605 · Event Cost				
Bill	09/16/2020		Card Service Center	Groundwater ...	-235.00	-235.00
Bill	09/16/2020		Card Service Center	GoToMtg fee	5.39	-229.61
Bill	09/16/2020		Card Service Center	Monitor Well ...	89.56	-140.05
		Total 53605 · Event Cost			-140.05	-140.05
		53620 · Supplies & Equipment				
Bill	09/16/2020		Card Service Center	Supplies	28.09	28.09
		Total 53620 · Supplies & Equipment			28.09	28.09
		Total 53600 · Educational Outreach/Marketing			-111.96	-111.96
		53700 · Legal				
		53702 · Endangered Species				
Bill	09/01/2020	Inv 97513674	Lloyd Gosselink Attorne...	Inv 97513674	32.00	32.00
		Total 53702 · Endangered Species			32.00	32.00
		53703 · General (rules/accountability)				
Bill	09/01/2020	Inv 97513673	Lloyd Gosselink Attorne...	Inv 97513673	96.00	96.00
Bill	09/16/2020	Inv 9751052...	Lloyd Gosselink Attorne...	Inv 97510522R	341.50	437.50
		Total 53703 · General (rules/accountability)			437.50	437.50
		53704 · Legislative Research/Analysis				
Bill	09/01/2020	Inv97513721	Lloyd Gosselink Attorne...	Inv 97513721	600.00	600.00
		Total 53704 · Legislative Research/Analysis			600.00	600.00
		Total 53700 · Legal			1,069.50	1,069.50
		53730 · Permit Reviews				
		53731 · Geoscience				
Bill	09/16/2020	Inv TX-373	LRE Water, LLC	Inv TX-373 ...	225.00	225.00
		Total 53731 · Geoscience			225.00	225.00
		53732 · Legal Evaluation				
Bill	09/16/2020	Inv 9751052...	Lloyd Gosselink Attorne...	Inv 97510522...	3,506.00	3,506.00
		Total 53732 · Legal Evaluation			3,506.00	3,506.00
		Total 53730 · Permit Reviews			3,731.00	3,731.00
		53790 · Vehicle Expense				
Bill	09/16/2020		CEFCO	Account # C...	86.74	86.74
		Total 53790 · Vehicle Expense			86.74	86.74
		Total 53000 · Operating Expenses			158,753.91	158,753.91

Clearwater Underground Water Conservation Profit & Loss Detail September 2020

10/07/20

Accrual Basis

Type	Date	Num	Name	Memo	Amount	Balance
54000 · Facility Costs						
54200 · Building Repairs/Maintenance						
Bill	09/16/2020	Inv 25604	Hartman ABC Pest Con...	Inv 25604	100.00	100.00
Bill	09/16/2020		Card Service Center	maintenance ...	59.07	159.07
			Total 54200 · Building Repairs/Maintenance		159.07	159.07
54300 · Janitorial Service						
Bill	09/16/2020	Sept2020	Andrea Matl	Sept2020	300.00	300.00
			Total 54300 · Janitorial Service		300.00	300.00
54500 · Lawn Maintenance/Service						
Bill	09/28/2020	Inv 18770	Greeson Lawn Services...	Inv 18770	185.00	185.00
			Total 54500 · Lawn Maintenance/Service		185.00	185.00
54600 · Security						
Bill	09/01/2020	Inv 103431	Progressive Protection	Inv 103431	29.95	29.95
			Total 54600 · Security		29.95	29.95
			Total 54000 · Facility Costs		674.02	674.02
55000 · Utilities						
55200 · Electricity						
Bill	09/28/2020	B2009160160	AmeriPower	B2009160160	217.65	217.65
			Total 55200 · Electricity		217.65	217.65
55300 · Internet						
Bill	09/16/2020	Inv 0192419...	Spectrum	Inv 01924190...	149.99	149.99
			Total 55300 · Internet		149.99	149.99
55400 · Phone						
Bill	09/16/2020	Inv 0192419...	Spectrum	Inv 01924190...	156.55	156.55
			Total 55400 · Phone		156.55	156.55
55500 · Water/Garbage						
Bill	09/01/2020		City of Belton		217.81	217.81
			Total 55500 · Water/Garbage		217.81	217.81
			Total 55000 · Utilities		742.00	742.00
			Total Expense		181,978.81	181,978.81
			Net Ordinary Income		-178,939.88	-178,939.88
			Net Income		-178,939.88	-178,939.88

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10/07/20

Clearwater Underground Water Conservation
A/P Aging Detail
As of October 6, 2020

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Due Date</u>	<u>Aging</u>	<u>Open Balance</u>
Current						
Total Current						
1 - 30						
Total 1 - 30						
31 - 60						
Total 31 - 60						
61 - 90						
Total 61 - 90						
> 90						
Total > 90						
TOTAL						

Investment Fund - Item #5

TexPool Participant Services
 1001 Texas Avenue, Suite 1150
 Houston, TX 77022



Summary Statement

CLEARWATER UNDERGROUND WCD
ATTN DIRK AARON
PO BOX 1989
BELTON TX 76513-5989

Statement Period 09/01/2020 - 09/30/2020
Customer Service 1-866-TEX-POOL
Location ID 000079358

GENERAL FUND - 0793580001

Pool Name	Beginning Balance	Total Deposit	Total Withdrawal	Total Interest	Current Balance	Average Balance
TexPool	\$507,106.07	\$0.00	-\$102,500.00	\$56.27	\$404,662.34	\$455,357.95
TexPool Prime	\$512,252.80	\$0.00	-\$102,500.00	\$100.94	\$409,853.74	\$465,756.16
Total Dollar Value	\$1,019,358.87	\$0.00	-\$205,000.00	\$157.21	\$814,516.08	

ACCOUNT TOTALS

Pool Name	Beginning Balance	Total Deposit	Total Withdrawal	Total Interest	Current Balance
TexPool	\$507,106.07 ✓	\$0.00 ✓	-\$102,500.00 ✓	\$56.27	\$404,662.34 ✓
TexPool Prime	\$512,252.80 ✓	\$0.00 ✓	-\$102,500.00 ✓	\$100.94	\$409,853.74 ✓
Total Dollar Value	\$1,019,358.87 ✓	\$0.00 ✓	-\$205,000.00 ✓	\$157.21	\$814,516.08 ✓

✓
 10/7/2020
 SEC

1:54 PM

10/07/20

**Clearwater Underground Water Conservation
Reconciliation Summary
10505 - Cash - TexPool, Period Ending 09/30/2020**

	<u>Sep 30, 20</u>
Beginning Balance	507,106.07
Cleared Transactions	
Checks and Payments - 3 items	-102,500.00
Deposits and Credits - 1 item	56.27
Total Cleared Transactions	<u>-102,443.73</u>
Cleared Balance	<u><u>404,662.34</u></u>
Register Balance as of 09/30/2020	404,662.34
Ending Balance	404,662.34

1:52 PM

10/07/20

Clearwater Underground Water Conservation
Reconciliation Summary
10500 · Cash-TexPool Prime, Period Ending 09/30/2020

	<u>Sep 30, 20</u>
Beginning Balance	512,252.80
Cleared Transactions	
Checks and Payments - 3 items	-102,500.00
Deposits and Credits - 1 item	100.94
Total Cleared Transactions	<u>-102,399.06</u>
Cleared Balance	<u>409,853.74</u>
Register Balance as of 09/30/2020	409,853.74
Ending Balance	409,853.74

Employee Retirement - Item #6



SECURITY BENEFIT®

Summary

Calendar

Payroll

Participants

Loans

Withdrawals

Financials

Plan Information

As of:

10/06/2020

Balances:

\$126,489.54

YTD Contributions:

\$16,204.20

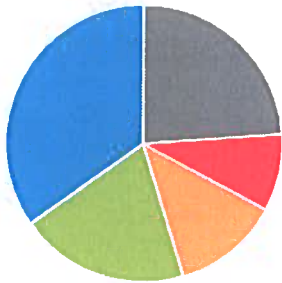
Participants

5

Plan Assets

Participation In Plan

View: [Asset Class](#)



Asset Class

- Stable Value 34.75%
- Large Cap 19.96%
- Small Cap 12.45%
- Mid Cap 8.94%
- Other 23.90%

Total Balance:

\$126,489.54

Clearwater Underground Water Conservation
All Payments Issued for Security Benefit
January through September 2020

Type	Num	Date	Amount
Jan - Sep 20			
Liability Check	3714	01/08/2020	1,620.42
Liability Check	3743	01/28/2020	1,620.42
Liability Check	3772	02/27/2020	1,620.42
Liability Check	3785	03/18/2020	1,620.42
Liability Check	3837	04/28/2020	1,620.42
Liability Check	3858	05/28/2020	1,620.42
Liability Check	3874	06/26/2020	1,620.42
Liability Check	3917	08/03/2020	1,620.42
Liability Check	3943	08/21/2020	1,620.42
Liability Check	3980	09/28/2020	1,620.42
			16,204.20

FY20 Budget Amend - Item #7

*Clearwater Underground
Water Conservation District*

STAFF REPORT

**Board Meeting
October 14, 2020**

**Agenda Item # 7
FY21 Budget Amendments**

Agenda Item # 7 :

Discuss, consider and take appropriate action if necessary, to approve the **FY20** line item budget amendments as requested.

Narrative:

The CUWCD Staff requests line item budget amendments to cover additional expenditure for the items listed below:

This is a simple adjustment between line items.

Vendor	Line Item	Invoice Amount	Available Funds	Amount Requested	New Balance	From	Available Funds	New Balance
City of Belton	55500-Water/Trash Pickup	\$197.09	\$142.89	\$54.20	\$197.09	55300-Internet	\$200.12	\$145.92
HACH	53150-Water Quality	\$271.72	\$150.30	\$121.42	\$271.72	53140-Monitor Well Exp	\$6,282.29	\$6,160.87
LRE	53130.4-Investigation	\$405.00	\$390.00	\$15.00	\$405.00	53130.6-Aquifer Mon. Well Tool	\$20.00	\$5.00

Recommendation: Staff recommends making the line item adjustments as requested.

Agenda Item #8
FY21 Collaborative
Research (LRE, Baylor, ARS)

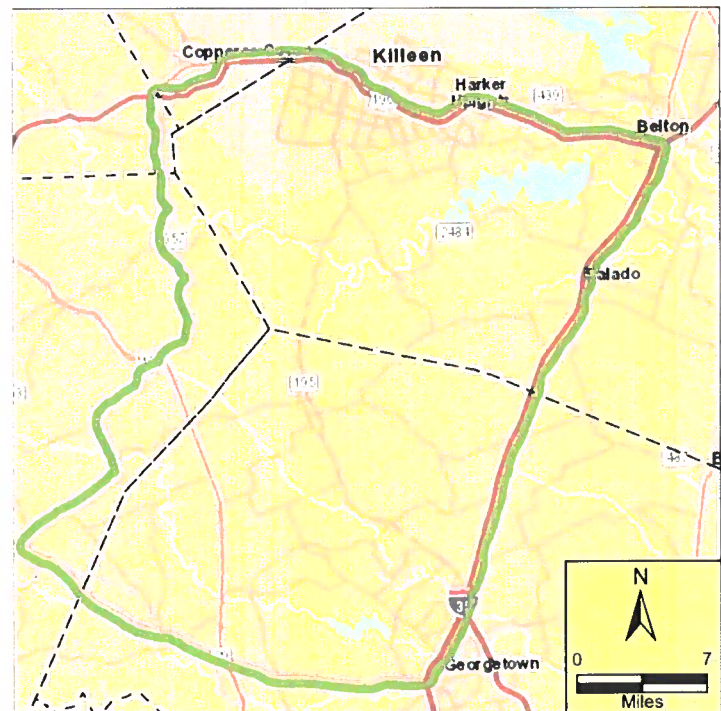
PROPOSED COLLABORATIVE STUDY FOCUSING ON SW BELL COUNTY

Presentation to
Clearwater Underground Water Conservation District

September 16, 2020

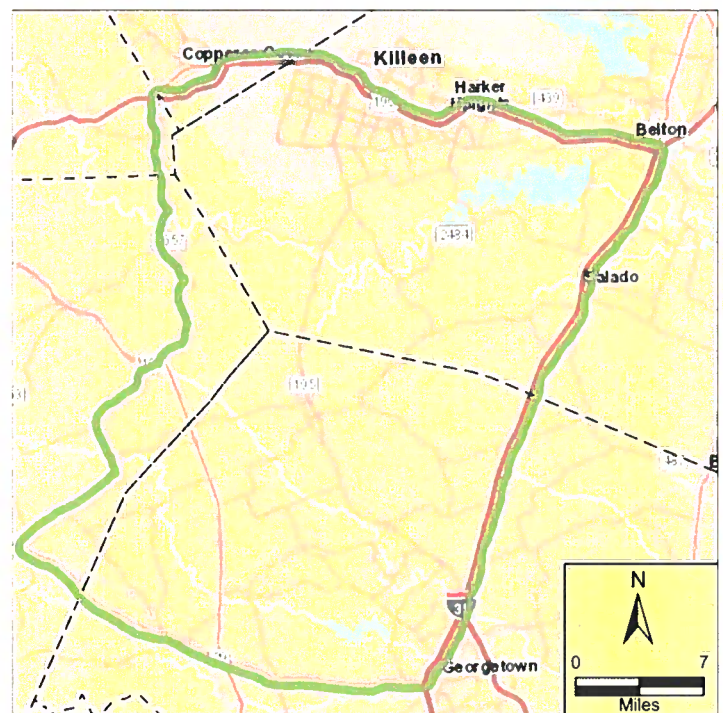
BACKGROUND

- Research confirms distinctly different hydrogeologic conditions
- Generally, research topic has been very focused
 - Allan R. Standen LLC – Geology and structure
 - Baylor University – Hydraulic characteristics
 - LRE Water – Water levels



PROPOSED COLLABORATION

- Bring together new and previous research
- Extend south into neighboring counties
 - Investigate structural controls
 - Subsurface flow into Bell County
- Complement information in the *Hydrogeologic Atlas of Southwest Travis County Central Texas*



PROJECT ROLES



- Coordinate Work
- Previous Research
- Water Levels
- Summary Report



- Hydrostratigraphy
- Structure
- 3D Model
- Report Sections



- Aquifer Hydraulics
- Aquifer Testing
- Water Quality
- Report Sections

PROJECT GOALS

- **Provide a succinct understanding of conditions**
- **Provide a consensus from three of CUWCD consultants**
 - Delineation of management areas/zones
 - Documentation of investigations in a single report



Memorandum

To: Mr. Dirk Aaron, General Manager –
Clearwater Underground Water Conservation District

From: Michael Keester, PG – LRE Water

Copy to: Dr. Joe Yelderma, PG – Baylor University
Allan Standen, PG – Allan R. Standen LLC

Date: September 16, 2020

Subject: Proposed scope of work to delineate potential management area(s)
and zone(s) in southwestern Bell County

The results of research directed by Clearwater Underground Water Conservation District (“CUWCD”) 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. However, the District’s consultants have generally each focused on specific hydrogeologic conditions rather than the system as a whole. For the Trinity Aquifer in southwestern Bell County, the primary research area for each of the District’s consultants was:

- Allan R. Standen LLC – Allan Standen focused on the geology and structure resulting in the development of the District’s 3D model;
- Baylor University – Dr. Joe Yelderma focused on the hydraulic characteristics through aquifer testing; and,
- LRE Water – I focused on pumping and changes in water levels in the aquifer layers

While we each have the expertise and capability to perform an investigation that incorporates each of the focus areas into a single evaluation, by conducting a collaborative project we are able to draw on each investigator’s experience to efficiently synthesize the results of our efforts. This proposed work would involve bringing together new research and the research projects conducted over the last several years to clearly delineate, based on available data, where the changes occur in the subsurface to create the distinct hydrogeologic conditions in southwestern Bell County. To accomplish the proposed work, we will focus on the study area shown in Figure 1 (study area delineation is approximate and may be modified based on data availability). The proposed study area

extends into northwestern Williamson County to allow for the investigation of the geology, structure, historical water levels, and hydraulic properties that will inform how groundwater may be moving through the subsurface into Bell County. In addition, the proposed study area extending into Williamson County will allow us to gather data that will complement the information presented in the *Hydrogeologic Atlas of Southwest Travis County Central Texas*^{*}.

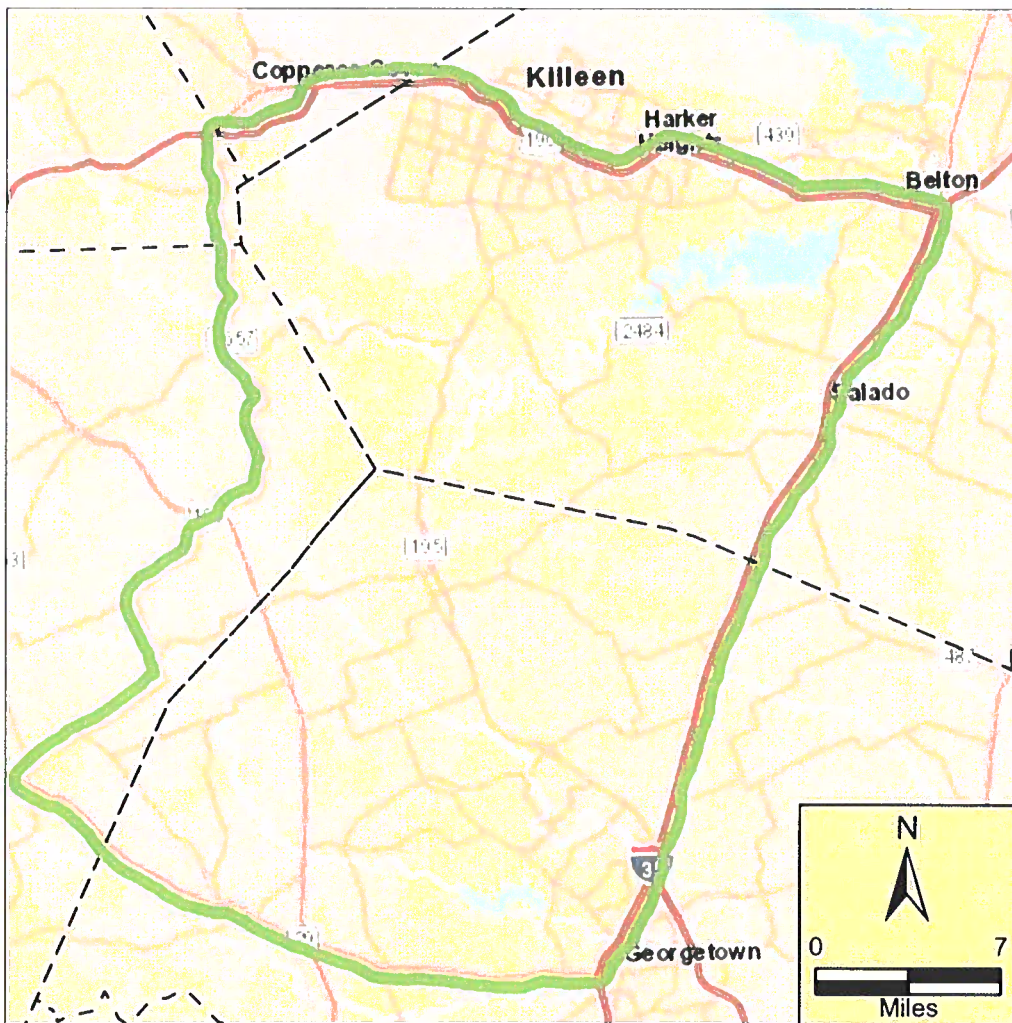


Figure 1. Generalized identification of the proposed study area.

^{*} Hunt, B.B., Cockrell, L.P., Gary, R.H., Vay, J.M., Kennedy, V., Smith, B.A., and Camp, J.P., 2020, Hydrogeologic Atlas of Southwest Travis County, Central Texas: BSEACD Report of Investigations 2020-0429, 80 p.

Based on our understanding of how the hydrogeologic conditions change, the District's consulting team will identify one or more proposed management areas and/or zones for the Board's consideration. We will also develop recommendations for incorporation of results or information into specific parts of the District Rules. The District's consultants have independently provided proposed work tasks for the upcoming fiscal year. As part of our work, we will also work collaboratively to develop a single summary report incorporating our synthesized results. The following identifies the general role of each consultant in the collaboration:

- LRE Water
 - Coordinate research activities between the three project participants
 - Integration of previous research as described in LRE proposed Task 2021.2 with a focus on southwestern Bell County
 - Integration of Trinity Aquifer drawdown analysis described in proposed Task 2021.5 with a focus on southwestern Bell County
 - Preparation of report sections on changes in water level, summary of previous reports, and integration of fiscal year 2021 investigation results
 - Compilation of the summary report from the three project participants
- Allan R. Standen LLC
 - Expand understanding of the hydrostratigraphy of the study area through an expansion of the analyses conducted during fiscal year 2020
 - Integrate existing mapped faults from previous reports and compare with faults identified in southwestern Bell County during fiscal year 2020
 - Update the 3D hydrostratigraphic model for CUWCD
 - Prepare report sections on the hydrostratigraphy and present results to the CUWCD Board
- Baylor University
 - Evaluate the hydraulic properties of the Hensell, Cow Creek, and Hosston formations in southwestern Bell County and other parts of the study area as data allow
 - Potentially conduct additional aquifer testing using one or more wells identified in the study area
 - Based on data availability, evaluate water quality to identify the differences in chemical signatures of groundwater produced from the Hensell, Cow Creek, and Hosston formations
 - Prepare report sections on the hydraulic properties and water quality

Mr. Dirk Aaron – Southwestern Bell County Joint Study
September 16, 2020
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The goal of our collaboration is to provide CUWCD with a succinct understanding of the hydrogeologic conditions in southwestern Bell County. The results presented will be a consensus of the understanding from three of the District's consultants regarding the potential delineation of management areas and/or zones based on the differing conditions. The final report will document our results and provide a basis for future management decisions regarding local groundwater resources.

Please let me know if you have any questions.



Proposal

To: Mr. Dirk Aaron

From: Allan Standen LLC and Michelle A. Sutherland LLC

Date: 9/9/2020

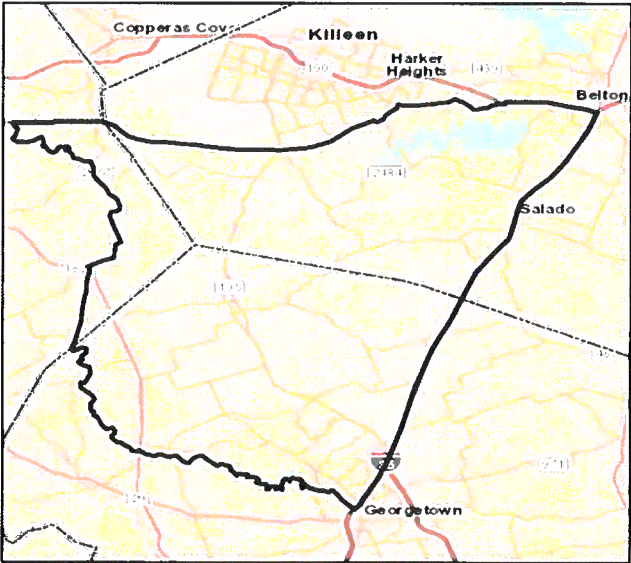
Purpose: 2020 thru 2021 Approved Tasks Report, \$35,000 budget, plus \$5,000 for Bell County 3D update

Fiscal year 2020 technical tasks provided valuable insight into the Southwest (SW) Bell County hydro-stratigraphic setting. These tasks uncovered the occurrence of structural controls, their potential impact on groundwater flow, and should be considered for future management decisions. Proposed fiscal year 2021 technical tasks will expand our understanding of the hydro-stratigraphy in this portion of the county which will provide a stratigraphic foundation for future management decisions.

The goals of fiscal year 2021 technical tasks are to provide the following:

1. Increase the districts understanding of the Middle Trinity production zones in SW Bell County.
2. Determine where structural controls in SW Bell and NW Williamson County are impacting local and regional groundwater flow.
3. Provide research for the Middle Trinity aquifer that can be used to guide policy decisions.

Proposed Study Area Outline



These goals will be achieved through the following technical tasks.

- Review all TDLR, TWDB and plotted TCEQ drilling reports in study area to identify Cow Creek Limestone occurrence and wells where Hensell sands are missing.
- Review all TDLR, TWDB drilling reports in study area to identify dominate production zone.



- Locate and analyze (geophysical log data (BRACS and Q-Logs) in Williamson County.
- Review all previously omitted TDLR, TWDB drilling reports for new formation picks in study area for the following, Glen Rose, Hensell, Cow Creek Limestone and Hosston.
- Identify fault trace lines with new data.
- Integrate LRE and Baylor water level and hydraulic flow data into stratigraphic 3D.

Data to be evaluated.

- TCEQ plotted well reports in Williamson Co. portion of study area.
- TDLR drilling reports currently not in the hydro-stratigraphic dataset for entire study area.
- Geophysical Logs (Q-Logs) in Williamson Co. portion of study area.
- TWDB GWDB drilling reports in Williamson Co. portion of study area.
- Central Texas GCD well data

3-D Models

Once the initial geologic picks have been made and a preliminary fault structure mapped, Michelle A. Sutherland LLC will post the data in a 3-D environment (Leapfrog Works®). The existing 3-D Bell County model will be updated and a SW Bell, W. Burnet and NW Williamson County 3D model (outline as illustrated above) will be created. Analysis in a 3-D space allows the team to consider and compare multiple interpretations of fault structure to create a defensible geologic model based on a variety of data sources. In addition to the geology, water level data and surfaces compiled by the District and LRE Water will be displayed in the geologic model to examine potential differences between aquifer units and to look for evidence of gradients and cross-formational flow.

The CUWCD District data along with TWDB water quality data will also be displayed within the geologic model, along with any water quality data available from the Central Texas GCD. Examining the water quality dataset along with fault structure may also yield insight into possible flow paths around or across fault structures (such as relay ramps) and/or identify potential recharge areas. The geologic model deliverable will be presented in an interactive viewer file that allows the end users to see the data along with the geologic surfaces, turn layers on and off, fade layers in and out, and slice the model in any orientation.

Deliverables

- 1) Figures that illustrate the following - Cow Creek Limestone Extent, wells without Hensell sands, Middle Trinity Structural top with fault control, Middle Trinity water levels.
- 2) Geodatabase with all GIS data.
- 3) A 2021 updated 3D model using new water wells and geophysical logs for Bell County
- 4) A localized 3D hydro-stratigraphic model with faulting of the SW Bell County study area.
- 5) Middle Trinity water levels compiled by the District and LRE illustrated in the 3D model.
- 6) Integrate Baylor pump test aquifer properties into 3D model
- 7) A formal report developed in collaboration with LRE and Baylor. ARS LLC will be responsible for hydro-stratigraphic and 3-D models discussion.





BAYLOR UNIVERSITY

To: Dirk Aaron
From: Joe C. Yelderman Jr.
Date: 10-17-2020

Trinity Aquifer Hydraulic Properties: Southwestern Bell County

Introduction/Purpose

Recent Trinity aquifer tests have revealed low transmissivity values in Southwestern Bell County. In addition, recent hydrogeological studies in this area have shown the Cow Creek formation to be potentially productive and the occurrence of faulting that appears to influence water levels. These recent findings indicate a need to improve our understanding of the Trinity aquifer in Southwestern Bell County and the surrounding area (including adjacent portions of Williamson and Burnet Counties) in order to provide effective management strategies. This proposal describes a study of the Trinity aquifer hydraulic properties related to the Hensell, Hosston, and Cow Creek formations in Southwestern Bell County.

Methods

1. Existing information

An investigation into existing literature and data regarding hydraulic properties of the Hensell, Hosston, and Cow Creek formations in Southwestern Bell County and adjacent portions of Williamson and Burnet Counties.

2. Existing wells

A study of existing wells which could be used for additional aquifer tests in the Hensell, Hosston, and/or Cow Creek formations. The potential influence of faulting will be given particular attention.

3. If possible

A. Use existing well monitoring data to assess aquifer properties.

B. Add monitoring devices to collect data for assessing aquifer properties on select wells.

4. Recommend areas, and possibly wells, for new aquifer tests in the study area.

5. If possible, conduct new aquifer tests in the area of interest and analyze the results.

Preliminary Budget Estimate

Methods 1,2,3A, and 4

\$7500

Methods 3B and 5 would add costs to the budget and but the amount would depend primarily on the types and number of monitoring devices, the location, duration, and types of aquifer tests conducted and analyzed.

\$?

Deliverables

1. A written report with figures and supporting data.
2. An oral presentation to the board.

Note: There may be a slightly different chemical signature to the wells completed in the Cow Creek Limestone versus the Hensell or Hosston sandstone formations. The existing chemistry (which I expect is sparse) could be investigated if the wells can be identified as Cow Creek influenced. I think the aquifer identification of the well completion would best be conducted by ARS-LLC since they are most familiar with this aspect of the area. Once they have identified the wells influenced by the CC, then the chemistry can be studied. Whether there is a need for more chemistry data would depend upon the initial investigation. This task could be accomplished for very little additional cost (\$500-\$1000?).

A handwritten signature in black ink, appearing to read "Joe C. Yelderman Jr.", written in a cursive style.

Joe C. Yelderman Jr.

FY21 Budget Amend - Item #9

*Clearwater Underground
Water Conservation District*

STAFF REPORT

**Board Meeting
October 14, 2020**

**Agenda Item # 9
FY21 Budget Amendments**

Agenda Item # 9 :

Discuss, consider and take appropriate action if necessary, to approve the **FY21** line item budget amendments as requested.

Narrative:

The CUWCD Staff requests a line item budget amendment, contingent on approval of agenda item #8, for the purpose of funding a collaborative research project for the southwest area of the District by LRE Water, Allen Standen LLC, and Baylor University related to the enhanced understanding of the Trinity Aquifer.

Vendor	Line Item	Invoice Amount	Available Funds	Amount Requested	New Balance	From	Available Funds	New Balance
TBD	53155-3D Visualization			\$35,000.00		Reserve Funds	\$814,516.08	\$779,516.08

Recommendation: Staff recommends making the line item adjustments as requested.