

**Public Hearing - Item #9b**  
(Amend Groundwater Mgmt Plan)

**Board Meeting  
October 11, 2023**

**Public Hearing Item #9b:  
Groundwater Management Plan**

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**Agenda Item 9b:** Hold Public Hearing on the proposed changes to the Management Plan:

Discuss, consider, take appropriate action, if necessary, to hold a public hearing to receive input on the proposed amendments to the District's Groundwater Management Plan as proposed to update Round 3 Desired Future Conditions set forth by GMA8 and language associated with management zones.

- a. Call to Order,
- b. Summary presentation of the proposed amendments to the CUWCD Management Plan as 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 to change the current DFC and MAGs.
- c. Public Comment on the Groundwater Management Plan proposed for adoption.
- d. Adjourn the hearing.

**Narrative:**

- 1) **September 29, 2020**, Texas Water Development Board (TWDB) per Chapter 26.1072 completed the preliminary review. Proposed revisions for the DFC MAG update to the Groundwater Management Plan (GMP) were provided to the GM and those corrections have been made (see attached).
- 2) Attached is a copy of the revised Management Plan that was pre-reviewed by TWDB,
- 3) **September 20<sup>th</sup>, 2023**, Posted at District Courthouse and District Headquarters, and on the District Website for review. (see attached)
- 4) **September 20<sup>th</sup>, 2023** Public notice (10-day notice) in both the Temple and Killeen newspapers. (See attached)
- 5) **September 20<sup>th</sup>, 2023**, per Chapter 36.1071(after proper notice) conduct public hearing.
- 6) **October 11, 2023**, in accordance with Chapter 36.1071, accept the revised plan by resolution after reviewing public comments
- 7) **October 12, 2023**, District will send one copy to TWDB by certified mail to the Executive Director of TWDB and one electronic version thus meeting the 90 day deadline for submitting the amended plan.

If no changes or concerns offered by the general public the board may approve the amended plan under agenda item:

- 9) Discuss, consider, and take appropriate action, if necessary, by resolution to approve the proposed amendments to the District Groundwater Management Plan.

FYI: Plan will need to be fully revised in accordance with law every five years in the fall of 2025.

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**12 Notices**

## Legal Notices

**NOTICE OF PUBLIC HEARING**  
The Clearwater Conservation District (CUWCD) will hold a public hearing and consider adopting proposed update with revisions to the District Groundwater Management Plan at 1:30 p.m., October 11, 2023, in the District Headquarters Building located at 700 Kennedy Court, Belton, Texas. Copies of the revised Management Plan are available for review at the CUWCD Headquarters Building and on the CUWCD website at <https://www.cuwcd.org>. Contact the CUWCD at 254/933-0120 for additional information.  
(Legal notice published in the Killeen Daily Herald on September 20, 2023.)

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## Legal Notices

**Clearwater Underground Water Conservation District Notice of Public Hearing on District Rules**  
Notice is hereby given that the Board of Directors of the Clearwater Underground Water Conservation District ("District") will hold a public hearing on Wednesday, October 11, 2023, 1:30 p.m. at the District Office located at 700 Kennedy Court, Belton, Texas 76513 to discuss, consider, and potentially act on proposed amendments to the District Rules to comply with action by the Texas Legislature. The proposed amendments to the District Rules include changes to (1) the District's procedure for finalizing a decision in a groundwater permit contested case hearing; (2) the list of wells exempt from permitting requirements; (3) the allowable rate at which the District may assess a transport fee; (4) the rulemaking process; (5) defines Well Completion Inspection and (6) additional non-substantive changes.  
All interested members of the public are invited to participate and comment orally and in writing. A copy of the proposed amendments to the District Rules may be requested by email at [schaepman@cuwcd.org](mailto:schaepman@cuwcd.org) and may be reviewed or copied on the District's website at <https://cuwcd.org/>.

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## Legal Notices

Application has been made with the Texas Alcoholic Beverage Commission for a Mixed Beverage Permit & Late Hours Certificate by Alexander's Music Box LLC dba Alexander's Music Box to be located at 313 N. 8th Street, Killeen, Bell Co., Texas. Manager Jessica A Gonzalez - Manager.  
(Legal notice published in the Killeen Daily Herald on September 20 & 21, 2023.)

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YESTER'S CONSTRUCTION COMPANY  
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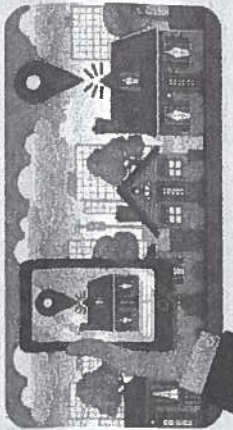
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**NOTICE OF PUBLIC HEARING**  
The Clearwater Underground Water Conservation District (CUWCD) will hold a public hearing and consider with respect to the District Groundwater Management Plan at 1:30 p.m., October 11, 2023 at the District Headquarters Building located at 700 Kennedy Court, Belton, Texas. Copies of the revised Management Plan are available for review at the CUWCD Headquarters Building and on the CUWCD website at <http://www.cuwcd.org>. Contact CUWCD at 254-935-0120 for additional information.

**RESOLUTION  
OF THE BOARD OF DIRECTORS OF THE  
CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT  
MEETING HELD OCTOBER 11, 2023**

**A RESOLUTION ADOPTING AMENDED MANAGEMENT PLAN**

**WHEREAS**, Clearwater Underground Water Conservation District is a political subdivision of the State of Texas and underground water conservation district created and operating under and by virtue of Article XVI, Section 59, of the Texas Constitution; Texas Water Code Chapter 36; the District's enabling act, Act of May 27, 1989, 71<sup>st</sup> Legislature, Regular Session, Chapter 524 (House Bill 3172), as amended by Act of April 25, 2001, 77<sup>th</sup> Legislature, Regular Session, Chapter 22 (Senate Bill 404), Act of May 7, 2009, 81<sup>st</sup> Legislature, Regular Session, Chapter 64 (Senate Bill 1755), and Act of May 27, 2015, 84<sup>th</sup> Legislature, Regular Session, Chapter 1196, Section 2 (Senate Bill 1336)(omnibus districts bill); and the applicable general laws of the State of Texas; and confirmed by voters of Bell County in 1999.

**WHEREAS**, under the direction of the Board of Directors, and in accordance with Texas Water Code §§ 36.1071 and 36.1072, Title 31, Chapter 356 of the Texas Administrative Code, and the District's rules, the District has timely undertaken the requisite five-year review of its existing Groundwater Management Plan, initially adopted by the District's Board on October 24, 2000, and certified by the Texas Water Development Board (the "TWDB") on February 21, 2001, and revised and readopted by the District's Board on December 13, 2005, and certified by TWDB on March 6, 2006; and revised and readopted by the District's Board on February 8, 2011 and certified by TWDB on April 13, 2011, and revised and readopted by the Districts Board on January 13, 2016 and certified by TWDB on February 19, 2016, and revised and readopted by the District's Board on January 9, 2019 and certified by TWDB on March 12, 2019 revised and readopted by the District's Board on November 11, 2020 and certified by TWDB on December 30, 2020;

**WHEREAS**, in conducting a the requisite five-year review of its existing Groundwater Management Plan, the District and its consultants reviewed, analyzed, and factored in the District's best available data, the groundwater availability modeling information provided by the TWDB, the technical information and estimates required by the TWDB, for Third Round of Desired Future Conditions GMA8 of the aquifers within the District, and the available site-specific information that has previously been provided by the District to the TWDB for review and comment;

**WHEREAS**, the District issued the appropriate notices and held a public hearing to receive public comments on the proposed amendments to the Groundwater Management Plan at the District's office located at 700 Kennedy Court, Belton, Texas, on October 11, 2022;

**WHEREAS**, the District obtained comments from the TWDB through a preliminary review process the District's Groundwater Management Plan conducted by TWDB staff, and the District has considered and addressed all such comments in the development of its Management Plan;

**WHEREAS**, the District requested, received, reviewed, and took into consideration comments from the Brazos River Authority and all other Surface Water Management Entities during preparation of its Groundwater Management Plan;

**WHEREAS**, the Board of Directors finds that the Groundwater Management Plan meets all of the requirements of Chapter 36 of the Texas Water Code, the District's enabling act, Chapter 356, Title 31, Texas Administrative Code, and the District's rules; and

**WHEREAS**, the Board of Directors, upon proper notice and in an open meeting, seeks to readopt its amended Groundwater Management Plan pursuant to Texas Water Code § 36.1072(e).

**NOW THEREFORE BE IT RESOLVED THAT:**

The above recitals are true and correct;

The Groundwater Management Plan is hereby readopted with those changes reflected in the proposed, draft Groundwater Management Plan before the District's Board of Directors on this date, along with those changes agreed upon during deliberation and after formal action on this date by the District's Board of Directors;

The Board of Directors further instructs the General Manager to compile a final, readopted Groundwater Management Plan, and file it with the TWDB's Executive Director within 60 calendar days from the date of re-adoption, pursuant to Texas Water Code § 36.1072(e); and

The Board of Directors and General Manager are further authorized to take any and all action necessary to coordinate with the TWDB as may be required in furtherance of TWDB's approval pursuant to the provisions of § 36.1072 of the Texas Water Code.

**AND IT IS SO ORDERED.**

Upon motion duly made by \_\_\_\_\_, and seconded by Director \_\_\_\_\_, and upon discussion, the Board of Directors voted \_\_ in favor and \_\_ opposed, \_\_ abstained, and \_\_ absent, and the motion thereby PASSED on this 11th day of October 2023.

**CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT**

By: \_\_\_\_\_  
Leland Gersbach, Board President

ATTEST:

\_\_\_\_\_  
C. Gary Young, Board Secretary  
Dirk Aaron, Assistant Secretary

CUWCD Notifications  
Per TWDB Instructions from Stephen Allen  
August 20, 2023



**Instructions for scheduling the groundwater management plan adoption hearing (both full and MAG-amended plans), and submitting the adopted plan to the Texas Water Development Board for approval**

- 1) Post notice of the groundwater management plan adoption hearing using one of the two guidelines below from the Texas Open Meetings statute and include copies of the postings with your final plan submittal. Copies can be loose or incorporated into an appendix. The posting notice should be at least three (3) days ahead of the adoption hearing date unless your district rules require a longer notice period. You can also post to newspapers of general circulation but that is not required.

**Sec. 551.053. DISTRICT OR POLITICAL SUBDIVISION EXTENDING INTO FOUR OR MORE COUNTIES: NOTICE TO PUBLIC, SECRETARY OF STATE, AND COUNTY CLERK; PLACE OF POSTING NOTICE.**

(a) The governing body of a water district or other district or political subdivision that extends into four or more counties shall:

- (1) post notice of each meeting at a place convenient to the public in the administrative office of the district or political subdivision;
- (2) provide notice of each meeting to the secretary of state; and
- (3) either provide notice of each meeting to the county clerk of the county in which the administrative office of the district or political subdivision is located or post notice of each meeting on the district's or political subdivision's Internet website.

(b) The secretary of state shall post the notice provided under Subsection (a)(2) on the Internet. The secretary of state shall provide during regular office hours a computer terminal at a place convenient to the public in the office of the secretary of state that members of the public may use to view the notice.

(c) A county clerk shall post a notice provided to the clerk under Subsection (a)(3) on a bulletin board at a place convenient to the public in the county courthouse.

Added by Acts 1993, 73rd Leg., ch. 268, Sec. 1, eff. Sept. 1, 1993. Amended by Acts 1999, 76th Leg., ch. 622, Sec. 3, eff. Sept. 1, 1999.

Amended by:

Acts 2015, 84th Leg., R.S., Ch. 809 (H.B. 3357), Sec. 1, eff. September 1, 2015.



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**Clearwater Underground Water Conservation District**  
**Notice of Public Hearing on Groundwater Management Plan**

SHELLEY COSTON  
CLERK, BELTON CO. TX

The Clearwater Underground Water Conservation District (CUWCD) will hold a public hearing and consider adopting the proposed update with revisions to the District Groundwater Management Plan at 1:30 p.m., October 11, 2023, at the District Office located at 700 Kennedy Court, Belton, Texas. Copies of the revised Management Plan are available for review at the CUWCD District Office Building and on the CUWCD website at <https://www.cuwcd.org>. Contact the CUWCD at 254/933-0120 for additional information.

Dated: September 20, 2023

By: 

Dirk Aaron

General Manager

Clearwater Underground Water Conservation District

TWDB Email Communications  
GMP Review Discussion  
Stephen Allen

## Dirk Aaron

---

**From:** Stephen Allen <Stephen.Allen@twdb.texas.gov>  
**Sent:** Sunday, August 20, 2023 7:01 PM  
**To:** Dirk Aaron  
**Cc:** 'Cole Ruiz'; 'James Beach'; Tristin Smith  
**Subject:** RE: Amending Clearwater UWCD's Groundwater Management Plan to Reflect Round 3 New DFC's and MAG's  
**Attachments:** Clearwater Pre-review 1.docx; Final instructions 2.docx

### External Email

Dirk- There are no required items missing from the plan; only one suggested item that you can revise if you wish. So, you are ready to schedule your public hearing (usually just an agenda item in a regular meeting), adopt the MAG-amended plan, and submit the final version to the TWDB. I've attached here our recommendation report and instructions for submitting the plan. Let me know if any questions come up.

---

**From:** Dirk Aaron <daaron@cuwcd.org>  
**Sent:** Friday, July 28, 2023 11:56 AM  
**To:** Stephen Allen <Stephen.Allen@twdb.texas.gov>  
**Cc:** 'Cole Ruiz' <cruiz@lglawfirm.com>; 'James Beach' <james.beach@advancedgw.com>; Tristin Smith <tsmith@cuwcd.org>  
**Subject:** RE: Amending Clearwater UWCD's Groundwater Management Plan to Reflect Round 3 New DFC's and MAG's  
**Importance:** High

**External: Beware of links/attachments.**

Stephen,  
Greetings from Clearwater.

Thanks for the instructions on how we need to amend our GMP to reflect Round 3.  
Our current GMP can be viewed at: [https://cuwcd.org/wp-content/uploads/2020/12/CUWCD\\_Final\\_GMP\\_11Nov2020.pdf](https://cuwcd.org/wp-content/uploads/2020/12/CUWCD_Final_GMP_11Nov2020.pdf)

I have attached the redline version as a word and as a pdf document in hopes this assists you as you review it for our district.

I have also attached the two appendix items that will be new to the plan.

We had hoped to take these proposed amendments to a public hearing on August 23<sup>rd</sup> but realize this might not afford you ample time for your review.

If this timeline does not work we can easily push the public hearing to September 13<sup>th</sup>, thus our postings would go out early mid to late August.

The day we conduct the prescribed public hearing will also be the same day we plan to amend our district rules to reflect required changes per Chapter 36 as a result of the 88<sup>th</sup> legislative session.

I will await your thoughts.

Thanks again for taking such care and interest in all of the management plans.

Dirk Aaron  
General Manager  
Clearwater Underground Water Conservation District  
[daaron@cuwcd.org](mailto:daaron@cuwcd.org)  
<http://www.cuwcd.org>  
254-933-0120 office  
254-534-4047 cell  
254-933-8396 fax



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---

**From:** Stephen Allen <[Stephen.Allen@twdb.texas.gov](mailto:Stephen.Allen@twdb.texas.gov)>  
**Sent:** Monday, June 26, 2023 10:33 AM  
**To:** Dirk Aaron <[daaron@cuwcd.org](mailto:daaron@cuwcd.org)>  
**Subject:** RE: Amending Clearwater UWCD's Groundwater Management Plan to Reflect Round 3 New DFC's and MAG's

External Email

Here you go Dirk- I've attached the instructions for organizing your plan for submittal as a pre-review. Once we check it and confirm you have everything I will give you the go ahead and provide you with all the instructions for submittal of the final version of the MAG-amended plan. Just email me when any questions come up.

Thanks  
S. Allen

Stephen Allen, P.G., Geoscientist  
Groundwater Technical Assistance Team  
Groundwater Resources  
Texas Water Development Board  
P. O. Box 13231  
1700 North Congress Avenue  
Austin, Texas 78711-3231  
[stephen.allen@twdb.texas.gov](mailto:stephen.allen@twdb.texas.gov)  
512-463-7317

**From:** Dirk Aaron <[daaron@cuwcd.org](mailto:daaron@cuwcd.org)>

**Sent:** Monday, June 26, 2023 9:52 AM

**To:** Stephen Allen <[Stephen.Allen@twdb.texas.gov](mailto:Stephen.Allen@twdb.texas.gov)>

**Cc:** 'Cole Ruiz' <[cruiz@lglawfirm.com](mailto:cruiz@lglawfirm.com)>; 'James Beach' <[james.beach@advancedgw.com](mailto:james.beach@advancedgw.com)>

**Subject:** Amending Clearwater UWCD's Groundwater Management Plan to Reflect Round 3 New DFC's and MAG's

**External: Beware of links/attachments.**

Stephen,  
Hope you are doing well.

I am reaching out to discuss the need for our District to amend and adopt changes to our Groundwater Management Plan to reflect the round 3 of joint planning for GMA8. We have new DFC's and MAG's.

I am hoping to get that to public hearing on August 23<sup>rd</sup> the same day we will set our budget, new tax rate and amend our rules to reflect changes based on legislative changes in the 88R Session.

Will I need to send those changes to you for review as I did in the past and if so can you accomplish your review in ample time for me to post and make the proposed changes available to the public?

Sincerely,

Dirk Aaron  
General Manager  
Clearwater Underground Water Conservation District  
[daaron@cuwcd.org](mailto:daaron@cuwcd.org)  
<http://www.cuwcd.org>  
254-933-0120 office  
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## Instructions to create an amended groundwater management plan to reflect receipt of your new MAG report from the TWDB (06-05-23)

Within your current plan please revise references to the older MAG with the newer MAG in the:

1. table of contents (optional but recommended),
2. MAG section in the text (required),
3. entries in the page of references if you have one (optional but recommended),
4. appendix (unless the data is fully presented in the text), and
5. appendix title page (optional but recommended)

**Please proofread your plan thoroughly.** If you present your current MAG report in an appendix, please replace it with the new MAG report (unless you feel it is overly long and would just like to present the relevant numbers in the text of the plan). You can also present the MAG values in the text and include the report in an appendix. Once you have prepared this amended plan, please email it to Stephen Allen and we will pre-review it and send you our recommendation report which will list any required revisions needed to prepare for submission of the final version. The final amended plan is to be submitted to us within 60 days of adoption by the district board.

You can include the new DFCs in the plan if you wish but the presentation of DFCs is not required for an administratively complete plan. However, if you already present the DFCs in your current plan you might want to update them to make the plan more complete. When you receive approval of your MAG-amended plan it will not reset the existing five-year due date for your next full plan submittal.

Please feel free to email me with any questions or concerns. **Email is best so I can see our continuing conversation in one place.**

Stephen Allen, P.G.  
Groundwater Technical Assistance Department  
Groundwater Resources  
Texas Water Development Board  
P. O. Box 13231  
1700 North Congress Avenue  
Austin, Texas 78711-3231  
[stephen.allen@twdb.texas.gov](mailto:stephen.allen@twdb.texas.gov)  
512-463-7317

## Dirk Aaron

---

**From:** Stephen Allen <Stephen.Allen@twdb.texas.gov>  
**Sent:** Thursday, October 5, 2023 11:28 AM  
**To:** Dirk Aaron  
**Subject:** I got your phone message of 10/05 concerning surface water entities

### External Email

Dirk- Got your phone message. Please send your questions about surface water entities to [Robert.Bradley@twdb.texas.gov](mailto:Robert.Bradley@twdb.texas.gov). He is the person who composes the lists. He'll be able to address those questions.

Thanks  
S. Allen

---

**From:** Stephen Allen  
**Sent:** Thursday, October 5, 2023 10:00 AM  
**To:** Dirk Aaron <daaron@cuwcd.org>  
**Subject:** RE: Clearwater UWCD Management Plan Update set for October 11, 2023

That all works for me Dirk.

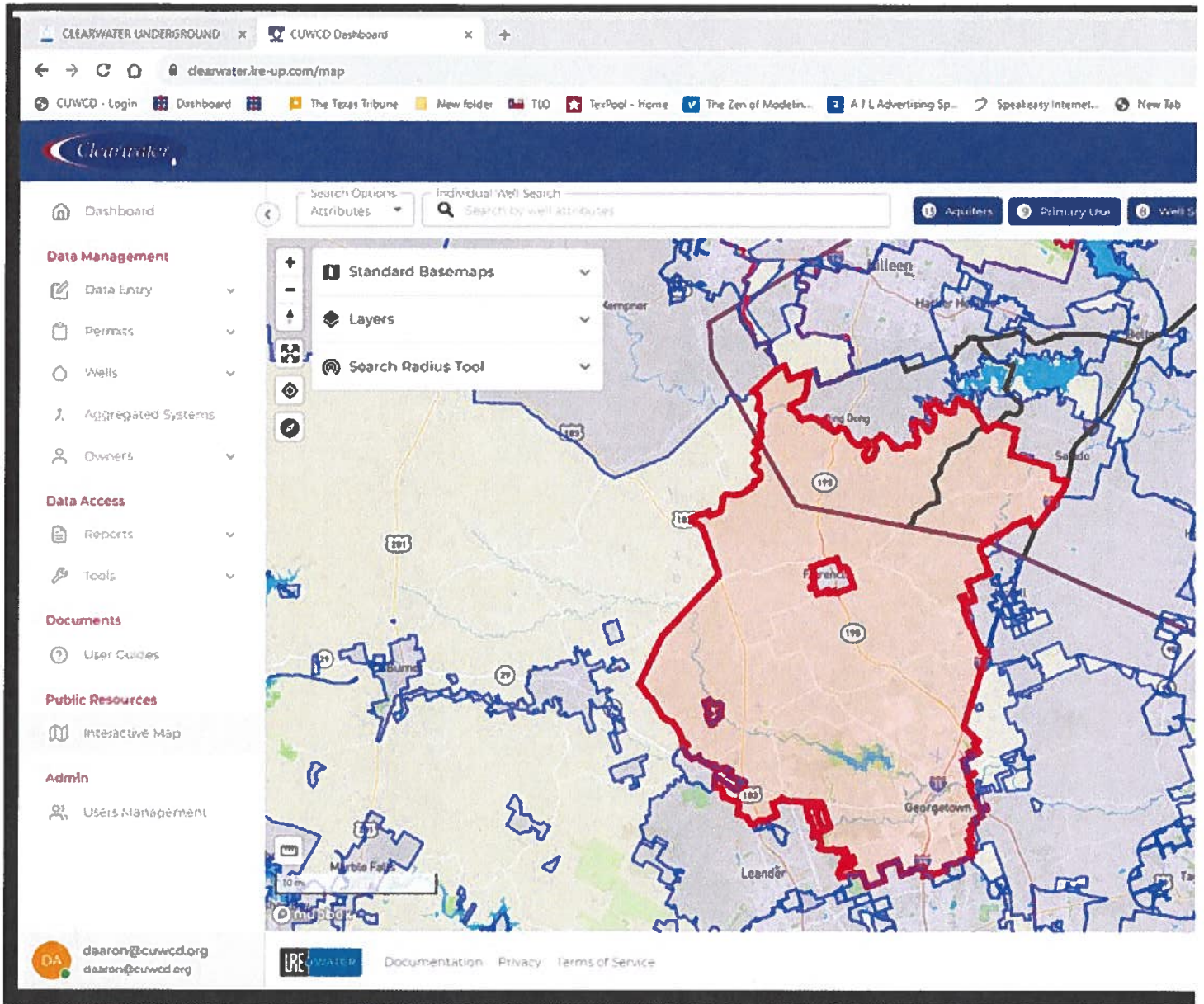
S. Allen

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**From:** Dirk Aaron <[daaron@cuwcd.org](mailto:daaron@cuwcd.org)>  
**Sent:** Thursday, October 5, 2023 8:43 AM  
**To:** Stephen Allen <[Stephen.Allen@twdb.texas.gov](mailto:Stephen.Allen@twdb.texas.gov)>  
**Subject:** RE: Clearwater UWCD Management Plan Update set for October 11, 2023

**External: Beware of links/attachments.**

Stephen,  
Thanks for the 2<sup>nd</sup> preview and requested changes.  
The suggestion to add the Paluxy on page 10 has been reviewed by our geoscientist as well as the Board and our conclusion is to forgo that seeing that geologically the Paluxy is not identifiable in our district.  
We will incorporate all of the additions per Check List #13 but for the record Chisholm Trail SUD does not exist and is now City of Georgetown Utilities CCN 12369.



Thanks again for your guidance and support of our district.

Dirk Aaron  
General Manager  
Clearwater Underground Water Conservation District  
[daaron@cuwcd.org](mailto:daaron@cuwcd.org)  
<http://www.cuwcd.org>  
254-933-0120 office  
254-534-4047 cell  
254-933-8396 fax



\*\*\*\*ATTENTION TO PUBLIC OFFICIALS AND OFFICIALS WITH OTHER INSTITUTIONS SUBJECT TO THE OPEN MEETINGS ACT \*\*\*\*  
A "REPLY TO ALL" OF THIS EMAIL COULD LEAD TO VIOLATIONS OF THE TEXAS OPEN MEETINGS ACT. PLEASE REPLY ONLY TO LEGAL COUNSEL.



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**From:** Stephen Allen <[Stephen.Allen@twdb.texas.gov](mailto:Stephen.Allen@twdb.texas.gov)>  
**Sent:** Wednesday, October 4, 2023 4:25 PM  
**To:** Dirk Aaron <[daaron@cuwcd.org](mailto:daaron@cuwcd.org)>  
**Subject:** RE: Clearwater UWCD Management Plan Update set for October 11, 2023

**External Email**

Dirk- We went over the plan and created a **pre-review 2 recommendation report for you**. I've also attached the instructions for posting the meeting, adopting, and submitting the final version to the TWDB. Let me know if any questions come up. Some or all of the surface water entities you already contacted may be on the list we included in the recommendation report so you don't need to contact them again.

Thanks  
Stephen Allen

---

**From:** Dirk Aaron <[daaron@cuwcd.org](mailto:daaron@cuwcd.org)>  
**Sent:** Thursday, September 21, 2023 3:49 PM  
**To:** [439water@439watersupply.com](mailto:439water@439watersupply.com); [bsmith@embarqmail.com](mailto:bsmith@embarqmail.com); [r.garrett@wcid1.org](mailto:r.garrett@wcid1.org); [belcountywater@embarqmail.com](mailto:belcountywater@embarqmail.com); [dlservice@farm-market.net](mailto:dlservice@farm-market.net); [dlservice@farm-market.net](mailto:dlservice@farm-market.net); [ctwscgm@embarqmail.com](mailto:ctwscgm@embarqmail.com); [gsmith@cityoftroy.us](mailto:gsmith@cityoftroy.us); [Michelle@dogridgewsc.com](mailto:Michelle@dogridgewsc.com); [eastbellwsc@embarqmail.com](mailto:eastbellwsc@embarqmail.com); [kyle@elmcreekwatersupply.com](mailto:kyle@elmcreekwatersupply.com); [gm@jswatersupply.com](mailto:gm@jswatersupply.com); [bruce@kempnerwsc.com](mailto:bruce@kempnerwsc.com); [dlservice@farm-market.net](mailto:dlservice@farm-market.net); [dboniface@moffatwatersupply.com](mailto:dboniface@moffatwatersupply.com); [freienterprises@embarqmail.com](mailto:freienterprises@embarqmail.com)  
**Cc:** Tristin Smith <[tsmith@cuwcd.org](mailto:tsmith@cuwcd.org)>; Stephen Allen <[Stephen.Allen@twdb.texas.gov](mailto:Stephen.Allen@twdb.texas.gov)>  
**Subject:** Clearwater UWCD Management Plan Update set for October 11, 2023  
**Importance:** High

**External: Beware of links/attachments.**

September 20, 2023

TO: Bell County Surface Water Management Entities (via email)

RE: Revised Management Plan

Dear Manager:

The Clearwater Underground Water Conservation District (CUWCD) is conducting a review of its management plan as required by Texas Water Code (TWC) Chapter 36.1072(e). Standard revisions are proposed to update this plan. One major component of the plan is evidence of its coordination with surface water management entities pursuant to TWC 36.1071 (a):

*Evidence that following notice and hearing the Clearwater Underground Water Conservation District coordinated in the development of its Management plan with surface water management entities.*

The draft of the revised management plan is at located at <https://cuwcd.org/district-management-plan/> and notice will hold a public hearing on October 11, 2023 at 1:30 p.m. at our District Headquarters located at 700

Kennedy Court in Belton. We are looking forward to your input regarding this plan. After your review, please provide us with a letter confirming your review of the revised plan and any comments or concerns you may have.

The District will after conducting the public hearing of the draft plan on October 11, 2023, will deliberate the same day for final adoption of all proposed and agreed upon revisions to the plan at our District Headquarters located at 700 Kennedy Court in Belton.

We are looking forward to your input regarding this plan. After your review, please provide us with a letter confirming your review of the revised plan and any comments or concerns you may have.  
Sincerely,

Dirk Aaron  
General Manager  
Clearwater Underground Water Conservation District  
[daaron@cuwcd.org](mailto:daaron@cuwcd.org)  
<http://www.cuwcd.org>  
254-933-0120 office  
254-534-4047 cell  
254-933-8396 fax



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TWDB Pre-Review #1  
Recommendations Report from Stephen Allen  
CUWCD Groundwater Management Plan

**Clearwater UWCD MAG-Amended  
Groundwater Management Plan  
Pre-Review 1 Recommendation Report  
08/20/2023 (SA,JP)**

This report lists the following types of feedback for your consideration:

- **required changes** for administrative completeness,
- **suggested changes** to improve readability, accuracy, or understanding

**Required** elements of a groundwater management plan can be found in this checklist:

[www.twdb.texas.gov/groundwater/docs/GCD/GMPChecklist0113.pdf](http://www.twdb.texas.gov/groundwater/docs/GCD/GMPChecklist0113.pdf). If you disagree with any of the **required** elements, please contact us to discuss. If you disagree with any of the **suggested** items, you may disregard them.

Contact information: Stephen Allen, [stephen.allen@twdb.texas.gov](mailto:stephen.allen@twdb.texas.gov), 512-463-7317

This Pre-Review 1 Recommendation Report addresses the groundwater management plan submitted by the Clearwater UWCD on July 28, 2023. The policies, plans, and opinions in the District Groundwater Management Plan represent those of the District, not those of the Texas Water Development Board.

**Required changes (listed by checklist item)**

**No required changes**

**Suggested change**

On page 10, section 2a, please consider changing the desired future condition of the Paluxy Aquifer from 0 acre-feet to the correct value which is 17 acre-feet. This is only a suggested item because presenting the desired future conditions is not a requirement for an administratively complete groundwater management plan. It is only required that in the goal section the district indicates how it will address the desired future conditions regardless of what they are.

TWDB Pre-Review #2  
Recommendations Report from Stephen Allen  
CUWCD Groundwater Management Plan

**Clearwater UWCD MAG-Amended  
Groundwater Management Plan  
Pre-Review 2 Recommendation Report  
10/04/2023 (SA,JP)**



This report lists the following types of feedback for your consideration:

- **required changes** for administrative completeness,
- **suggested changes** to improve readability, accuracy, or understanding

**Required** elements of a groundwater management plan can be found in this checklist:

[www.twdb.texas.gov/groundwater/docs/GCD/GMPChecklist0113.pdf](http://www.twdb.texas.gov/groundwater/docs/GCD/GMPChecklist0113.pdf). If you disagree with any of the **required** elements, please contact us to discuss. If you disagree with any of the **suggested** items, you may disregard them.

Contact information: Stephen Allen, [stephen.allen@twdb.texas.gov](mailto:stephen.allen@twdb.texas.gov), 512-463-7317

This Pre-Review 2 Recommendation Report addresses the groundwater management plan submitted by the Clearwater UWCD on September 21, 2023. The policies, plans, and opinions in the District Groundwater Management Plan represent those of the District, not those of the Texas Water Development Board.

## **Required changes (listed by checklist item)**

### **Checklist Items 3-5: Groundwater Availability Model values**

On page 10 in the modeled available groundwater section, please change GAM Run 15-003 MAG to its correct title which is GAM Run 15-003 because it is not a MAG report, it is a groundwater availability model report.

### **Checklist Item 13: Was evidence that following notice and hearing, the District coordinated in the development of its management plan with regional surface water management entities?**

Once the final version of the groundwater management plan is ready please transmit a copy to the surface water entities within your district by email (usually including a weblink or attachment addressed to multiple recipients) or mail (usually an individual letter to each recipient with a weblink). Include evidence of this in the groundwater management plan when you submit the final version to the TWDB. These are the surface water entities within your district:

- Bell County MUD 1
- Bell County MUD 2
- Bell County WCID 1
- Bell County WCID 2
- Bell County WCID 3
- Bell County WCID 5
- Bell County WCID 6
- Brazos River Authority
- Chisholm Trail SUD
- Donahoe Creek Watershed Authority
- City of Gatesville
- City of Lampasas
- City of Temple
- City of Killeen
- City of Belton

As defined by TWDB Rules, Surface Water Management Entities--Political subdivisions as defined by Texas Water Code Chapter 15 and identified from Texas Commission on Environmental Quality records that are granted authority under Texas Water Code Chapter 11 to **store, take, divert, or supply surface water either directly or by contract for use within the boundaries of a district.**

Texas Water Code Chapter 15 defines political subdivisions as a city, county, district or authority created under Article III, Section 52, or Article XVI, Section 59, of the Texas Constitution, any other political subdivision of the state, any interstate compact commission to which the state is a party, and any nonprofit water supply corporation created and operating under Chapter 67.

## Suggested change

### Page 10

In section 2a, for a complete plan, please consider changing the desired future condition of the Paluxy Aquifer from 0 acre-feet to the correct value which is 17 acre-feet. This is only a suggested item because presenting the desired future conditions is not a requirement for an administratively complete groundwater management plan. The only requirement for DFCs in the plan is the goal of how you will address the DFCs regardless of what they are.

**TABLE 1. DESIRED FUTURE CONDITIONS IN GROUNDWATER MANAGEMENT AREA (GMA) 8 SUMMARIZED BY COUNTY FOR THE NORTHERN TRINITY AND WOODBINE AQUIFERS. VALUES REPRESENT AVERAGE DRAWDOWN IN FEET BETWEEN JANUARY 1, 2010, AND DECEMBER 31, 1980.**

County	Woodbine	Paluxy	Glen Rose	Twin Mountains	Travis Peak	Hensell	Hosston	Antlers
Bell	—	17	83	—	333	145	375	—
Bosque	—	6	53	—	189	139	232	—
Bowie	—	—	—	—	—	—	—	—
Brown	—	—	1	—	2	1	1	2
Burnet	—	—	2	—	19	7	21	—
Callahan	—	—	—	—	—	—	—	1
Collin	482	729	366	560	—	—	—	596
Comanche	—	—	2	—	4	2	3	12

WSC	Contact	Phone	Address	City	State	Zip	Email
439 WSC	Jamie Davlin	254-933-2133	5041 West Dr	Belton	TX	76513	<a href="mailto:439water@439watersupply.com">439water@439watersupply.com</a>
Armstrong WSC	Billy James Smith	254-657-2429	P.O. Box 155	Holland	Texas	76534	<a href="mailto:bsmith@embarqmail.com">bsmith@embarqmail.com</a>
Bell County MUD #1	Roger Hunter	512-435-2300	100 Congress Avenue	Austin	Texas	78701	
Bell County MUD #2	Roger Hunter	512-435-2300	100 Congress Avenue	Austin	Texas	78701	
Bell County WCID #1	Ricky Garrett	254-591-9243	201 S. 38th Street	Killeen	Texas	76543	<a href="mailto:r.garrett@wcid1.org">r.garrett@wcid1.org</a>
Bell County WCID #2	Bill Easley	254-982-4685	P.O. Box 338	Little River	Texas	76554	<a href="mailto:belcountwater@embarqmail.com">belcountwater@embarqmail.com</a>
Bell County WCID #3	Blake Stapp	254-771-0061	303 N Main Street	Nolanville	Texas	76559	<a href="mailto:bstapp@lms-cpa.com">bstapp@lms-cpa.com</a>
Bell County WCID #5	Robert Jekel	254-697-4016	P. O. Drawer 150	Cameron	Texas	76520	<a href="mailto:dbservice@farm-market.net">dbservice@farm-market.net</a>
Bell County WCID #6	Glen Grandy	254-290-0222	P.O. Box 817	Killeen	Texas	76540	
Bell Milam Falls WSC	Robert Jekel	254-697-4016	P. O. Drawer 150	Cameron	Texas	76520	<a href="mailto:dbservice@farm-market.net">dbservice@farm-market.net</a>
Central Texas WSC	Lee Kelley	254-698-3583	4020 Lakecliff Drive	Harker Heights	Texas	76548	<a href="mailto:ctwscgm@embarqmail.com">ctwscgm@embarqmail.com</a>
City of Troy	Gary O. Smith	254-938-2505	P.O. Box 389	Troy	Texas	76579	<a href="mailto:gsmith@cityoftroy.us">gsmith@cityoftroy.us</a>
Dog Ridge WSC	Michelle	254-939-6533	P.O. Box 232	Belton	Texas	76513	<a href="mailto:Michelle@dogridgewsc.com">Michelle@dogridgewsc.com</a>
Donahoe Creek Watershed Authority	Jon Fischer	254-527-3271	PO Box Q	Bartlett	Texas	76511	
East Bell WSC	Cheryl Walden	254-985-2611	16490 Hwy 53	Temple	Texas	76501	<a href="mailto:eastbellwsc@embarqmail.com">eastbellwsc@embarqmail.com</a>
Elm Creek WSC	Kyle Bloodworth	254-853-3838	603 Avenue E.	Moody	Texas	76557	<a href="mailto:kyle@elmcreekwatersupply.com">kyle@elmcreekwatersupply.com</a>
Jarrell Schwertner WSC	Joe Simmons	903-391-2730	P.O. Box 40	Jarrell	Texas	76537	<a href="mailto:gm@iswatersupply.com">gm@iswatersupply.com</a>
Kempner WSC	Bruce Sorenson	512-932-3701	PO Box 103	Kempner	Texas	76539	<a href="mailto:bruce@kempnerwsc.com">bruce@kempnerwsc.com</a>
Little Elm Valley WSC	Robert Jekel	254-697-4016	P. O. Drawer 150	Cameron	Texas	76520	<a href="mailto:dbservice@farm-market.net">dbservice@farm-market.net</a>
Moffat WSC	Damon Boniface	254-986-2457	5456 Lakeaire Blvd	Temple	Texas	76502	<a href="mailto:dboniface@moffatwatersupply.com">dboniface@moffatwatersupply.com</a>
Oenavile & Belfalls WSC	Randy Frei	254-985-2243	11821 State Hwy 53	Temple	Texas	76501	<a href="mailto:freienterprises@embarqmail.com">freienterprises@embarqmail.com</a>
Pendleton WSC	Velva Moody	254-773-5876	P.O. Box 100	Pendleton	Texas	76564	<a href="mailto:pwsc@mygrande.net">pwsc@mygrande.net</a>
Salado WSC	Ricky Preston	254-947-5425	P.O. Box 128	Salado	Texas	76571	<a href="mailto:swsc1@embarqmail.com">swsc1@embarqmail.com</a>
The Grove WSC	Amy Veazey	254-865-5567	1903 Straws Mills Rd	Gatesville	Texas	76528	<a href="mailto:thegrovwsc@icloud.com">thegrovwsc@icloud.com</a>
West Bell County WSC	Bob Whitson	254-634-1727	4201 Chaparral Road	Killeen	Texas	76542	<a href="mailto:westbellwater@hotmail.com">westbellwater@hotmail.com</a>
Brazos River Authority	David Collinsworth	254-761-3100	4600 Cobbs Drive	Waco	Texas	76710	<a href="mailto:david.collinsworth@brazos.org">david.collinsworth@brazos.org</a>
City of Bartlett	Sabra Davis	254-527-0196	P.O. Drawer H	Bartlett	Texas	76511	<a href="mailto:cityadmin@bartlett-tx.us">cityadmin@bartlett-tx.us</a>
City of Belton	Matthew Bates	254-933-5818	P.O. Box 120	Belton	Texas	76513	<a href="mailto:MBates@BeltonTexas.Gov">MBates@BeltonTexas.Gov</a>
City of Gatesville	Scott Albert	254-290-0545	803 Main Street	Gatesville	Texas	76528	<a href="mailto:salbert@gatesvilletx.com">salbert@gatesvilletx.com</a>
City of Harker Heights	David Mitchell	254-953-5600	305 Millers Crossing	Harker Heights	Texas	76548	<a href="mailto:dmitchell@harkerheights.gov">dmitchell@harkerheights.gov</a>
River Farm MUD #1	Rex Baird	972-788-1600	16000 North Dallas Parkway, Suite 350	Dallas	Texas	75248	<a href="mailto:rfmud1@districtdirectory.org">rfmud1@districtdirectory.org</a>
City of Holland	Johnny Kallus	254-657-2460	P.O. Box 157	Holland	Texas	76534	<a href="mailto:jkallus@cityofholland.org">jkallus@cityofholland.org</a>
City of Lampasas	Finley deGraffenried	512-556-6831	312 E. Third St.	Lampasas	Texas	76550	<a href="mailto:finley@cityoflampasas.com">finley@cityoflampasas.com</a>
City of Killeen	Steve Kana	254-501-6500	101 N. College Street	Killeen	Texas	76541	<a href="mailto:skana@killeentexas.gov">skana@killeentexas.gov</a>
City of Morgan's Point Resort	Camille Bowser	254-780-1334	8 Morgan's Point Blvd.	Morgan's Point Resort	Texas	76513	<a href="mailto:Camille.Bowser@mprtx.us">Camille.Bowser@mprtx.us</a>
City of Rogers	Tammy Cockrum	254-642-3312	P.O. Box 250	Rogers	Texas	76569	<a href="mailto:cityadministrator@CityOfRogersTX.gov">cityadministrator@CityOfRogersTX.gov</a>
City of Temple	David Olson	254-298-5600	2 North Main Street	Temple	Texas	76501	<a href="mailto:dolson@templetx.gov">dolson@templetx.gov</a>

**APPROVED**  
OCT 05 2023

*Quinn A.*

\* Reviewed & Amended to added by TWOS request



BRA Review of GMP  
October 5, 2023  
Brad Brunett



Brazos River Authority

QUALITY • CONSERVATION • SERVICE

September 26, 2023



Mr. Dirk Aaron  
General Manager  
Clearwater Underground Water  
Conservation District  
P.O. Box 1989  
Belton, Texas 76513

Re: Proposed Groundwater Management Plan Revisions

Dear Mr. <sup>Dirk</sup>Aaron:

The Brazos River Authority (BRA) appreciates the opportunity to review and provide comments on the proposed revisions to the Groundwater Management Plan for the Clearwater Underground Water Conservation District (CUWCD). We have reviewed the revised plan and do not have any comments at this time. The BRA supports the efforts of the CUWCD to manage its groundwater resources through local control in a scientifically sound manner.

Sincerely,

BRAD BRUNETT  
Regional Manager, Central & Lower Basin

BB:kld

## Dirk Aaron

---

**From:** Dirk Aaron  
**Sent:** Thursday, September 21, 2023 3:40 PM  
**To:** David Collinsworth  
**Cc:** Brad Brunett; Stephen Allen; Tristin Smith  
**Subject:** Clearwater UWCD Update to the Groundwater Management Plan (October 11th Public Hearing)  
**Attachments:** Posted - Public Hearing Notice for GMP 11Oct2023.pdf; 20230920\_Proposed GMP Amendments\_11OCT2023.pdf; CUWCD notice to BRA\_20Sept2023.pdf  
**Importance:** High

September 20, 2023

David Collinsworth, General Manager [david.Collinsworth@brazos.org](mailto:david.Collinsworth@brazos.org) (via email)  
Brazos River Authority  
P.O. Box 7555  
Waco, TX 76714-7555

Dear Mr. Collinsworth,

The Clearwater Underground Water Conservation District (CUWCD) is conducting a review of its management plan as required by Texas Water Code (TWC) Chapter 36.1072(e). Standard revisions are proposed to update this plan. One major component of the plan is evidence of its coordination with surface water management entities pursuant to TWC 36.1071 (a):

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Sincerely,

Dirk Aaron  
General Manager  
Clearwater Underground Water Conservation District  
[daaron@cuwcd.org](mailto:daaron@cuwcd.org)  
<http://www.cuwcd.org>  
254-933-0120 office



Every drop counts!

## Clearwater Underground Water Conservation District

P.O. Box 1989, Belton, Texas 76513  
Phone: 254/933-0120 Fax: 254/933-8396  
[www.cuwcd.org](http://www.cuwcd.org)

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

September 20, 2023

David Collinsworth, General Manager [david.Collinsworth@brazos.org](mailto:david.Collinsworth@brazos.org) (via email)  
Brazos River Authority  
P.O. Box 7555  
Waco, TX 76714-7555

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Sincerely,

Dirk Aaron  
General Manager  
Clearwater UWCD

Electronic copy to: Brad Brunett ([bradb@brazos.org](mailto:bradb@brazos.org)); Stephen Allen [stephen.allen@twdb.texas.gov](mailto:stephen.allen@twdb.texas.gov)

Clearwater Underground Water Conservation District (CUWCD) is a political subdivision of the State of Texas and underground water conservation district created and operating under and by virtue of Article XVI, Section 59, of the Texas Constitution; Texas Water Code Chapter 36; the District's enabling act, Act of May 27, 1989, 71<sup>st</sup> Legislature, Regular Session, Chapter 524 (House Bill 3172), as amended by Act of April 25, 2001, 77<sup>th</sup> Legislature, Regular Session, Chapter 22 (Senate Bill 404), Act of May 7, 2009, 81<sup>st</sup> Legislature, Regular Session, Chapter 64 (Senate Bill 1755), and Act of May 27, 2015, 84<sup>th</sup> Legislature, Regular Session, Chapter 1196, Section 2 (Senate Bill 1336)(omnibus districts bill); and the applicable general laws of the State of Texas; and confirmed by voters of Bell County on August 21, 1999.

Bell County Surface Water Management Entities  
CUWCD Notification VIA Email & Mail  
September 20, 2023 & October 6, 2023



*Every drop counts!*

## Clearwater Underground Water Conservation District

P.O. Box 1989, Belton, Texas 76513

Phone: 254/933-0120 Fax: 254/933-8396

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

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

September 20, 2023

TO: Surface Water Management Entities (via email)

RE: Revised Management Plan

Dear Manager:

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Sincerely,

Dirk Aaron  
General Manager  
Clearwater UWCD

Electronic copy to: Stephen Allen [stephen.allen@twdb.texas.gov](mailto:stephen.allen@twdb.texas.gov)

Clearwater Underground Water Conservation District (CUWCD) is a political subdivision of the State of Texas and underground water conservation district created and operating under and by virtue of Article XVI, Section 59, of the Texas Constitution; Texas Water Code Chapter 36; the District's enabling act, Act of May 27, 1989, 71<sup>st</sup> Legislature, Regular Session, Chapter 524 (House Bill 3172), as amended by Act of April 25, 2001, 77<sup>th</sup> Legislature, Regular Session, Chapter 22 (Senate Bill 404), Act of May 7, 2009, 81<sup>st</sup> Legislature, Regular Session, Chapter 64 (Senate Bill 1755), and Act of May 27, 2015, 84<sup>th</sup> Legislature, Regular Session, Chapter 1196, Section 2 (Senate Bill 1336)(omnibus districts bill); and the applicable general laws of the State of Texas; and confirmed by voters of Bell County on August 21, 1999.

## Dirk Aaron

---

**From:** Dirk Aaron  
**Sent:** Friday, October 6, 2023 10:24 AM  
**To:** 439water@439watersupply.com; bsmith@embarqmail.com; r.garrett@wcid1.org; belcountywater@embarqmail.com; bstapp@lms-cpa.com; dlservice@farm-market.net; dlservice@farm-market.net; ctwscgm@embarqmail.com; gsmith@cityoftroy.us; Michelle@dogridgewsc.com; eastbellwsc@embarqmail.com; kyle@elmcreekwatersupply.com; gm@jswatersupply.com; bruce@kempnerwsc.com; dlservice@farm-market.net; dboniface@moffatwatersupply.com; freienterprises@embarqmail.com; pwsc@mygrande.net; swsc1@embarqmail.com; thegrovewsc@icloud.com; westbellwater@hotmail.com; david.collinsworth@brazos.org; cityadmin@bartlett-tx.us; MBates@BeltonTexas.Gov; salbert@gatesvilletx.com; dmitchell@harkerheights.gov; rf mud1@districtdirectory.org; jkallus@cityofholland.org; finley@cityoflampasas.com; skana@killeentexas.gov; Camille.Bowser@mprtx.us; cityadministrator@CityOfRogersTX.gov; dolson@templetx.gov  
**Subject:** Clearwater UWCD Groundwater Management Plan Update set for October 11, 2023  
**Attachments:** Surface Water Contact List 2023.pdf; Posted - Public Hearing Notice for GMP 11Oct2023.pdf; CUWCD\_MP\_SWME\_20Sept2023.pdf; Draft V4\_CUWCD GMP\_11Oct2023(Redline).pdf  
**Importance:** High

**To:** Bell County Area Surface Water Management Entities

**From:** Clearwater UWCD

Dear Manager:

The Clearwater Underground Water Conservation District (CUWCD) is conducting a review of its management plan as required by Texas Water Code (TWC) Chapter 36.1072(e). Standard revisions are proposed to update this plan. One major component of the plan is evidence of its coordination with surface water management entities pursuant to TWC 36.1071. You are identified as a representative of one or more entities as defined by regulations.

- (a) *Evidence that following notice and hearing the Clearwater Underground Water Conservation District coordinated in the development of its Management plan with surface water management entities.*
- (b) *For clarity TWDB Rules, define Surface Water Management Entities--Political subdivisions as defined by Texas Water Code Chapter 15 and identified from Texas Commission on Environmental Quality records that are granted authority under Texas Water Code Chapter 11 to store, take, divert, or supply surface water either directly or by contract for use within the boundaries of a district. Texas Water Code Chapter 15 defines political subdivisions as a city, county, district or authority created under Article III, Section 52, or Article XVI, Section 59, of the Texas Constitution, any other political subdivision of the state, any interstate compact commission to which the state is a party, and any nonprofit water supply corporation created and operating under Chapter 67.*

The complete draft of the revised management plan is at located at [https://cuwcd.org/V4\\_draft\\_Final\\_CUWCD\\_GMP.pdf](https://cuwcd.org/V4_draft_Final_CUWCD_GMP.pdf) (with appendixes) and the attached notice states we will hold a public hearing on October 11, 2023 at 1:30 p.m. at our District Headquarters located at 700 Kennedy

Court in Belton. We are looking forward to your input regarding this plan. After your review, please provide us with a letter confirming your review of the revised plan and any comments or concerns you may have.

The District will after conducting the public hearing of the draft plan on October 11, 2023, will deliberate the same day for final adoption of all proposed and agreed upon revisions to the plan at our District Headquarters located at 700 Kennedy Court in Belton.

We are looking forward to your input regarding this plan. After your review, please feel free to provide us with a letter confirming your review of the revised plan and any comments or concerns you may have.

Sincerely,  
Dirk Aaron  
General Manager  
Clearwater Underground Water Conservation District  
[daaron@cuwcd.org](mailto:daaron@cuwcd.org)  
<http://www.cuwcd.org>  
254-933-0120 office  
254-534-4047 cell  
254-933-8396 fax



\*\*\*\*ATTENTION TO PUBLIC OFFICIALS AND OFFICIALS WITH OTHER INSTITUTIONS SUBJECT TO THE OPEN MEETINGS ACT \*\*\*\*  
A "REPLY TO ALL" OF THIS EMAIL COULD LEAD TO VIOLATIONS OF THE TEXAS OPEN MEETINGS ACT. PLEASE REPLY ONLY TO LEGAL COUNSEL.

*This message contains confidential information and is intended only for the named individual or individuals. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. The sender expressly reserves all privileges and confidentiality which might otherwise be waived as a result of an erroneous or misdirected transmission. E-mail transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.*



## Dirk Aaron

---

**From:** Dirk Aaron  
**Sent:** Thursday, September 21, 2023 3:49 PM  
**To:** '439water@439watersupply.com'; 'bsmith@embarqmail.com'; 'r.garrett@wcid1.org'; 'belcountywater@embarqmail.com'; 'dlservice@farm-market.net'; 'dlservice@farm-market.net'; 'ctwscgm@embarqmail.com'; 'gsmith@cityoftroy.us'; 'Michelle@dogridgewsc.com'; 'eastbellwsc@embarqmail.com'; 'kyle@elmcreekwatersupply.com'; 'gm@jswatersupply.com'; 'bruce@kempnerwsc.com'; 'dlservice@farm-market.net'; 'dboniface@moffatwatersupply.com'; 'freienterprises@embarqmail.com'  
**Cc:** Tristin Smith; Stephen Allen  
**Subject:** Clearwater UWCD Management Plan Update set for October 11, 2023  
**Attachments:** Posted - Public Hearing Notice for GMP 11Oct2023.pdf; 20230920\_Proposed GMP Amendments\_11OCT2023.pdf; CUWCD\_MP\_SWME\_20Sept2023.pdf  
**Importance:** High

September 20, 2023

TO: Bell County Surface Water Management Entities (via email)

RE: Revised Management Plan

Dear Manager:

The Clearwater Underground Water Conservation District (CUWCD) is conducting a review of its management plan as required by Texas Water Code (TWC) Chapter 36.1072(e). Standard revisions are proposed to update this plan. One major component of the plan is evidence of its coordination with surface water management entities pursuant to TWC 36.1071 (a):

*Evidence that following notice and hearing the Clearwater Underground Water Conservation District coordinated in the development of its Management plan with surface water management entities.*

The draft of the revised management plan is at located at <https://cuwcd.org/district-management-plan/> and notice will hold a public hearing on October 11, 2023 at 1:30 p.m. at our District Headquarters located at 700 Kennedy Court in Belton. We are looking forward to your input regarding this plan. After your review, please provide us with a letter confirming your review of the revised plan and any comments or concerns you may have.

The District will after conducting the public hearing of the draft plan on October 11, 2023, will deliberate the same day for final adoption of all proposed and agreed upon revisions to the plan at our District Headquarters located at 700 Kennedy Court in Belton.

We are looking forward to your input regarding this plan. After your review, please provide us with a letter confirming your review of the revised plan and any comments or concerns you may have.

Sincerely,

Dirk Aaron  
General Manager  
Clearwater Underground Water Conservation District  
[daaron@cuwcd.org](mailto:daaron@cuwcd.org)

TWDB Final Instructions  
Clearwater UWCD GMP

**Sec. 551.054. DISTRICT OR POLITICAL SUBDIVISION EXTENDING INTO FEWER THAN FOUR COUNTIES: NOTICE TO PUBLIC AND COUNTY CLERKS; PLACE OF POSTING NOTICE.**

(a) The governing body of a water district or other district or political subdivision that extends into fewer than four counties shall:

(1) post notice of each meeting at a place convenient to the public in the administrative office of the district or political subdivision; and

(2) either provide notice of each meeting to the county clerk of each county in which the district or political subdivision is located or post notice of each meeting on the district's or political subdivision's Internet website.

(b) A county clerk shall post a notice provided to the clerk under Subsection (a)(2) on a bulletin board at a place convenient to the public in the county courthouse.

Added by Acts 1993, 73rd Leg., ch. 268, Sec. 1, eff. Sept. 1, 1993.

Amended by:

Acts 2015, 84th Leg., R.S., Ch. 809 (H.B. 3357), Sec. 2, eff. September 1, 2015.

- 2) Mail a hard copy of the adopted plan to the following TWDB address via the USPS. We keep hard copies of every district groundwater management plan in a file archive so they are readily available for communication purposes. Certified mail and return receipts are not required; we have never lost a plan in the mail. Please send it unbound for easier storage.

For USPS (preferred)

Jeff Walker  
Executive Administrator  
Texas Water Development Board  
P. O. Box 13231  
Austin, TX 78711-3231

For other delivery services:

Jeff Walker  
Executive Administrator  
Texas Water Development Board  
1700 North Congress Avenue  
Suite 610B  
Austin, TX 78701

- 3) **Most important:** We also require a digital copy of the whole plan in Adobe Acrobat (.pdf) or Microsoft Word (.docx) format as a single file. Just email that

file to [stephen.allen@twdb.texas.gov](mailto:stephen.allen@twdb.texas.gov) and state in the email that you are submitting the final publicly-adopted version of the plan. **This digital copy will be routed for the required approval signatures.**

- 4) **Please submit copies of meeting minutes and/or resolution document** adopting the plan. They can be loose but it is preferable if they appear in an appendix. We encourage districts to draft a short cover letter stating that the plan was adopted at a public hearing on a specific date. This cover letter will serve as proof of adoption in the absence of meeting minutes and/or a resolution document adopting the plan.
- 5) **After you adopt** at the public hearing send a copy of the adopted plan (which can be emailed as an electronic file to one or more recipients) to all surface water management entities (river authorities and smaller entities) in the district. You can attach a copy of the plan to the email or provide a website address where the surface water entity can access the plan. Then supply us with a print of that email. Or, if you issue separate letters to entities please submit copies of those with the plan.
- 6) After the plan is reviewed and approved by the TWDB, you'll receive an approval letter and a certificate of completion (for full plans) by email.

For any questions or concerns please contact: [stephen.allen@twdb.texas.gov](mailto:stephen.allen@twdb.texas.gov)

Proposed CUWCD  
Groundwater Management Plan  
Reflecting Receipt of New MAG Report



*Clearwater Underground Water  
Conservation District*

*District Groundwater  
Management  
Plan*

**Original Plan Adopted October 24, 2000**

(Certified by TWDB February 21, 2001)

*Revisions Adopted*

**December 13, 2005** (Approved by TWDB March 6, 2006)

**February 8, 2011** (Approved by TWDB April 13, 2011)

**January 13, 2016** (Approved by TWDB February 19, 2016)

**January 9, 2019** (Approved by TWDB March 12, 2019)

**November 11, 2020** (Approved by CUWCD Board)

**December 30, 2020** (Approved by TWDB)

October 11, 2023 (Approved by CUWCD Board)

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## **I. DISTRICT MISSION**

The mission of the Clearwater Underground Water Conservation District (District) is to develop and implement an efficient, economical and environmentally sound groundwater management program to protect and enhance the water resources of the District.

## **II. PURPOSE OF THE GROUNDWATER MANAGEMENT PLAN**

Senate Bill 1 (SB 1), enacted by the 75<sup>th</sup> Texas Legislature in 1997, and Senate Bill 2 (SB 2), enacted by the 77<sup>th</sup> Texas Legislature in 2001, established a comprehensive statewide planning process and the actions necessary for districts to manage and conserve the groundwater resources of the state of Texas. These bills required all underground water conservation districts to develop a management plan which defines the water needs and supply within each district and the goals each district will use to manage the underground water in order to meet their needs. In addition, the 79<sup>th</sup> Texas Legislature enacted HB 1763 in 2005 that requires joint planning among districts that are in the same groundwater management area (GMA). These districts must establish the desired future conditions of the aquifers within their respective GMAs. Through this process, the districts will submit the desired future conditions to the Executive Administrator of the Texas Water Development Board (TWDB) who will provide each district with the modeled available groundwater in the groundwater management area based on the desired future conditions of the aquifers in the area. Technical information, such as the desired future conditions of the aquifers within the District's jurisdiction and the amount of modeled available groundwater from such aquifers is required to be included in the District's management plan and will guide the District's regulatory and management policies.

The District's management plan satisfies the requirements of SB 1, SB 2, HB 1763, the statutory requirements of Texas Water Code (TWC) Chapter 36, and the rules and requirements of the TWDB.

## **III. DISTRICT INFORMATION**

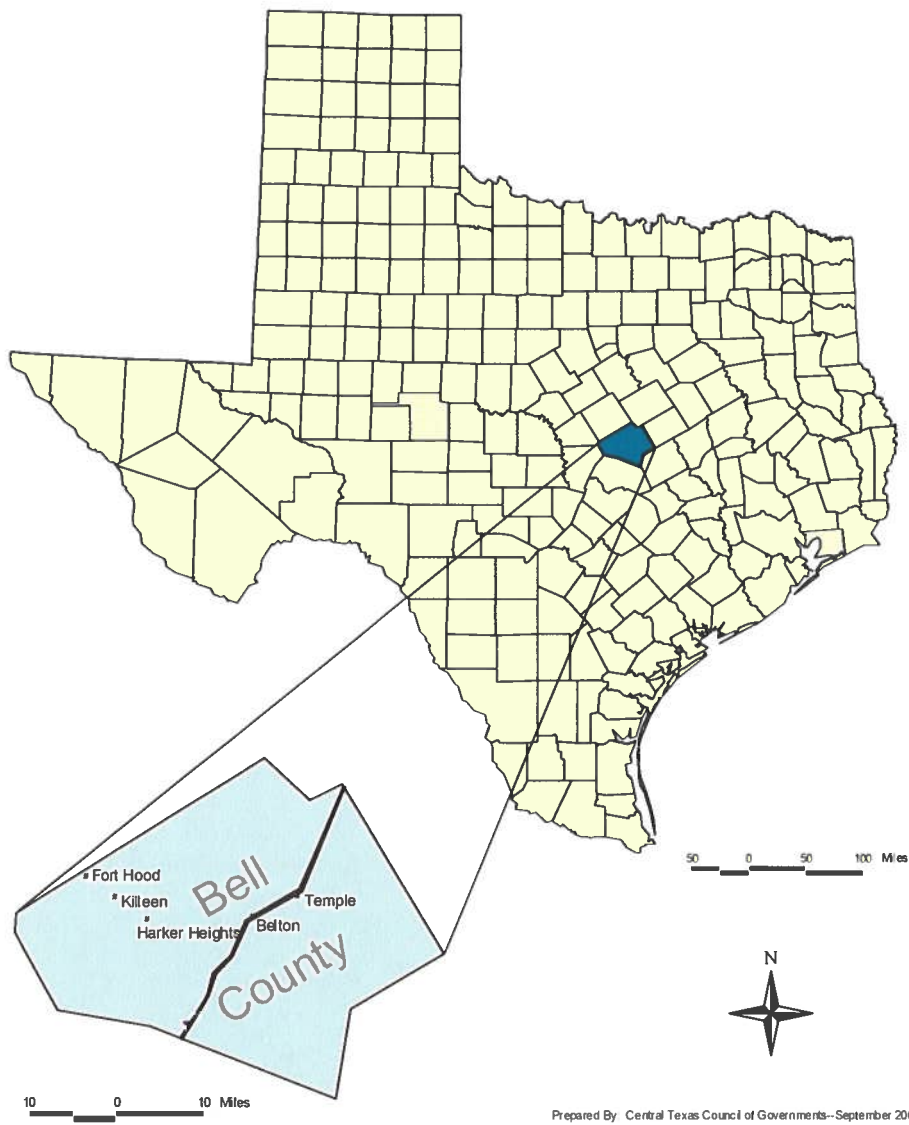
### **A. Creation**

Clearwater Underground Water Conservation District (CUWCD) is a political subdivision of the State of Texas and underground water conservation district created and operating under and by virtue of Article XVI, Section 59, of the Texas Constitution; Texas Water Code Chapter 36; the District's enabling act, Act of May 27, 1989, 71<sup>st</sup> Legislature, Regular Session, Chapter 524 (House Bill 3172), as amended by Act of April 25, 2001, 77<sup>th</sup> Legislature, Regular Session, Chapter 22 (Senate Bill 404), Act of May 7, 2009, 81<sup>st</sup> Legislature, Regular Session, Chapter 64 (Senate Bill 1755), and Act of May 27, 2015, 84<sup>th</sup> Legislature, Regular Session, Chapter 1196, Section 2 (Senate Bill 1336)(omnibus districts bill); and the applicable general laws of the State of Texas; and confirmed by voters of Bell County on August 21, 1999.

The District was formed to protect the underground water resources for the citizens of Bell County. Beyond its enabling legislation, the District is governed primarily by the provisions of Chapter 36 of the Texas Water Code, the District's groundwater management plan, and the District's rules.

### Exhibit A

## CLEARWATER UNDERGROUND WATER CONSERVATION DISTRICT BOUNDARY



## **B. Directors**

The Board of Directors consists of five members. These five directors are elected by the voters of Bell County and serve a four-year term. CUWCD observes the same precincts as the Bell County Commissioners—four precincts with one at-large position. Director terms are staggered with a two-year interval. Directors from Precincts 1 and 3 serve the same term while directors from Precincts 2, 4 and the at-large position serve the same term. Elections are held in November in even numbered years.

## **C. Authority**

CUWCD is governed by the provisions of TWC Chapter 36. CUWCD has the power and authority to undertake various hydrogeological studies, to adopt a management plan, to establish a program for the permitting of certain water wells, and to implement programs to achieve its statutory mandates. CUWCD has rule-making authority to implement its policies and procedures and to help ensure the management of the groundwater resources of Bell County.

## **D. Location and Extent**

The jurisdiction of CUWCD includes all territory located within Bell County (Exhibit A). This area encompasses approximately 1,088 square miles. CUWCD is bounded by McLennan County to the north; Falls and Milam Counties to the east; Williamson County to the south; and Burnet, Lampasas, and Coryell Counties to the west. Bell County has a vibrant economy dominated by the military, medical, manufacturing, and agricultural communities. Based on the 2012 Census of Agriculture, approximately 421,362 of Bell County's 675,200 acres, or 62.4% of this area, is farmland.

## **E. Topography and Drainage**

Bell County is divided into two separate ecological regions by the Balcones Escarpment, which runs from the southeast part of the county to the northwest. The region east of the Balcones Escarpment is the Blackland Prairie while the Grand Prairie is located to the west.

In the Grand Prairie area drainage flows to the Little River and its tributaries. The Leon and Lampasas rivers and Salado Creek converge at Three Forks.

## **F. Groundwater Resources of Bell County**

Bell County enjoys a variety of groundwater resources. The two primary sources of groundwater in Bell County are the Edwards Balcones Fault Zone (BFZ) Aquifer and the Trinity Aquifer. These aquifers are recognized as major aquifers by the TWDB. The Edwards (BFZ) Aquifer is the source of Salado Springs and is the primary source of water supply for the City of Salado. The Trinity Aquifer consists of three distinct subdivisions. It is the primary source of groundwater in much of western Bell County. The deepest subdivision of the Trinity Aquifer also serves or has served the Cities of Rogers, Holland,

and Bartlett in eastern Bell County. The portion of Bell County east of IH-35 also has a number of groundwater sources that are not widely recognized as aquifers outside of the County but are of vital importance. Approximately 40 percent of the wells registered with the District are located in eastern Bell County and produce water from alluvium, the Lake Waco Formation (Fm), the Kemp Formation, the Ozan Formation, the Pecan Gap Formation, the Austin Chalk, or the Buda Limestone. Additionally, there are wells which produce water from the Edwards Formation and associated limestones outside of the recognized limits of the Edwards (BFZ) Aquifer which are recognized by CUWCD as producing water from the Edwards Equivalent Aquifer.

*See Appendix A1: Groundwater Resources of Bell County*

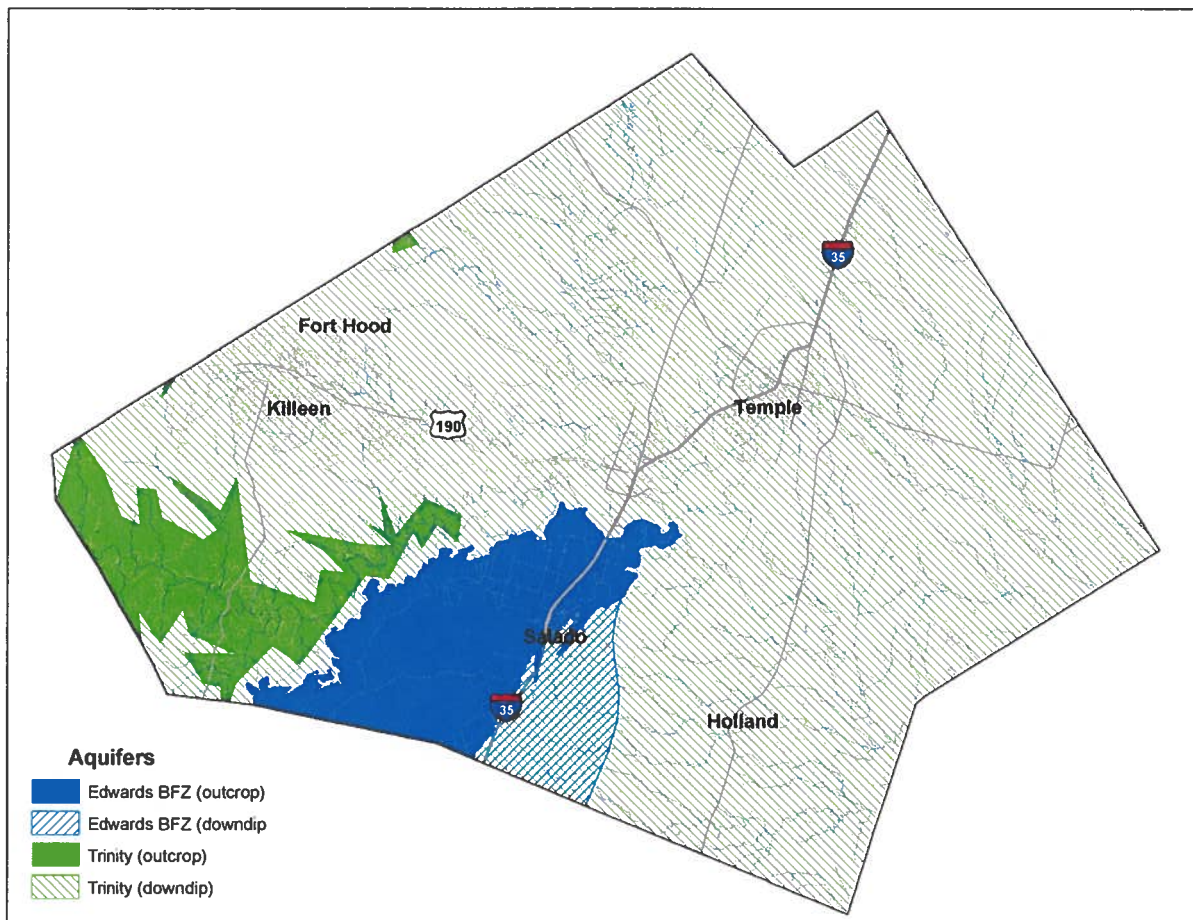
*See Appendix A2: Delineation of Proposed Management Zones within Bell County, Texas*

*See Appendix B: CUWCD - Bell County Historical Groundwater use (2011-2015).*

*See Appendix C: TWDB Estimated Historical Water Use for Bell County.*

*See Appendix D: TWDB Data Definitions*

### Exhibit B -- Major Aquifers in Bell County



#### IV. STATEMENT OF GUIDING PRINCIPLES

CUWCD recognizes that the groundwater resources of Bell County and the Central Texas region are of vital importance and that local management provides essential localized leadership, local discernment, local accountability, based on local oversight, and local expert understanding of the resource. Preservation of this most valuable resource can be managed in a prudent and cost-effective manner through education, cooperation, and developing a comprehensive understanding of the aquifers. The greatest threat to CUWCD in achieving its stated mission is the misunderstanding of the resource by elected officials, property owners, and water users. Scientific understanding can support localized management of the groundwater resources if the District continues to invest in science-based research to bolster understanding of local conditions. CUWCD's management plan is intended to serve as a tool to focus the thoughts and actions of those given the responsibility for the execution of the District's activities.

#### V. CRITERIA FOR PLAN APPROVAL

##### A. Planning Horizon

The time period for this plan is five years from the date of approval by the Executive Administrator or, if appealed, on approval by the TWDB. The original management plan was approved by the TWDB in February 2001. The District's Board of Directors adopted a revised groundwater management plan on December 13, 2005 and approved by TWDB in March 2006. This plan was revised and amended by the Board of Directors on February 8, 2011 and approved by TWDB April 13, 2011, will expire on April 13, 2016. The current plan was revised and amended by the Board of Directors on January 13, 2016 and approved by TWDB February 19, 2016 and will expire on February 19, 2021. The previous plan was amended for the sole purpose of incorporating the language of the second round of joint planning by GMA 8, effective December 12, 2018. ~~This plan is being amended for the sole purpose of incorporating the language of the third round of joint planning by GMA8, effective August 23, 2023~~ This plan is being and submitted as part of the next five-year review for final approval by TWDB Executive Administrator 60 days and re-adoption process as required by TWC 36.1072(e). This groundwater management plan will remain in effect until a revised management plan is approved by the Executive Administrator of the TWDB. The plan shall be reviewed (annually) and updated and readopted in accordance with the requirements of the Texas Water Code and remain effective for five years from the approval date by the Executive Administrator.

##### B. Board Resolution

*Copy of the Clearwater Underground Water Conservation District resolution adopting the plan.*

A copy of the Clearwater Underground Water Conservation District resolution adopting the plan is located. See Appendix E: CUWCD Resolution

**C. Plan Adoption**

*Evidence that the plan was adopted after notice and hearing.*

Public notices documenting that the plan was adopted following appropriate public meetings and hearings are located. *See Appendix F: CUWCD Notice of Public Hearing*

**D. Coordination with Surface Water Management Entities**

*Evidence that following notice and hearing the District coordinated in the development of its management plan with surface water management entities.*

CUWCD reference letter documenting transmitting a copy of this plan to surface water management entities after adoption of the plan. *See Appendix G: Notice to Surface Water Management Entities.*

**VI ESTIMATES OF TECHNICAL INFORMATION REQUIRED BY TEXAS WATER CODE CHAPTER 36.**

**A. Modeled available groundwater in the district based on the desired future condition established**

Modeled available groundwater is defined in TWC §36.001 as the amount of water the Executive Administrator determines may be produced on an average annual basis to achieve a desired future condition established under section 36.108. The desired future condition of the aquifer may only be determined through joint planning with other groundwater conservation districts (GCDs) in the same groundwater management area (GMA) as required by the 79<sup>th</sup> Legislature with the passage of HB 1763 into law. The District is in GMA 8. The GCDs of GMA 8 have completed the joint planning process to determine the desired future condition of the aquifers in the GMA.

To determine the desired future conditions, the District conducted a series of simulations using the TWDB’s Groundwater Availability Models (GAMs) for the Northern Edwards (BFZ) and the Northern Trinity/Woodbine aquifers. Each series of GAM simulations was conducted by iteratively applying varying amounts of simulated groundwater pumping from the aquifer over a predictive period that included a simulated repeat of the drought of record. Pumping was increased until the amount of pumping that could be sustained by the aquifer without impairing the aquifer conditions selected for consideration as the indicator of the aquifer desired future condition was identified.

*See Appendix H: TWDB Map of the GMA boundaries*

**1. Edwards (BFZ) Aquifer**

**a. Desired Future Conditions**

The desired future condition of the Edwards (BFZ) Aquifer is based on maintaining Salado Spring discharge into Salado Creek during a repeat of conditions like those in 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.

#### b. Modeled Available Groundwater

The modeled available groundwater value for the Edwards (BFZ) Aquifer in Bell County, as given in TWDB GAM Run ~~17-02921-013~~ MAG for the ~~current~~ decades ~~2010~~2020-2020~~2080~~, is 6,469 acre-feet per year, and is based on the desired future condition discussed above. CUWCD estimates that by year 2070, exempt use of the Edwards (BFZ) Aquifer may reach approximately 825 acre-feet per year and that volume of water is allocated for exempt well users on an annual basis. This leaves approximately 5,644 acre-feet per year as the volume of groundwater available for permitting in the Edwards (BFZ) aquifer.

*See Appendix I: TWDB GAM Run ~~17-02921-013~~ MAG*

*See Appendix J: TWDB GAM Run 15-003*

## 2. Trinity Aquifer

#### a. Desired Future Conditions

There are three recognized subdivisions in the Trinity Aquifer: the Upper, Middle and Lower Trinity aquifers. In Bell County the three subdivisions of the Trinity Aquifer are made up of several geologic units. The geologic units are: the Paluxy Sand; the Glen Rose Limestone and; the Hensell Sand and Hosston Conglomerate of the Travis Peak Formation. GMA 8 developed a desired future condition for each of the water-bearing geologic units which make up the Trinity Aquifer in Bell County. The desired future conditions for the several water-bearing units describe the amount of water-level draw down which may occur after ~~60~~70 years when the draw down is averaged across the area of occurrence of the water bearing unit in the District. The amount of draw down described in the desired future conditions is indexed to year 2010 water levels.

- From estimated year 2010 conditions, the average draw down of the Paluxy Aquifer should not exceed approximately ~~190~~ feet after ~~60~~70 years.
- From estimated year 2010 conditions, the average draw down of the Glen Rose Aquifer should not exceed approximately 83 feet after ~~60~~70 years.
- From estimated year 2010 conditions, the average draw down of the Hensell Aquifer should not exceed approximately ~~137~~ 145 feet after ~~60~~70 years.
- From estimated year 2010 conditions, the average draw down of the Hosston Aquifer should not exceed approximately ~~330~~375 feet after ~~60~~70 years.

For the purpose of managing groundwater in the District, CUWCD subdivides the water-bearing geologic units into the three Trinity Aquifer subdivisions as follows: the Upper Trinity (Glen Rose Limestone); the Middle Trinity (Hensell Sand); and the Lower Trinity (Hosston Conglomerate) aquifers.

#### b. Modeled Available Groundwater 2020

The total of modeled available groundwater values for the Trinity Aquifer in Bell County, as given in GAM Run ~~17-02921-013~~ MAG for ~~the current decade~~ ~~2010-~~

~~decades from 2020 through 2070;~~ is ~~9,266~~ 9,275 acre-feet per year which is based on the amounts of groundwater that could be pumped while maintaining the desired future conditions in each water-bearing geologic unit discussed above. CUWCD estimates that by year ~~2070~~80, total exempt use of the Trinity Aquifer may reach approximately 1,419 acre-feet per year, and that volume of water is allocated for exempt well users on an annual basis. The subdivision allocation for exempt use is currently at 400 acre feet for the Glen Rose Limestone, 650 acre feet for the Hensell Sand and 369 acre feet for the Hosston Conglomerate. This leaves a total of approximately ~~7,847~~ 856 acre-feet per year as ~~the an estimate of the volume of groundwater available for permitting that could be pumped to comply with the Desired Future Conditions~~ in the Trinity Aquifer.

The modeled available groundwater values of the several water-bearing geologic units of the Trinity Aquifer in Bell County, as given in TWDB GAM Run ~~17-02921-1321-013~~ MAG, are as follows:

- a. Paluxy – 0 ac-ft per year
- b. Glen Rose – ~~974~~ 275 ac-ft per year
- c. Hensell – ~~1,099~~ 1,100 ac-ft per year
- d. Hosston – ~~7,193~~ 7,900 ac-ft per year

~~These~~ modeled available groundwater values are for 2020, ~~for~~ For a full listing of values for every year, please refer to the MAG report TWDB GAM Run ~~17-02921-1321-013~~ MAG in Appendix I. CUWCD ~~intends~~ through its rules ~~to regulate~~ manages the Trinity Aquifer within the District by aquifer subdivision and geographic “management zones” established and identified by CUWCD’s rules adopted in accordance with TWC § 36.116(d), and according to the finding of the report commissioned by CUWCD (see Appendix A2: Delineation of Proposed Management Zones within Bell County, Texas). ~~While management is by subdivision the district reserves the right to implement management areas and management zones by geologic unit through the District’s rules. The modeled available groundwater values for each Trinity Aquifer subdivision and management areas zone within the water-bearing unit that has a required separate allocation of water for exempt well use.~~

*See Appendix I: TWDB GAM Run ~~17-02921-1321-013~~ MAG*

### 3. Other Water Bearing Formations

Other groundwater sources in Bell County include Alluvium, the Austin Chalk, the Buda Limestone, the Edwards Group and equivalent rocks outside the recognized bounds of the Edwards (BFZ) Aquifer (Edwards Equivalent Aquifer), the Kemp, Lake Waco, Ozan, and Pecan Gap formations. These sources of groundwater produce limited water supply in limited areas in the District. GMA 8 did not find these aquifers relevant for planning purposes at the present time or develop desired future conditions for them; as a result, there are no modeled available groundwater values for these sources of groundwater. See Appendix A1 and A2 for a more detailed discussion of these water bearing formations.



**B. Amount of groundwater being used within the district on an annual basis.**

The amount of groundwater used in Bell County from 2016 to 2020~~2~~ is shown in the *Appendix B*. Data from 2002-2017 is provided by the Texas Water Development Board from their Water Use Survey database, *Appendix C*. The CUWCD data, *Appendix B*, does distinguish between exempt and non-exempt wells. Exempt wells are wells that are used for domestic use or livestock watering (including certain additional uses defined in State law) and not capable of producing more than approximately 17 gallons per minute. Groundwater use data for 2016 through 2020 is provided from the District's records. The District began registering wells in February 2002 and began recording production from non-exempt wells during 2003. At the end of September 2019, approximately 5,794 wells were registered. Although CUWCD has made considerable progress in registering wells, it is likely there are still 1-2% of wells in Bell County that are not registered, and are therefore not considered in *Appendix B*. The District requires monthly production reports for all Classification 2 non-exempt wells (commercial). Classification 1 non-exempt wells are wells that would otherwise be considered exempt but are located on a tract of land of less than 10 acres and greater than 2 acres subdivided after March 1, 2004. Production reports are not required for Classification 1 wells; however, production cannot exceed 25,000 gallons per day. In 2004, the District began estimating production from exempt wells. See *Appendix B: CUWCD - Bell County Historical Groundwater Use (2015-20192015-2022)*

**C. Annual amount of recharge from precipitation to the groundwater resources within the district.**

The estimates of the annual amount of recharge to the groundwater resources of the District that are recognized as Major Aquifers by TWDB are based on the GAM simulations provided by TWDB to the District for use in this plan. The District has made no estimate of the amount of annual recharge to the local sources of groundwater in the District.

1. Edwards (BFZ) Aquifer Recharge 27,565 acre-feet per year
2. Trinity Aquifer Recharge 2,816 acre-feet per year

*See Appendix J: Estimate source: TWDB GAM Run 15-003; November 24, 2015*

**D. For each aquifer, annual volume of water that discharges from the aquifer to springs and any surface water bodies, including lakes, streams, and rivers.**

The estimates of the annual amount of water discharged to surface water systems by the groundwater resources of the District recognized as Major Aquifers by TWDB are based the GAM simulations provided by TWDB to the District for use in this plan. The District has made no estimate of the amount of the annual discharge to surface water systems by the minor sources of groundwater in the District.

1. Edwards (BFZ) Aquifer 27,566 acre-feet per year

2. Trinity Aquifer 11,131 acre-feet per year

See Appendix J: Estimate source: TWDB GAM Run 15-003; November 24, 2015

**E. Annual volume of flow into and out of the district within each aquifer and between aquifers in the district, if a groundwater availability model is available**

There are two aquifers in the District for which a TWDB GAM is available; the Trinity and the Edwards (BFZ) Aquifers. The estimates of the amount of water flowing into and out of the District within each aquifer and between aquifers in the District are based on the GAM simulations provided by TWDB to the District for use in this plan.

1. Edwards (BFZ) Aquifer

Flow into the aquifer within the District: 5,853 acre-feet/year

Flow out of the aquifer in the District: 1,090 acre-feet/year

Net flow out of the aquifer to overlying units in the District: 121 acre-feet/year

Net flow to downdip\* Edwards (BFZ) Aquifer: 3,957 acre-feet/year

2. Trinity Aquifer

Flow into the aquifer within the District: 7,230 acre-feet/year

Flow out of the aquifer within the District: 5,659 acre-feet/year

Net flow into the aquifer from the overlying Washita-Fredericksburg Confining Unit in the District: 5,587 acre-feet/year

Estimate source: TWDB GAM Run 15-003; November 24, 2015

*\*The model extends beyond the TWDB official Edwards (Balcones Fault Zone) Aquifer boundary. This is the amount of brackish and/or saline groundwater (greater than 1,000 total dissolved solid) that exits the downdip boundary limit of the [official] aquifer within the district boundaries and into deeper portions of the Edwards Group formations.*

**F. Projected surface water supply in the district, according to the most recently adopted state water plan.**

The most recently adopted state water plan is the 2017 State Water Plan. The 2017 State Water Plan indicates a projected surface water supply for Bell County of 93,515 acre-feet/year for year 2070.

Two major water reservoirs located in Bell County are Lake Belton and Lake Stillhouse Hollow. The 2016 Brazos G Initially Prepared Regional Water Plan (*Appendix L: Table 3.1-1, Major Reservoirs of the Brazos River Basin*) identifies 100,257 acre-feet/year as the authorized diversion, or permitted yield, from Lake Belton, and 67,768 acre-feet/year for Lake Stillhouse Hollow. This provides a total yield of 168,025 acre-feet/year for the two lakes. Currently, the Brazos River Authority has under contract approximately 113,906 acre-feet/year to Bell County entities. The US Corps of Engineers is the owner and operator of Lakes Belton and Stillhouse Hollow. The Brazos River Authority manages water rights in both lakes. The Department of the Army (Fort ~~Hood~~ Cavazos) also manages the water rights from Lake Belton.

*Source Appendix C: TWDB 2017 State Water Plan Datasets for Bell County*

**G. Projected total demand for water in the district according to the most recently adopted state water plan.**

The most recently adopted state water plan is the 2017 State Water Plan. The 2017 State Water Plan indicates a projected total water demand for Bell County of 134,411 acre-feet/year for year 2070. The projections are from year 2020 to 2070 and include demands that may be met by water from either or both surface water and groundwater. District records indicate that actual groundwater usage in Bell County during year 2019 by the Water Utility Groups totaled 2,417 acre-feet or approximately 3.18% of the County's projected 2020 total demand for water in the 2017 State Water Plan.

*Source Appendix C: TWDB 2017 State Water Plan Datasets for Bell County*

**VII. CONSIDER THE WATER SUPPLY NEEDS AND WATER MANAGEMENT STRATEGIES INCLUDED IN THE ADOPTED STATE WATER PLAN.**

The most recently adopted state water plan is the 2017 State Water Plan. In the 2017 State Water Plan, water needs were identified for sixteen Water User Groups (WUGs) in Bell County. Water needs are identified when the projected water demand of a WUG exceeds the projected water supplies of the WUG, *Appendix C*. Positive values given in the tables indicate a water surplus and negative values (expressed as values with a “ – “ symbol) indicate a water need.

In the 2017 State Water Plan twenty water management strategies (WMSs) were recommended for the sixteen Bell County WUGs with identified water needs. Seven of the WMSs involved conservation of existing water supplies. Four have recommended WMSs involve the redistribution and/or increase of surface water supplies of the respective WUGs. There is the conjunctive use strategy for Georgetown Utilities~~Chisholm Trail SUD~~, to increase groundwater with surface water based on the WMS, yet Georgetown Utilities~~Chisholm Trail SUD~~ has no groundwater wells in Bell County with no delivery of public water supply to the 65,000 acres of their respective CCN that lies in Bell County. This strategy is recommended in the 2012 State Water Plan and is stated as the WTP

expansion in the 2017 State Water plan may enhance the WUGs in Bell County who serve in other counties with conjunctive use of groundwater and surface water from Bell County. The desired future conditions and amounts of groundwater available for annual use in modeled available groundwater values for the Edwards (BFZ) and Trinity Aquifers in the District will not prevent the implementation of any recommended WMS or restrict the amount of groundwater considered available in the 2017 State Water Plan.

*Source Appendix C: TWDB 2017 State Water Plan Datasets for Bell County*

### **A. Water Shortages**

Of the 30 Bell County WUGs identified in the 2017 State Water Plan, sixteen were projected to have water shortages by the year 2070. The projected shortage of water for these sixteen users ranges from approximately 10,026 acre-feet/year in 2020 to approximately 43,762 acre-feet/year in 2070. Nine of these users use only surface water (439 WSC, City of Belton, Kempner WSC, City of Nolanville, City of Temple; , County-Other Bell, Steam Electric Power). Four of these WUGs use a mixture of groundwater and surface water (City of Little River-Academy, ~~Georgetown Utilities~~~~Chisholm Trail SUD~~, Elm Creek WSC, Salado WSC, Manufacturing), and three use only groundwater (City of Bartlett, Mining, Agriculture Irrigation). The source of groundwater for these users is identified as the Other Alluvial groundwater formation, Trinity Aquifer and the Edwards (BFZ) Aquifer. Some of the management strategies involve purchasing additional surface water, implementing conservation measures, Trinity ASR, direct reuse and groundwater from the Carrizo-Wilcox Aquifer in both Burleson and Milam Counties. Additional use of groundwater from the Trinity and Edwards BFZ Aquifers within CUWCD's jurisdiction been identified as strategies for the named as County-Other (identified as Edwards Aquifer Development, small Municipal Water Conservation, purchases from Central Texas WSC and Williamson County ASR).

Jarrell-Schwertner WSC's service area includes southern Bell County and northern Williamson County and is in the State Water Plan identified as a water user in Williamson County. Their primary water supply is both surface and groundwater in Bell County from the Edwards (BFZ) Aquifer. Their recommended management strategies include implementing conservation measures and purchasing surface water. Additional use of groundwater in Bell County is not identified as part of the management strategies. Through participation in a local water supply planning initiative, Jarrell-Schwertner WSC is participating in the Lake Granger Conjunctive Use Project.

*Source Appendix C: TWDB 2017 State Water Plan Datasets for Bell County*

### **B. Water Surplus**

Fourteen of the Water User Groups identified in the Brazos G Regional Water Plan are projected to have surplus water through the year 2070. Eight of these are identified as using both surface water and groundwater (Armstrong WSC, Bell-Milam-Falls WSC, City of Holland, East Bell WSC, Morgan's Point Resort, Pendleton WSC, City of Rogers Moffat WSC; City of Troy). The source of groundwater is identified as the Hensell Layer of the

Trinity Aquifer. Since these users are projected to have a surplus of water or no projected needs, no changes in water supply are recommended.

*Source Appendix C: TWDB 2017 State Water Plan Datasets for Bell County*

## **VIII. MANAGEMENT OF GROUNDWATER SUPPLIES**

TWC Section 36.0015 states that groundwater conservation districts (GCDs) are the state's preferred method of groundwater management and establishes that GCDs will manage groundwater resources through rules developed and implemented in accordance with TWC Chapter 36. Chapter 36 gives directives to GCDs and the statutory authority to carry out such directives, so that GCDs are provided the proper tools to protect and manage the groundwater resources within their boundaries.

CUWCD will manage the supply of groundwater within the District in order to conserve the groundwater resources while seeking to maintain the economic viability of all groundwater user groups - public and private. In consideration of the economic and cultural activities occurring within the District, CUWCD will identify and engage in such activities and practices which, if implemented, would result in a reduction of groundwater use. The existing observation network of groundwater wells will be used to monitor the changing conditions of the groundwater resources within the District. The observation network has been expanded on an annual basis as opportunities for the District to fund new wells and include permitted wells on the network.

The regulatory tools granted to GCDs by TWC Chapter 36 enable GCD's to preserve historic and existing users of groundwater. CUWCD protects historic and existing users by granting such groundwater users historic and existing use permits that have priority over operating permits. TWC Chapter 36 also allows GCDs to establish management zones within an aquifer or aquifer subdivision. The District's rules provide for the designation of "management areas-zones" as needed to better manage and regulate the groundwater resources of Bell County.

CUWCD may deny a water well drilling permit or limit groundwater withdrawals in accordance with the requirements stated in the rules of the District. In making a determination to deny a permit or limit groundwater withdrawals, the District will consider criteria identified in TWC Section 36.113.

In accordance with CUWCD's mission of protecting the groundwater resources of Bell County, the District may require reduction of groundwater withdrawals to amounts that will not cause harm to the aquifer when considering the desired future condition of the District's aquifers and the amount of modeled available groundwater within the District. To achieve this purpose, the District may, at the discretion of the Board, amend or revoke any permits after notice and hearing. The determination to seek the amendment or revocation of a permit by the District will be based on aquifer conditions as observed by the District. The District will enforce the terms and conditions of permits and the rules of the District by injunction or other appropriate relief in a court of competent jurisdiction as provided for in TWC §36.102.

A contingency plan to cope with the effects of water supply deficits due to climatic or other conditions has been developed by CUWCD and adopted by the Board after notice and hearing. In developing the contingency plan, CUWCD considered the economic effect of conservation measures upon all water resource user groups, the local implications of the extent and effect of changes in water storage conditions, the unique hydrogeologic conditions of the aquifers within the District, and the appropriate conditions under which the voluntary drought contingency plan is implemented. CUWCD evaluates the groundwater resources available within the District and determines the effectiveness of regulatory or conservation measures.

A public or private user may appeal to the Board for discretion in enforcement of the provisions of the water supply deficit contingency plan on grounds of adverse economic hardship or unique local conditions. The exercise of said discretion by the Board shall not be construed as limiting the power of the Board.

## **IX. ACTIONS, PROCEDURES, PERFORMANCE AND AVOIDANCE FOR PLAN IMPLEMENTATION**

CUWCD will implement the provisions of this plan and will utilize the provisions of this plan as a guidepost for determining the direction or priority for all District activities. All operations of the District, and all agreements entered into by the District, and any additional planning efforts in which the District may participate will be consistent with the provisions of this plan.

Rules adopted by the District for the permitting of wells and the production of groundwater shall comply with TWC Chapter 36, including §36.113, and the provisions of this management plan. All rules will be adhered to and enforced. The promulgation and enforcement of the rules will be based on the best technical evidence available to the District. District Rules are available on the District website at <http://www.cuwcd.org/regulatory-program/district-rules/>.

## **X. METHODOLOGY FOR TRACKING DISTRICT PROGRESS IN ACHIEVING MANAGEMENT GOALS.**

CUWCD general manager will prepare a draft Annual Report to the Board of Directors on District performance in regard to achieving management goals and objectives in each fiscal year for consideration for adoption by the Board of Directors. The report is to be presented within 180 days following the completion of each fiscal year of the District. The Board will maintain the report on file for public inspection at the District's offices and on the District Website upon adoption.

[Link to CUWCD-annual-reports](#)

## **XI. GOALS, MANAGEMENT OBJECTIVES and PERFORMANCE STANDARDS**

The management goals, objectives, and performance standards of the District in the areas specified in **31TAC§356.5** are addressed below.

### **Management Goals**

**A. Providing the Most Efficient Use of Groundwater –31TAC 356.52(a)(1)(A)  
(Implementing TWC §36.1071(a)(1))**

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

Performance Standard: Each year, the number of new and existing wells registered with CUWCD will be presented in the District’s Annual Report located or public viewing on the district’s website <http://www.cuwcd.org/> and maintained data base management system as an internet webpage <https://clearwater.lre-up.com>

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

Performance Standard: Each year, CUWCD will prepare a summary of the number of applications for the drilling of non-exempt wells, the number of applications for the permitted use of groundwater and the disposition of the applications will be will be presented in the District’s annual report.

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

Performance Standard:

- a. Each year, CUWCD’s annual report will include a status report of the database repository and enhancements to the platform.
  - b. Each year, CUWCD’s annual report will include a summary of changes in the water-level condition of the aquifers included in the district water-level monitoring program.
4. Objective: Each year, CUWCD will disseminate educational information on groundwater through publication of a District newsletter, Quarterly Webnews, and website.

Performance Standard: The CUWCD annual report will include a copy of the District newsletter published each year, with select examples of the Quarterly Webnews on Mailchimp/~~Twitter/Facebook~~.

**B. Controlling and Preventing Waste of Groundwater –31TAC 356.52(a)(1)(B)  
(Implementing TWC §36.1071(a)(2))**

- Objective: Each year, CUWCD will disseminate educational information on controlling and preventing the waste of groundwater focusing on water quality

protection through at least one classroom or public presentations to civic organizations and invited opportunities to speak

Performance Standard: The CUWCD annual report will include a summary of the District presentations to disseminate educational information on controlling and preventing the waste of groundwater focusing on water quality protection.

**C. Addressing Conjunctive Surface Water Management Issues-31TAC356.52 (a)(1)(D) ((Implementing TWC §36.1071(a)(4))**

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

Performance Standard: Each year, CUWCD will report attendance at Region G meetings by a representative of the District will be reflected in the District's annual report and will include the number of meetings attended and the dates.

**D. Addressing Natural Resource Issues that Impact the Use and Availability of Groundwater, and which are Impacted by the Use of Groundwater – 31TAC§356.52 (a)(1)(E) ((Implementing TWC §36.1071(a)(5))**

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

Performance Standard: Each year, CUWCD's Annual Report will provide a status report on the number of wells tested, by aquifers, aquifer subdivisions and the testing results. District will document the results and make them publicly available on the district web-maps for each well tested.

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

Performance Standard: Each year, CUWCD's Annual Report will provide a status summary report of the quarterly water quality assessments for nitrate, nitrite and dissolved oxygen of the both Salado Spring Complex and groundwater flow from all seven of the downtown springs collectively known as the Salado Spring Complex.

3) Objective: Each year CUWCD, in accordance with the an agreed upon five year reimbursable-task-order with Texas Fish and Wildlife Conservation Office



(TXFWCO), will fund and support the efforts of the assigned research biologist, to assess the status the Threatened Salado Salamander by systematically monitoring under the federal permit TE676811-9 and state permit SPR-0111-03.

Performance Standard: Each year, CUWCD's Annual Report will provide a summary of the formal findings of the assigned research biologist and accordingly maintain such findings and formal report from TXFWCO on the district website in a defined location assessable to all parties.

**E. Addressing Drought Conditions – 31TAC356.52 (a)(1)(F) ((Implementing TWC §36.1071(a)(6))**

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

Performance Standard: Each year, a summary of CUWCD's monthly monitoring of drought conditions in the Edwards (BFZ) Aquifer and the implementation of any conservation measures will be provided in the annual report, on the District website <http://cuwcd.org> as well as the TWDB drought resources <https://www.waterdatafortexas.org/drought> . The Salado Salamander is protected by the District per the drought contingency plan in accordance with agreements with all non-exempt permit holders producing from the Edwards (BFZ) Aquifer and in accordance with elements of the pending 4(d)rule under the Endangered Species Act.

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

Performance Standard: Each year, a summary of CUWCD's monthly monitoring of drought conditions in the Trinity Aquifer and the implementation of any conservation measures will be provided in the annual report.

**F. Addressing Conservation, Recharge Enhancement, Rainwater Harvesting, Precipitation Enhancement, and Brush Control, Where Appropriate and Cost-Effective – 31TAC356.52 (a)(1)(G) (Implementing TWC §36.1071(a)(7))**

**Conservation**

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

staff and directors (ex. Bell County Annual Water Symposium, Bell County Annual Grounds Conference and Bell County Annual Crops Conference)

Performance Standard: Each year, CUWCD’s annual report will include a summary of the District activity during the year to promote conservation.

### **Rainwater Harvesting**

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

Performance Standard: Each year, CUWCD’s annual report will include a copy of the information on rainwater harvesting that is provided on the District website.

### **Brush Control**

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

Performance Standard: Each year, the District annual report will include a copy of the information that has been provided on the District website relating to brush control.

### **Recharge Enhancement**

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

Performance Standard: Each year, CUWCD’s annual report will include a copy of the information that has been provided on the District website relating to recharge enhancement.

## **G. Addressing in a Quantitative Manner the Desired Future Conditions of the Groundwater Resources – TWC §36.108, 31TAC 356.52(a)(1)(H), (Implementing TWC §36.1071(a)(8))**

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

Performance Standard – Each month, CUWCD 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 (BFZ) Aquifer established by GMA 8, and documented in the Annual Report to the Board of Directors.

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

Performance Standard

- a. Each year, the CUWCD Annual Report to the Board of Directors will post the water-level measurements collected from the Trinity Aquifer by each confining layer and identify the aquifer subdivision from which the measurement is taken.
- b. Each year, the CUWCD 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.
- b. Every year, the CUWCD Annual Report to the Board of Directors will include a discussion of the trends and changes of water-levels in each Trinity Aquifer subdivision for which a Desired Future Condition is established by GMA 8 comparing the change to the incremental time-appropriate change in water-levels indicated by the established Desired Future Condition of the aquifer.

**H. Controlling and Preventing Subsidence 31TAC§356.52(a)(1)(C), TWC §36.1071(a)(6)**

This category of management goal is now applicable to the District even though the major water producing formations in the District are composed primarily of competent limestone are thought to be very low risk because the structural competency of the aquifer materials significantly limits the potential for the occurrence of land surface subsidence in the District. In ~~2016-2017~~, the Texas Water Development Board (TWDB) ~~Contract Number 1648302062) contracted with LRE Water, LLC to identify and characterize areas within Texas' major and minor aquifers that are susceptible to land subsidence related to groundwater pumping.~~ released a report “Identification of the Vulnerability of the Major and Minor Aquifers of Texas to Subsidence with Regard to Groundwater Pumping - TWDB Contract Number 1648302062”. This TWDB resource also includes a subsidence calculation tool known as “Subsidence Prediction Tool and User Guide”. These two resources are the basis for the subsidence review completed by the district.

<https://www.twdb.texas.gov/groundwater/models/research/subsidence/subsidence.asp>

- 1) Objective – Each year the district will apply the subsidence prediction tool for the purpose of identifying and characterizing the areas of the district that might be experiencing land subsidence

Performance Standard – Each year the district with the assistance of TWDB and LRE will deploy the tool and results after calculating subsidence predictions based on the results generated from the subsidence prediction tool and report the findings in the annual report.

## **XII. MANAGEMENT GOALS DETERMINED NOT-APPLICABLE TO THE DISTRICT**

### **B. Precipitation Enhancement – 31TAC§356.52(a)(1)(G), TWC §36.107(a)(7)**

Precipitation enhancement is not an appropriate or cost-effective program for the District at this time because there is not an existing precipitation enhancement program operating in nearby counties in which the District could participate and share costs. The cost of operating a single-county precipitation enhancement program is prohibitive and would require the District to increase taxes in Bell County.

## **APPENDIX A1**

**APPENDIX A2**

## **APPENDIX B**

## **APPENDIX C**



## **APPENDIX D**

## **APPENDIX E**

## **APPENDIX F**

## **APPENDIX G**

## **APPENDIX H**

## **APPENDIX I**

## **APPENDIX J**

## **APPENDIX K**