

**RESOLUTION ADOPTING GROUNDWATER MANAGEMENT PLAN**

**RESOLUTION 2024-1**

THE STATE OF TEXAS

HILL COUNTRY UNDERGROUND WATER CONSERVATION DISTRICT

**WHEREAS**, the Hill Country Underground Water Conservation District (District) was created by Acts of the 70<sup>th</sup> Legislature (1987), HB 792, Chapter 865 in accordance with Article 16, Section 59 of the Constitution of Texas and Chapters 51 and 52 of the Texas Water Code, as amended, whose boundaries are coterminous with Gillespie County; and

**WHEREAS**, the District is required by Chapter 36.1071 of the Texas Water Code to develop and adopt a Groundwater Management Plan; and

**WHEREAS**, the District is required by Chapter 36.1071 (e) of the Texas Water Code to review and readopt the plan with or without revisions at least once every five years and to submit the adopted Groundwater Management Plan to the Executive Administrator of the Texas Water Development Board for review and certification; and

**WHEREAS**, the District's adopted Groundwater Management Plan shall be certified by the Executive Administrator if the plan is administratively complete; and

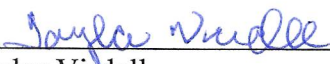
**WHEREAS**, the District will provide a copy to the appropriate surface water entities;  
and


**WHEREAS**, the Board finds that the Groundwater Management Plan meets all of the requirements of Chapter 36, Water Code, and 31 Texas Administrative Code Chapter 356; and

**NOW, THEREFORE**, be it resolved, that the Board of Directors of the Hill Country Underground Water Conservation District, following notice and hearing, hereby adopts this new Groundwater Management Plan to replace the existing Groundwater Management Plan; and

**THREFORE BE IT FURTHER RESOLVED** that this new Groundwater Management Plan shall become effective upon adoption.

**PASSED AND ADOPTED** by the Board of Directors of the Hill Country Underground Water Conservation District on this 9th day of January 2024.

  
\_\_\_\_\_  
Taylor Virdell  
Chairman of the Board

  
\_\_\_\_\_  
Attest: Brad Kott  
Secretary of Board

# **HILL COUNTRY UNDERGROUND WATER CONSERVATION DISTRICT GROUNDWATER MANAGEMENT PLAN**

**Adopted January 9, 2024**

The Hill Country Underground Water Conservation District (District) was created to cover Gillespie County by the Acts of the 70<sup>th</sup> Legislative Session (1987), HB 792, Chapter 865 in accordance with Article XVI, Section 59 of the Texas Constitution, and Chapter 35 and 36 of the Texas Water Code (TWC), as amended. The citizens of Gillespie County confirmed creation of the District by an election held in August 1987. The District was formed to protect the underground water resources for the citizens of Gillespie County so that proper management techniques could be implemented at the local level to address local conditions within the county. The creation of the District was in advance of the Hill Country Area, which included Gillespie County, being declared a Priority Groundwater Management Area by the then Texas Water Commission in 1990. This declaration gave notice to the residents of the area that water availability and quality will be at risk within the next 50 years. To manage the groundwater resources under its jurisdiction the District is charged with the rights and responsibilities specified in its enabling legislation; the provisions of Chapter 36 of the TWC; this Groundwater Management Plan, and the District Rules.

## **District Mission**

The Mission of the District is to protect and enhance the groundwater resources of Gillespie County while protecting groundwater users and maintain the economic viability of the community it serves by adopting and enforcing rules consistent with State law.

## **Purpose of Groundwater Management Plan**

Senate Bill 1 (SB 1), enacted by the 75th Texas Legislature in 1997, and Senate Bill 2 (SB 2), enacted by the 77th 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 groundwater 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 its needs. In addition, the 79th 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 (DFCs) of the aquifers within their respective GMAs. Through this process, the districts will submit the DFCs to the executive administrator of the Texas Water Development Board (TWDB) who will provide each district with the estimates concerning the Modeled Available Groundwater (MAG) in the management area based on the DFCs of the aquifers in the area. Technical information, such as details for how the DFCs of the aquifers within the District's jurisdiction will be addressed and the amount of MAG from such aquifers are required by statute to be included in the District's groundwater management plan and will guide the District's regulatory and management policies.

This groundwater management plan is required by the Chapter 36 and developed in accordance with instructions from the TWDB. Chapter 36 requires use of certain data provided by the TWDB. The projections of future water demand, surface water availability, water management strategies, and estimates of historical groundwater use in Gillespie County were all provided to the District by TWDB. This document should be considered as a groundwater management plan and will be used to identify activities or programs that the District will develop. The District considers the collection and development of site-specific data on groundwater use in Gillespie County and the groundwater sources of Gillespie County to be a high priority. This groundwater management plan will be updated as the District develops the site-specific data on the local groundwater use and aquifer conditions. The District is not restricted by the TCEQ or TWDB as to the frequency with which the management plan may be updated if considered it is appropriate by the District.

The District's groundwater management plan satisfies the requirements of SB 1, SB 2, HB 1763, the statutory requirements of Chapter 36 of the TWC, and the administrative requirements of the Texas Water Development Board's rules.

### **Technical District Information Required by Texas Administrative Code**

#### ***Estimate of Modeled Available Groundwater in District Based on Desired Future Conditions***

TWC §36.001 defines modeled available groundwater as “the amount of water that the executive administrator determines may be produced on an average annual basis to achieve a desired future condition established under Section 36.108”.

The joint planning process set forth in TWC §36.108 must be collectively conducted by all groundwater conservation districts within the same GMA. The District is a member of GMA 7. GMA 7 adopted DFCs for Gillespie County for the Edwards-Trinity (Plateau) Aquifer, (District refers to them separately as the Edwards and Hensel (Trinity)), (Gam Run 21-012 MAG), Ellenburger-San Saba Aquifer (GAM Run 21-012 MAG), and Hickory (GAM Run 21-012 MAG) on August 19, 2021. The adopted DFCs were then forwarded to the TWDB for the development of the MAG calculations. The submittal package for the DFCs can be found here:

[http://www.twdb.texas.gov/groundwater/dfc/docs/2021/GMA7\\_DFCExpRep\\_Pecos-ETP\\_2021.pdf](http://www.twdb.texas.gov/groundwater/dfc/docs/2021/GMA7_DFCExpRep_Pecos-ETP_2021.pdf)

[http://www.twdb.texas.gov/groundwater/dfc/docs/2021/GMA7\\_DFCExpRep\\_LlanoUplift\\_2021.pdf](http://www.twdb.texas.gov/groundwater/dfc/docs/2021/GMA7_DFCExpRep_LlanoUplift_2021.pdf)

#### **Modeled Available Groundwater for Groundwater Management Area 7**

[https://www.twdb.texas.gov/groundwater/docs/GAMruns/GR21-012\\_MAG.pdf](https://www.twdb.texas.gov/groundwater/docs/GAMruns/GR21-012_MAG.pdf)

A summary of the desired future conditions and the modeled available groundwater are summarized below:

**GILLESPIE COUNTY**

<b>Aquifer</b>	<b>Desired Future Conditions</b>	<b>Modeled Available Groundwater (AF/YR)</b>	<b>MAG</b>
Edwards-Trinity (Plateau), Pecos Valley & Trinity	5' drawdown	4,979	GAM Run 21-012
Ellenburger-San Saba	8' drawdown	6,294	GAM Run 21-012
Hickory	9' drawdown	1,751	GAM Run 21-012
<b>Total</b>		<b>13,024</b>	

***Amount of Groundwater Being Used within the District on an Annual Basis***

Please refer to Appendix A: *Estimated Historical Water Use And 2022 State Water Plan Datasets*

***Projected Surface Water Supply within the District***

Please refer to Appendix A: *Estimated Historical Water Use And 2022 State Water Plan Datasets*

***Projected Total Demand for Water within the District***

Please refer to Appendix A: *Estimated Historical Water Use And 2022 State Water Plan Datasets*

***Projected Water Supply Needs within the District***

Please refer to Appendix A: *Estimated Historical Water Use And 2022 State Water Plan Datasets. The data for this and other strategies can be found in Appendix A.*

Projected water supply demands listed in the TWDB estimated historical water use/2022 State Water Plan data packet (Appendix A) are primarily municipal, county-other, irrigation, and livestock. From 2020 to 2070, the total Water Supply Needs in Gillespie County are projected to be zero. The District will continue to monitor the situation and if necessary will assist the entities involved in identifying the locations for expansion of current groundwater supplies from the Ellenburger-San Saba Aquifer, or any other suitable aquifer within the District.

***Projected Water Management Strategies***

Please refer to Appendix A: *Estimated Historical Water Use And 2022 State Water Plan Datasets. The data for this and other strategies can be found in Appendix A.*

Projected water management strategies listed in the TWDB estimated historical water use/2022 state water plan data packet (Appendix A) are: Municipal Water Conservation (Fredericksburg), Drought Management (County-Other, Gillespie); Fredericksburg), Brush Management (County-Other, Gillespie), Direct Reuse (Fredericksburg) and Drip Irrigation. From 2020 to 2070, the total Water Management Strategies in Gillespie County are projected to increase from 1,090 acre-feet to 3,700 acre-feet.

***Estimated annual amount of recharge from precipitation to the district***

Please refer to Appendix B: *GAM Run 23-004*

Edwards-Trinity (Plateau) Aquifer (Edwards) – Table 1, p.8

Trinity (Hensel) Aquifer – Table 2, p.11

Ellenburger-San Saba Aquifer – Table 3, p. 14

Hickory Aquifer – Table 4, p. 17

***Estimated annual volume of water that discharges from the aquifer to springs and any surface water body including lakes, streams, and rivers***

Please refer to Appendix B: *GAM Run 23-004*

Edwards-Trinity (Plateau) Aquifer (Edwards) – Table 1, p.8

Trinity (Hensel) Aquifer – Table 2, p.11

Ellenburger-San Saba Aquifer – Table 3, p.14

Hickory Aquifer – Table 4, p. 17

***Estimated annual volume of flow into the district within each aquifer in the district***

Please refer to Appendix B: *GAM Run 23-004*

Edwards-Trinity (Plateau) Aquifer (Edwards) – Table 1, p.8

Trinity (Hensel) Aquifer – Table 2, p.11

Ellenburger-San Saba Aquifer – Table 3, p. 14

Hickory Aquifer – Table 4, p. 17

***Estimated annual volume of flow out of the district within each aquifer in the district***

Please refer to Appendix B: *GAM Run 23-004*

Edwards-Trinity (Plateau) Aquifer (Edwards) – Table 1, p.8

Trinity (Hensel) Aquifer – Table 2, p.11

Ellenburger-San Saba Aquifer – Table 3, p.14

Hickory Aquifer – Table 4, p.17

***Estimated net annual volume of flow between each aquifer in the district***

Please refer to Appendix B: *GAM Run 23-004*

Edwards-Trinity (Plateau) Aquifer (Edwards) – Table 1, p.8

Trinity (Hensel) Aquifer – Table 2, p. 11

Ellenburger-San Saba Aquifer – Table 3, p.14

Hickory Aquifer – Table 4, p.17

## **Management of Groundwater Supplies in the District**

The District will manage groundwater supplies in the district through rule development and implementation, and in conjunction with Groundwater Management Area #7. The District will monitor progress, and if necessary, make adjustments. Chapter 36 gives directives to groundwater conservation districts and the statutory authority to carry out such directives, so that groundwater conservation districts are provided the proper tools to protect and manage the groundwater resources within their boundaries.

## **Methodology to Track District Progress in Achieving Management Goals**

The District's General Manager will prepare and present an annual report to the Board of Directors on District performance in regards to achieving management goals and objectives for the calendar year. The report will be presented during the first regular board meeting of the calendar year beginning in 2024. The report will include the number of instances each activity was engaged in during the year. The Board will maintain the report on file, for public inspections at the District's offices upon adoption in a regular noticed meeting of the Board.

## **Actions, Procedures, Performance and Avoidance for District Implementation of Groundwater Management Plan**

The District will implement and utilize the provisions of this plan as a guidepost for determining the direction or priority for all District activities. All operations of the District, 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 permitting of wells and the use of groundwater shall comply with Chapter 36 of the TWC and the provisions of this groundwater 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 adopted/amended on November 14, 2023, can be found at:

[https://hcuwcd.org/wp-content/uploads/2023/11/Rules\\_Amended\\_Adopted-Nov-14-2023.pdf](https://hcuwcd.org/wp-content/uploads/2023/11/Rules_Amended_Adopted-Nov-14-2023.pdf)

(See Rules Amended/Adopted November 14, 2023 - Please refer to Appendix C)

The District shall treat all citizens with equality. Citizen may apply to the District for discretion in enforcement of the rules on grounds of adverse economic effect or unique local aquifer characteristic. In granting of discretion to any rule, the Board shall consider the potential for adverse effect on adjacent landowners and aquifer conditions. The exercise of said discretion by the Board shall not be construed as limiting power of the Board.

The District will seek cooperation and coordination in the implementation of this plan, and all District activities, with appropriate state, regional or local water management entities (Please refer to Appendix D for public comment). The meetings of the Board of the District are noticed and conducted at all times in accordance with the Texas Open Meetings Law. The District has

also made available for public inspection all official documents, reports, records and minutes of the District pursuant with the Texas Public Information Act will continue to do in the future.

## **Management Goals**

### **A. Providing the most efficient use of groundwater (31 TAC 356.52(a)(1)(A); TWC §36.1071(a)(1))**

**A.1 Management Objective** – Each year the District will assist the Gillespie County Commissioners Court in the evaluation of water availability studies submitted in accordance with Gillespie County Subdivision requirements.

**A.1 Performance Standard** – Each year the District will report the number of groundwater availability reports that the District reviewed and certified as having sufficient or insufficient water resources available.

**A.2 Management Objective** – Each year the District will require all new exempt wells that are constructed within the boundaries of the District to be registered with the District in accordance with the District Rules.

**A.2 Performance Standard** – The number of exempt wells registered by the District for the year will be incorporated into the Annual Report submitted to the Board of Directors.

**A.3 Management Objective** – Each year the District will regulate the production of groundwater by maintaining a system of permitting the use and production of groundwater within the boundaries of the District in accordance with the District Rules.

**A.3 Performance Standard** – Each year the District will accept and process applications for the permitted use of groundwater in the District in accordance with the permitting process established by the District Rules. The number and type of applications made for the permitted use of groundwater in the District, and the number and type of permits issued by the District will be included in the Annual Report given to the Board of Directors.

### **B. Controlling and preventing waste of groundwater (31 TAC 356.52(a)(1)(B); TWC §36.1071(a)(2))**

**B.1 Management Objective** - Each year the District will provide information on eliminating and reducing the waste of groundwater and focusing on water quality protection. This may be accomplished annually by one of the following methods:

- a) When requested conduct classroom presentations;
- b) When requested sponsor an educational program/curriculum
- c) Post information on the District's web site;
- d) Submit newspaper articles for publication;
- e) Conduct public presentations
- f) Distribute brochures/literature

**B.1 Performance Standard** - The annual report will include a summary of the District activities during the year to disseminate educational information on eliminating and reducing the wasteful use of groundwater focusing on water quality protection. The number of instances for each activity utilized by the District will be included in the report.

**C. Controlling and Preventing Subsidence  
(31 TAC 356.52(a)(1)(C); TWC §36.1071(a)(3))**

This goal is not applicable as shown in the Final Report: Identification of the vulnerability of the Major and Minor Aquifers of Texas to Subsidence with Regards to Groundwater Pumping - TWDB Contract Number 164830062, 03/21/2017 by LRE Water:

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

The aquifers identified in the study within Gillespie County were:

- Edwards-Trinity Plateau Aquifer
- Trinity Aquifer
- Marble Falls Aquifer
- Ellenburger–San Saba Aquifer
- Hickory Aquifer

Table 5.3 Total Weighted Risk statistic by aquifer (ranked by third-quartile cutoff on TWR) have the Edwards-Trinity Plateau Aquifer, Marble Falls Aquifer, Ellenburger–San Saba Aquifer and Hickory Aquifer ranked as low: Aquifer is not considered at risk for subsidence outside very localized risk hotspots.

Table 5.3 Total Weighted Risk statistic by aquifer (ranked by third-quartile cutoff on TWR) has the Trinity Aquifer as medium: subsidence potential exists, but is not generally significant outside of hotspots within the aquifer.

**D. Addressing conjunctive surface water management issues  
(31 TAC 356.52(a)(1)(D); TWC §36.1071(a)(4))**

**D.1 Management Objective** - To evaluate the ground to surface water interrelationships within the District, each year the District will conduct stream flow measurements along eight (8) sites of the Pedernales River between Bear Creek and Palo Alto Creek at least four (4) times per year.

**D.1 Performance Standard** - Each year the number of stream flow measurements taken annually will be presented in the District’s annual report.

**D.2 Management Objective** - Each year, the District will participate in the regional planning process by attending a minimum of two meetings of the Lower Colorado Regional Water Planning Group (Region K) per fiscal year.

**D.2 Performance Standard**- Each year, attendance at Region K 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.

**E. Addressing natural resources issues that impact the use and availability of groundwater and which are impacted by the use of groundwater (31 TAC 356.52(a)(1)(E); TWC §36.1071(a)(5))**

**E.1. Management Objective** – Each year the District will monitor water levels within the District by measuring the water level on selected wells representative of the various aquifers within the District. The District is investigating the establishment of continuous water level monitoring program. Currently, the District has equipped wells with the Eno Scientific sonic water level monitors along with Wildeye data transmitters. Additional wells, when determined to be suitable will be added to the program. The data will be available on the District’s website (www.hcuwcd.org.) The water level monitoring network and measuring schedule is as follows:

Aquifer	# of Wells	Frequency
Ellenburger	35 +/-	6 times per year
Hensel	35 +/-	2 times per year
Edwards, Hickory, Mid-Cambrian and Precambrian	45 +/-	2 times per year

**E.1 Performance Standard** – Each year the District’s annual report will provide a status on the number of monitor wells measured.

**E.2 Management Objective:** By attending Regional Water Planning Group (RWPG) meetings, there is the opportunity to participate in discussions, planning, and education concerning the interrelationship of groundwater with other natural resource issues. The Board’s appointed representative or alternate representative will attend 75% RWPG meetings annually.

**E.2 Performance Standard:** The minutes for all attended meetings of RWPG will be maintained in the District for a period of three (3) years from their accepted date. A report of all attended meetings will be given to the Board at the regular meeting.

**F. Addressing Drought Conditions (31 TAC 356.52(a)(1)(F); TWC §36.1071(a)(6))**

**F.1 Management Objective** - Continue to monitor aquifer conditions in response to drought conditions to improve and refine trigger conditions and update, as warranted, the District’s Drought Management Plan adopted on May 13, 2014.

**F.1 Performance Standard** - Each year the District’s annual report will provide to the Board the number of any new trigger conditions identified and changes made to the Drought Management Plan.

- F.2 Management Objective** - Review applicable data to determine status of drought condition, and if necessary, report to the Board on the need to implement the drought management plan.
- F.2 Performance Standard** – Each year the District’s annual report will include the number of times reported to the Board on the need to implement the drought management plan.
- F.3 Management Objective** - Each year the District will provide to the public on the District website information concerning the status of drought conditions and stage of drought.
- F.3 Performance Standard** – Each year the District’s annual report will include the number of drought notices or articles placed on the District’s website.
- F.4 Management Objective** – Continue to monitor drought conditions through the TWDB Water Data for Texas drought link <https://waterdatafortexas.org/drought>
- F.4 Performance Standard** – Each year the District’s annual report will include a summary of the TWDB Water Data for Texas drought link activities.

**G. Addressing Conservation, Recharge Enhancement, Rainwater Harvesting, and Brush Control and Precipitation Enhancement  
(31 TAC 356.52(a)(1)(G); TWC §36.1071(a)(7))**

- G.1 Management Objective** - Each year the District will promote conservation by one or more of the following methods:
  - a) Upon request conduct classroom conservation presentations;
  - b) Post conservation information on the District’s web site;
  - c) Upon request conduct a public conservation presentation;
  - d) Distribute conservation brochures/literature to the public
- G.1 Performance Standard** – Each year the District’s annual report will include a summary of the District’s activity during the year to promote conservation. The number of instances for each activity utilized by the District will be included in the report.
- G.2 Management Objective** – Each year the District will provide information about recharge enhancement on the District web site or by brochures/literature available at the District office.
- G.2 Performance Standard** – Each year the District annual report will include a summary of the District’s activity regarding recharge enhancement.
- G.3 Management Objective** – Each year, the District will promote rainwater harvesting by posting information on rainwater harvesting on the District web site or by brochures/literature available at the District office.
- G.3 Performance Standard** – Each year the District annual report will include a summary of the District’s activity regarding rainwater harvesting.

**G.4 Management Objective** – Each year the District will provide information about brush control on the District web site or by brochures/literature available at the District office.

**G.4 Performance Standard** – Each year the District annual report will include a summary of the District’s activity regarding brush control.

**G.5 Precipitation Enhancement** - Cost prohibitive, results questionable. The management goal is not applicable to the operations of the District.

**H. Addressing the Desired Future Conditions established under TWC §36.108. 31 TAC 356.52(a)(1)(H); TWC §36.1071(a)(8)**

**H.1 Management Objective** – Begin evaluating the water level data obtained from the District’s water level monitoring programs to develop a method for tracking the DFCs for the aquifers within the District.

**H.1 Performance Standard** – The annual reporting of how the DFCs are being met will be included in the District’s Annual Report to the District’s Board of Directors.

**H.2 Management Objective** – Monitor pumpage within the District to evaluate District compliance with aquifer desired future conditions and to determine if pumpage exceeds or is under MAG numbers.

**H.2 Performance Standard** – The annual reporting of groundwater pumpage will be included in the District’s Annual Report to the District Board of Directors.

## Appendix A

# Estimated Historical Water Use

## TWDB Historical Water Use Survey (WUS) Data

Groundwater and surface water historical use estimates are currently unavailable for calendar year 2020. TWDB staff anticipates the calculation and posting of these estimates at a later date.

### GILLESPIE COUNTY

*100% (multiplier)*

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2019	GW	3,967	313	16	0	2,343	835	7,474
	SW	0	0	0	0	34	279	313
2018	GW	4,043	314	8	0	1,883	835	7,083
	SW	0	0	0	0	567	279	846
2017	GW	3,791	320	6	0	2,029	816	6,962
	SW	0	0	0	0	404	272	676
2016	GW	3,673	24	4	0	2,200	644	6,545
	SW	0	0	0	0	186	214	400
2015	GW	3,582	19	5	0	2,414	626	6,646
	SW	0	0	0	0	150	208	358
2014	GW	3,907	19	12	0	2,238	597	6,773
	SW	0	0	0	0	191	199	390
2013	GW	4,891	21	4	0	2,216	571	7,703
	SW	0	0	5	0	62	191	258
2012	GW	5,008	14	0	0	1,942	652	7,616
	SW	0	0	5	0	338	216	559
2011	GW	5,090	14	0	0	3,153	1,383	9,640
	SW	0	0	0	0	312	461	773
2010	GW	4,255	6	1	0	1,275	1,343	6,880
	SW	0	0	2	0	186	448	636
2009	GW	4,200	6	1	0	1,915	750	6,872
	SW	0	0	2	0	263	250	515
2008	GW	4,244	6	1	0	1,969	804	7,024
	SW	0	0	2	0	158	268	428
2007	GW	4,049	6	0	0	179	732	4,966
	SW	0	0	0	0	159	245	404
2006	GW	4,342	6	0	0	2,117	701	7,166
	SW	0	9	0	0	346	234	589
2005	GW	4,189	6	0	0	1,935	706	6,836
	SW	0	9	0	0	274	236	519
2004	GW	3,783	6	0	0	2,378	462	6,629
	SW	0	9	0	0	71	510	590

## Appendix A

# Projected Surface Water Supplies TWDB 2022 State Water Plan Data

### GILLESPIE COUNTY

100% (multiplier)

All values are in acre-feet

RWPG	WUG	WUG Basin	Source Name	2020	2030	2040	2050	2060	2070
K	County-Other, Gillespie	Colorado	Highland Lakes Lake/Reservoir System	56	56	56	56	56	56
K	Livestock, Gillespie	Colorado	Colorado Livestock Local Supply	515	515	515	515	515	515
K	Livestock, Gillespie	Guadalupe	Guadalupe Livestock Local Supply	13	13	13	13	13	13
K	Manufacturing, Gillespie	Colorado	Colorado Other Local Supply	158	158	158	158	158	158
<b>Sum of Projected Surface Water Supplies (acre-feet)</b>				<b>742</b>	<b>742</b>	<b>742</b>	<b>742</b>	<b>742</b>	<b>742</b>

# Appendix A

## Projected Water Demands

### TWDB 2022 State Water Plan Data

Please note that the demand numbers presented here include the plumbing code savings found in the Regional and State Water Plans.

#### GILLESPIE COUNTY

*100% (multiplier)*

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
K	County-Other, Gillespie	Colorado	1,668	1,738	1,797	1,891	1,995	2,100
K	County-Other, Gillespie	Guadalupe	67	70	72	76	80	84
K	Fredericksburg	Colorado	3,351	3,543	3,703	3,911	4,118	4,322
K	Irrigation, Gillespie	Colorado	2,383	2,383	2,383	2,383	2,383	2,383
K	Livestock, Gillespie	Colorado	1,175	1,175	1,175	1,175	1,175	1,175
K	Livestock, Gillespie	Guadalupe	37	37	37	37	37	37
K	Manufacturing, Gillespie	Colorado	77	93	93	93	93	93
K	Mining, Gillespie	Colorado	4	4	4	4	4	4
<b>Sum of Projected Water Demands (acre-feet)</b>			<b>8,762</b>	<b>9,043</b>	<b>9,264</b>	<b>9,570</b>	<b>9,885</b>	<b>10,198</b>

## Appendix A

# Projected Water Supply Needs TWDB 2022 State Water Plan Data

Negative values (in red) reflect a projected water supply need, positive values a surplus.

### GILLESPIE COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
K	County-Other, Gillespie	Colorado	647	577	518	424	320	215
K	County-Other, Gillespie	Guadalupe	23	20	18	14	10	6
K	Fredericksburg	Colorado	1,092	900	740	532	325	121
K	Irrigation, Gillespie	Colorado	119	119	119	119	119	119
K	Livestock, Gillespie	Colorado	383	383	383	383	383	383
K	Livestock, Gillespie	Guadalupe	17	17	17	17	17	17
K	Manufacturing, Gillespie	Colorado	663	647	647	647	647	647
K	Mining, Gillespie	Colorado	51	51	51	51	51	51
<b>Sum of Projected Water Supply Needs (acre-feet)</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Appendix A

# Projected Water Management Strategies TWDB 2022 State Water Plan Data

### GILLESPIE COUNTY

#### WUG, Basin (RWPG)

All values are in acre-feet

Water Management Strategy	Source Name [Origin]	2020	2030	2040	2050	2060	2070
<b>County-Other, Gillespie, Colorado (K)</b>							
Brush Management	Edwards-Trinity-Plateau, Pecos Valley, and Trinity Aquifers [Gillespie]	0	1,125	1,125	1,125	1,125	1,125
Drought Management	DEMAND REDUCTION [Gillespie]	144	105	90	95	100	105
		<b>144</b>	<b>1,230</b>	<b>1,215</b>	<b>1,220</b>	<b>1,225</b>	<b>1,230</b>
<b>County-Other, Gillespie, Guadalupe (K)</b>							
Drought Management	DEMAND REDUCTION [Gillespie]	6	4	4	4	4	4
		<b>6</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
<b>Fredericksburg, Colorado (K)</b>							
Direct Reuse - Fredericksburg	Direct Reuse [Gillespie]	0	132	132	132	132	132
Drought Management	DEMAND REDUCTION [Gillespie]	610	589	560	535	508	504
Municipal Conservation - Fredericksburg	DEMAND REDUCTION [Gillespie]	302	598	903	1,234	1,578	1,802
		<b>912</b>	<b>1,319</b>	<b>1,595</b>	<b>1,901</b>	<b>2,218</b>	<b>2,438</b>
<b>Irrigation, Gillespie, Colorado (K)</b>							
Irrigation Conservation - Drip Irrigation - Gillespie County	DEMAND REDUCTION [Gillespie]	28	28	28	28	28	28
		<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>
<b>Sum of Projected Water Management Strategies (acre-feet)</b>		<b>1,090</b>	<b>2,581</b>	<b>2,842</b>	<b>3,153</b>	<b>3,475</b>	<b>3,700</b>

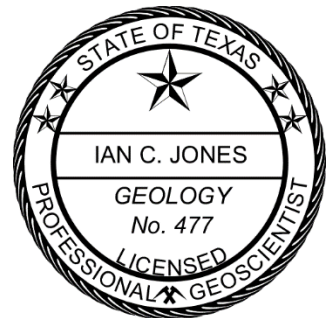


**Appendix B**

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**GAM RUN 23-004: HILL COUNTRY  
UNDERGROUND WATER CONSERVATION DISTRICT  
MANAGEMENT PLAN**

Ian C. Jones, Ph.D., P.G.  
Texas Water Development Board  
Groundwater Division  
Groundwater Modeling Department  
512-463-6641  
May 31, 2023



*Ian C. Jones*  
5/31/2023

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# GAM RUN 23-004: HILL COUNTRY UNDERGROUND WATER CONSERVATION DISTRICT MANAGEMENT PLAN

Ian C. Jones, Ph.D., P.G.  
Texas Water Development Board  
Groundwater Division  
Groundwater Modeling Department  
512-463-6641  
May 31, 2023

## ***EXECUTIVE SUMMARY:***

Texas Water Code §36.1071 (h), states that, in developing its groundwater management plan, a groundwater conservation district shall use groundwater availability modeling information provided by the Executive Administrator of the Texas Water Development Board (TWDB) in conjunction with any available site-specific information provided by the district for review and comment to the Executive Administrator.

The TWDB provides data and information to the Hill Country Underground Water Conservation District in two parts. Part 1 is the Estimated Historical Water Use/State Water Plan dataset report, which will be provided to you separately by the TWDB Groundwater Technical Assistance Department. Please direct questions about the water data report to Mr. Stephen Allen at 512-463-7317 or [stephen.allen@twdb.texas.gov](mailto:stephen.allen@twdb.texas.gov). Part 2 is the required groundwater availability modeling information, which includes:

1. the annual amount of recharge from precipitation, if any, to the groundwater resources within the district;
2. the annual volume of water that discharges from the aquifer to springs and any surface-water bodies, including lakes, streams, and rivers, for each aquifer within the district; and
3. the annual volume of flow into and out of the district within each aquifer and between aquifers in the district.

The groundwater management plan for the Hill Country Underground Water Conservation District should be adopted by the district on or before July 20, 2023 and submitted to the executive administrator of the TWDB on or before August 19, 2023. The current management plan for the Hill Country Underground Water Conservation District expires on October 18, 2023.

We used the groundwater availability models for the Edwards-Trinity (Plateau) and Pecos Valley aquifers (Anaya and Jones, 2009) and the minor aquifers of the Llano Uplift region (Shi and others, 2016) to estimate the management plan information for the Edwards-Trinity (Plateau), Trinity, Ellenburger-San Saba, and Hickory aquifers within the Hill Country Underground Water Conservation District.

This report replaces the results of GAM Run 17-009 (Anaya, 2018). Values may differ from the previous report as a result of routine updates to the spatial grid file used to define county, groundwater conservation district, and aquifer boundaries, which can impact the calculated water budget values. Additionally, the approach used for analyzing model results is reviewed during each update and may have been refined to better delineate groundwater flows. Tables 1, 2, 3, and 4 summarize the groundwater availability model data required by statute. Figures 1, 3, 5, and 7 show the area of the model from which the values in Tables 1, 2, 3, and 4 were extracted. Figures 2, 4, 6, and 8 provide a generalized diagram of the groundwater flow components provided in Tables 1, 2, 3, and 4. If the Hill Country Underground Water Conservation District determines that the district boundaries used in the assessment do not reflect current conditions after reviewing the figures, please notify the TWDB Groundwater Modeling Department at your earliest convenience.

The flow components presented in this report do not represent the full groundwater budget. If additional inflow and outflow information would be helpful for planning purposes, the district may submit a request in writing to the TWDB Groundwater Modeling Department for the full groundwater budget.

### ***METHODS:***

In accordance with the provisions of the Texas Water Code § 36.1071 (h), the groundwater availability model mentioned above was used to estimate information for the Hill Country Underground Water Conservation District management plan. Water budgets were extracted for the historical model periods in the respective groundwater availability models. For the Edwards-Trinity (Plateau) and Trinity aquifers, the historical calibration period is 1981 through 2000, while for the Ellenburger-San Saba and Hickory aquifers the historical calibration period is 1981 through 2010. Water budgets were extracted over the historical calibration periods using ZONEBUDGET Version 3.01 (Harbaugh, 2009) and

ZONEBUDGET USG Version 1.00 (Panday and others, 2013), respectively. The average annual water budget values for recharge, surface-water outflow, inflow to the district, outflow from the district, and the flow between aquifers within the district are summarized in this report.

## ***PARAMETERS AND ASSUMPTIONS:***

### ***Edwards-Trinity (Plateau) and Trinity aquifers***

- We used version 1.01 of the groundwater availability model for the Edwards-Trinity (Plateau) and Pecos Valley aquifers (Anaya and Jones, 2009) to analyze the Edwards-Trinity (Plateau) and Trinity aquifers. See Anaya and Jones (2009) for assumptions and limitations of the model.
- The groundwater availability model for the Edwards-Trinity (Plateau) and Pecos Valley aquifers contains the following two layers in the Hill Country Underground Water Conservation District:
  - Layer 1 represents the Edwards Group and equivalent limestone hydrostratigraphic units of the Edwards-Trinity (Plateau) Aquifer, and
  - Layer 2 represents the Trinity Group hydrostratigraphic units or equivalent units of the Edwards-Trinity (Plateau) and Trinity aquifers.
- The two layers were combined for calculating water budget flows in the Edwards-Trinity (Plateau) Aquifer within the district and were divided into zones representing the lateral extents of the Edwards-Trinity (Plateau) and Trinity aquifers.
- We used the groundwater availability model for the Edwards-Trinity (Plateau) Aquifer instead of the groundwater availability model for the Hill Country portion of the Trinity Aquifer because the Edwards-Trinity (Plateau) Aquifer model covers the entire geographical area of the district. Both groundwater availability models are aligned with different model grid orientations which prevent combining the results from each without double-accounting or omitting important water budget information.
- Water budget terms were averaged for the period 1981 through 2000 (stress periods 2 through 21).
- The model was run with MODFLOW-96 (Harbaugh and McDonald, 1996).

### ***Ellenburger-San Saba and Hickory aquifers***

- We used version 1.01 of the groundwater availability model for the Minor Aquifers in the Llano Uplift Region (Shi and others, 2016) to analyze the Ellenburger-San Saba and Hickory aquifers. See Shi and others (2016) for assumptions and limitations of the model.
- The groundwater availability model for the Minor Aquifers in the Llano Uplift Region contains eight layers:
  - Layer 1 — the Trinity Aquifer, Edwards-Trinity (Plateau) Aquifer, and younger alluvium deposits
  - Layer 2 — confining units
  - Layer 3 — the Marble Falls Aquifer and equivalent
  - Layer 4 — confining units
  - Layer 5 — the Ellenburger-San Saba Aquifer and equivalent
  - Layer 6 — confining units
  - Layer 7 — the Hickory Aquifer and equivalent
  - Layer 8 — confining (Precambrian) units
- Perennial rivers and reservoirs were simulated using the MODFLOW-USG river package. Springs were simulated using the MODFLOW-USG drain package. For this management plan, groundwater discharge to surface water includes groundwater leakage to the river and drain boundaries.
- Water budget terms were averaged for the period 1981 through 2010 (stress periods 2 through 31).
- The model was run with MODFLOW-USG (Panday and others, 2013).

## ***RESULTS:***

A groundwater budget summarizes the amount of water entering and leaving the aquifer according to the groundwater availability model. Selected groundwater budget components listed below were extracted from the groundwater availability model results for the Edwards-Trinity (Plateau), Trinity, Ellenburger-San Saba, and Hickory aquifers located within the Hill Country Underground Water Conservation District and averaged over the historical calibration period, as shown in Tables 1, 2, 3 and 4.

1. Precipitation recharge—the areally distributed recharge sourced from precipitation falling on the outcrop areas of the aquifers (where the aquifer is exposed at land surface) within the district.
2. Surface-water outflow—the total water discharging from the aquifer (outflow) to surface-water features such as streams, reservoirs, and springs.
3. Flow into and out of district—the lateral flow within the aquifer between the district and adjacent counties.
4. Flow between aquifers—the net vertical flow between the aquifer and adjacent aquifers or confining units. This flow is controlled by the relative water levels in each aquifer and aquifer properties of each aquifer or confining unit that define the amount of leakage that occurs.

The information needed for the district’s management plan is summarized in Tables 1, 2, 3, and 4. Figures 1, 3, 5, and 7 show the area of the model from which the values in Tables 1, 2, 3, and 4 were extracted. Figures 2, 4, 6, and 8 provide a generalized diagram of the groundwater flow components provided in Tables 1, 2, 3, and 4. It is important to note that sub-regional water budgets are not exact. This is due to the size of the model cells and the approach used to extract data from the model. To avoid double accounting, a model cell that straddles a political boundary, such as a district or county boundary, is assigned to one side of the boundary based on the location of the centroid of the model cell. For example, if a cell contains two counties, the cell is assigned to the county where the centroid of the cell is located.

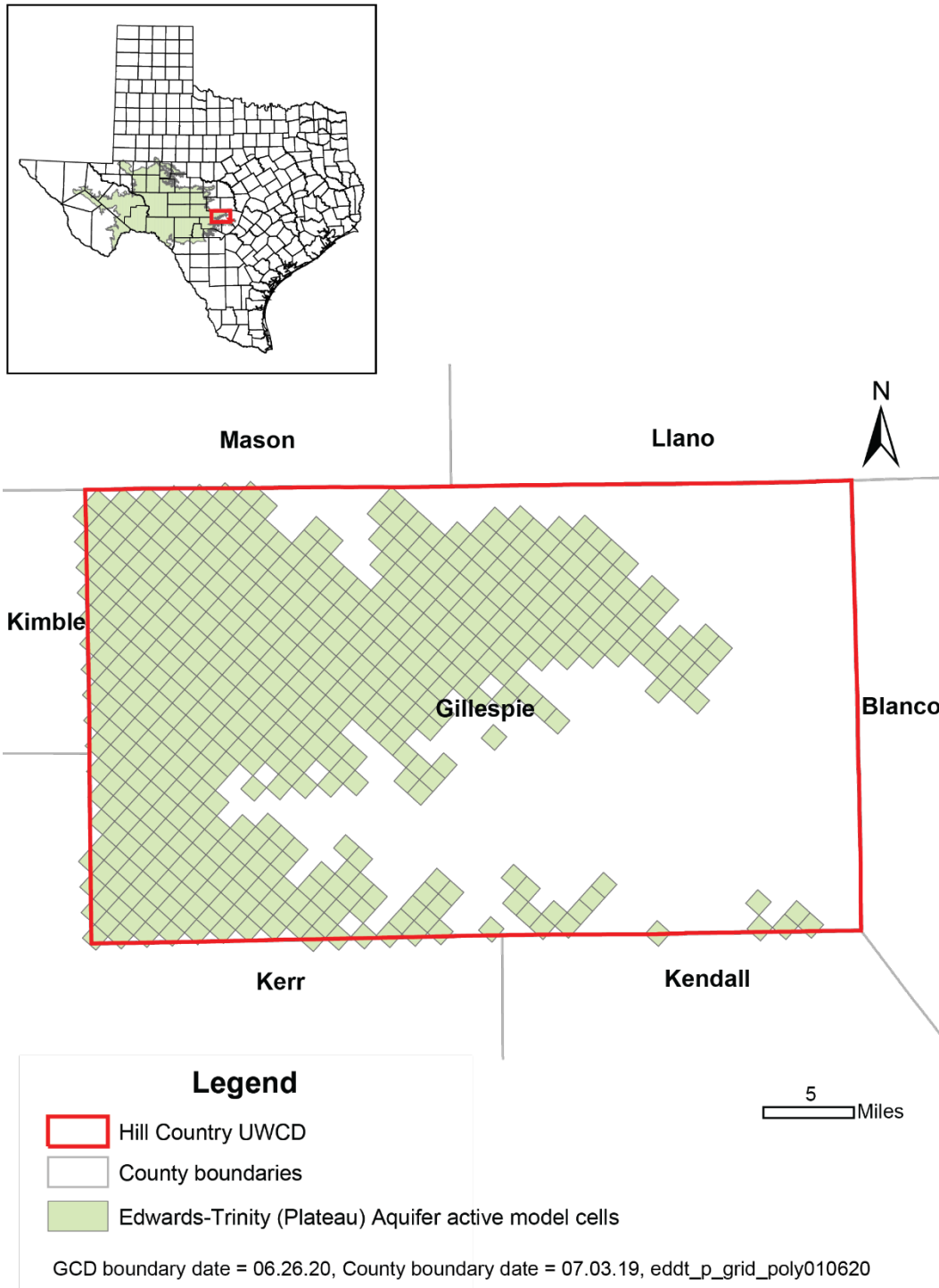
**Table 1: Summarized information for the Edwards-Trinity (Plateau) Aquifer that is needed for the Hill Country Underground Water Conservation District groundwater management plan. All values are reported in acre-feet per year and rounded to the nearest 1 acre-foot.**

Management plan requirement	Aquifer or confining unit	Results
Estimated annual amount of recharge from precipitation to the district	Edwards-Trinity (Plateau) Aquifer	17,396
Estimated annual volume of water that discharges from the aquifer to springs and any surface water body including lakes, streams, and rivers	Edwards-Trinity (Plateau) Aquifer	16,814
Estimated annual volume of flow into the district within each aquifer in the district	Edwards-Trinity (Plateau) Aquifer	4,429
Estimated annual volume of flow out of the district within each aquifer in the district	Edwards-Trinity (Plateau) Aquifer	8,805
Estimated net annual volume of flow between each aquifer in the district	To Edwards-Trinity (Plateau) Aquifer from Trinity Aquifer	1,071
	From Edwards-Trinity (Plateau) Aquifer to Ellenburger-San Saba Aquifer	535 <sup>1</sup>
	From Edwards-Trinity (Plateau) Aquifer to Hickory Aquifer	11 <sup>1</sup>

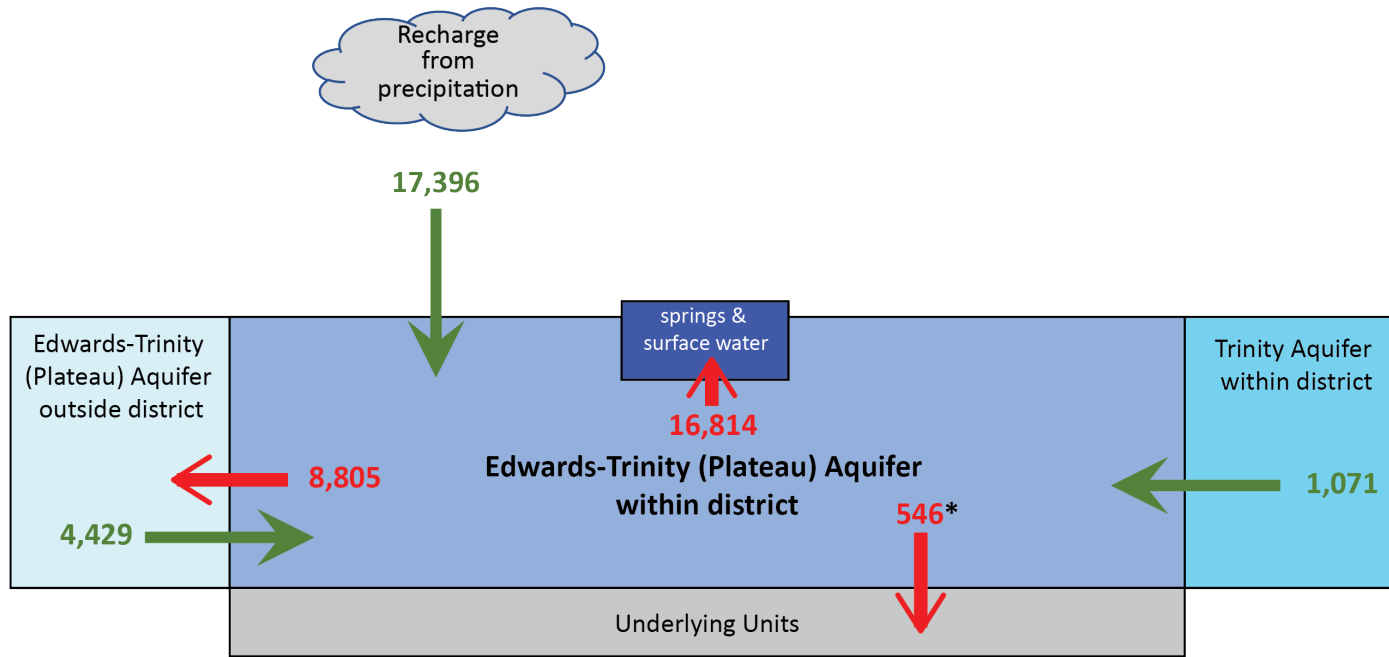
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<sup>1</sup> The estimated net annual volume of flow between the Edwards-Trinity (Plateau) and the Ellenburger-San Saba aquifers was calculated from version 1.01 of the groundwater availability model for the minor aquifers in the Llano Uplift Region.





**Figure 1: Area of the Edwards-Trinity (Plateau) and Pecos Valley aquifers groundwater availability model from which the information in Table 1 was extracted (the Edwards-Trinity (Plateau) Aquifer extent within the district boundary).**



\* Flow to underlying units includes net outflow of 535 acre-feet per year to Ellenburger-San Saba Aquifer, and 11 acre-feet per year to Hickory Aquifer. Values come from the groundwater availability model for the minor aquifers of the Llano Uplift.

*Caveat: This diagram only includes the water budget items provided in Table 1. A complete water budget would include additional inflows and outflows. For a full groundwater budget, please submit a request in writing to the Groundwater Modeling Department.*

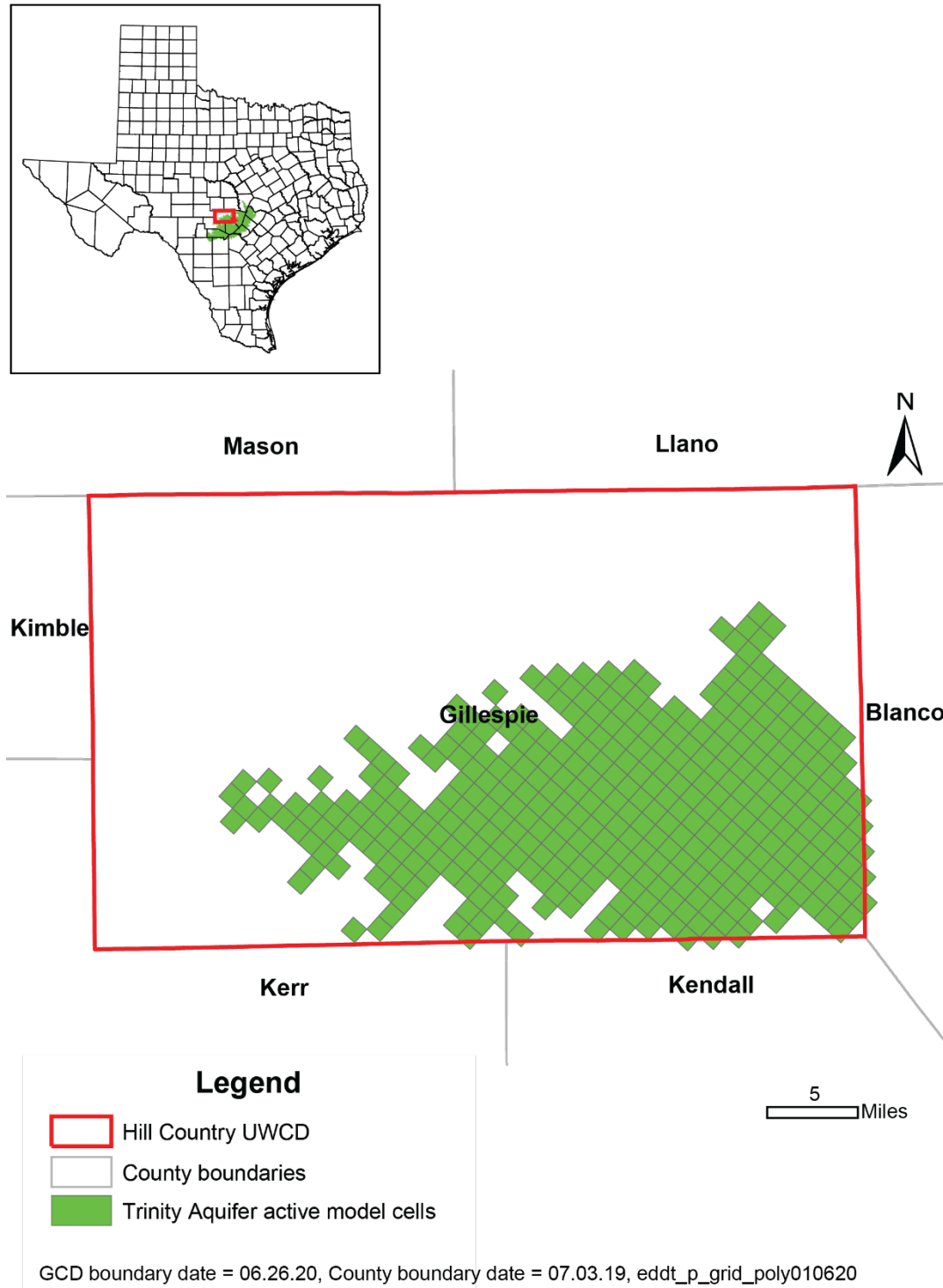
**Figure 2: Generalized diagram of the summarized budget information from Table 1, representing directions of flow for the Edwards-Trinity (Plateau) Aquifer within the Hill County Underground Water Conservation District. Flow values are expressed in acre-feet per year.**

**Table 2: Summarized information for the Trinity Aquifer that is needed for the Hill Country Underground Water Conservation District groundwater management plan. All values are reported in acre-feet per year and rounded to the nearest 1 acre-foot.**

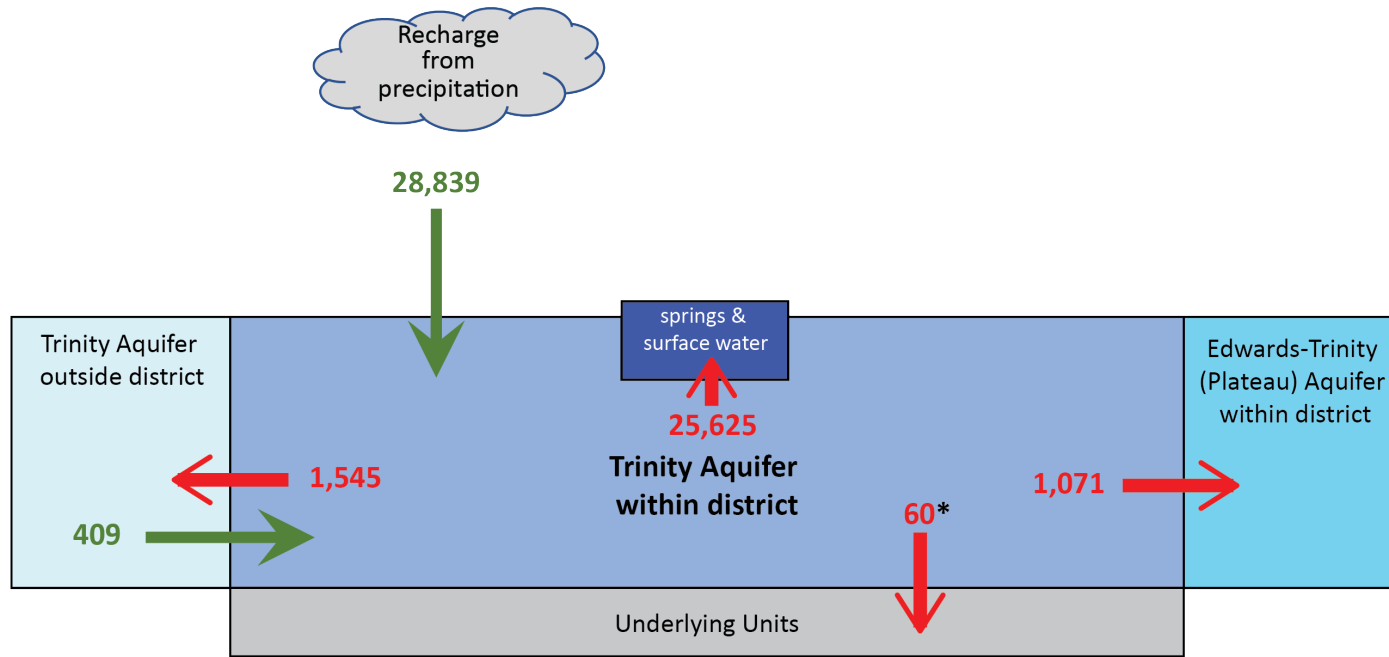
Management Plan requirement	Aquifer or confining unit	Results
Estimated annual amount of recharge from precipitation to the district	Trinity Aquifer	28,839
Estimated annual volume of water that discharges from the aquifer to springs and any surface water body including lakes, streams, and rivers	Trinity Aquifer	25,625
Estimated annual volume of flow into the district within each aquifer in the district	Trinity Aquifer	409
Estimated annual volume of flow out of the district within each aquifer in the district	Trinity Aquifer	1,545
Estimated net annual volume of flow between each aquifer in the district	From Trinity Aquifer to Edwards-Trinity (Plateau) Aquifer	1,071
	From Trinity Aquifer to Ellenburger-San Saba Aquifer	60 <sup>2</sup>

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<sup>2</sup> The estimated net annual volume of flow between the Trinity and the Ellenburger-San Saba aquifers was calculated from version 1.01 of the groundwater availability model for the minor aquifers in the Llano Uplift Region.



**Figure 3: Area of the Edwards-Trinity (Plateau) and Pecos Valley aquifers groundwater availability model from which the information in Table 2 was extracted (the Trinity Aquifer extent within the district boundary).**



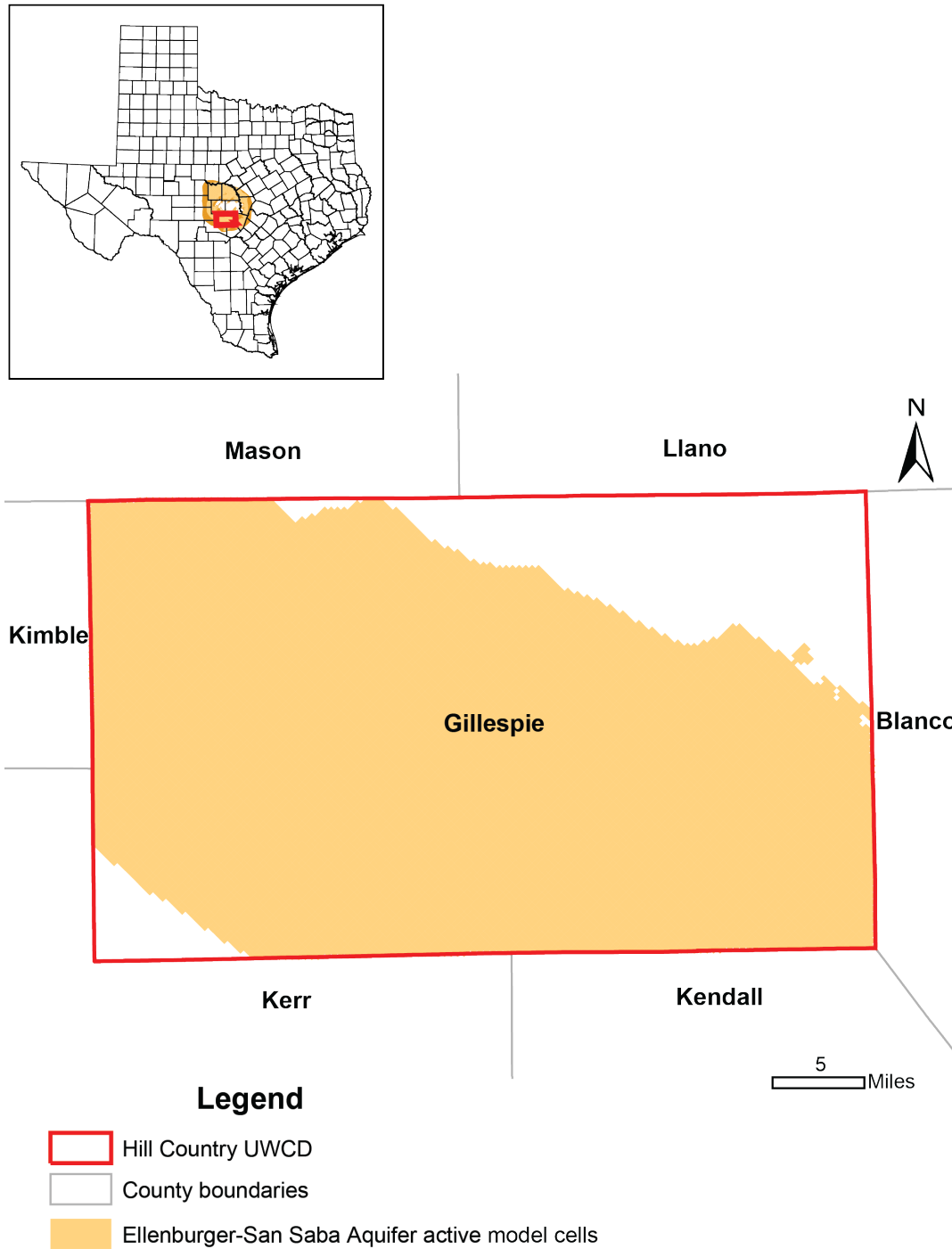
\* Flow to underlying units includes net outflow of 60 acre-feet per year to Ellenburger-San Saba Aquifer. Values come from the groundwater availability model for the minor aquifers of the Llano Uplift.

*Caveat: This diagram only includes the water budget items provided in Table 2. A complete water budget would include additional inflows and outflows. For a full groundwater budget, please submit a request in writing to the Groundwater Modeling Department.*

**Figure 4: Generalized diagram of the summarized budget information from Table 2, representing directions of flow for the Trinity Aquifer within the Hill Country Underground Water Conservation District. Flow values are expressed in acre-feet per year.**

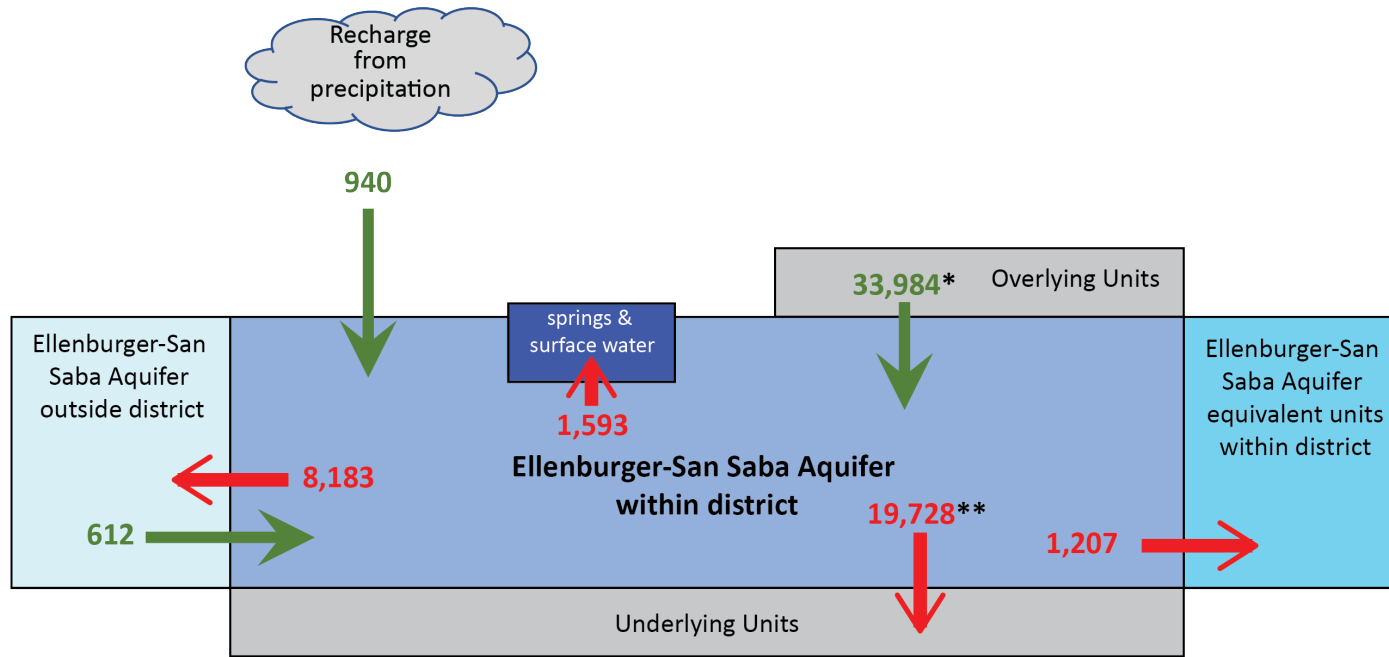
**Table 3: Summarized information for the Ellenburger-San Saba Aquifer that is needed for the Hill Country Underground Water Conservation District groundwater management plan. All values are reported in acre-feet per year and rounded to the nearest 1 acre-foot.**

Management plan requirement	Aquifer or confining unit	Results
Estimated annual amount of recharge from precipitation to the district	Ellenburger-San Saba Aquifer	940
Estimated annual volume of water that discharges from the aquifer to springs and any surface water body including lakes, streams, and rivers	Ellenburger-San Saba Aquifer	1,593
Estimated annual volume of flow into the district within each aquifer in the district	Ellenburger-San Saba Aquifer	612
Estimated annual volume of flow out of the district within each aquifer in the district	Ellenburger-San Saba Aquifer	8,183
Estimated net annual volume of flow between each aquifer in the district	To Ellenburger-San Saba Aquifer from Edwards-Trinity (Plateau) Aquifer	535
	To Ellenburger-San Saba Aquifer from Trinity Aquifer	60
	To Ellenburger-San Saba Aquifer from Pennsylvanian confining units	54
	From Ellenburger-San Saba Aquifer to Marble Falls Formation	348
	To Ellenburger-San Saba Aquifer from Mississippian confining units	33,683
	From Ellenburger-San Saba Aquifer to Ellenburger-San Saba Aquifer equivalent units	1,207
	From Ellenburger-San Saba Aquifer to Cambrian confining units	23,738
	To Ellenburger-San Saba Aquifer from Hickory Aquifer	3,381
	To Ellenburger-San Saba Aquifer from Pre-Cambrian confining units	629



GCD boundary date = 06.26.20, County boundary date = 07.03.19, Inup\_grid\_poly010620

**Figure 5: Area of the Minor Aquifers of the Llano Uplift groundwater availability model from which the information in Table 3 was extracted (the Ellенburger-San Saba Aquifer extent within the district boundary).**



\* Flow from overlying units includes net inflow of 535 acre-feet per year from Edwards-Trinity (Plateau) Aquifer, 60 acre-feet per year from Trinity Aquifer, and 33,737 acre-feet per year from overlying confining units, and net outflow of 348 acre-feet per year to Marble Falls Formation equivalent units.

\*\* Flow to underlying units includes net inflow of 3,381 acre-feet per year from Hickory Aquifer and 629 acre-feet per year from Pre-Cambrian confining unit, and net outflow of 23,738 to underlying confining unit.

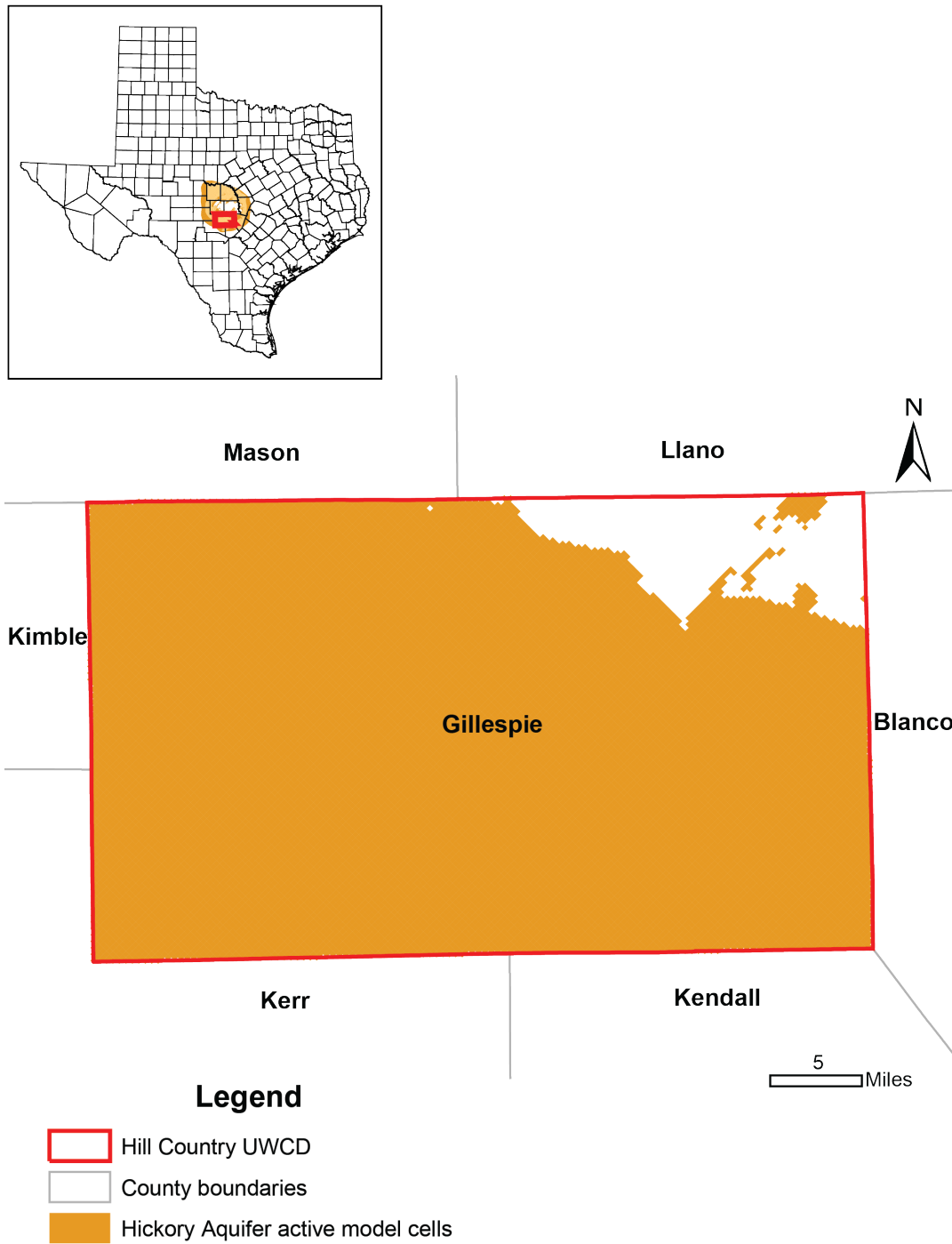
*Caveat: This diagram only includes the water budget items provided in Table 3. A complete water budget would include additional inflows and outflows. For a full groundwater budget, please submit a request in writing to the Groundwater Modeling Department.*

**Figure 6: Generalized diagram of the summarized budget information from Table 3, representing directions of flow for the Ellenburger-San Saba Aquifer within the Hill County Underground Water Conservation District. Flow values are expressed in acre-feet per year.**



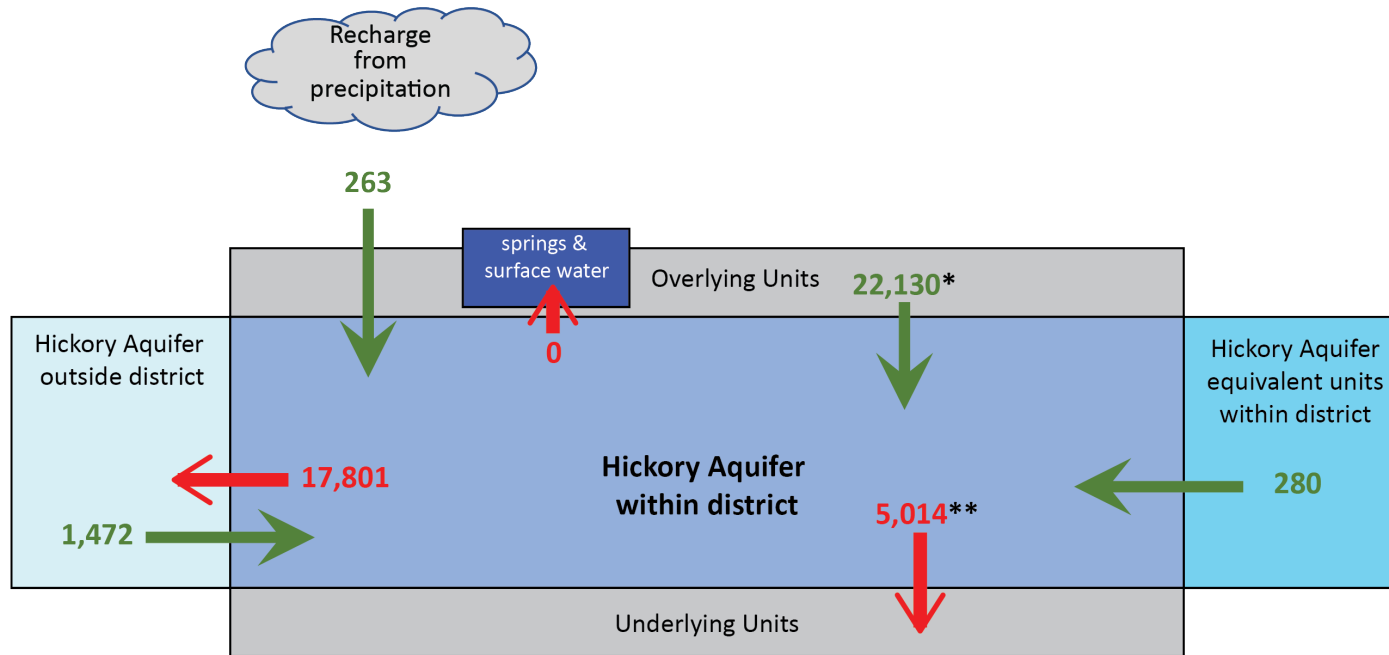
**Table 4: Summarized information for the Hickory Aquifer that is needed for the Hill Country Underground Water Conservation District groundwater management plan. All values are reported in acre-feet per year and rounded to the nearest 1 acre-foot.**

Management plan requirement	Aquifer or confining unit	Results
Estimated annual amount of recharge from precipitation to the district	Hickory Aquifer	263
Estimated annual volume of water that discharges from the aquifer to springs and any surface water body including lakes, streams, and rivers	Hickory Aquifer	0
Estimated annual volume of flow into the district within each aquifer in the district	Hickory Aquifer	1,472
Estimated annual volume of flow out of the district within each aquifer in the district	Hickory Aquifer	17,801
Estimated net annual volume of flow between each aquifer in the district	To Hickory Aquifer from Edwards-Trinity (Plateau) Aquifer	11
	From Hickory Aquifer to Marble Falls Formation	132
	From Hickory Aquifer to Mississippian confining units	22
	From Hickory Aquifer to Ellenburger-San Saba Aquifer	3,381
	To Hickory Aquifer from Ellenburger-San Saba Aquifer equivalent units	291
	To Hickory Aquifer from Cambrian confining units	25,363
	From Hickory Aquifer to Hickory Aquifer equivalent units	280
	From Hickory Aquifer to Pre-Cambrian confining units	5,014



GCD boundary date = 06.26.20, County boundary date = 07.03.19, Inup\_grid\_poly010620

**Figure 7: Area of the Minor Aquifers of the Llano Uplift groundwater availability model from which the information in Table 4 was extracted (the Hickory Aquifer extent within the district boundary).**



\* Flow from overlying units includes net inflow of 11 acre-feet per year from Edwards-Trinity (Plateau) Aquifer, 291 acre-feet per year from Ellenburger-San Saba Aquifer equivalent units, and 25,363 acre-feet per year from overlying confining units, and net outflow of 132 acre-feet per year to Marble Falls Formation equivalent units, 22 acre-feet per year to overlying confining unit, and 3,381 acre-feet per year to Ellenburger-San Saba Aquifer.  
 \*\* Flow to underlying units includes net outflow of 5,014 acre-feet per year to Pre-Cambrian confining unit.

*Caveat: This diagram only includes the water budget items provided in Table 4. A complete water budget would include additional inflows and outflows. For a full groundwater budget, please submit a request in writing to the Groundwater Modeling Department.*

**Figure 8: Generalized diagram of the summarized budget information from Table 4, representing directions of flow for the Hickory Aquifer within the Hill County Underground Water Conservation District. Flow values are expressed in acre-feet per year.**

## ***LIMITATIONS:***

The groundwater models used in completing this analysis are the best available scientific tools that can be used to meet the stated objectives. To the extent that this analysis will be used for planning purposes and/or regulatory purposes related to pumping in the past and into the future, it is important to recognize the assumptions and limitations associated with the use of the results. In reviewing the use of models in environmental regulatory decision making, the National Research Council (2007) noted:

*“Models will always be constrained by computational limitations, assumptions, and knowledge gaps. They can best be viewed as tools to help inform decisions rather than as machines to generate truth or make decisions. Scientific advances will never make it possible to build a perfect model that accounts for every aspect of reality or to prove that a given model is correct in all respects for a particular regulatory application. These characteristics make evaluation of a regulatory model more complex than solely a comparison of measurement data with model results.”*

A key aspect of using the groundwater model to evaluate historic groundwater flow conditions includes the assumptions about the location in the aquifer where historic pumping was placed. Understanding the amount and location of historical pumping is as important as evaluating the volume of groundwater flow into and out of the district, between aquifers within the district (as applicable), interactions with surface water (as applicable), recharge to the aquifer system (as applicable), and other metrics that describe the impacts of that pumping. In addition, assumptions regarding precipitation, recharge, and interaction with streams are specific to particular historic time periods.

Because the application of the groundwater models was designed to address regional scale questions, the results are most effective on a regional scale. The TWDB makes no warranties or representations related to the actual conditions of any aquifer at a particular location or at a particular time.

It is important for groundwater conservation districts to monitor groundwater pumping and overall conditions of the aquifer. Because of the limitations of the groundwater model and the assumptions in this analysis, it is important that the groundwater conservation districts work with the TWDB to refine this analysis in the future given the reality of how the aquifer responds to the actual amount and location of pumping now and in the future. Historic precipitation patterns also need to be placed in context as future climatic conditions, such as dry and wet year precipitation patterns, may differ and affect groundwater flow conditions.

**REFERENCES:**

- Anaya, R., and Jones, I., 2009, Groundwater availability model for the Edwards-Trinity (Plateau) and Pecos Valley aquifers of Texas: Texas Water Development Board, Report 373, 103 p.
- Anaya, R., 2018, GAM Run 17-009: Texas Water Development Board, GAM Run 17-009 Report, 17 p., <https://www.twdb.texas.gov/groundwater/docs/GAMruns/GR17-009.pdf>.
- Harbaugh, A. W., 2009, Zonebudget Version 3.01, A computer program for computing subregional water budgets for MODFLOW ground-water flow models, U.S. Geological Survey Groundwater Software.
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- National Research Council, 2007, Models in Environmental Regulatory Decision Making Committee on Models in the Regulatory Decision Process, National Academies Press, Washington D.C., 287 p., [http://www.nap.edu/catalog.php?record\\_id=11972](http://www.nap.edu/catalog.php?record_id=11972).
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- Shi, J., Boghici, R., Kohlrenken, W., and Hutchison, W.R., 2016, Numerical Model Report: Minor Aquifers of the Llano Uplift Region of Texas (Marble Falls, Ellenburger-San Saba, and Hickory). Texas Water Development Board, 403p.
- Texas Water Code § 36.1071 , 2011,  
<http://www.statutes.legis.state.tx.us/docs/WA/pdf/WA.36.pdf>

## Appendix C

### RESOLUTION NO. 2023-4

#### RESOLUTION ADOPTING AMENDMENTS TO THE DISTRICT RULES

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WHEREAS, Section 36.101(a), Water Code, provides that “A district may make and enforce rules, including rules limiting groundwater production based on tract size or the spacing of wells, to provide for conserving, preserving, protecting, and recharging of the groundwater or of a groundwater reservoir or its subdivisions in order to control subsidence, prevent degradation of water quality, or prevent waste of groundwater and to carry out the powers and duties provided” by Chapter 36;

WHEREAS, on the 14th day of November 2023 the Board of Directors adopted amendments relating to the withdrawal of groundwater and operation of the District;

WHEREAS, the Board of Directors at its regular monthly meeting on the October 10, 2023 called a public hearing for 9:30 a.m. on the 14th day of November 2023 for the purpose of receiving public comment on proposed amendments to the District rules;

WHEREAS, notice of said public hearing was duly advertised, and notice of the public hearing given in accordance with Section 36.101(d), Water Code;

WHEREAS, said public hearing was held at 9:30 a.m. on the 14th day of November 2023, at which time the Board received and considered written and oral comments regarding the proposed amendments;

WHEREAS, following the public hearing the Board of Directors reviewed the proposed rule amendments in light of any comments received;

WHEREAS, a copy of the final draft of the rule amendments are attached hereto and incorporated herein in full;

WHEREAS, all references herein citing sections of the Texas Water Code Chapter 36 as authority shall be shown as sections or subsections of said Code; and

WHEREAS, on the 14th day of November 2023 the Board of Directors, in an open meeting properly noticed and called for that purpose, considered the revised draft rule amendments.


NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE HILL COUNTRY UNDERGROUND WATER CONSERVATION DISTRICT THAT:

1. The attached amendments to the rules of the District are hereby approved and adopted by the Board of Directors and shall be used to expeditiously and effectively implement the provisions of the District Enabling Act and Chapter 36, Water Code, and govern procedures before the Board of Directors.
2. The General Manager of the District is authorized to publish said amended rules and make them available for use and inspection at the District's office and provide copies to any person or persons upon request.
3. The General Manager is further authorized to take any and all action necessary to implement this resolution.
4. The attached amendments shall take effect immediately for all applications for new or amended permits and shall take effect at the time of renewal for existing permits. These rules replace or amend the rules adopted August 14, 2018.

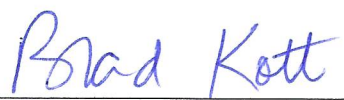
AND IT IS SO ORDERED.

PASSED AND ADOPTED ON THIS THE 14TH DAY OF NOVEMBER 2023.

HILL COUNTRY UNDERGROUND WATER CONSERVATION DISTRICT

BY:   
Taylor Virdell  
Chairman of the Board

ATTEST:

  
Brad Kott  
Secretary-Treasurer of the Board

**HILL COUNTRY UNDERGROUND**  
**WATER CONSERVATION DISTRICT**

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**DISTRICT RULES**

**AMENDED & ADOPTED NOVEMBER 14, 2023**



**HILL COUNTRY UNDERGROUND WATER  
CONSERVATION DISTRICT**

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## **PREAMBLE FOR EXEMPT, NON-EXEMPT AND HISTORIC (GRANDFATHERED) WELL**

The Hill Country Underground Water Conservation District (District) is governed and controlled by the set of statutes found in Chapter 36 of the Texas Water Code. All wells in Gillespie County must be registered or permitted with the District. It is a violation of District Rules for a well owner, well operator, or water well driller to drill any well without the approved form filed with the District.

To determine whether a well will carry an exempt or non-exempt status, there are specific conditions or specific exempt criteria that will need to be met. Exempt wells and non-exempt wells have to be drilled according to the District's well construction and setback requirements according to their status.

Please note the District considers the supply of groundwater to any surface reservoir or impoundment (See Definition Rule 1.1) to a volume of greater than 50,000 gallons as a waste and therefore not allowed, except as provided in District Rules (Rule 5.2F: *This exclusion is not applicable to commercial irrigators who use a surface reservoir or impoundment for temporary daily storage of groundwater prior to irrigation use.*).

Exemptions, exceptions and limitations including but not limited to Rule 5.2 and Definitions can be found in these rules.

### **Exempt Well**

An Exempt Well (Registered Well) is generally a well used to supply groundwater for domestic and livestock purposes. The use of groundwater by an individual, a household, a small business where the groundwater is used only in the lavatories and kitchen utilized by the owner(s) and employees of the business and not used in the business operation is an exempt well and does not require a permit, but must be registered with the District.

Wells that are not required to be registered or permitted include: Injection Well, Closed Loop Geothermal Wells, Dewatering Wells, Remediation Wells and Oil and Gas Drilling. (Contact District for these types)

### **Non-Exempt Well**

A Permitted Well (non-exempt well) is a well-used to supply groundwater water for uses such as commercial, industrial, public water supply or irrigation. A Permit is required for the following uses:

- Commercial: such as schools, restaurants, corner stores, event/lodging venues, tasting rooms. This includes a well that supplies groundwater to more than 4 dwellings (household)
- Irrigation: golf courses, large-scale landscaping, nurseries, green houses, crop production (i.e. hay, vegetables, fruit). Large-scale landscaping includes irrigation of lawns or other landscape areas greater than ½ acre.
- Industrial: such as manufacturing, quarries/mines & process facilities

- Public Water Supply: such as retail or wholesale public water systems
- Transport of Water

### **Historic (Grandfathered) Well**

An Historic (Grandfathered) Well is a well that was in existence prior to November 9, 1999 that had been used for municipal, irrigation, or commercial purposes, and capable of producing more than 17.5 gallons per minute. Landowners were given the opportunity, with a deadline, to grandfather their well by making application with District, and as such, the well was allowed to continue to operate as it had in the past with no cap. However, should the well be altered or a change in usage from what was grandfathered, a new permit is required and the well must ~~have~~ ~~to~~ meet current District Rules, including an annual production amount assigned to the well.

## **RULES OF THE HILL COUNTRY UNDERGROUND WATER CONSERVATION DISTRICT**

These Rules become effective upon adoption by the District Board of Directors.

**CHAPTER 36 REFERENCES:** All references herein citing sections of the Texas Water Code Chapter 36 as authority shall be shown as sections or subsections of said Code, i.e. (36.113) shall reference Section 36.113 of the Texas Water Code.

**OTHER STATUTORY AND REGULATORY REFERENCES:** All references to Texas statutes and the Texas Administrative Code shall be to those statutes and regulations as amended.

## **RULE 1. DEFINITIONS AND CONCEPTS**

**RULE 1.1**    **DEFINITIONS.** The definitions that follow are presented in alphabetical order. The order of appearance does not imply or mean to assign priority or relative importance.

“**Abandoned Well**” shall mean a well that has not been used for six consecutive months. A well is considered to be in use in the following cases: (A) a non-deteriorated well that contains the casing, pump, and pump column in good condition; or (B) a non-deteriorated well that has been capped.

“**Acre-foot**” means 325,851 U.S. gallons of water or approximately 326,000 U.S. gallons of water.

“**Agricultural**” shall mean any of the following activities:

- (A)    cultivating the soil to produce crops for human food, animal feed, or planting seed or for the production of fibers;
- (B)    the practice of aqua culture, floriculture, viticulture, silviculture, and horticulture, including the cultivation of plants in containers or nonsoil media, by a nursery grower;
- (C)    raising, feeding, or keeping animals for breeding purposes or for the production of food or fiber, leather, pelts, or other tangible products having a commercial value;
- (D)    planting cover crops, including cover crops cultivated for transplantation, or leaving land idle for the purpose of participating in Federal CRIP program or normal crop or livestock rotation procedure;
- (E)    wildlife management; and
- (F)    raising or keeping equine animals.

“**Agricultural Use**” shall mean using water for any use or activity involving agriculture.

“**Annular Space**” shall mean the space between the well casing and the borehole wall.

“**Applicant**” shall mean a person applying for a permit or permit amendment.

“**Aquifer**” shall mean a formation or group of saturated geologic units capable of storing and yielding water in usable quantities.

**“Aquifer Mining”** shall mean the existence of that condition where the average annual available recharge of an aquifer or portion of an aquifer is less than the annual production from that aquifer. For purposes of these rules the terms “aquifer overdrafting”, “reduction of artesian pressure”, and “the drawdown of the water table or aquifer”, shall mean aquifer mining.

**“Artesian Pressure”** shall mean the pressure in a confined aquifer created by the overlying and underlying confining units.

**“Beneficial Use or Beneficial Purpose”** shall mean groundwater use for:

- (A) agricultural, gardening, domestic, stock raising, municipal, mining, manufacturing, industrial, commercial, recreational, fish and wildlife, or pleasure purposes;
- (B) exploring for, producing, handling, or treating oil, gas, sulfur, or other minerals; or
- (C) any other purpose that is useful and beneficial to the users that is of economic use and does not commit waste as defined in this rule.

**“Bentonite”** shall mean a sodium hydrous aluminum silicate clay mineral (montmorillonite) commercially available in powdered, granular, or pellets form that is mixed with potable water and used for a variety of purposes including the stabilization of borehole walls during drilling, the control of potential or existing high fluid pressures encountered during drilling below a water table, and to provide a seal in the annular space.

**“Board”** shall mean the Board of Directors of the Hill Country Underground Water Conservation District.

**“Buffer Zone”** shall mean a transition zone between a designated High Historical Groundwater Use Area or a Critical Groundwater Depletion Area and adjacent areas that are not in a High Historical Groundwater Use Area or a Critical Groundwater Depletion Area.

**“Casing”** shall mean a tubular watertight structure installed in the excavated or drilled hole to maintain the well openings.

**“Cement”** shall mean a neat Portland or construction cement mixture of not more than seven (7) gallons of water per ninety-four (94) pound sack of dry cement, or cement slurry that contains cement along with bentonite, gypsum or other additives.



**“Conservation”** shall mean practices, techniques and technologies that will reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water, or increase the recycling and use of water.

**“Contiguous”** shall mean property within a continuous perimeter boundary situated within the District. Contiguous may also apply to properties that are divided by a road or highway if the properties border one another.

**“Critical Groundwater Depletion Area” (CGDA)** shall mean an area in the District where pumpage has caused a drawdown of the water table or a reduction of artesian pressure to an extent that aquifer mining is occurring.

**“Desired future condition”** means a quantitative description, adopted in accordance with Section 36.108, Water Code, of the desired condition of the groundwater resources in a management area at one or more specified future times as adopted by Groundwater Management Area 7.

**“Deteriorated Well”** shall mean a well, the condition of which will cause, or is likely to cause, pollution of any groundwater in the District.

**“District”** shall mean the Hill Country Underground Water Conservation District created by the Acts of the 70th Legislature (1987), HB 792, and Chapter 865 in accordance with Article XVI, Section 59 of the Texas Constitution and Chapter 35 and 36 of the Texas Water Code, as amended.

**“District Act”** shall mean Chapter 8834, Special District Local Laws Code.

**“District Office”** means the main office of the District located in Fredericksburg, Gillespie County, Texas.

**“Domestic Use”** shall mean use of groundwater by an individual or a household to support essential domestic activity. Such essential domestic activity includes water for uses inside the home; for irrigation of lawns, flower beds, shrubs, trees shading the home, or a family garden or orchard with manual sprinklers and garden hoses for watering of domestic animals; for protection of foundations; and for recreation specifically only for swimming pools. Essential domestic activity does not include:

- (A) water used to support activities for which consideration is given or for which the product of the activity is sold;
- (B) the irrigation of lawns or other landscaped areas of greater than ½ acre by sprinkler or other system, whether above ground or below ground, permanent or temporary (other than hand-held hose or single sprinkler attached to a garden hose).

- (C) the supply of groundwater to any surface reservoir to a volume of greater than 50,000 gallons except as provided in District Rules.
- (D) non-closed system geothermal heating/cooling systems.

**“Enforcement Action”** shall mean an action taken by the District to enforce District Rules or any other law within its authority.

**“Enforcement Hearing”** shall mean a hearing held on an enforcement action that is noticed and conducted according to the procedures of Rule 12.4.

**“Exempt (Registered) well”** means a new or an existing well that is exempt from permitting requirement under these Rules.

**“Existing well”** means a well that has been drilled.

**“Export Permit”** shall mean any type of permit issued by the District that relates to the export of water outside the District boundaries.

**“Groundwater”** shall mean water percolating below the surface of the earth.

**“Hazardous substances”** shall mean any substance designated as a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 40 CFR Part 302, as amended.

**“Hazardous wastes”** shall mean any “solid waste,” as that term is defined by 30 Texas Administrative Code 335.1, identified or listed as a hazardous waste by the administrator of the Environmental Protection Agency pursuant to the federal Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, 42 United States Code 6901 et seq., as amended.

**“Hearings Officer”** shall mean any person appointed by the Board to conduct a hearing.

**“High Historical Groundwater Use Area” (HHGUA)** shall mean those areas of the District in which historical groundwater use is such that additional production will have adverse effect on historical users.

**“Historical Users”** shall mean well owners to whom Historic Use permits have been issued by the District.

**“Historic (Grandfathered) Well”** is a well that was in existence prior to November 9, 1999 that had been used for municipal, irrigation, or commercial purposes, and capable of producing more than 17.5 gallons per minute. Landowners were given the opportunity, with a deadline, to grandfather their well by making application with District, and as such, the well was allowed to continue

to operate as it has had in the past with no cap. However, should the well be altered or a change in usage from what was grandfathered, a new permit is required and the well must meet current District Rules, including an annual production amount assigned to the well.

**Household** shall mean (Rule 5.2C) a single detached dwelling, no shared walls. This does not include multi-family dwellings where structures are attached together (i.e., duplex, condos, hotel, boarding house).

**“Hydrogeological Study”** shall mean a report that identifies the availability of groundwater in a particular area and formation, and also addresses the issues of quantity and quality of that water and the impacts of pumping that water on the surrounding environment including impacts to nearby or adjacent wells.

**“Irrigation System, Installer, and Irrigator”** shall mean that as defined in 30 Texas Administrative Code, Section 344.1.

**“Landscape Irrigation”** shall mean systems or devices used to deliver water to lawns and shrubbery at private residences and at commercial establishments for solely ornamental purposes.

**“Landowner”** shall mean, without limitation, any person having legal title to the real property on which a water well or proposed water well is located or is to be located.

**“Livestock Use”** – the use of groundwater to provide water for domesticated horses, cattle, goats, sheep, swine, poultry, ostriches, emus, rheas, fish, exotic deer and antelope, and other similar animals involved in farming or ranching operations, including maintaining up to 50,000 gallons of groundwater storage in ponds, lakes, tanks, reservoirs, or other surface impoundments for holding water located on the person’s property. Dogs, cats, birds, reptiles, small mammals, potbellied pigs, and other animals typically kept as domestic pets are not considered livestock. Livestock-type animals kept as pets or in a pet-like environment are not considered livestock.

**“Lot”** shall mean any single contiguous parcel of land covered by deed.

**“Meter” or “measurement device”** means a water flow measuring device that can measure within +/- 5% of accuracy the instantaneous rate of flow and record the amount of groundwater produced or transferred from a well or well system during a measure of time.

**“Modeled Available Groundwater”** shall mean the amount of water that may be produced on an average annual basis to achieve the adopted desired future condition.

“**Municipal**” shall mean all those wells used to provide water to the public that are identified and defined by the Texas Commission on Environmental Quality (TCEQ).

“**New well**” means a well that has not been drilled.

“**Non-exempt (permitted) well**” means an existing or a new well that does not qualify for exempt well status under these Rules

“**Open or Uncovered Wells**” shall mean an excavation at least ten feet in depth dug for the purpose of producing underground water and is not covered or capped as required by the Texas Water Code.

“**Open Meetings Act**” shall mean Chapter 551, Government Code.

“**Operating Permit**” shall mean any type of permit issued by the District that relates to the operation of or production from a water well, which may include authorization to drill or complete a water well.

“**Other Aquifer Penetration**” shall mean any penetration of an aquifer within the District including oil and gas test wells; mineral test wells (stratigraphic or core holes or geophysical shot holes); or any other penetrations that fall in the oversight of the TCEQ or Texas Railroad Commission.

“**Party in a Contested Hearing**” shall mean an applicant or other persons who have a justiciable interest related to a legal right, duty, privilege, power, or economic interest that is within the District’s regulatory authority and that may be affected by a permit or permit amendment. Said party shall not include persons who have an interest common to members of the public.

“**PCBs or polychlorinated biphenyls**” shall mean compounds subject to Title 40, Code of Federal Regulations (CFR), Part 761, as amended.

“**Person**” shall mean any individual, partnership, firm, governmental agency, political subdivision, corporation, or other legal entity.

“**Pollution**” shall mean the alteration of the physical, thermal, chemical, or biological quality of, or the contamination of, any water in the District that renders the water harmful, detrimental, or injurious to humans, animal life, vegetation, or property, or to public health, safety or welfare, or impairs the usefulness of the water for any lawful or reasonable purpose.

“**Positive Displacement Method**” shall mean the process in which the cement, bentonite or a combination of the two sealing material is forced through the well casing followed by water or drilling fluids, via a mechanical pump and out through relief holes in the casing at the maximum depth of the zone to be grouted.

The grout then returns under pressure to the surface through the annular space and upon curing or setting causing an annular seal. (As defined by current rules and regulations of Water Well Drillers and Water Well Pump Installers, Texas Administrative Code, Chapter 76)

**“Presiding Officer”** shall mean the Chairman, Vice Chairman, Secretary, or other Board member presiding at any hearing or other proceeding, or an Hearings Officer.

**“Pump”** means any facility, device, equipment, materials, or method used to obtain water from a well.

**“Public Water System”** means a system supplying water to a number of connections or individuals, as defined by current rules and regulations of the TCEQ, 30 TAC Chapter 290.

**“Public Information Act”** shall mean Chapter 552, Government Code.

**“Radioactive wastes”** shall mean any waste that contains radioactive material in concentrations that exceed those listed in 10 Code of Federal Regulations (CFR) Part 20, Appendix B, Table II, Column 2, as amended.

**“Reclaimed water”** shall mean domestic or municipal wastewater that has been treated to a quality suitable for a beneficial use, pursuant to the provisions of 30 TAC Chapter 210 and other applicable rules and permits.

**“Registration”** means a well owner providing certain information about a well to the District for the District’s records, as more particularly described under Rule 6.1.

**“Respondent”** shall mean the individual who receives a notice of violation under Rule 12.4.

**“Retail Public Utility”** shall mean any person, corporation, public utility, water supply or sewer service corporation, municipality, political subdivision, or agency operating, maintaining, or controlling in ~~this state~~ the State facilities for providing potable water service or service, or both, for compensation.

**“Rules”** shall mean the rules of the District compiled in this document and as may be supplemented or amended from time to time.

**“Rulemaking Hearing”** shall mean a Board meeting noticed and conducted according to Rule 12.1 at which the Board considers changes to District Rules, Management Plan, High Historical Groundwater Use Areas, or Critical Groundwater Depletion Areas and during which the public has an opportunity to comment on such changes.

**“Service Area”** shall mean:

- (A) that area only to which water is being applied within the contiguous area in which the well is located;
- (B) the total acreage within the corporate boundary of a municipality in the case of a municipal water utility;
- (C) except for those lots defined in a platted subdivision that will be added to the existing service of the servicing Retail Public Utility, the number of connections of a Retail Public Utility outside municipal corporate boundaries based on 1/2 acre per connection; or
- (D) In contiguous areas of unknown service area, service area will be defined based on the contiguous area on which the well is located.

In each case the Service Area may be reduced for each lot or property that has an operating or operable well and any acreage associated with that well.

**“Surface Reservoir” or “Surface Impoundment”** an artificial lake, pond, swimming pool, tank or human made excavation where water or groundwater is stored.

**“Tail Water”** shall mean groundwater pumped for irrigation that escapes irrigation tailwater onto land other than that of the owner of the well unless permission has been granted by the occupant of the land receiving the discharge.

**“Temporary Permit”** – shall mean a temporary permit to operate or perform another activity that is not related to a non-exempt well, but the usage is not considered exempt, for a set time and production amount assigned.

**“Toxic pollutants”** shall mean any pollutants subject to regulation under 40 Code of Federal Regulations (CFR), Chapter I, Part 129, as defined in 40 CFR 129.4, as amended.

**“Transport”** shall mean moving water from one well location(s) in the District to another noncontiguous location(s) in the District.

**“Tremie Pipe Method”** shall mean a procedure that uses a pump to convey cement down the borehole via pipe, hose or tube, as defined by the current rules and regulation of Water Well Drillers and Water Well Pump Installers, Texas Administrative Code, Chapter 76. Tremie Pipe Method is the process in which a small diameter pipe or tubing is inserted in the annular space of the well to the

maximum depth of the zone to be sealed, before the grouting procedure is commenced to pump sealing material through. The tubing or pipe may be retrieved during the grouting process, causing an annual seal.

**“Waste”** shall mean any one or more of the following:

- (A) withdrawal of groundwater from a groundwater reservoir at a rate and in an amount that causes or threatens to cause intrusion into the reservoir of water unsuitable for agricultural, gardening, domestic, or stock raising purposes;
- (B) the flowing or producing of wells from a groundwater reservoir if the water produced is not used for a beneficial purpose;
- (C) escape of groundwater from a groundwater reservoir to any other reservoir or geologic strata that does not contain groundwater;
- (D) pollution or harmful alteration of groundwater in a groundwater reservoir by saltwater or by other deleterious matter admitted from another stratum or from the surface of the ground;
- (E) other than allowed by these rules willfully or negligently causing, suffering, or allowing groundwater to escape into any river, creek, natural watercourse, depression, lake, reservoir, drain, sewer, street, highway, road, or road ditch, or onto any land other than that of the owner of the well unless such discharge is authorized by permit, rule, or order issued by the commission under Chapter 26;
- (F) groundwater pumped for irrigation or landscape irrigation (watering of lawn or shrubbery) that escapes as irrigation tail water onto land other than that of the owner of the well unless written permission has been granted by the occupant of the land receiving the discharge;
- (G) for water produced from an artesian well, waste has the meaning assigned by Section 11.205, Water Code;
- (H) the supply of groundwater to any surface reservoir or impoundment (See Definition Rule 1.1) to a volume of greater than 50,000 gallons except as provided in District Rules;

- (I) groundwater pumped for industrial use or application in excess of that quantity, if any, recognized by the industry according to its Standard Industrial Code (SIC) classification as being the maximum amount of water necessary to efficiently meet the demands for the particular use or application to which the groundwater is being made;
- (J) groundwater used for heating or cooling that is allowed to drain onto the land surface as tail water and is not re-circulated back to the aquifer (a non-closed system).

“**Well Owner**” shall mean a person who owns or operates a water well.

“**Year**” means a calendar year (January 1 through December 31), except where the usage of the term clearly suggests otherwise.

**RULE 1.2 PURPOSE OF RULES.** These rules are adopted to achieve the provisions of the District Act and accomplish its purposes. The District’s purpose is also to protect property rights, balance the conservation and development of groundwater to meet the needs of this State, and use the best available science in the conservation and development of groundwater.

**RULE 1.3 USE AND EFFECT OF RULES.** The District uses these rules as guides in the exercise of the powers conferred by law and in the accomplishment of the purposes of the District Act. They may not be construed to deprive the District or Board of the exercise of any powers, duties or jurisdiction conferred by law, nor be construed to limit or restrict the amount and character of data or information that may be required to be collected for the proper administration of the District Act.

**RULE 1.4 ACTIONS ON RULES.**

- B.** All changes to the District’s Rules will be made after notice and hearing by using the procedure required by Rule 12.1. Such changes include repeal or amendment of existing Rules and the adoption of new Rules.
- B.** The Board may adopt an emergency Rule without prior notice or hearing, or with an abbreviated notice and hearing, according to Rule 12.2 (36.1001).

**RULE 1.5 HEADINGS AND CAPTIONS.** The section and other headings and captions contained in these rules are for reference purposes only. They do not affect the meaning or interpretation of these rules in any way.



**RULE 1.6 CONSTRUCTION.** A reference to a title, chapter or section without further identification is a reference to a title, chapter or section of the Water Code. Construction of words and phrases are governed by the Code Construction Act, Subchapter B, Chapter 311, Government Code.

**RULE 1.7 METHODS OF SERVICE UNDER THESE RULES.** Except as otherwise expressly provided in these rules, any notice or documents required by these rules to be served or delivered may be delivered to the recipient, or the recipient's authorized representative, in person, by agent, by courier receipted delivery, by certified mail sent to the recipient's last known address, or by telephonic document transfer to the recipient's current telecopier number or digitally signed email. Service by mail is complete upon transfer deposit in a post office or other official depository in the United States Postal Service. Service by telephonic document transfer is complete upon transfer, except that any transfer occurring after 5:00 p.m. Central Standard Time will be deemed complete on the following business day. Where service by one or more methods has been attempted and failed, the service is complete upon notice publication in a generally circulated newspaper in Gillespie County.

**RULE 1.8 SEVERABILITY.** If any one or more of the provisions contained in these rules are for any reason held to be invalid, illegal, or unenforceable in any respect, the invalidity, illegality, or unenforceability shall not affect any other rules or provisions of these rules, and these rules shall be construed as if such invalid, illegal or unenforceable rules or provision had never been contained in these rules.

## **RULE 2. BOARD**

- RULE 2.1 PURPOSE OF BOARD.** The Board was created to determine policy and regulate the withdrawal of groundwater within the boundaries of the District; for conserving, preserving, protecting and recharging the groundwater within the District; and to exercise its rights, powers, and duties in a way that will effectively and expeditiously accomplish the purposes of the District Act. The Board's responsibilities include, but are not limited to, the adoption and enforcement of reasonable rules and other orders.
- RULE 2.2 BOARD STRUCTURE, OFFICERS.** The Board consists of the members elected and qualified as required by the District Act. On each odd numbered year at its regular May meeting (if there is no May meeting, at its next regular meeting), the Board shall elect one of its members to serve as Chairman; one to serve as Vice Chairman; and one to serve as Secretary/Treasurer. Members and officers serve until their successors are elected or appointed and sworn in accordance with the District Act and these rules.
- RULE 2.3 MEETINGS.** The Board will hold a regular meeting once each month and as the Board may establish from time to time by resolution. At the request of the Chairman, or by written request of at least three members, the Board may hold special meetings. All Board meetings will be held according to the Texas Open Meetings Law.
- RULE 2.4 COMMITTEES.** The Chairman may establish committees for formulation of policy recommendations to the Board, and appoint the chair and membership of the committees. Committee members serve at the pleasure of the Chairman.

### **RULE 3. DISTRICT STAFF**

**RULE 3.1**    **GENERAL MANAGER.** The Board may employ a person to manage the District, and title this person general manager. The general manager shall have only those powers, duties, or responsibilities in performing District functions as determined by the Board. The general manager, with approval of the Board, may employ all persons necessary for the proper handling of business and operation of the District and their salaries shall be set by the Board.

## **RULE 4. DISTRICT**

**RULE 4.1 MINUTES AND RECORDS OF THE DISTRICT.** All documents, reports, records, and minutes of the District are available for public inspection and copying to the extent required by the Public Information Act. Upon written application of any person, the District will furnish copies of its public records. A copying charge shall be established pursuant to the Public Information Act. A list of the charges for copies will be furnished by the District.

**RULE 4.2 CERTIFIED COPIES.** Requests for certified copies must be in writing. A certification charge and copying charge may be assessed, pursuant to policies established by the Board of Directors.

**RULE 4.3 DISTRICT MANAGEMENT PLAN.** The District Management Plan specifies the acts, procedures, performances and avoidance necessary to prevent waste and the decline of the water table, and forms the basis of the District rules in regards to permitting decisions and other requirements imposed by the Board. The Board will review the plan at least every fifth year. The Board's action on the Plan, either to renew it or to amend or replace it, will occur after notice and hearing by using the procedure required by Rule 12.1. A plan, once adopted, remains in effect until the adoption of a new plan. The District Management Plan will be prepared in accordance with Section. 36.1071.

**RULE 4.4 JOINT PLANNING IN MANAGEMENT AREA, DESIRED FUTURE CONDITIONS (DFC), APPEAL OF DESIRED FUTURE CONDITIONS AND MODELED AVAILABLE GROUNDWATER (MAG).**

- (1) The District will participate in joint planning with other Districts comprising the Groundwater Management Area (GMA) and develop the DFCs for appropriate aquifers within the District as outlined in Sections 36.108 and 36.1081, Water Code.
- (2) Affected person(s) may file a petition with the District requiring that the District contract with the State Office of Administration Hearing to conduct a hearing appealing the reasonableness of the adopted DFC. The procedures for carrying out the process will be those as outlined in Section 36.1083, Water Code.
- (3) Once the DFCs are final, they will be submitted to the Texas Water Development Board (TWDB) for the calculation of the MAG, as outlined in Section 36.1084, Water Code. The MAG in the District will be used by the District in the development of its Management Plan and in the District's review and granting, amending or denying well permit applications.

**RULE 4.5 DISTRICT BUDGET AND ANNUAL AUDIT.** Annually the District will prepare a budget that will cover the District's operating cost for the financial year beginning October 1<sup>st</sup> and ending September 30<sup>th</sup> of each calendar year. During this process all required public posting and hearings will be followed. Each year

the District will have an audit prepared by a certified public accountant. The audit will follow all generally accepted accounting principles as adopted by the American Institute of Certified Public Accountants.

## **RULE 5. WELL PERMITTING**

**RULE 5.1 PERMIT REQUIRED TO DRILL OR OPERATE A WELL.** No person may begin to drill or alter a well, or operate a well without having first received an approved registration form filed with the District to drill the well first as registered well or a permit from the District, unless an exemption under Rule 5.2 applies. All wells used for municipal, commercial, and irrigation, inclusive of wells used in landscape irrigation (watering of lawn or shrubbery) on greater than ½ acre and attached to an irrigation system; require permits prior to drilling or operation. Wells attached to irrigation systems used to irrigate landscape (watering of lawn or shrubbery) on ½ acre or less service area are exempt from obtaining a permit provided xeriscape and native vegetation from the local area and ground covers and turfs that require minimal water requirements are used in at least 75% of the area irrigated. Irrigation installers shall first ensure that a permit has been obtained from the District prior to system installation. Irrigation installers shall supply a schematic of the irrigation system to the District with the installer's seal stamped to the schematic.

Wells drilled pursuant to an exemption under Rule 5.2 are required to register under **Rule 6, Well Registration**. For purposes of these rules, alteration of a well, changes in permitted use, or loss of exemption shall require a new permit.

A permit issued by the District is based solely on the authority derived from the District's Enabling Legislation, District Rules, and Chapter 36 of the Texas Water Code. No other legal right to produce groundwater may be construed from a District-issued permit.

In issuing permits, the district shall manage total groundwater production on a long-term basis to achieve an applicable desired future condition and consider:

- (1) the modeled available groundwater determined by the executive administrator;
- (2) the executive administrator's estimate of the current and projected amount of groundwater produced under exemptions granted by district rules and Section 36.117;
- (3) the amount of groundwater authorized under permits previously issued by the district;
- (4) a reasonable estimate of the amount of groundwater that is actually produced under permits issued by the district; and
- (5) yearly precipitation and production patterns.

- A. Application for a well drilling and production permit shall be made to the District on forms promulgated by the District for all wells drilled and completed unless an exemption from permitting under Rule 5.2 applies. The information on the forms must be provided and if permit is granted, then the required information provided will become part of the permit. The District shall issue the following types of permits:
  - (1) Operating Permits and
  - (2) Export Permits.
- B. When approved by the District Board a Drilling Permit/Operating Permit shall authorize the drilling of the well and shall specify the location of the well, the annual maximum production allowed from the well, the maximum rate of withdrawal from the well, ownership of the well, and the permitted purpose of use and place of use of water from well. When approved by the District Board an Operating Permit shall authorize production from a well or aggregate well system, and shall specify the location of the well, the annual maximum production allowed from the well(s), the maximum rate of withdrawal from the well(s), and the permitted purpose of use and place of use of water from well(s).
- C. The District may impose more restrictive permit conditions (Section 36.113(e)) in a designated High Historical Groundwater Use Area (HHGUA) on new permit applications and permit amendment applications to increase use by historic users.
- D. The District may impose more restrictive permit conditions on existing permits and new permit applications in designated Critical Groundwater Depletion Area (CGDA).

**RULE 5.2 EXEMPTIONS; EXCEPTIONS; LIMITATIONS.** The following exemptions, exceptions and limitations apply to permitting of wells:

- A. A district by rule may provide an exemption from the district's requirement to obtain any permit required by Chapter 36.117 or the district's rules.
- B. Except as provided Chapter 36.117, a district shall provide an exemption from the district requirement to obtain a permit for
  - (1) Drilling or operating a well used solely for domestic use or proving water for livestock or poultry if the well is:
    - (a) located or to be located on a tract of land larger than 10 acres;

and

- (b) that is either drilled, completed or equipped so that it is incapable of producing more than 25,000 gallons of groundwater a day (36.117(b)(1)). (See Domestic Use Definition Rule 1.1)
- C. The District shall not require a permit for drilling a well for:
  - (1) a rig that is actively engaged in drilling or exploration operations for an oil or gas well permitted by the Railroad Commission of Texas provided that the person holding the permit is responsible for drilling and operating the water well and the water well is located on the same lease or field associated with the drilling rig in accordance with 36.117(b)(2), except that permits may be required by the District for water wells drilled for hydrocarbon production under conditions defined in 36.117(d)(1). Drilling or exploration operations for an oil and gas well does not include hydraulic fracturing operations or secondary recovery operations. The District may not require a permit for drilling a water well authorized under a permit issued by the Railroad Commission of Texas under Chapter 134, Natural Resources Code, or for production from the well to the extent the withdrawals are required for mining activities regardless of any subsequent use of the water.
  - (2) drilling a water well for temporary use to supply water for a rig that is actively engaged in drilling a groundwater production well permitted by the district, except as provided in this subsection, an exemption for a well described in this subsection may not exceed 180 days (Section 36.117 (d-1)). A district may grant an extension of the exemption until the well is complete.
- D. In addition to the exceptions required by law in Texas Water Code, Section 36.117 and by Rules 5.2(A) and (B), the District by these rules also exempts from requiring a permit for drilling or producing from a well on lot sizes ten (10) acres or less insofar as there shall be only one well used to supply groundwater to no more than four households for Domestic Use only. Wells exempted by the provisions of this sub-section C are required to register the well under Rule 6 and are subject to the regulations of Rule 9.
- E. Domestic exemption in Rule 5.2C is extended to certain commercial operations in which water is used only in the lavatories and kitchen utilized by the owner(s) and employees of the business and not used in the business operation. Outdoor water usage is also granted as defined in “Domestic Use” in Rule 1.1.
- F. A well to supply water for a subdivision of land for which plat approval is



required by Chapter 232, Local Government Code, is not exempted under Subsections A and C above.

- G.** Nothing in the exemptions of Rule 5.2(A), (C) and (D) above can be construed to allow waste of groundwater (See Waste Definition Rule 1.1) (36.0001(8)). The supply of groundwater to a surface reservoir (stock tank, lake, or other confinement) to a volume of greater than 50,000 gallons is considered waste. This exclusion is not applicable to commercial irrigators who use a surface reservoir or impoundment for temporary daily storage of groundwater prior to irrigation use. For livestock or wildlife management purposes any request for a permit to supply groundwater to a surface reservoir to a volume of greater than 50,000 gallons surface storage would be based on the total contiguous acreage and the carrying capacity of the acreage for the livestock or wildlife management watered.
- H.** At any time the production of a well exempted by Rule 5.2 is used for purposes other than those stated in Rule 5.2 the well is no longer exempted and continued use is a violation of District Rules subject to injunction and civil penalties
- I.** The District requires water wells exempted under this Rule 5.2 to be registered (Rule 6) with the District before drilling. Water wells exempted under this Rule shall be equipped and maintained so as to conform to the District's rules requiring installation of casing, pipe and fittings to prevent the escape of groundwater from a groundwater reservoir to any reservoir not containing groundwater and to prevent the pollution or harmful alteration from any source of the water in any groundwater reservoir.

**RULE 5.3 WELL PERMIT APPLICATION AND FEES.**

- A.** The permit application provided for herein must be filed with the District on the form or forms promulgated by the District, contain all requested information, be sworn to, and such permit must be obtained from the District prior to the drilling of a water well and production of water. Permit applications for landscape irrigation systems (watering of lawn or shrubbery) may be required to be accompanied by an affidavit certifying compliance with 30 Texas Administrative Code Chapter 344, Landscape Irrigators. Completed irrigation systems may be subject to District inspections.
- B.** All permit applications shall include a description of methods used in the system to:

  - (1) Prevent contamination of the groundwater supply, including as a minimum a backflow preventor on wells used for irrigation,

- (2) Achieve water conservation, and for landscape irrigation systems (watering of lawn or shrubbery) the devices used thereto, including as a minimum either a soil moisture sensor, relative humidity sensor or a rain sensor, and
  - (3) Measure the amount of water used by the system.
- C. An application fee and deposit shall accompany the permit application. The deposit will be refunded to the applicant when all required well information is supplied to the District. The application fee is to cover the cost of processing the application and is nonrefundable. Upon completion of the well, District personnel shall have access to property at a reasonable time to inspect the well and complete the inventorying of the well.
  - D. The District will determine whether the application, maps, and other materials comply with the requirements of this rule. The District may require amendment of the application, maps, or other materials to achieve necessary compliance.
  - E. Applicant shall prepare for District approval a water conservation plan and a drought management plan. Applicant's State approved water conservation plan and drought management plan will be accepted by the District. An applicant for a permit, or an applicant requesting to amend or renew a permit, shall submit a water conservation plan and a drought management plan to the District as part of the application for review. The District will include a checklist in the permit application for applicants use in preparing a water conservation plan and drought management plan.

**RULE 5.4 PERMIT APPLICATIONS PROCEDURE; TERM, RENEWAL, AND AMENDMENT.**

- A. This Rule 5.4 and Texas Water Code Section 36.114 are applicable to all well permit applications and applications for amendment.
- B. The Board will consider each well permit application and application for amendment by using the procedures required by this Rule 5.4. The General Manager will determine whether the application contains the data required by the District's rules and make a determination as to whether the application is administratively complete. An administratively complete application requires information set forth in the application instructions, on the application form (attachments A, B and C to these rules and incorporated herein), Rule 5.3, and Texas Water Code Sections 36.113 and 36.1131.

An applicant seeking 40 acre feet of groundwater per year or more must

include with the application a hydrogeologic study to determine the aquifer's potential to supply the requested amount of groundwater. An applicant seeking 20 acre feet of groundwater per year or more to be withdrawn within a HHGUA, HHGU Buffer Zone, or CGDA must include with the application a hydrogeologic study to determine the aquifer's potential to supply the requested amount of groundwater. The hydrogeological study must address the area of influence, drawdown, and other pertinent information required by the District. The study must address the ultimate planned use of the well and the impacts of that use. The study shall be prepared by a Professional Geoscientist and must include hydrogeologic information addressing and specifically related to the proposed water pumpage levels at the proposed pumpage site. Applicants may not rely solely on studies or reports previously filed with or prepared by the District. An application will not be considered administratively complete unless the study is complete and provided as part of the application. The General Manager or Board may waive any portion of the application deemed irrelevant to the stated purpose of the application or inapplicable to that applicant.

If the application is determined to be incomplete, the applicant will be notified and the application will be provided the opportunity to submit the necessary information. Other than applications to produce two acre-feet of groundwater or less per year, the General Manager will schedule administratively complete applications for a public hearing, and shall publish notice of the public hearing in accordance with these rules. For applications to produce two acre-feet of groundwater or less per year, the General Manager shall publish notice of the application, and if no protests are filed by the end of the 10<sup>th</sup> day after the notice was published the General Manager may issue the permit without further action by the Board. If a protest is filed against the application, the General Manager shall schedule the application for consideration by the Board and notify the applicant and any protestants of the date, time and place of the Board meeting.

- C. Within sixty days of the date that an administratively complete application is filed with the District, the General Manager shall give notice of a public hearing, which may occur in conjunction with the meeting at which the Board will consider the application.
- D. Conditions of a well permit application that may be considered by the Board when determining need for a contested case hearing are: potential impact on the District Management Plan, potential adverse effects on adjoining permittees or registered well owners, or other factors deemed appropriate by the Board.
- E. All District hearings are open to the public; however only those persons

defined in this subsection shall have a right to be a party in any hearing in which an application is contested.

- F.** In evaluating an application, the District will consider whether (36.113(d)):
- (1) the proposed use of water unreasonably affects existing groundwater and surface water resources or historic users;
  - (2) the proposed use of water is dedicated to beneficial use;
  - (3) the proposed use of water is consistent with the District Management Plan;
  - (4) the applicant has agreed to avoid waste and achieve water conservation;
  - (5) the applicant has agreed that reasonable diligence shall be used to protect groundwater quality and that the applicant shall follow well plugging guidelines at the time of well closure;
  - (6) the well will meet District well spacing and production limits; and
  - (7) the requested production amount will affect the District's ability to achieve its DFC and MAG.
- G.** If no request for a contested hearing under Rule 12 is received by the District, the effective date of the permit action will be 10 days after the application is approved. If a request for a contested hearing under Rule 12 is received, then the provisions of Rule 12.3 control the effective date.
- H.** If the Board comes into possession of information not previously available to the Board and which would have been of material significance in the Board's original decision, the Board may cancel, change conditions, or let stand the permit.
- I.** On approval of an application, the District will issue a permit to the applicant. The permitted right to produce shall be limited to the extent of and for stated purpose(s) in the permit and shall be valid for a period of five (5) years. If the permitted well is in an HHGUA or CGDA, the Board may approve a permit for a permit term less than five years. The permit will be automatically renewed without need for a hearing provided that the conditions in Section 36.1145(a)(1) or (2), Water Code, are met. The District is not required to renew the permit if the permit or permittee meets any of the conditions outlined in Section 36.1145 (b)(1)(2) and (3), Water Code. If during a permit period an amendment to the permit is required or

during the term of the permit a request is made to change and amend the permit, then the methods to change a permit as outlined in Section 36.1146, Water Code, will apply. In event of such noncompliance, the District will notify the permit owner of the conditions preventing renewal of the permit and allow the owner an opportunity to correct any noncompliance. If the owner does not comply with the permit conditions or the District Rules, after notice and an enforcement hearing conducted according to the procedure required by Rule 12.4, the Board may cancel the permit.

- J. The application/permit process will be deemed completed upon the completion and equipping of the well and the filing of the required information and copy of the drillers log with the District.
- K. A permit issued pursuant to an application to drill a well is valid for a period of six months. Upon written request by permittees permits may be extended by the Board upon reasonable cause for an additional six months after which time the well is not drilled the permit is cancelled and a new application process may be initiated.
- L. Permits may be transferred to another person through change of ownership of the well provided all permit conditions remain unchanged and in compliance with District rules and the District is notified of the change in ownership. A change in purpose of or use by the new well owner invalidates the permit and requires a new permit application.
- M. Permits issued under these Rules are subject, after notice and an enforcement hearing conducted according to the procedure required by Rule 12.4, to amendment or revocation by the District for waste, deviation from the purposes and terms of the permit, or availability of other sources of water not available at the time of permit issuance.
- N. Permit amendments are required for any change in well size, depth, or an increase in production.

## **RULE 5.5 REPORTING AND MONITORING.**

- A. **Reporting.** A permittee shall file with the District annual reports describing the amount of water produced and used for the permitted purpose during the previous year. To facilitate reporting the District will make the form to report the amount of water used annually available on the District website. Reports must be completed and returned to the District office by March 15<sup>th</sup> of the year following the reporting period. The District may require geophysical logs be run on the well. All drillers logs, geophysical logs, pump test data, water level data, water quality data or any other data pertinent to the well shall be filed in the District office in

Fredericksburg, Texas within sixty (60) days after completion of the well or project. Failure to provide production or well reports may invoke Rule 11.3.

- B. Monitoring.** The Board may require monitoring devices on permitted wells that will be available for District inspection during business hours. An hour meter may be considered as a production monitoring device, if the well output (gpm) can be measured accurately.

## **RULE 5.6 WELL SPACING AND PRODUCTION REGULATION (§ 36.116).**

### **A. Classification.**

- (1) Domestic and Livestock Wells. New water wells intended for domestic and livestock use shall be placed on a tract of land seventy-five feet (75 ft.) from property lines and public roadways. All tracts of land that were in existence prior to May 1, 1990 are exempted from the seventy-five feet (75 ft.) setback requirement for new water wells intended for domestic and livestock use. Subdivisions where tract(s) have been re-platted after May 1, 1990 will have to meet the 75' setback requirement from property lines and public roadways. On any new division of property, new property lines shall also be seventy-five feet (75 ft.) from any existing wells. It should be noted that where public roadways are involved as a property boundary line it is permissible to use the centerline of a public roadway to calculate the distance required for the setback of a tract border along a roadway.

A variance from the District shall be obtained for a request to decrease the specified setback distance on new water wells intended for domestic and livestock use. An affidavit shall be obtained from the affected adjoining landowner(s), signed by both parties and recorded with the County Clerk's office citing the encroachment and that all parties are agreeable to the encroachment. A fee set by the Board will be assessed to cover administrative charges. In those cases where an adjoining landowner will not agree to the setback encroachment and will not sign the affidavit, the District will allow an encroachment up to the State's required minimum setback established for new wells if the well is cemented with positive displacement technique (positive displacement method) to a minimum of one hundred (100) feet to surface, or the well is tremie pumped (tremie pipe method) filled to the depth of one hundred (100) feet to the surface, provided the annular space is three (3) inches larger than the casing. For wells less than one hundred (100) feet deep, the cement slurry, bentonite

grout, or bentonite column shall be placed to the top of the producing layer. In areas of shallow, unconfined groundwater aquifers, the cement slurry, bentonite grout, or bentonite column need not be placed below the production zone. In areas of shallow, confined groundwater aquifers having artesian head, the cement slurry, bentonite grout, or bentonite column need not be placed below the top of the water-bearing strata.

Existing domestic and livestock wells drilled prior to May 1, 1990, that require alterations (i.e. deepening) are exempt from the spacing requirements. The deepened well, however must obtain a new registration from the District.

- (2) Permitted Wells. All water wells intended for permitted use, new or existing, shall satisfy the setback and spacing requirements outlined in Rule 5.6B except for those wells granted historic status. It should be noted that where public roadways are involved as a property boundary line it is permissible to use the centerline of a public roadway to calculate the distance required for the setback of a tract border along a roadway. Permitted wells that cannot satisfy the setback and spacing requirements of Rule 5.6B, an affidavit shall be obtained from the affected adjoining landowner(s), signed by both parties and recorded with the County Clerk's office, citing the encroachment and that all parties are agreeable to the encroachment. A fee set by the Board will be assessed to cover administrative charges. In those cases where the adjoining landowner(s) will not agree to the encroachment(s), the well can only be used for domestic and livestock use, and a new well shall be drilled which will satisfy the setback and spacing requirements of Rule 5.6B.

All water wells shall meet the State's requirement for location from any concentrated source of pollution, such as existing or proposed livestock or poultry yards and septic system absorption fields. Such horizontal distance may be decreased, provided the total depth of pressurized cement slurry in the annular space is increased by twice the horizontal reduction, or to the top of the water bearing strata, but in no case shall such distance be less than 50 feet (16 Texas Administrative Code, Section 76.1000(a)(1)).

- B.** In addition to the requirements of 5.6A(2), the following well spacing shall be required on permitted wells, with the exception of wells permitted for landscape irrigation (watering of lawn or shrubbery).

<b>ACTUAL PUMPING CAPACITY OF</b>	<b>MINIMUM DISTANCE FROM EXISTING PERMITTED WELLS AND BETWEEN PROPOSED PERMITTED WELLS</b>	<b>DISTANCE FROM PROPERTY LINE</b>
Less than 17.36 gpm	150 feet	100 feet
17.36-200 gpm	300 feet	100 feet
200-400 gpm	750 feet	200 feet
400-800 gpm	1200 feet	400 feet
>800 gpm	1500 feet	400 feet

- C.** If in the case of development of multiple wells by a single well owner on the same parcel of property and for geological reasons it is desired to cluster wells, the District may consider and may approve such a request provided the spacing requirements are achieved as follows:

- (1) In the case of wells of capacity 400-800 gpm the distance from the property line shall be 500 feet to the nearest well of the cluster;
- (2) In the case of wells of capacity >800 gpm the distance from the property line shall be 600 feet to the nearest well of the cluster;
- (3) Nothing in (1) or (2) above precludes the well owner from obtaining from adjoining landowners a waiver of the property line distances;
- (4) The total property upon which the clustered wells are to be located shall be contiguous and owned or leased by the permittee, and the same in square or rectangular configuration as if the wells were not clustered and were located on a grid accommodating both the spacing between wells and the property line distances, e.g., a 2 well field of > 800 gpm/well would require an area of 42.2 acres (800 ft. by 2300 ft.) and a 4 well field of > 800 gpm/well would require an area of 121.44 acres (2300 ft. by 2300 ft.);
- (5) In cases where an existing permitted well is located on adjoining property the minimum distance from this well to the nearest well of the cluster shall be maintained as cited in the above table.



- D. Production limits for permitted wells are based on ownership of the surface estate or service area. Maximum allowable production rates shall be based on the size of tracts in accordance with the following table:

<b>CONTIGUOUS TRACT SIZE OF 10 ACRES OR LESS</b>
Allowed Production Rate
0.5 acre foot/per acre/per year

<b>CONTIGUOUS TRACT SIZE OF GREATER THAN 10 ACRES</b>
Allowed Production Rate
1 acre foot/per acre/per year

Production rates as defined above and the total contiguous service area upon which water will be applied shall determine the actual production limits, e.g. a five-acre service area on a fifteen-acre tract shall be allowed a production of 5-acre feet/year. Production rate limits may be lowered by the Board in HHGUA or CGDA where depletion is a factor and is reasonably necessary to protect existing use. Final production limits will be determined on a case-by-case basis by the Board. For a retail public utility “service area” means the service needs or service area of the retail public utility (Chapter 36.116©, Water Code) less any acreage where a well is located or drilled during the permit term. The applicant or permittee may be required to drill test wells and conduct pump tests. A certified engineer or geoscientist maybe required to oversee the test and provide a certified report of the finding. The Board after reviewing the report will decide production limits.

In determining production rates for wells located on tracts not contiguous with the destination service area, all sources of water allocated to the destination service area will be considered and the permitted production rate based on the total of all sources as if all sources were subject to District production rules, e.g., a destination service area of 200 acres with existing allocations of current 150 acre feet per year would be permitted a production rate of 50 acre feet per year based on a 1 acre foot per acre per year allowed production rate.

**RULE 5.7 PROHIBITED AQUIFER PENETRATIONS.** There shall be no excavation or drilling of a well(s), or use of an excavation or a well(s) for the purpose of temporarily or permanently disposing of the following materials or substances, as defined in District Rules, within the District:

- (1) Radioactive wastes
- (2) Toxic pollutants (does not include effluent)
- (3) Hazardous substances
- (4) Hazardous wastes
- (5) Polychlorinated biphenyls(PCBs)
- (6) Soils, fluids or other materials or substance contaminated with any of the above.

**RULE 5.8 TEMPORARY PRODUCTION PERMIT**

A person eligible for a Temporary Production Permit may apply and be issued authorization to operate, or perform another activity that is not related to a non-exempt well, but the usage is not considered exempt, for a set time and production amount assigned.

- A. Temporary Permit Applications** shall be made in the name of the well owner or property owner on a form or forms provided by the District. The sworn, original application must be submitted and signed by the owner or an authorized agent of the owner who may be required to provide the District with a notarized authorization from the owner.

Temporary Production Permit Application must contain the information in sufficient detail to be acceptable to the District on the forms provided by the District.

- B. Action on Temporary Production Permits.** Before issuing a Temporary Permit, the General Manager shall consider whether the application is administratively complete and is accompanied by the appropriate fees; and provided the application conforms to the above requirements, the Board of Directors shall review and act upon issuing a Temporary Permit for the requested permit volume not to exceed the maximum production capacity.

- C. Temporary Production Permit Conditions and Requirements.** Temporary Production Permits are granted subject to the Rules, regulations, Orders, special provisions, and other requirements of the

District; violation of the permit's terms, conditions, and requirements, including pumping amounts in excess of authorized withdrawal, shall be punishable by civil penalties as provided in these Rules; and once the term of the Temporary Production Permit has expired, the existing well will be reclassified back to its previous well status and used for those purposes only.

## **RULE 6. WELL REGISTRATION**

### **RULE 6.1 STANDARD REGISTRATION PROVISION.**

- A. All wells exempt from permitting under Rule 5.2 shall be registered with the District.
- B. All wells so registered shall be equipped and maintained so as to conform to the standards outlined in Rule 8 as well as the Texas Water Well Drillers and Pump Installers Rules, 16 Texas Administrative Code Chapter 76.
- C. Application for registration of any existing well shall be filed with the District on a form(s) promulgated by the District.
- D. Export of water from an exempt well nullifies the exemption of Rule 5.2, and the well owner must obtain an export permit.

**RULE 6.2 WELL REGISTRATION, INVENTORY, AND FEE.** If the penetration is a new water well, the completely filled out application shall be accompanied by an inspection and inventory charge. Upon completion of the well, District personnel shall have access to the property at a reasonable time to inspect the well and complete the inventorying of the well.

**RULE 6.3 RECORDS AND REPORTS REQUIRED.** In addition to the information provided in the registration application, accurate driller's logs and records of equipping and completion of the wells, including any electric logs made, pump test data, any water level data, water quality data, or any data pertinent to the well, shall be filed in the District office in Fredericksburg, Texas, within sixty (60) days after completion of the well or project. Failure to do so may invoke Rule 11.3.

## **RULE 7. WASTE**

**RULE 7.1**    **WASTE.** Prohibition against waste or wasteful use of groundwater.

- A.**    Groundwater shall not be produced within, or used within or without the District, in such a manner as to constitute waste as defined by Rule 1.1.
  
- B.**    Any well owner producing or using groundwater shall use every possible precaution, in accordance with the latest approved methods, to stop and prevent waste of such water.
  
- C.**    Groundwater pumped for industrial or commercial use or application shall be considered waste if the quantity is in excess of the quantity, if any, recognized by the industry according to its Standard Industrial Code (SIC) classification to be the maximum amount of water necessary to efficiently meet the demands for the particular use or application in question.
  
- D.**    In event of a conflict between “Beneficial Use” or “Beneficial Purposes” and “Waste”, “Beneficial Use” or “Beneficial Purposes” shall be subordinate to “Waste”.

**RULE 8. WELL CONSTRUCTION AND COMPLETION  
STANDARDS AND PERSONS AUTHORIZED TO  
DRILL WELLS AND INSTALL PUMPS**

**RULE 8.1 WELL CONSTRUCTION AND COMPLETION STANDARDS.** Monitor wells are exempt from this rule; however, their construction shall follow state guidelines.

- A. The diameter of the drilled hole shall be a minimum of three inches (3") larger than the outside diameter of the casing to be used down to a depth of fifty feet (50') or to the top of the first potable water bearing strata above fifty feet (50').
- B. Either steel pipe or polyvinyl chloride (PVC) casing may be used. PVC casing shall meet minimum specifications as defined by the Department of Licensing and Regulations Water Well Drillers and Pump Installers in 16 Texas Administrative Code Chapter 76.
- C. The borehole casing annulus shall be filled with cement slurry or bentonite from ground level to a depth of not less than fifty feet (50') below the land surface or to the top of the first potable water bearing strata above fifty feet (50'). In those cases where the well is cemented above fifty feet (50'), in order to prohibit comingling of shallow water with water from deeper strata, the well shall not be drilled or completed in water bearing strata below fifty feet (50'). All wells shall satisfy all State water well completion and annular space sealing requirements. All existing wells drilled prior to adoption of the rules on December 1, 1992, do not have to meet the above fifty feet (50') casing annulus sealing requirement if the well needs to be deepened.
- D. The casing shall extend at least eighteen inches (18") above land surface at a site not generally subject to flooding; provided however, that if a well must be placed in a flood prone area, it shall be completed with a water tight sanitary well seal and steel casing extending a minimum of thirty six inches (36") above known flood levels.
- E. All wells completed with plastic casing shall be completed according to one of the three surface completion methods as described by the following:
  - (1) Slab - The slab or block shall extend at least two feet (2') from the well in all directions and have a minimum thickness of four inches (4"), and should be separated from the well casing by a plastic or mastic coating or sleeve to prevent bonding of the slab to the casing. The surface of the slab shall be sloped to drain away from

the well. The top of the casing shall extend a minimum of one foot (1') above the top of the slab.

- (2) Steel and PVC Sleeve - The steel sleeve shall be a minimum of 3/16" in thickness or the plastic sleeve shall be a minimum of schedule 80 sun resistant and twenty four inches (24") in length and shall extend twelve inches (12") into the cement, except when steel casing or a pitless adapter is used. The casing shall extend a minimum of one foot (1') above the original ground surface, and the steel sleeve shall be two inches (2"), larger in diameter than the plastic casing being used.
- (3) Pitless Adapters - In wells with Steel or Plastic Casings completed with pitless adapters, the adapters shall be welded to the casing or fitted with another suitably effective seal, and the borehole-casing annulus filled with cement slurry or bentonite to a depth of not less than fifty feet (50') below land surface, or to the top of the first potable water bearing strata above fifty feet (50'). All wells completed with pitless adapters shall satisfy all State water well completion and annular space sealing requirements that pertain to pitless adapters.

**F.** Wells completed with steel casing shall meet all specifications set forth by the Water Well Driller and Pump Installers Rules, 16 Texas Administrative Code Chapter 76, and need to be completed at the surface with the annular space filled with cement slurry or bentonite as described in Rule 8.1C.

**G.** All wells, especially those that are gravel packed, shall be completed so that aquifers or zones containing waters that are known to differ significantly in chemical quality are not allowed to commingle through the borehole-casing annulus or the gravel pack and cause quality degradation of any aquifer or zone.

**H.** All wells shall be equipped with a water tight sanitary well seal with an inspection port, or some other means that allows for free access to the water table for the purpose of water level measurement and disinfection. Any well presently not equipped with a water tight sanitary well seal is required to be so equipped in the future when that well is serviced. On those wells with odd sized casing, which cannot be fitted with a factory made water tight sanitary well seal, the completion shall be done in a manner that shall prevent any pollutants (waste, insects, chemicals, etc.) from entering the well.

**I.**

**RULE 8.2 PERSONS AUTHORIZED TO DRILL WELLS AND INSTALL PUMPS.**

- A.** Only persons who are licensed water well drillers, in good standing with the Department of Licensing and Regulation Texas Water Well Drillers Board and whose licenses are verified with the District are allowed to commercially drill water wells within the District. License verification with the District shall be on forms provided by the District and be in accordance with and contain information called for in the form of verification. Landowners may personally drill water wells on their own property provided those wells are completed according to State and District completion requirements and the wells meet all other requirements of these rules.
  
- B.** Commercial Pump Installers are required to show licensed verification with the District. License verification shall be on forms provided by the District and shall be in accordance with and contain the information called for in the form of verification.



**RULE 9. HIGH HISTORICAL GROUNDWATER USE AREA AND  
CRITICAL GROUNDWATER DEPLETION AREA**

**RULE 9.1 STATUTORY AUTHORITY.**

- A. The District may regulate the production of wells in order to minimize the drawdown of the water table or the reduction of artesian pressure. The District has the authority to establish different spacing and production rules for different geographic areas within the District, based on hydrogeological conditions. (36.116) The District may use this rule to ensure the DFCs of the aquifers within the District are met.
  
- B. This Rule 9 implements the requirement in the District’s comprehensive management plan, adopted as required by Texas Water Code, that calls for regulating production of groundwater from wells if the District determines that (i) groundwater within the District or a part of the District (or a reservoir or subdivision of a reservoir) is experiencing a drawdown of the water table or the reduction of artesian pressure and (ii) the regulation of production of water from wells within the District or that part of the District, shall minimize, as far as practicable, the drawdown of the water table or the reduction of artesian pressure.
  
- C. The District may impose more restrictive permit conditions on new permit applications and applications for increased use by historic users if the limitations are reasonably necessary to protect existing use (36.113(e)(3). The District may also eliminate the exemptions granted in Rule 5.2 (C) and (D) of these Rules.

**RULE 9.2 HIGH HISTORICAL GROUNDWATER USE AREA.**

Permits for new wells or amendments to permits for increased production from existing wells may be subject to increased spacing, restricted production, or denial if the well is located in a High Historical Groundwater Use Area (HHGUA). The District can declare a HHGUA and Buffer Zones only after notice and hearing conducted according to the procedure required by Rule 12.1 Such a designation will be based on current production levels, well density, and aquifer conditions as determined by the District’s aquifer monitoring program. These criteria are as follows:

- A. **Criteria for designation of HHGUA.** The District may designate a HHGUA based on any of the following.
  - (1) Water level decline over time;
  - (2) Production levels;

- (3) Degree of increase in number of permitted wells
- (4) Cone of depression development and size.

**B. Criteria for boundary placement of HHGUA.** The District may determine the boundary of HHGUA based on any of the following.

- (1) Rectangular or square in shape to enable N-S, E-W parallel to be determined using latitude and longitude coordinates as determined from global positioning systems (GPS);
- (2) Well defined recognized natural or manmade landmarks such as rivers or streams or county or state roads and highways; or
- (3) Circular or non-square or rectangular boundaries could be used and also based on GPS measurements.

**C. Designation of High Historical Groundwater Use Buffer Zones.** The purpose of such HHGUA Buffer Zones is to put into place a transition between a HHGUA and adjacent non-HHGUA. The well spacing requirements of Rule 5.6(A)(2) and (B) are doubled in a HHGU Buffer Zone for new permitted wells. (See Rule 5.6B)

**D. Permit term and renewal, regulation of production and well setback requirements in a HHGUA.** On new permitted wells and requests for increased production on existing permitted wells in a HHGUA, the District will require the following:

- (1) More stringent production limits will be placed on new or increased production permitted wells in HHGUA than on new permitted wells outside of a HHGUA.
- (2) The well spacing requirements of Rule 5.6(A)(2) and (B) are doubled in a HHGUA for new permitted wells. (See Rule 5.6B)
- (3) Metering of either flow or pumped time shall be required for new or increased production permitted well production in a HHGUA.
- (4) New well or increased production permits in a HHGUA may be valid for two (2) years. Before the permit is renewed for an additional 2-year period, the permit will be reviewed by the District and new production limits may be established based on aquifer conditions.

- (5) Existing permitted wells within a HHGUA that require replacement due to deterioration may be replaced without permit change provided intended use and production remain the same. In addition the replaced well shall be plugged.

### **RULE 9.3 CRITICAL GROUNDWATER DEPLETION AREA.**

**A. Identification of a Critical Groundwater Depletion Area (CGDA).**  
The District periodically reviews the water level data obtained from its various water level monitoring programs across the District. If evidence of drawdown of the water table or reduction of artesian pressure in an area of an aquifer indicates an aquifer mining situation, that is, a non-sustainable yield, or to ensure the compliance of meeting the Desired Future Conditions (DFC) of an aquifer as provided for in the District's Management Plan, or in consideration of such local climate indicators such as the Local Drought Index, Palmer Hydrological Drought Severity Index published by the National Oceanic and Atmospheric Administration (NOAA), or other drought indicators the Board may declare the area a Critical Groundwater Depletion Area (CGDA). Prior to establishing a CGDA Category Two the District will invite comment from and exchange aquifer condition data with well owners within the proposed CGDA. Following the foregoing collaboration study and notice made, a hearing will be held using the procedure required by Rule 12.1 prior to declaration of a CGDA. Prior to establishing a CGDA Category One, the Board will proceed and follow the procedures as required in Rule 12.1. A CGDA will be classified into one of two categories:

- (1) A Category One classification will be assigned to an area experiencing critical depletion due to climatic events where the ability of the aquifer to provide sustainable yields at normal usage rates is seriously impaired. The duration and severity of the climatic conditions will determine the extent and period of the conservation actions taken by the District. Upon return of normal climatic conditions and adequate recharge to bring the aquifer back to sustainable normal usage, the District may cancel the CGDA.
- (2) A Category Two classification will be assigned to an area experiencing critical depletion due to increased pumpage that has caused or will shortly cause the aquifer to fall below sustainable yield on a permanent basis, not primarily caused by but possibly exacerbated by short-term climatic conditions, or to ensure the compliance of meeting the DFC of an aquifer as outlined in the District's Management Plan. Conservation actions taken by the District will remain in effect until such time the aquifer shows long-term reversal of the non-sustaining condition. Such reversal

can conceivably be brought about through permanent pumpage reduction, use of alternative water sources, or changes in well owner's use of water.

**B. Procedures Following Establishment of a CGDA.** Once a CGDA is declared and delineated, the area will be given a unique name or number for identification purposes and all well owners in the area will be notified. Notification of all Board decisions related to a CGDA will be made to all well owners within the CGDA by published notice. When the Board declares and delineates a CGDA, the Board will take action, including any combination of the following:

- (1) Deny all applications for drilling within the CGDA and cancel the District's defined exemptions of Rule 5.2(C).
- (2) Set production limits on Permitted Wells located within the CGDA to an assigned volume of water as may be determined from the historical production data obtained from District records. The allowed volume will be an amount that will halt the decline of the aquifer sustainable yield, and may allow continued but reduced pumpage. The approved conservation/drought management plans will be considered in determining the production limits. The Board will review the production allocation on a quarterly basis and make appropriate adjustments as permitted or dictated by aquifer conditions.
- (3) Require all Permitted Wells within the CGDA to be equipped with a District approved meter or measuring device. The expense of the device shall be borne by the well owner.
- (4) Require increased spacing for all new permits within the CGDA.
- (5) Establish recommended production limits on all exempted wells within the CGDA to reasonably correspond to retail water utility conservation/drought management plans used within the District.
- (6) Prohibit or limit the use of groundwater to any surface water reservoir or impoundment (See Definition Rule 1.1)

Owners of Permitted Wells within the CGDA shall provide the District with reports of the amount of water produced from each well under permit in the CGDA on forms provided by the District and on a schedule determined by the Board. If the Board has not required metering devices on wells, production volume reports shall be provided by accurate estimates such as recording duration of pumping and the well output capacity (gpm).

Owners of Permitted Wells within the CGDA may request a temporary change in water allocation through petition to the Board. Decision on such requests will be made consistent with prudent aquifer management, the effect on other well owners in the CGDA, and the degree of necessity for the request. The Board may exempt some permits in which extensive water conservation is already in effect. Such exempted permits could include irrigation permits in which drip irrigation is used, but they are not limited to just this method of water conservation.

## **RULE 10. EXPORTATION OF GROUNDWATER OUT OF THE DISTRICT**

**RULE 10.1 PURPOSE.** The District being within a State designated priority groundwater management area (Hill Country Priority Groundwater Management Area) with limited groundwater resources available for present and future demands, and by the authority granted it under Section 36.122 of the Texas Water Code, these rules are adopted and require that an application shall be made and an export permit be obtained to export groundwater out of the District. Export applications shall be on forms provided by the District and contain all required information before application is considered. All water wells used for the export of water out of the District must be permitted wells. Rule 10 applies only to an export of water that is permitted after September 1, 1997 (36.122(n)).

**RULE 10.2 METHOD OF EXPORTATION.** A permit is required to export groundwater outside the boundaries of the District via pipeline or canal. Other de minimus amounts may be exported by fire truck, water truck or temporary hoses. De minimus export of groundwater out of the District by a Retail Public Utility meeting the following requirements shall be exempt from the requirement for an Export Permit and Fee:

- (3) 95% of the total monthly water volume of the Retail Public Utility must be supplied within the District's Boundaries.
- (4) The monthly volume of water exported out of the District may not exceed 5% of the Retail Public Utility's corresponding monthly demand.

**RULE 10.3 FEES.** The District may impose a reasonable fee for processing an application for an export permit to export water out of the District, not to exceed the application fee for a well permit under Rule 5.

**RULE 10.4 APPLICATION PROCEDURES.** All applications to obtain permits to export groundwater out of the District ( export permits) will be considered and processed under the same procedures as applications for well permits under Rule 5 and shall contain the following:

- (1) The name and address of the applicant,
- (2) The legal description of the exact location(s) of the well(s) from which water to be exported is to be produced and the well(s) permit number,
- (3) The name and address of the well owner(s) from whose well the exported water is to be produced,

- (4) The time schedule for construction or operation of the facility,
- (5) A complete construction and operations plan that shall include, but not limited to, information as to a technical description of the facilities to be used for exportation of water,
- (6) The use of the water to be exported,
- (7) The volume of water to be exported annually,
- (8) Scientific evidence showing that the proposed operation will not cause pollution as defined in Rule 1 or waste as defined in Rules 1 and 7,
- (9) Provide information showing the effect of the proposed exportation on the quantity and quality of water available within the District,
- (10) Provide information showing the projected effect on the proposed export on aquifer conditions, depletions, subsidence, or effects on existing permit holders or other groundwater users within the District,
- (11) Provide information that the proposed export conforms to the goals and objectives in the approved District Management Plan and the Regional Water Plan,
- (12) A water conservation plan and a drought management plan,
- (13) Additional information that may be required by the Board.

**RULE 10.5 HEARING.** The District may conduct a hearing on an application for a export permit.

**RULE 10.6 PERMIT APPROVAL/DENIAL.**

- (1) As required by state law, the District may not impose more restrictive permit conditions on exporters than the District imposes on existing in-district users including determination of service area, except as provided in Rule 5.1 (36.122I). In reviewing a proposed export of groundwater out of the District, the Board will consider:
  - (a) availability of water in the District and in the proposed receiving area during the period for which the water supply is requested (36.122(f)(1)),
  - (b) the projected effect of the proposed export on aquifer conditions, depletion, with special concern for the possibility of aquifer mining and the subsequent implementation of the Critical Groundwater

Depletion Area, subsidence, or effects on existing permit holders or other groundwater users within the District (36.122(f)(2)) that may be in a designated High Historical Groundwater Use Area ,

(c) the approved Regional Water Plan and certified District Management Plan (36.122(f)(3)),

- (2) As required by state law, the District may not deny an export permit based on the fact that the applicant seeks to export groundwater outside of the District but may limit a export permit if conditions in 36.122(f) warrant the limitation, but may not impose more restrictive permit conditions on exporters than on permits for in-district use of groundwater.

**RULE 10.7 EXPORT FEE (§36.122(E)(1)(2)).** The District may:

- (1) impose an export fee or surcharge not to exceed the amount authorized in Chapter 36.122(e)(1), (e)(2), (e) (3) and (e-1).
- (2) use funds obtained from administrative, production, or export fees collected as further described and authorized in Chapter 36.207.

**RULE 10.8 PERMIT TO EXPORT GROUNDWATER OUT OF THE DISTRICT.** If a permit is granted to an applicant, the permit may specify the following (36.122):

- (1) The amount of water that may be exported out of the District; and the period for which the water may be exported (36.122 (h)).
- (2) A export permit will be issued for an initial term of at least 3 years if construction of a conveyance system has not been initiated prior to the issuance of the permit (36.122(i)(1)); or at least 30 years if construction of a conveyance system has been initiated prior to the issuance of the permit (36.122 (j)(2)).
- (3) If during the initial term of a export permit, construction of a conveyance system is begun, the export permit will automatically be extended to the full 30-year term.
- (4) Notwithstanding the permit term, the District shall renew a **an** export permit every five years, using the standards in Rule 5.4(H). In its determination of renewal of a export permit, the District shall consider relevant and current data for the conservation of groundwater resources and will consider the permit in the same manner it would consider a permit under Rule 5. The District may limit the amount of water authorized by the export permit if warranted by the standards in Rule 5.4(H).



- (5) The District may not prohibit the export of groundwater if the purchase was in effect on or before June 1, 1997 (36.122(m)).
- (6) In applying Rule 10, the District will be fair, impartial, and nondiscriminatory (36.122(q)).

**RULE 10.9 MONITORING AND REPORTING.**

- (1) All permitted exportation facilities shall be equipped with flow monitoring devices approved by the District and shall be available at all reasonable times for inspection by District personnel,
- (2) The operation of a permitted exportation facility shall be required to keep records and provide monthly production reports to the District, which show daily production rates.

## **RULE 11. INVESTIGATIONS AND ENFORCEMENT**

**RULE 11.1 NOTICE AND ACCESS TO PROPERTY.** (36.123) Board Members and District representatives and employees are entitled to access to all property within the District to carry out technical and other routine investigations (i.e. photographing, sampling, monitoring and testing) necessary to the implementation of the District Rules. Prior to entering upon the property for the purpose of conducting an investigation, the person seeking access will give notice in writing or in person or by telephone to the well owner or operator, agent, or employee of the well owner or operator, as determined by information contained in the application or other information on file with the District. Notice is not required if prior permission is granted to enter without notice. Inhibiting or prohibiting access to any Board Member or District representative or employees who are attempting to conduct an investigation under District Rules constitutes a violation and subjects the person who is inhibiting or prohibiting access, as well as any other person who authorizes or allows such action, to the penalties set forth in the Texas Water Code Chapter 36.102.

### **RULE 11.2 INVESTIGATION OF POSSIBLE VIOLATION(S) (§36.123).**

- A.** When the District's Board of Directors has been informed of a possible violation of a District Rule, the District Manager will send a letter notifying the well owner about the potential violation and arranging to meet with the well owner to investigate the potential violation.
- B.** Investigations or inspections that require entrance upon property will be conducted at reasonable times, and will be consistent with the establishment's reasonable rules and regulations concerning safety, internal security, and fire protection. The persons conducting such investigations shall identify themselves and present credentials upon request.
- C.** Following the investigation, the District Manager shall report to the Board of Directors the findings of the investigation. If the Board determines that no violation has occurred, the District will notify the well owner by letter of the Board's finding that no violation has occurred.
- D.** If the Board of Directors determines from the investigation that a violation has occurred, the District will notify the well owner by certified mail of the violation and outline the actions necessary to bring the well into compliance with District Rules.
- E.** When the well owner notifies the District that compliance has been met, an investigation by the District Manager will be made and reported to the Board. The Board shall determine if compliance has been met. If so, the

District will notify the well owner by letter that compliance with District Rules has been met.

**RULE 11.3 RULE ENFORCEMENT.** If the Board determines that compliance has not been met, then the Board may choose from the following actions to ensure compliance with District Rules:

- A. Begin the enforcement hearing process under Rule 12.4 for permit revocation, involuntary amendment or suspension.
- B. Enforce these rules by injunction, mandatory injunction or other appropriate remedy in a court of competent jurisdiction.
- C. Assess reasonable civil penalties for breach of any District Rule as authorized in Chapter 36 of the Texas Water Code. A penalty under this Rule is in addition to any other penalty provided by law of this state and may be enforced by complaints filed in the appropriate court of jurisdiction in the county in which the District's principal office or meeting place is located. If the District prevails in any suit to enforce its Rules, it may, in the same action, recover reasonable fees for attorneys, expert witnesses, and other cost incurred by the District before the court. The amount of the attorney's fee shall be fixed by the court.
- D. After a notice and an enforcement hearing conducted according to the procedure required by Rule 12.4, order a non-compliant well to be sealed under District Rule 11.4.
- E. Continue to work with the well owner until compliance is met and may mandate the monitoring of groundwater use by requiring the metering of the well or any other monitoring methods and provide regular production reports as determined by the Board.
- F. Any combination of the above actions or other reasonable means as determined by the Board to ensure compliance.
- G. Comprise and Settlement Guidelines, See Appendix B for an outline of Minor and Major rule violations.

**RULE 11.4 SEALING, CAPPING AND PLUGGING WELLS.**

- A. **SEALING OF WELLS.** After notice and an enforcement hearing conducted according to the procedure required by Rule 12.4, the District may seal wells to ensure that a well is not operated in violation of the District Rules. A well may be sealed when:

- (1) no permit has been obtained to drill a new water well that requires a permit under Rule 5;
- (2) no application form has been filed for a permit to withdraw groundwater; or
- (3) the Board has denied, cancelled or revoked a drilling permit or an operating permit.

The well may be sealed by physical means and tagged to indicate that the well has been sealed by the District. Other appropriate action may be taken as necessary to preclude operation of the well or to detect unauthorized operation of the well.

Tampering with, altering, damaging, or removing the seal of a sealed well, or in any other way violating the integrity of the seal, or pumping of groundwater from a well that has been sealed constitutes a violation of these rules and subjects the person performing that action, as well as any well owner or primary operator who authorizes or allows that action, to such penalties as provided by the District Rules.

- B. CAPPING WELLS.** After notice and an enforcement hearing conducted according to the procedure required by Rule 12.4, the District may require a well to be capped to prevent waste, prevent pollution, or prevent further deterioration of a well casing. The well shall remain capped until such time as the conditions that led to the capping requirement are eliminated. If well pump equipment is removed from a well and the well will be re-equipped at a later date, the well shall be capped, provided however that the casing is not in a deteriorated condition that would permit commingling of water strata in which case the well shall be plugged. The cap shall be capable of sustaining a weight of at least four hundred (400) pounds.
- C. PLUGGING WELLS.** A deteriorated well, abandoned well, or open and uncovered well shall be plugged in accordance with the Well Driller and Pump Installers Rules, 16 Texas Administrative Code Chapter 76. It is the responsibility of the well owner to see that such a well is plugged to prevent pollution of the underground water and to prevent injury to persons.
- D. PLUGGING REPORT.** Not later than the 30<sup>th</sup> day after a well is plugged, the person plugging the well shall submit a plugging report to the District on a form provided by the District.

## **RULE 12. HEARINGS**

This Rule 12 sets forth circumstances and procedures for holding formal hearings on the specific topics stated. Nothing in this Rule 12 will preclude the District Board from including as a standard Board meeting agenda item an allotted time for public comment and said agenda item for public comment will not be considered a hearing as defined by this Rule 12.

### **RULE 12.1 RULE MAKING HEARING.**

- A.** Once the District has developed a proposal involving changes to District Rules, changes to the District Management Plan, designation of a High Historical Groundwater Use Area (HHGUA) and Buffer Zone, or Designation of a Critical Groundwater Depletion Area (CGDA), the District will decide at which Board meeting the proposal will be considered for action. The Board meeting at which the proposal is considered under this Rule will be considered the hearing on the proposal and fulfills the requirement, if any, for a hearing.
- B.** The General Manager shall provide notice of all rulemaking hearings in accordance with the Open Meetings Act.
- C.** In addition to the notice required by the Open Meetings Act, not later than the 20<sup>th</sup> day before the date of the hearing, notice shall be provided as follows:
  - (1) Post notice in a place readily accessible to the public at the District office;
  - (2) Provide notice to the county clerk of Gillespie County;
  - (3) Publish notice in one or more newspapers of general circulation in Gillespie County; and
  - (4) Provide notice by mail, facsimile, or electronic mail to any person who has requested notice under Rule 12.1.F. Failure to provide notice under this Rule 12.1.C(4) does not invalidate an action taken by the District at a hearing under Rule 12.1.
- D.** Notice of the hearing on the proposal required by Rule 12.1.C. will include:
  - (1) A brief explanation of the subject of the hearing, including a statement that the District's Board of Directors will consider proposed changes to the District's Rules, Management Plan,

HHGUA, or CGDA at the Board meeting, which will serve as the hearing on the matter.

- (2) The time, date, and location of the hearing.
  - (3) The agenda of the hearing.
  - (4) A statement that the proposal is available to be reviewed or copied at the District Office and on the District's website prior to the hearing.
  - (5) A statement that the District will accept written comments and give the deadline for submitting written comments.
  - (6) A statement that oral public comment will be taken at the hearing.
- E.** Copies of the proposal will be available during normal business hours at the District and posted on the District's website.
- F.** A person may submit to the District a written request for notice of a hearing under this Rule 12.1. A request is effective for the remainder of the calendar year in which the request is received by the District.
- G.** Anyone interested in the proposal may submit written comments about the proposal to the District at least 5 business days prior to the scheduled hearing at which the proposal will be considered by the Board.
- H.** Anyone interested in the proposal may attend the hearing and make oral comments at the time designated for comments.
- I.** The District will make and keep in its files an audio recording of the hearing, written minutes of the hearing, and any written comments of the hearing.
- J.** The Board will issue a written order or resolution reflecting its decision and the proposal that the Board approves will be an attachment to that written order or resolution.
- K.** The effective date of the written order will be the date on which the Chairman of the District signs the order or resolution. The order or resolution will include a statement that the proposal becomes effective and final on that date. Any suit authorized by Section 36.251, Texas Water Code, will run from that effective date, and any action not challenged through such a suit shall be presumed valid as of the third anniversary of that date in accordance with Section 36.124, Texas Water Code.

- L. If in the course of the deliberation during the hearing, the Board decides to substantially change the proposal, the Board will “continue” or postpone the matter until a future Board meeting. Prior to consideration of the substantially changed proposal, the District will provide a notice and opportunity for comment and hold a hearing on the substantially changed proposal. It is solely within the discretion of the Board what constitutes a substantial change to a proposal under this Rule.

**RULE 12.2 ADOPTION OF EMERGENCY RULES.**

- A. The District may adopt an emergency rule without following the notice and hearing provisions of Rule 12.1, if the Board:
  - (1) Finds that a substantial likelihood of imminent peril to the public health, safety, or welfare, or a requirement of state or federal law, requires adoption of a rule on less than 20 days’ notice; and
  - (2) Prepares a written statement of the reasons for its finding under Rule 12.2.A(1).
- B. An emergency rule under this Rule 12.2 must be adopted at a meeting of the Board subject to the requirements of the Open Meetings Act. Notice required by the Open Meetings Act shall be provided.
- C. Except as provided by Rule 12.2.D., a rule adopted under this Rule may not be effective for longer than 90 days.
- D. If notice of a hearing under Rule 12.1 is given before the emergency rule expires under Rule 12.2.C., the emergency rule is effective for an additional 90 days.

**RULE 12.3 HEARINGS ON PERMITS AND PERMIT AMENDMENTS.**

- A. The following applications are subject to a hearing:
  - (1) any application for which a protest has been filed;
  - (2) any application to drill and operate a well to withdraw more than two acre feet of groundwater per year;
  - (3) any application or application amendment that will result in the withdrawal of greater than two acre feet from a single well or in aggregate with other wells on the same permit; and
  - (4) any application for an export permit.

- B.** In accordance with Rule 5.4E, the Board may hold a public hearing on one or more applications. A public hearing may be held as part of a scheduled Board meeting at the regular Board meeting location unless the Board provides for the hearing to be held at a different location or referred to a hearing examiner.
- C.** Notice (Sec. 36.404)
- (1) If the Board schedules a public hearing on a permit or permit amendment, the District will give notice of the public hearing as provided by this section.
  - (2) The notice must include:
    - (a) The name of the applicant;
    - (b) The address or approximate location of the well or proposed well;
    - (c) A brief explanation of the proposed permit or permit amendment, including any requested amount of groundwater, the purpose of the proposed use, and any change in use;
    - (d) The time, date, and location of the hearing;
    - (e) A statement that the District will accept written comments on the application and give the deadline for submitting written comments;
    - (f) A statement that oral public comment on the application will be taken at the public hearing; and
    - (g) Any other information the Board considers relevant and appropriate.
  - (3) Not later than the 10<sup>th</sup> day before the date of a hearing, the District will:
    - (a) Post notice in a place readily accessible to the public at the District office;
    - (b) Provide notice to the county clerk; and
    - (c) Provide notice by:



- (i) Regular mail to the applicant;
  - (ii) Regular mail, facsimile, or electronic mail to any person who has requested notice under Subsection (4);
  - (iii) Regular mail to any other person entitled to receive notice under District Rules; and
  - (iv) Other notification deemed appropriate by the Board.
- (4) A person may request notice from the District of a public hearing on any permit or a permit amendment application. The request must be in writing and is effective for the remainder of the calendar year in which the request is received by the District. To receive notice of public hearing in a later year, a person must submit a new request. An affidavit of an officer or employee of the District establishing attempted service by first class mail, facsimile, or e-mail to the person in accordance with the information provided by the person is proof that notice was provided by the District.

**D. Public Hearing Registration (36.405)**

The District may require each person who participates in a public hearing to submit a hearing registration form stating:

- (1) the person's name;
- (2) the person's address; and
- (3) whom the person represents, if the person is not there in the person's individual capacity.

**E. Public Hearing Procedures (36.406)**

- (1) The public hearing may be conducted by a quorum of the Board, or the Board, at its sole discretion, may appoint a hearing Examiner to preside at and conduct the public hearing on the permit or permit amendment. If the public hearing is conducted by a quorum of the Board, the President will preside. If the President is not present, the Board will select one of the Directors present to preside. Notice of all public hearings conducted by a quorum of the Board will be made in accordance with the Open Meetings Act.

- (2) The presiding officer may:
  - (a) Convene the hearing at the time and place specified in the notice;
  - (b) Set any necessary additional hearing dates or continue the public hearing from day to day;
  - (c) Administer oaths to all persons presenting testimony;
  - (d) Examine persons presenting testimony; and
  - (e) Exercise all authority granted in Section 36.406 (d), Water Code.

**F.** Recording.

The presiding officer shall prepare and keep a record of each hearing in the form of meeting minutes except in a contested hearing an audio recording shall also be made. On the request of a party to a contested hearing, the hearing shall be transcribed by a court reporter. The costs of such court reporter may be assessed against the party requesting it or among the parties to the hearing. The presiding officer may exclude a party from further participation in the hearing for failure to pay or have paid by others in a timely manner costs assessed against that party.

**G.** Report. (36.410)

If the Board has appointed a hearing examiner to be the presiding officer at the public hearing, the hearing examiner shall submit a report to the Board not later than the 30<sup>th</sup> day after the date the public hearing is concluded. The report must include:

- (1) A summary of the subject matter of the hearing; and
- (2) A summary of the evidence or comments received.

A copy of the report shall be provided to the applicant, made a part of the record for the application, and made available to the public or any person who requests a copy.

**H.** Any permittee or registered well owner may file a formal protest against the proposed action and the Board shall refer the matter to a contested case hearing. If no protest is filed by the end of the public hearing, or at the end of any continued public hearing following the public hearing, the Board may:

- 1) issue the permit;
- 2) issue the permit with conditions;
- 3) deny the application; or
- 4) send the application to a contested case hearing.

If the Board votes to issue the permit with conditions or grants a maximum amount of groundwater production that is less than the amount requested in the application, the applicant may reject the permit by filing a request for a contested case hearing within 20 days after notice of the Board action is sent to the applicant.

#### **RULE 12.4 HEARINGS ON ENFORCEMENT ACTIONS.**

- A.** Once the District has determined that a person has violated any rule under the District's jurisdiction and that the Board is considering taking some action against the person, the District will decide at which Board meeting the enforcement action will be considered. The Board meeting at which the enforcement action is considered under this Rule will be considered the enforcement hearing on the matter and fulfills the requirement.
- B.** The General Manager shall post notice in accordance with the Open Meetings Act.
- C.** Notice of the enforcement hearing will be mailed to the respondent by certified mail, return receipt requested, at least ten days prior to the scheduled hearing date. This notice serves as the notice of violation.
- D.** Anyone attending the enforcement hearing may make oral comments at the time designated for comments.
- E.** The Board, at its sole discretion, may administer an oath to the staff, the respondent, and anyone who makes oral comments on the enforcement action.
- F.** The Board, at its sole discretion, may appoint a Hearings Officer or committee of the Board to conduct the enforcement hearing (Hearing Body). Any hearing conducted by a Hearing Body, will be conducted in the same manner as provided in this Rule 12.4. At the close of the enforcement hearing, the Presiding Officer will make a written recommendation to the Board. The recommendation will become part of the record. The Board is not required to approve the recommendation of the Hearing Body.

- G. The Board will issue a written order reflecting its decision and actions. Actions may include the sealing of the well(s), cancellation of permit(s), civil penalties or injunctions.
- H. The effective date of the written order will be the date on which the Chairman of the District signs the order or resolution. The order or resolution will include a statement that the order or resolution becomes effective and final on that date. Any suit authorized by Section 36.251, Texas Water Code, will run from that effective date.

**RULE 12.5 CONTESTED CASE HEARING PROCEDURES.**

**A. Applicability.**

Contested case hearings may be requested in connection with the following applications:

- (1) operating permits;
- (2) export permits; and
- (3) amendment to any existing permit.

**B. Contesting an Application.**

- (1) The Board will process a protest against an application by first determining if the protestant is entitled to a contested case hearing. Persons have a personal justiciable interest in and are entitled to a contested case hearing on applicable applications if that person owns a registered or permitted well that may be adversely impacted if the protested application is granted.
- (2) Applicants or potential protestants choosing not to file a request for a contested case hearing, waive any right to a contested case hearing upon the expiration of the filing deadline.

**C. Requests for Contested Case Hearing.**

- (1) A request for a contested case hearing or a protest against an application must be in writing and be filed before the end of the public hearing on that application for which notice was properly provided.
- (2) A contested case hearing request must substantially comply with the following:

- (a) give the name, address, daytime telephone number, and fax number, of the person filing the request. If the request is made by a corporation, partnership, or other business entity, the request must identify the entity and one person by name who shall be responsible for receiving all official communications and documents for the entity;
  - (b) state the basis upon which the person is entitled to a contested case hearing;
  - (c) state the issues the requestor or protestant wishes to contest;
  - (d) state whether the person requesting the contested case hearing is the applicant for that permit or an applicant for or holder of another groundwater withdrawal permit.
  - (e) request a contested case hearing;
  - (f) provide any other information requested in the notice of proposed action and technical summary; and
  - (g) be verified by an affidavit.
- (3) Where a request for a contested case hearing is filed by a person other than the applicant, a copy of that request must be served on the applicant at or before the time the request is filed. The request shall include a certificate indicating the date and manner of service and the name and address of all persons served.
- (4) If a person is requesting a contested case hearing on more than one application, a separate request must be filed in connection with each application.

**D. Processing of Hearing Requests.**

- (1) After a hearing request is timely filed the District staff will schedule a preliminary hearing to consider the request.
- (2) At least 20 days prior to the preliminary hearing the District staff will provide notice to the applicant, general manager and any persons who timely filed a hearing request.
- (3) Affected persons may submit a written response to the hearing request no later than 10 days before a Board meeting at which the

Board will evaluate that request. Responses must be filed with the District and served on the general manager, the applicant and any other persons who timely filed a hearing request in connection with that matter.

- (4) The person requesting a hearing may submit a written reply to a response no later than 5 days before the scheduled Board meeting at which the Board will evaluate the hearing request. All replies shall be filed with the District and served on the same day on the general manager, the applicant, and any other person who timely filed a hearing request.
- (5) The Board may refer the hearing request to SOAH (State Office of Administrative Hearings) instead of scheduling the hearing before the Board. Following the hearing, SOAH will provide a proposal for decision to the Board of Directors for action by the Board.
- (6) An applicant may, not later than the 20<sup>th</sup> day after the date the Board issues an order granting the application, demand a contested case hearing if the order:
  - (a) includes special conditions that were not part of the application as finally submitted; or
  - (b) grants a maximum amount of groundwater production that is less the amount requested in the application.

**D. Action by Board.**

- (1) The determination of whether a hearing request should be granted is not a contested case hearing.
- (2) The Board will evaluate the hearing request at a scheduled Board meeting and may determine that the person requesting the hearing:
  - (a) does not have a personal justiciable interest related to the application and deny the hearing request; or
  - (b) has a personal justiciable interest relating to the application and schedule the application to a contested case hearing.
- (3) If the Board grants the request for a contested case hearing, the Board shall assign a Hearings examiner or delegate the matter to SOAH. The Hearings examiner shall:
  - (a) schedule an evidentiary hearing to begin at least 21 days after the close of the preliminary hearing; and

- (b) following the evidentiary hearing, prepare a proposal for decision including proposed findings of fact and conclusions of law, and transmit that proposal to the Board.
- (4) The Board shall schedule a final hearing where it will consider the evidence and testimony presented during the evidentiary hearing and the hearings examiner's proposal for decision.
- (5) Following the final hearing, the Board may:
  - (a) grant the application;
  - (b) grant the application with conditions; or
  - (c) deny the application.

**E. Delegation to State Office of Administrative Hearings (SOAH).**

- (1) By order, the Board may delegate to SOAH the authority to conduct hearings designated by the Board.
- (2) If the Board refers a contested case hearing to SOAH, then the applicable rules of practice and procedure of SOAH (1 Tex. Admin. Code Ch. 155) govern any contested case hearing of the District, as supplemented by this subchapter.
- (3) If the Board refers a contested case hearing to SOAH, the administrative law judge who conducts the contested case hearing shall serve as the hearings examiner and consider applicable District rules and policies in conducting the hearing. However, the District may not supervise the administrative law judge.
- (4) If the Board refers a contested case hearing to SOAH, the District may not attempt to influence the findings of facts or the administrative law judge's application of the law in a contested case hearing except by proper evidence and legal argument.
- (5) If requested by the applicant or other party to a contested case, a district shall contract with the State Office of Administrative Hearings to conduct the hearing. The party must file such a request not later than the 14th day before the date the evidentiary hearing is scheduled to begin. The Board order granting the contested case hearing may designate a location for the hearing inside the boundaries of the District or in Travis County at a location designated by SOAH. The party requesting the hearing before the SOAH shall pay all costs associated with the contract for the

hearing and shall, before the hearing begins, deposit with the district an amount sufficient to pay the contract amount. At the conclusion of the hearing, the district shall refund any excess money to the paying party.

**F. Conducting a Contested Case Hearing by SOAH.**

- (1) When an application is referred to contested case hearing by the Board, the District will file all applicable documents to have the matter referred to SOAH.
- (2) In referring the case to contested case hearing, the District will:
  - (a) notify the administrative law judge of the applicable burden of proof for the applicant to establish all of the prima facie elements;
  - (b) identify for the administrative law judge any additional issues that have been raised in the request(s) for contested case hearing; and
  - (c) provide the administrative law judge with a written statement of applicable rules and policies of the District.

**G. Service of Documents.**

- (1) For any document filed with the District or the hearings examiner in a contested case, the person filing that document must serve a copy on all parties at or before the time that the request is filed.
- (2) A document presented for filing must contain a certificate of service indicating the date and manner of service and the name and address of each person served. The District may authorize a document to be filed without a certificate of service but will require the certificate be served within three days thereafter.

**H. Continuances.**

- (1) The Board may continue a hearing related to a contested case under the jurisdiction of the Board from time to time and from place to place.
- (2) The notice of the hearing must indicate the times and places at which the hearing may be continued.



- (3) If a hearing is not concluded on the day it begins, the Board shall, to the extent possible, proceed with the hearing on each subsequent working day until the hearing is concluded.

**I. Designation of Parties.**

The following are parties in all contested cases:

- (1) the general manager;
- (2) the applicant; and
- (3) a person who is granted a contested case hearing by Board action.

**J. Discovery.**

Discovery in contested case proceedings will be governed by Chapter 2001, Subchapter D, Tex. Gov't Code and Title 1, Section 155.31, Tex. Admin. Code, as supplemented by this subchapter. Depositions in a contested case shall be governed by Tex. Gov't Code §§ 2001.096-2001.102.

**K. Expenses of Witness or Deponent.**

A witness or deponent in a contested case who is not a party and who is subpoenaed or otherwise compelled to attend a hearing or proceeding to give a deposition or to produce books, records, papers, or other objects that may be necessary and proper for the purposes of a proceeding under this chapter is entitled to receive compensation or reimbursement in accordance with the provisions of Section 2001.103, Government Code.

**L. Evidentiary Matters.**

- (1) Evidence that is irrelevant, immaterial, or unduly repetitious shall be excluded.
- (2) The rules of privilege recognized by law shall be given effect.
- (3) An objection to an evidentiary offer may be made and shall be noted in the record.
- (4) Evidence may be received in writing if:
  - (a) it will expedited the hearing; and

- (b) the interests of the parties will not be substantially prejudiced.
- (5) A copy or excerpt of documentary evidence may be received if an original document is not readily available. On request, a party shall be given an opportunity to compare the copy or excerpt with the original document.
- (6) A party may conduct cross-examination required for a full and true disclosure of the facts.
- (7) Witnesses may be sworn and their testimony taken under oath.
- (8) Official notice may be taken of:
  - (a) all facts that are judicially cognizable; and
  - (b) generally recognized facts within the area of the District's specialized knowledge. Each party shall be notified either before or during the hearing, or by reference in a preliminary report or otherwise, of the material officially noticed, including staff memoranda or information. Each party is entitled to an opportunity to contest material that is officially noticed. The special skills or knowledge of District staff may be used in evaluating the evidence.

**M. Depositions and Subpoenas.**

- (1) On its own motion, or on the written request of a party, and on deposit of an amount that will reasonably ensure payment of the estimated total amount, the Board will issue a commission, addressed to the officers authorized by statute to take a deposition, requiring that the deposition of a witness be taken for a contested matter pending before it. Requests for issuance of commissions requiring deposition or subpoenas in a contested case will be in writing and directed to the Board.
- (2) A party requesting the issuance of a commission requiring deposition or a subpoena will file an original of the request with the District. District staff will arrange for the request to be presented to the Board at its next meeting.
- (3) In the case of a deposition, the Board will issue a commission addressed to the officer authorized by statute to take a deposition, requiring that the deposition of a witness be taken. The commission shall authorize the issuance of any subpoena necessary

to require that the witness appear and produce, at the time the deposition is taken, books, records, papers or other objects that may be necessary and proper for the purpose of the proceeding. Additionally, the commission will require the officer to whom it is addressed to examine the witness before the officer on the date and at the place named in the commission; and take answers under oath to questions asked the witness by a party to the proceeding, the District, or an attorney for a party or the District. The commission will require the witness to remain in attendance from day to day until the deposition is begun and completed.

- (4) In the case of a hearing, if good cause is shown for the issuance of a subpoena, and if an amount is deposited that will reasonably ensure payment of the amounts estimated to accrue, the District will issue a subpoena addressed to the sheriff or to a constable to require the attendance of a witness or the production of books, records, papers or other objects that may be necessary or proper for the purpose of the proceeding.

**N. Ex Parte Communications.**

- (1) For applications for which there is a right to a contested case hearing, a member of the Board may not, at any time after the application has been filed and before the Board has taken final action, communicate, directly or indirectly, about any issue of fact or law with any representative of the District or other designated party to the application, except on notice and opportunity for all parties to participate.
- (2) Subsection (1) does not apply if:
  - (a) the Board member abstains from voting on a matter in which he or she engaged in ex parte communications;
  - (b) the communications are by and between members of the Board consistent with the Texas Open Meetings Act;
  - (c) the communications are with District staff who have not participated in any hearing in the contested case for the purpose of using the special skills or knowledge of the staff in evaluating the evidence; or
- (c) the communications are with legal counsel representing the Board of Directors.

**O. Remand to Board.**

- (1) A hearings examiner may remand an application to the Board as follows:
  - (a) all timely hearing requests have been withdrawn;
  - (b) all parties to a contested case reach a settlement so that no facts or issues remain controverted; or
  - (c) the party or parties requesting the hearing defaults.
- (2) After remand, the application will be uncontested, and the applicant will either be deemed to have agreed to the action proposed by the general manager or, if the parties have reached a settlement agreement, the agreement will be presented to the Board for its consideration. District staff will set the application for consideration at a Board meeting.

**P. Informal Dispositions and Alternative Dispute Resolution.**

- (1) An informal disposition of a contested case may be made by:
  - (a) stipulation;
  - (b) agreed settlement;
  - (c) consent order; or
  - (d) default.
- (2) The hearings examiner may require the parties enter into mediation or other alternative dispute resolution process. The hearings examiner may also determine how the costs of the alternative dispute procedure shall be apportioned among the parties, appoint an impartial third party as provided by Section 2009.053, Government Code, to facilitate that procedure.

**Q. Certified Questions.**

- (1) At any time during a contested case proceeding, on a motion by a party or on the hearings examiner's own motion, the hearings examiner may certify a question to the Board.

- (2) Issues regarding District policy, jurisdiction, or the imposition of any sanction by the hearings examiner that would substantially impair a party's ability to present its case are appropriate for certification. Policy questions for certification purposes include, but are not limited to:
  - (a) the District's interpretation of its rules and applicable statutes;
  - (b) the portion of the Act, the District rules, or other statutes that are applicable to a proceeding; and
  - (c) whether District policy should be established or clarified as to a substantive or procedural issue of significance to the proceeding.
- (3) If a question is certified, the hearings examiner shall submit the certified issue to the District. District staff will place the certified issue on the agenda of a meeting of the Board. The District will give the hearings examiner and parties 30 day notice of the meeting at which the certified question will be considered. Within ten days after the certified question is filed with the District, parties to the proceeding may file briefs. Within ten days of the filing of such briefs, parties may file responses. Briefs and responses shall be filed with the District with copies served on the hearings examiner. The District will provide copies of the certified questions and any briefs and responses to the Board. The hearings examiner may abate the hearing until the District answers the certified question, or continue with the hearing if the hearings examiner determines that no party will be substantially harmed.
- (4) The Board will take action and issue a written decision on the certified issue and provide copies to the parties and the hearings examiner. A decision on a certified issue is not subject to a motion for rehearing, appeal or judicial review prior to the issuance of the District's final decision in the proceeding.

**R. Proposal for Decision.**

- (a) Except as provided by Subsection (e), the presiding officer shall submit a proposal for decision to the board not later than the 30th day after the date the evidentiary hearing is concluded.
- (b) The proposal for decision must include:
  - (1) a summary of the subject matter of the hearing;
  - (2) a summary of the evidence or public comments received; and

- (3) the presiding officer's recommendations for board action on the subject matter of the hearing.
- (c) The presiding officer or general manager shall provide a copy of the proposal for decision to:
  - (1) the applicant; and
  - (2) each designated party.
- (d) A party may submit to the board written exceptions to the proposal for decision.
- (e) If the hearing was conducted by a quorum of the board and if the presiding officer prepared a record of the hearing as provided by Section 36.408(a), Water Code, the presiding officer shall determine whether to prepare and submit a proposal for decision to the board under this section.
- (f) The board shall consider the proposal for decision at a final hearing. Additional evidence may not be presented during a final hearing. The parties may present oral argument at a final hearing to summarize the evidence, present legal argument, or argue an exception to the proposal for decision. A final hearing may be continued as provided by Section 36.409, Water Code.

**S. Scheduling of a Meeting of the Board.**

- (1) After receiving the proposal for decision or other disposition from the hearings examiner, District staff shall schedule the presentation of the proposal to the Board. The District shall provide 10 day notice to the parties of the date of the final hearing before the Board at which the proposal will be presented and considered. The Board may reschedule the presentation of the proposal. The District will send notice of the rescheduled meeting date to the parties no later than 10 days before the rescheduled meeting.
- (2) Any party to the contested case hearing may make an oral presentation at the Board meeting in which the proposal for decision in that case is presented to the Board.
- (3) On the written request of a party to a contested case, the oral proceedings before the Board at which the proposal for decision is presented and oral presentations are made, may be transcribed by a court reporter. A party that desires a transcript of the proceedings shall bear the cost, or the costs will be equally divided between all parties requesting a transcript. If the District desires a transcript it will bear the costs.

**T. Reopening the Record.**

The Board, on the motion of any party to a contested case or on its own motion, may order the hearings examiner to reopen the record for further proceedings on specific issues in dispute. The order shall include instructions as to the subject matter of further proceedings and the hearings examiner's duties in preparing supplemental materials or revised proposals based upon those proceedings for the Board's adoption.

**U. Decision.**

- (1) The decision, if adverse to any party, must be in writing or stated in the record and will include findings of fact and conclusions of law separately stated.
- (2) Findings of fact may be based only on the evidence and on matters that are officially noticed. If set forth in statutory language, findings of fact must be accompanied by a concise and explicit statement of the underlying facts supporting the findings.
- (3) If a party submits proposed findings of fact, the decision will include a ruling on each proposed finding.
- (4) If a contested case is presided over by a majority of the Board, then the Board's decision shall be rendered not later than the 60th day after the date on which the hearing is finally closed. If the Board refers a contested case to SOAH, then the Board's decision will be rendered no more than 120 days after the date that the proposal for decision is presented at a final hearing, unless the Board determines that there is good cause for extending the deadline.

**V. Notification of Decisions.**

- (1) District staff will notify all parties in a contested case of any decision or order.
- (2) District staff will send a copy of the decision in a contested case to attorneys of record, or the parties.
- (3) A party or attorney of record notified by mail is presumed to have been notified on the third day after the date on which the notice is mailed.

**W. Motion for Rehearing.**

- (1) For any matter considered during a contested case hearing, only a party to the contested case proceeding may file a motion for rehearing. The motion shall be filed with the District by no later than the 20th day after the date of the Board's decision. On or before the date of filing of a motion for rehearing, the party filing the motion shall mail or deliver a copy of the motion to all parties with certification of service furnished to the District. The motion shall contain:
  - (a) the name and representative capacity of the person filing the motion;
  - (b) the style and official docket number assigned by the hearings examiner;
  - (c) the date of the decision or order; and
  - (d) the grounds for the motion, including a concise statement of each allegation of error.
- (2) On receipt of a timely written request, the board shall make written findings and conclusions regarding a decision of the board on a permit or permit amendment application. The board shall provide certified copies of the findings and conclusions to the person who requested them, and to each designated party, not later than the 35th day after the date the board receives the request. A party to a contested hearing may request a rehearing not later than the 20th day after the date the board issues the findings and conclusions.
- (3) Only a party to the contested case proceeding may reply to a motion for rehearing. A reply must be filed with the District within 20 days after the date the motion for rehearing is filed.
- (4) The motion for rehearing will be scheduled for consideration during a Board meeting. A motion for rehearing may be granted in whole or in part. When a motion for rehearing is granted, the decision or order is nullified. The Board may reopen the hearing to the extent it deems necessary. If the Board grants a motion for rehearing, District staff shall schedule the rehearing not later than the 45th day after the date the motion is granted. Thereafter, the Board shall render a decision or order.



- (5) The failure of the Board to grant or deny a motion for rehearing before the 91<sup>st</sup> day after the date the motion is submitted constitutes a denial of the motion by operation of law.

**X. Decision Final and Appealable.**

In the absence of a timely motion for rehearing, a decision or order of the Board is final on the expiration of the period for filing a motion for rehearing. If a party files a timely motion for rehearing, a decision or order of the Board is final and appealable on the date:

- (1) the Board denies the motion for rehearing, including a denial by operation of law; or
- (2) the Board renders a written decision after rehearing.

**Y. Appeal of Final Decision.**

- (1) Not later than the 60th day after the date on which the decision became final and appealable, parties affected by the final decision of the Board in a contested case may file suit under Section 36.251, Texas Water Code, to appeal the decision. A party may not file suit if a motion for rehearing was not timely filed.
- (2) The record in a contested case hearing shall include the following:
  - (a) all pleadings, motions and intermediate rulings;
  - (b) evidence received or considered;
  - (c) a statement of matters officially noticed;
  - (d) questions and offers of proof, objections and rulings on them;
  - (e) summaries of the results of any conferences held before or during the hearing;
  - (f) proposed findings, exceptions and briefs;
  - (g) any decision, opinion or report issued by the hearings examiner;
  - (h) pre-filed testimony;

- (i) all memoranda or data submitted to or considered by the hearings examiner; and
- (j) the final order and all interlocutory orders.

**Z. Costs of Record on Appeal.**

A party who appeals a final decision in a contested case shall pay all costs of preparation of the record of the proceeding that is required to be transmitted to the reviewing court. A charge imposed is considered to be a court cost and may be assessed by the court in accordance with the Texas Rules of Civil Procedure.

**RULE 12.6 PETITION FOR THE ADOPTION OR MODIFICATION OF RULES.**

- A.** A person with a real property interest in groundwater in the District may file a petition with the District to request the adoption or modification of a rule.
- B.** Petitions must be submitted in writing to the General Manager at the District office and must comply with the following requirements:

  - (1) each rule requested must be submitted by separate petition;
  - (2) each petition must be signed and state the name and address of each person signing the petition;
  - (3) each petition must include:

    - (a) a brief written description and a drawing showing the location of the petitioner's real property interest in groundwater in the District;
    - (b) a brief explanation of the proposed rule;
    - (c) the text of the proposed rule prepared in a manner to indicate the words to be added or deleted from the text of the current rule, if any;
    - (d) a statement of the statutory authority under which the proposed rule is to be promulgated; and
    - (e) an allegation of injury or inequity that could result from the failure to adopt the proposed rule.
- C.** The General Manager may reject any petition for failure to comply with the requirements of Subsection (b) of this section and shall provide notice to the petitioner of the reason for the rejection.
- D.** Within 90 days after the date the District receives the petition that complies with this section, the Board shall either deny the petition, stating its reasons for denial in the minutes of the board meeting or in a letter providing a written explanation to the petitioner, or initiate rulemaking proceedings as provided by Section 36.101, Water Code.
- E.** There is no private cause of action for a decision to accept or deny the petition.

**APPENDIX A**  
**RULE REVISION/AMENDMENT DATES**

Adopted 1 <sup>st</sup> Rules – January 12, 1989	
Amended/Adopted – May 1, 1990	75’ Setback Requirement
Amended/Adopted – December 1, 1992	Well Completion
Amended/Adopted – September 6, 1994	Waste
Amended/Adopted – November 9, 1999	General
Amended/Adopted – March 19, 2002	General
Amended/Adopted – June 11, 2002	Rule 5.6(A) - Clarification of 75’ setback requirement
Amended/Adopted – September 10, 2002	Rule 5.1(C)(5); 5.2(C); Statutory Authority Section 9 A,B,C & D; Rule 9.1; 9.2(A); 9.2(A)(2); 9.2(B)(1)(4)(6) - Modify exemptions pertaining to domestic wells within high historical use and critical groundwater depletions areas
Amended/Adopted – December 16, 2003	Addition of buffer zones around High Historical Groundwater Use Areas in Rule 9.2C and 9.2E, modification of the hearing process in Rule 12. Hearings and general administrative changes.
Amended/Adopted – October 5, 2004	Definitions: Adding Retail Public Utility – Amending – Applicant, Contiguous, Owner and Service Area; Modifications to Rule 5. Well Permitting; and General Administrative Changes
Amended/Adopted – May 9, 2006	Definitions – adding new and deleting old terms - Modifications to Rule 5.4 Permit Applications Procedure; Term Renewal, and Amendment – Modifications to Rule 12.Hearings – General administrative changes
Amended/Adopted – July 8, 2008	Modifications Rule 5.1, 5.2(C), 5.2(D), 5.4(B),(C),(D),(E),(F),(G),(L),(N), Rule 5.6(A), Rule 6.1, Rule 8.1(C), Rule 11.3 and General Administrative Changes
Amended/Adopted – December 3, 2013	Multiple rules were amended to implement legislative changes effective September 1, 2011, including changes to the definitions, contested case hearing process, considerations for permit applications, exemptions, and grammar changes throughout.

Amended/Adopted – June 10, 2014	Rule 9.3 Critical Groundwater Depletion Area – address drought conditions
Amended/Adopted – August 14, 2018	Definitions – adding and deleting new terms; Multiple rules were amended to implement legislative changes; Adding requirement to permit applications on 80 acre feet or greater a hydrogeologic study performed * HHUA greater or equal to 40 acre feet; Removes requirement of only allowing one well per lot on lot sizes ten acres or less; Removes 75’ setback requirement from property line for tracts of land in existence prior to May 1, 1990 for registered wells; removes deposit requirement for registered wells;
Amended/Adopted – November 14, 2023	Adding Preamble to distinguish between an exempt, non-exempt and historic (grandfathered) well; Definitions – adding new terms & amending terms; Multiple rules were amended to implement legislative changes; Amending requirement to permit applications on 40 acre feet or greater a hydrogeologic study performed * HHUA, CGDA greater or equal to 20 acre feet; Amends language from will cancel to may cancel the CGDA upon return of normal climatic conditions and adequate recharge to bring the aquifer back to sustainable norma usage; General administrative changes (grammatical & comma errors, and rewording)

## **APPENDIX B** **COMPROMISE AND SETTLEMENT GUIDELINES**

*These are the guidelines the District will follow after the Hearings on Enforcement Actions (Rule 12.4), the following procedures will be implemented.*

**Compromise and Settlement Worksheet:** Each compromise and settlement worksheet prepared for presentation to the board shall include the following information.

- The name of the permittee
- The type of violation and the facts underlying the violation (including whether it is a repeat occurrence), and
- The penalty as provided by Section 36.102(b) of the Texas Water Code.

**The fines listed below will be in addition to any other fees owed to the District.**

### **MINOR VIOLATIONS**

The following acts shall constitute minor violations:

- Failure to file a registration form on an exempt well.
- Failure to submit required paperwork and reports as required by District Rules.
- Refusing to allow District employees access to wells.
- Failure to prevent waste.
- Failure to comply with capping rules.

### **MAJOR VIOLATIONS**

The following acts shall constitute major violations:

- Failure to obtain a permit (Including: failure to permit an existing well, failure to obtain a permit prior to drilling, or failure to obtain a permit prior to installing a landscape irrigation system).
- Failure to abide by permit requirements (i.e. production limits).
- Failure to comply with well spacing and well density rules.
- Failure to complete well according to District Rules or State standards.
- Failure of drillers, pump installers, and irrigation installers to have all necessary State certification(s) and to be complainant with all District Rules.
- Failure to install the proper check valves to prevent contamination from chemical injection, chemigation, and foreign substance systems.
- Failure to meter a well if required.
- Failure to comply with plugging rules.
- Removal of the seal of a prohibited well sealed by Court Order.
- Tampering with or bypassing a well production monitoring device (i.e. meter).
- Failure to come into compliance after second occurrence on a minor violation.
- Pumping groundwater into surface impoundments in excess of 50,000 gallons.

### **CALCULATIONS**

**Minor Violation**

- First occurrence: Up to \$50.00 per day
- Second occurrence: Up to \$100.00 per day
- Third occurrence: Major violation

**Major Violation**

- First Occurrence: Up to \$250.00 per day
- Second Occurrence: Up to \$500.00 per day
- Third Occurrence: Civil Suit for injunction and civil penalties up to \$10,000.00 per day.

*After the Hearings on Enforcement Actions (Rule 12.4), the following procedures will be implemented.*

On the first occurrence of any violation, the violator shall be notified and allowed a specified time to become compliant. The first occurrence per diem starts on the date of the violation notice and continues through the specified time, but will be waived if the violator becomes compliant in the time specified in the violation notice. After the first occurrence time period has expired and the violator has not become compliant, then a second occurrence will be assessed and the violator notified. A new time period will be given for compliance along with a new second occurrence per diem that will be in addition to the first occurrence per diem assessed and accrued. If during the second occurrence the violator has become compliant, the second occurrence per diem will be waived; however the first occurrence per diem may or may not be waived by the Board. A third occurrence will be assessed and the violator notified if the violator has not become compliant after the second occurrence time period has expired. A new third occurrence per diem will be assessed with the first and second occurrence per diems remaining. If during the third occurrence the violator becomes compliant then the third occurrence per diem will be waived, however the first and second occurrence per diem may or may not be waived by the Board.

A repeat violation of the same nature occurring any time after the initial violation has been rectified will automatically be categorized as a second occurrence. Failure to bring the well into compliance or settle any violation may be treated as a major violation and the District may bring a Civil Suit for injunction and seek civil penalties up to \$10,000.00 per day.

**OTHER MAJOR VIOLATIONS**

**Violations for Projects without Proper Permits.**

- An aquifer storage and recovery project: Up to \$10,000.00 per day
- Transportation of water from District: Up to \$10,000.00 per day

**Sealed Well Violations.**

- Unsealing a well sealed by Court Order: Up to \$5,000.00 per day

## Appendix D

Lastly, Paul Tybor, HCUWCD Manger, is to be commended for his efforts to educate the public about water conservation issues and the complexities of aquifers. However, he cannot move this county toward a greater level of water conservation by himself. This effort requires coordination with the City and the County to develop a cohesive and comprehensive Water Conservation Program with a solid goal to decrease the water usage from the current 196+ gallons per person per day to 120 gallons or less. It is therefore recommended that representatives from the City's Water Conservation Program, Gillespie County Soil and Water Conservation District, Fredericksburg Visitor's Bureau, the HCUWCD District and others, as appropriate, should be convened as one body to this end.

Submitted by,

A handwritten signature in cursive script that reads "Deborah Youngblood".

Deborah Youngblood  
Pedernales River Alliance