

Clearwater Underground Water Conservation District

P.O. Box 729, Belton, Texas 76513 Phone: 254/933-0120 Fax: 254/770-2360

www.clearwaterdistrict.org

Horace Grace, President Wallace Biskup Leland Gersbach Judy Parker John Mayer

RECEIVED

JUN 1 0 2008

June 9, 2008

TWDB

J. Kevin Ward, Executive Administrator Texas Water Development Board 1700 N. Congress Avenue Austin, TX 78701

Re: Desired Future Conditions Submittal for GMA 8

Dear Mr. Ward:

The Clearwater Underground Water Conservation District is the administrator for Groundwater Management Area 8 (GMA 8). On behalf of GMA 8, we are submitting desired future conditions (DFC) for three of the nine major and minor aquifers within our boundary. The aquifers for which DFCs have recently been adopted are as follows: Ellenburger-San Saba; Hickory; and Marble Falls.

Our submittal includes the following information:

- 1) Desired Future Conditions Report for the 3 aquifers above.
- 2) Copies of agendas announcing the meeting at which the DFCs were adopted from each of the groundwater conservation districts in GMA 8. Approved minutes are not currently available but will be provided when approved at the next GMA 8 meeting.
- A signed resolution adopting the desired future conditions and recording the member votes. The resolution references "Appendix B" which includes a 2-D spread sheet model developed by TCB, Inc. and various hydrogeologic reports and other studies used in developing the DFCs. These have not been included in this submittal but are available upon request.

Please note that the adopted DFCs reflect future aquifer conditions anticipated as a result of pumping from both exempt and non-exempt wells. When the managed available groundwater (MAG) figures are developed, they will reflect the amount of water available for use; however, if this full amount is permitted the desired future conditions will not be maintained because exempt well owners are also pumping groundwater. Therefore, it is our understanding that the groundwater conservation districts may reserve water for exempt well use which would result in a permitting figure that is less than the full MAG.

J. Kevin Ward June 9, 2008 Page 2

Please feel free to contact me if you have any questions or need additional information.

Sincerely, Church June

Cheryl Maxwell, AICP Clearwater Underground Water Conservation District Manager

GMA 8 Administrator

cm

attachments

RESOLUTION TO ADOPT DESIRED FUTURE CONDITIONS

FOR AQUIFER(S) IN GROUNDWATER MANAGEMENT AREA 8

THE STATE OF TEXAS	8
	§
GROUNDWATER MANAGEMENT AREA 8	8
	8
GROUNDWATER CONSERVATION DISTRICTS	8

WHEREAS, Texas Water Code § 36.108 requires the groundwater conservation districts located in whole or in part in a groundwater management area ("GMA") designated by the Texas Water Development Board to adopt desired future conditions for the relevant aquifers located within the management area;

WHEREAS, the groundwater conservation districts located wholly or partially within Groundwater Management Area 8 ("GMA 8"), as designated by the Texas Water Development Board, as of the date of this resolution are as follows: Central Texas Groundwater Conservation District, Clearwater Underground Water Conservation District, Fox Crossing Water District, McLennan County Groundwater Conservation District, Middle Trinity Groundwater Conservation District, Northern Trinity Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, Saratoga Underground Water Conservation District, Tablerock Groundwater Conservation District, and Upper Trinity Groundwater Conservation District (collectively hereinafter "the GMA 8 Districts");

WHEREAS, the GMA 8 Districts are each governmental agencies and bodies politic and corporate operating under Chapter 36, Water Code;

WHEREAS, the GMA 8 Districts desire to fulfill the requirements of Texas Water Code § 36.108 through mutual cooperation and joint planning efforts;

WHEREAS, the GMA 8 Districts have had numerous public meetings at which they have engaged in joint planning efforts to promote more comprehensive management of the aquifers located in whole or in part in Groundwater Management Area 8;

WHEREAS, the GMA 8 Districts may establish different desired future conditions for: (1) each aquifer, subdivision of an aquifer, or geologic strata located in whole or in part within the boundaries of GMA 8; or (2) each geographic area overlying an aquifer in whole or in part or subdivision of an aquifer within the boundaries of GMA 8;

WHEREAS, the GMA 8 Districts recognize that GMA 8 includes a geographically and hydrologically diverse area with a variety of land uses and a diverse mix of water users;

WHEREAS, the GMA 8 Districts have considered the relevant aquifers, subdivisions thereof, and geologic strata located in whole or in part within the boundaries of GMA 8, and have further considered the hydrogeologic characteristics of the same, as well as the various uses and users of groundwater produced from such aquifers, subdivisions, and strata;

WHEREAS, GMA 8 Districts held a meeting, which was open to the public, at 10:00 a.m. on Monday, May 19, 2008, in the Bellmead City Hall located at 3015 Bellmead Drive, Bellmead, Texas;

WHEREAS, notice of said May 19, 2008, meeting was properly given by each and all of the GMA 8 Districts in accordance with Chapter 36, Water Code, and Chapter 551, Government Code, and a true and correct copy of each of the notices has been attached hereto in Appendix A and is incorporated herein for all purposes;

WHEREAS, at least two-thirds of the GMA 8 Districts had a voting representative in attendance at said May 19, 2008, meeting in accordance with Section 36.108(d-1), Texas Water Code; to wit, the following districts had a voting representative in attendance at said meeting: Central Texas Groundwater Conservation District, Clearwater Underground Water Conservation District, Fox Crossing Water District, McLennan County Groundwater Conservation District, Middle Trinity Groundwater Conservation District, Northern Trinity Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, Saratoga Underground Water Conservation District, Tablerock Groundwater Conservation District, and Upper Trinity Groundwater Conservation District;

WHEREAS, it is the intent and purpose of the GMA 8 Districts by adoption of this resolution to fulfill the requirements of Texas Water Code § 36.108, including establishing "desired future conditions for the relevant aquifers" within GMA 8 for the specific aquifer(s) and desired future conditions described under "Appendix B" attached hereto and incorporated herein for all purposes;

WHEREAS, at said May 19, 2008, meeting, after motions were duly made and seconded that the GMA 8 Districts adopt this resolution establishing desired future conditions for the aquifer(s) described under "Appendix B", the motions prevailed by the following vote:

Ellenburger-San Saba, Hickory, Marble Falls:

10 Ayes and 0 Nays;

WHEREAS, in establishing these desired future conditions for the aquifer(s) set forth under Appendix B, the GMA 8 Districts have considered all of the criteria required by Chapter 36 of the Texas Water Code and other information, including without limitation groundwater availability models and runs of those models to determine the effects of various conditions and parameters, hydrogeologic reports available for the relevant aquifers, and other technical data and information;

WHEREAS, many of the groundwater availability models, runs, hydrogeologic reports, and other technical data and information considered and determined to be reliable sources of information by the GMA 8 Districts in establishing these desired future conditions for the aquifer(s) have been attached hereto or referenced in the documents attached hereto under Appendix B;

WHEREAS, in establishing these desired future conditions for the aquifer(s) set forth under Appendix B, the GMA 8 Districts have considered the uses and conditions of the aquifer(s) in different geographic areas within GMA 8 and what the effects and impacts of adopting such desired future conditions will have upon the condition of the aquifer(s) and the uses and users of groundwater from the aquifer(s) both now and in the future;

WHEREAS, after considering such anticipated effects and impacts these desired future conditions will have on the aquifer(s), uses, and users of groundwater, and considering all of the other criteria required by Chapter 36 of the Texas Water Code, including without limitation the groundwater resource management duties and responsibilities of the GMA Districts individually and collectively, the GMA 8 Districts have determined that the desired future conditions for the aquifer(s) set forth under Appendix B are reasonable;

NOW, THEREFORE, BE IT RESOLVED BY THE AUTHORIZED VOTING REPRESENTATIVES OF THE GMA 8 DISTRICTS AS FOLLOWS:

- 1. The above recitals are true and correct.
- 2. The authorized voting representatives of the GMA 8 Districts hereby establish the desired future conditions of the aquifer(s) as set forth in Appendix B by the vote reflected in the above recitals.
- 3. The GMA 8 Districts and their agents and representatives, individually and collectively, are further authorized to take any and all actions necessary to implement this resolution.
- 4. The desired future conditions of the aquifer adopted by the GMA 8 Districts and attached hereto shall be effective immediately and shall continue in effect until amended, superseded, or repealed.

AND IT IS SO ORDERED.

PASSED AND ADOPTED on this 19th day of May, 2008.

ATTEST:	
Muhand & Bourn	
Central Texas Groundwater Conservation District	
And Grace v	
Clearwater Underground Water Conservation District	
Jerry Prieses.	′
Fox Crossing Water District	
Rody hyard	
McLennan County Groundwater Conservation District	•
Middle Trinity Groundwater Conservation District	/
Middle Trinity Groundwater Conservation District	
- Mill	/
Northern Trinity Groundwater Conservation District	70
Devane John	
Post Oak Savannah Groundwater Conservation District	
Groupe John White	/
Saratoga Underground Water Conservation District	
Tablerock Groundwater Conservation District	/
Upper Trinity Groundwater Conservation District	<u>/</u>
ATTACHMENTS Appendix A: Copies of notices of May 19, 2008, meeting Appendix B: Adopted Desired Future Conditions and supporting information	

Appendix A

Notice is hereby given that the groundwater conservation districts located wholly or partially within Groundwater Management Area (GMA) 8, as designated by the Texas Water Development Board, consisting of the Central Texas Groundwater Conservation District, Clearwater Underground Water Conservation District, Fox Crossing Water District, McLennan County Groundwater Conservation District, Middle Trinity Groundwater Conservation District, Northern Trinity Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, Saratoga Underground Water Conservation District, Tablerock Groundwater Conservation District, and Upper Trinity Groundwater Conservation District will hold a Joint Planning meeting at 10:00 A.M. on Monday, May 19, 2008, in the Bellmead City Hall located at 3015 Bellmead Drive, Bellmead, Texas 76705. The meeting will be open to the public. The following items of business will be discussed:

- Invocation.
- 2. Call meeting to order and establish quorum.
- 3. Welcome and introductions.
- Public comment.
- 5. Approve minutes of December 17, 2007 GMA 8 meeting.
- 6. Update from the Texas Water Development Board on the GMA joint planning process.
- 7. Presentation on proposed desired future conditions for the following minor aquifers within GMA 8: Ellenburger-San Saba, Hickory, and Marble Falls.
- 8. Public hearing on proposed desired future conditions for the minor aquifers described above.
- Discussion and possible action to adopt proposed desired future conditions for the minor aquifers described above.
- 10. Discussion regarding status of desired future conditions for the Trinity aquifer.
- Update on managed available groundwater figures for the Edwards BFZ aquifer.
- 12. Discussion and possible action to amend contract to approve additional work previously conducted by TCB, Inc. to develop the desired future conditions for the aquifers in GMA 8.
- 13. Committee member comments.
- Discuss agenda items for next meeting.
- 15. Set date, time, and place of next meeting.
- 16. Closing comments.
- 17. Adjourn.

Dated this 6th day of May, 2008,

Richard S. Bowers, General Manager

Central Texas Groundwater Conservation District

Janet Parker
County Clerk - Burnet County, Texas

By Shyn Walker / Deput

The Central Texas Groundwater Conservation District is committed to compliance with the Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District office at 512-756-4900 at least 24 hours in advance if accommodation is needed.

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

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- 11. Update on managed available groundwater figures for the Edwards BFZ aquifer.
- 12. Discussion and possible action to amend contract to approve additional work previously conducted by TCB, Inc. to develop the desired future conditions for the aquifers in GMA 8.
- 13. Committee member comments.
- 14. Discuss agenda items for next meeting.
- 15. Set date, time, and place of next meeting.
- 16. Closing comments.
- 17. Adjourn.

Dated this 5 day of May, 2008

Horace Grace, CUWCD President

By: Cheryl Maxwell, CUWCD Asst. Secretary

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

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

FOX CROSSING WATER DISTRICT NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 8

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Invocation. 1.

3.

Call meeting to order and establish quorum. 2.

MAY 0 8 2008 Welcome and introductions.

CAROLYN FOSTER

4. Public comment.

Approve minutes of December 17, 2007 GMA 8 meeting. 5.

County and District Clerk
Mills County, Taxas Update from the Texas Water Development Board on the GMA joint planning process. 6.

Presentation on proposed desired future conditions for the following minor aquifers within GMA 8: 7. Ellenburger-San Saba, Hickory, and Marble Falls.

- Public hearing on proposed desired future conditions for the minor aquifers described above. 8.
- 9. Discussion and possible action to adopt proposed desired future conditions for the minor aquifers described above.
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- Update on managed available groundwater figures for the Edwards BFZ aquifer. 11.
- 12. Discussion and possible action to amend contract to approve additional work previously conducted by TCB, Inc. to develop the desired future conditions for the aguifers in GMA 8.
- 13. Committee member comments.
- 14. Discuss agenda items for next meeting.
- 15. Set date, time, and place of next meeting.
- 16. Closing comments.
- 17. Adjourn.

Dated this 5th day of May, 2008

Rodney Carlisle FCWD President

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- 13. Committee member comments.
- 14. Discuss agenda items for next meeting...
- 15. Set date, time, and place of next meeting.
- 16. Closing comments.
- 17. Adjourn.

Dated this 5th day of May, 2008

Horace Grace, CUWCD President

S.G. Radeliffe

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- 11. Update on managed available groundwater figures for the Edwards BFZ aquifer.

the District office at 254-965-6705 at least 24 hours in advance if accommodation is needed.

- 12. Discussion and possible action to amend contract to approve additional work previously conducted by TCB, Inc. to develop the desired future conditions for the aguifers in GMA 8.
- 13. Committee member comments.

14. Discuss agenda items for next meeting.

15. Set date, time, and place of next meeting.

16. Closing comments.

17. Adjourn. MAY 14 2008

Joe Cooper, General Manager, MTGCD

GWINDA JÜNGS, COUNTY CLERK ERATH COUNTY, TEXAS

A.M. 12:40 P.M.

Dated this 14 day of May, 2008

The Middle Trinity Groundwater Conservation District is committed to compliance with the Americans with Disabilities Act. Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact

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- 13. Committee member comments.
- 14. Discuss agenda items for next meeting.
- 15. Set date, time, and place of next meeting.
- Closing comments.
- 17. Adjourn.

The Northern Trinity Groundwater Conservation District is committed to public access. To request an accommodation for a person with a disability who wishes to attend the meeting, contact Mark Mendez at 817-884-2729 at least one business day prior to the posted meeting.

May 19, 2008 – 10:00 a.m. Bellmead City Hall 3015 Bellmead Drive Bellmead, Texas 76705

AGENDA

Notice is hereby given that the groundwater conservation districts located wholly or partially within Groundwater Management Area (GMA) 8, as designated by the Texas Water Development Board, consisting of the Central Texas Groundwater Conservation District, Clearwater Underground Water Conservation District, Fox Crossing Water District, McLennan County Groundwater Conservation District, Middle Trinity Groundwater Conservation District, Northern Trinity Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, Saratoga Underground Water Conservation District, Tablerock Groundwater Conservation District, and Upper Trinity Groundwater Conservation District will hold a Joint Planning meeting at 10:00 A.M. on Monday, May 19, 2008, in the Bellmead City Hall located at 3015 Bellmead Drive, Bellmead, Texas 76705. The meeting will be open to the public. The following items of business will be discussed:

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- Discussion and possible action to amend contract to approve additional work previously conducted by TCB, Inc. to develop the desired future conditions for the aquifers in GMA 8.
- 13. Committee member comments.
- 14. Discuss agenda items for next meeting.
- 15. Set date, time, and place of next meeting.
- Closing comments.
- 17. Adjourn.

Signed this 7th day of May, 2008.

Filed & Aday of May in SOOB, At 8. OSA-M.
BARBARA VANSA
County Clork, Milam County, Texas

By Louis Clark, Myam County, Te.
Deputy

Gary Westbrook, General Manager, POSGCD-

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- 13. Committee member comments.
- 14. Discuss agenda items for next meeting.
- 15. Set date, time, and place of next meeting.
- 16. Closing comments.
- 17. Adjourn.

Dated this 16th day of May, 2008

Dayid B. Hamilton, Chairman SUWCD

The Saratoga Underground Water Conservation District is committed to compliance with the Americans with Disabilities Act. Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District office at 512-556-8271 at least 24 hours in advance if accommodation is needed.

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day of May, 2008

MAY 0 5 2008

GREEGER DESIGNATION
COUNTY CLERK, CORYELL CO., TEXAS

Wyllis H. Ament

President

Tablerock Groundwater Conservation District

Coryell County

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Open Meeting Submission

Success! Row inserted

TRD:

2008003564

Date Posted:

05/05/2008

Status:

Accepted

Agency Id:

1005

Date of

05/05/2008

Agency

Name:

Upper Trinity Groundwater Conservation District

Board:

Submission:

Groundwater Management Area 8 Groundwater Conservation Districts

Liaison Id:

Date of

Meeting:

05/19/2008

Bellmead

Jason Hill

Time of

Meeting:

10:00 AM (##:## AM Local Time)

Street

Location:

Bellmead City Hall, 3015 Bellmead Drive

City

Location:

State

Location:

Liaison

Name:

Additional Information

Obtained

From:

TX

Cheryl Maxwell, GMA 8 Administrator, (254)933-0120

NOTICE OF MEETING

GROUNDWATER MANAGEMENT AREA 8

Notice is hereby given that the groundwater conservation districts located wholly or partially within Groundwater Management Area (GMA) 8, as designated by the Texas Water Development Board, consisting of the Central Texas Groundwater Conservation District, Clearwater Underground Water Conservation District, Fox Crossing Water District, McLennan County Groundwater Conservation District, Middle Trinity Groundwater Conservation District, Northern Trinity Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, Saratoga Underground Water Conservation District, Tablerock Groundwater Conservation District, and Upper Trinity Groundwater Conservation District will hold a Joint Planning meeting at 10:00

A.M. on Monday, May 19, 2008, in the Bellmead City Hall located at 3015 Bellmead Drive, Bellmead, Texas 76705. The meeting will be open to the public. The following items of business will be discussed:

- 1. Invocation.
- 2. Call meeting to order and establish quorum.
- 3. Welcome and introductions.
- 4. Public comment.
- 5. Approve minutes of December 17, 2007 GMA 8 meeting.
- Update from the Texas Water Development Board on the GMA joint planning process.
- 7. Presentation on proposed desired future conditions for the following minor aquifers within GMA 8: Ellenburger-San Saba, Hickory, and Marble Falls.
- 8. Public hearing on proposed desired future conditions for the minor aquifers described above.
- 9. Discussion and possible action to adopt proposed desired future conditions for the minor aquifers described above.
- 10. Discussion regarding status of desired future conditions for the Trinity aquifer.
- 11. Update on managed available groundwater figures for the Edwards BFZ aquifer.
- 12. Discussion and possible action to amend contract to approve additional work previously conducted by TCB, Inc. to develop the desired future conditions for the aquifers in GMA 8.
- 13. Committee member comments.
- 14. Discuss agenda items for next meeting.
- 15. Set date, time, and place of next meeting.
- 16. Closing comments.
- 17. Adjourn.

Agenda:

The Upper Trinity Groundwater Conservation District is committed to compliance with the Americans with Disabilities Act. Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the GMA 8 Administrator at 254-933-0120 at least 24 hours in advance if accommodation is needed.

During the meeting, the GMA 8 Committee reserves the right to go into executive session for any of the purposes authorized under V.T.C.A., Government Code, Chapter 551, for any item on the above agenda or as otherwise authorized by law.

New

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Appendix B

CHARLES R. WILLIAMS

GEOLOGY No. 526

VAL X

TCB 400 West 15th Street, Suite 500, Austin, Texas 78701 T 512.472.4519 F 512.472.7519 www.tcb.aecom.com

Memorandum

To: Cheryl Maxwell, Administrative Manager Clearwater Underground Water Conservation District Administrative Agent for Groundwater Management Area 8

From: Charles R. Williams, P.G. No. 526

Date: June 9, 2008

Re: Adopted Desired Future Conditions of the Ellenburger-San Saba, Hickory and Marble Falls Aquifers

Introduction

Groundwater Management Area 8 (GMA-8) is a groundwater management area of the State of Texas as defined by Statute with responsibility for developing a desired future condition (DFC) for aquifers within an approximately 46-County area. Membership of the GMA is composed of the groundwater conservation districts (GCDs) that occur all or in part within the GMA boundary. (Fig. 1) At the request of GMA-8, TCB Inc. (TCB) developed statements describing DFCs for the portions of the Ellenburger-San Saba, Hickory and Marble Falls Aquifers recognized by the Texas Water Development Board (TWDB) to occur in whole or in part within GMA-8. (Fig. 2)

Methodology

To predict the effects of pumping on the Ellenburger-San Saba and Marble Falls aquifers in Burnet and Lampasas Counties and the Hickory aquifer in Burnet County, TCB developed 2-D spreadsheet models. The models use estimates of the recharge area, annual rainfall, recharge rate, the saturated thickness of the aquifer and the effective porosity (specific yield) to predict the percentage of saturated thickness maintained after a specified time period for a range of simulated pumping amounts. Predictions may be made on a by-County basis or for the aquifer as a whole aquifer. The estimates of the recharge area for each aquifer are taken from the TWDB geographic information system (GIS) coverages. Estimates of the annual rainfall for each county were taken from National Oceanic and Atmospheric Agency (NOAA) data. Estimates of the recharge rates saturated thicknesses are from TWDB publications on the occurrence and availability of groundwater. (Muller and Price, 1979 and Bluntzer, 1992) Estimates of

effective porosities are based on representative value for aquifers of similar materials. (Driscoll, 1986) The time period for the predictions is 50 years.

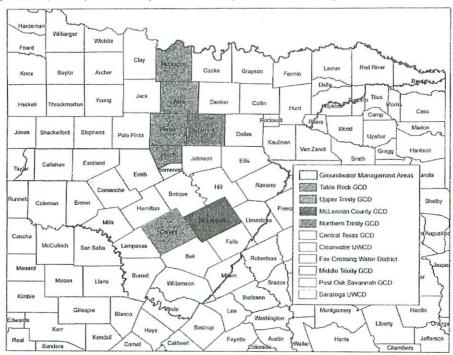


Figure 1, the Boundaries and Member GCDs of GMA-8

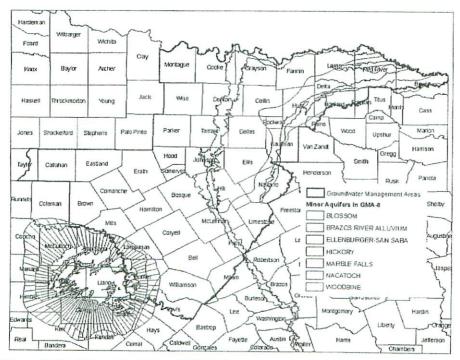


Figure 2, the Minor Aquifers of GMA-8

TCB

Where possible, for the portions of the Ellenburger-San Saba, Hickory and Marble Falls aquifers occurring within a GCD; the GCD selected the preferred percentage of aquifer saturated thickness to be maintained in the portion of the aquifer within its management. A DFC statement was developed describing the selected condition. For the portions of the Hickory aquifer outside of a GCD; no DFC was developed. The occurrence of the Hickory in those Counties is extremely deep and at the down-dip margin of the recognition of the aquifer; the Regional Water Plan (RWP) does not include an availability value for those areas.

Discussion

The purpose of the 2-D models is to conveniently predict the potential results of a range of predictive pumping amounts over time for aquifers where a TWDB GAM is not available. An assumption of the 2-D models is the aquifer is in unconfined condition. However, the 2-D models may be reasonably applicable to aquifers that have both an unconfined and a confined component if: either the confined (artesian pressured) portion of the aguifer is relatively limited in area or if pumping in the aguifer is reasonably confined to near the aguifer recharge zone for the area of interest. The Marble Falls aguifer is either in unconfined condition or pumping is believed to be limited to areas relatively near the recharge zone or outcrop area where it occurs in GMA-8. The Ellenburger-San Saba aquifer has recharge zone areas occurring in Burnet and Lampasas Counties of GMA-8; pumping is considered to be limited largely to the recharge zone and nearby vicinity due to the depth of the aguifer in down-dip areas. The 2-D model was applied to the Ellenburger-San Saba aquifer in Burnet and Lampasas Counties but was not applied to Mills County. The aquifer recharge zone does not occur in Mills County; only the extremely deep down-dip extent of the aquifer occurs in Mills County. The 2-D model was applied to the Hickory in Burnet County but was not applied to Mills and Lampasas Counties. The aquifer recharge zone does not occur in either Mills or Lampasas County; only the extremely deep down-dip extent of the aquifer occurs in these Counties.

The 2-D models project the effects of pumping using the following relationships:

The term Groundwater Availability is used to express the annual amount of pumping in the area of interest and is composed of two components; Groundwater Availability = Groundwater Availability Storage + Groundwater Availability Recharge

GWA = GWAS + GWAR

Where:

GWA = Groundwater availability (ac-ft/yr)

GWAS = Groundwater availability from storage (ac-ft/yr)

GWAR = Groundwater availability from recharge (ac-ft/yr)

GWAS = (1-DD)*B*A*N/Y/43560

Where:

DD = average percentage of drawdown maintained (%)

B = average saturated thickness of aquifer (ft)

 $A = area of aquifer (ft^2)$

N = effective porosity Y = time duration (yrs)

$GWAR = P^*A^*R/43560$

Where:

P = average yearly precipitation (ft/yr)

R = % precipitation that infiltrates into groundwater system

Equation: GWA = GWAS + GWAR = (1-DD)*B*A*N/Y/43560 + P*A*R/43560

DFC Development Approach

In GMA-8, the Marble Falls Aquifer occurs in 2 Counties. A GCD exists in both of the Counties. A County-specific model was applied for each GCD. After reviewing the model results the GCD selected the preferred percentage of aquifer saturated thickness to be maintained in the portion of the aquifer under its management. (Figs 3-6) A DFC statement was developed describing the selected condition for each County. Due to uncertainty regarding the inventory of springs producing water from the Marble Falls aquifer in Burnet County, the Central Texas GCD (CTGCD) preferred to maintain the saturated thickness of the aquifer by using only approximately 80 percent of the estimated annual recharge. (Table 1)

% of saturated thickness maintained	GW availability from storage (ac-fl/yr)	GW availability from recharge (ac-fl/yr)	Total GW availability (ac-fl/yt)	Sat. Thickness	160	(ft)
100%	0	1974	1974	Recharge Ama	15790	(acres)
		 				
99%	76	1974	2050	Effective posority	0.15	(fraction)
98%	152	1974	2125			
97%	227	1974	2201	Time	50	(yr)
96%	303	1974	2277			
95%	379	1974	2353			
94%	455	1974	2429			
93%	531	1974	2504			
92%	606	1974	2580	Rainfall Rate	2.5	(ft/yr)
91%	682	1974	2656			-
90%	758	1974	2732	Recharge Rate	0.05	(fraction)

Figure 3, Model Input Values and Tabular Results for the Marble Falls Aquifer in Burnet County (Central Texas GCD)

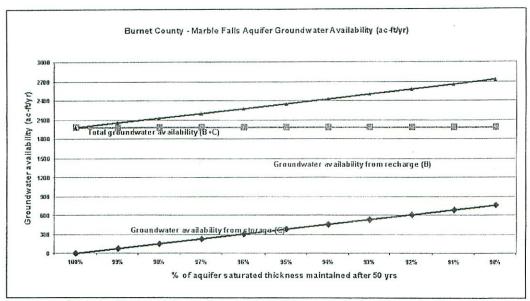


Figure 4, Graphic Results for the Marble Falls Aquifer in Burnet County (Central Texas GCD)

% of saturated thickness maintained	GW availability from storage (ac-fl/yr)	GW availability from recharge (ac-fl/yr)	Total GW availability (ac-fl/yr)	Sat. Thickness	160	(ft)
100%	0	2095	2095	Rocharge Area	16180	(acres) =
99%	78	2095	2173		0.45	
98%	155	2095	2251	Effective possity	0.15	(fraction)
97%	233	2095	2328	Time	50	(yr)
96%	311	2095	2406	ime	30	(31)
95%	388	2095	2484			
94%	466	2095	2561			
93%	544	2095	2639			
92%	621	2095	2717	Raintall Rate	2.59	(ft/yr)
91%	699	2095	2794			
90%	777	2095	2872	Reclurge Rate	0.05	(fraction)

Figure 5, Model Input Values and Tabular Results for the Marble Falls Aquifer in Lampasas County (Saratoga UWCD)

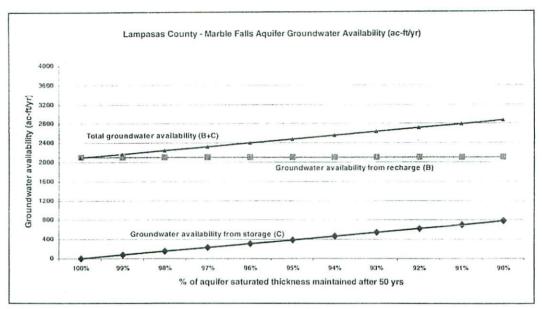


Figure 6, Graphic Results for the Marble Falls Aquifer in Lampasas County (Saratoga UWCD)

County	GMA-8 Marble Falls Aquifer Estimated Recharge (acre-feet per year)		
Burnet	1,974		
80%	1,579		

Table 1, Estimated Recharge for the Marble Falls Aguifer in Burnet County

In GMA-8, the Ellenburger-San Saba Aquifer occurs in 4 Counties. A GCD exists in 3 of the 4 Counties. A County-specific model was applied for the CTGCD (Burnet County) and the Saratoga GCD (SUWCD) (Lampasas County). No model was developed for the aquifer in Mills County (Fox Crossing Water District) and Brown County because they are at the extreme down-dip edge of the aquifer. After reviewing the model results the CTGCD and SUWCD selected the preferred percentage of aquifer saturated thickness to be maintained in the portion of the aquifer under its management. (Figs 7-10) A DFC statement was developed describing the selected condition for each County. Due to uncertainty regarding the inventory of springs producing water from the Ellenburger-San Saba aquifer in Burnet County, CTGCD chose to maintain the saturated thickness of the aquifer by using approximately 80 percent of the estimated annual recharge. (Table 2)

% of saturated thickness maintained	GW availability from storage (ac-fl/yr)	GW availability from recharge (ac-ft/yr)	Total GW availability (ac-fl/yr)	Sat. Thurkness	500	(ft)
				Recharge Area	110,413	(acres)
100%	0	5521 .	5521			
99%	1656	5521	7177	Effective porosity	0.15	(fraction)
98%	3312	5521	8833			
97%	4969	5521	10489	Time	50	(yr)
96%	6625	5521	12145			
95%	8281	5521	13802			
94%	9937	5521	15458			
93%	11593	5521	17114			
92%	13250	5521	18770	Rainfall Rate	2.5	(ft/yr)
91%	14906	5521	20426			
90%	16562	5521	22083	Recharge Rate	0.02	(fraction)

Figure 7, Model Input Values and Tabular Results for the Ellenburger-San Saba Aquifer in Burnet County (Central Texas GCD)

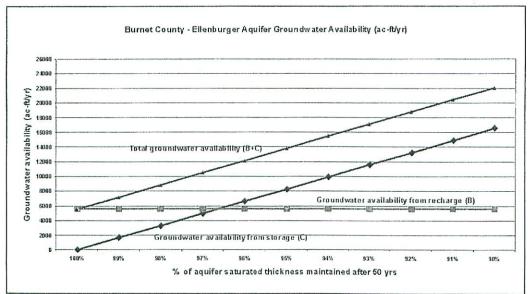


Figure 8, Graphic Results for the Ellenburger-San Saba Aquifer in Burnet County (Central Texas GCD)

County	GMA-8 Ellenburger-San Saba Aquifer Estimated Recharge (acre-feet per year)		
Burnet	5,521		
80%	4,417		

Table 2, Estimated Recharge for the Ellenburger-San Saba Aquifer in Burnet County

% of saturated thickness maintained	GW availability from storage (ac-fl/yr)	GW availability from recharge (ac-ft/yr)	Total GW availability (ac-fl/yt)	Sat. Tlairkmess	500	(ft)
100%	0	601	601	Recharge Asea	11599	(acres)
99%	174	601	775	Effective poiosity	0.15	(fraction)
98%	348	601	949	Energy populy	<u> </u>	(austral)
97%	522	601	1123	Turns	50	(yr)
96%	696	601	1297			
95%	870	601	1471			
94%	1044	601	1645	-		
93%	1218	601	1819			
92%	1392	601	1993	Rainfall Rate	2.59	(fl/yr)
91%	1566	601	2167			
90%	1740	601	2341	Recharge Rate	0.02	(fraction)

Figure 9, Model Input Values and Tabular Results for the Ellenburger-San Saba Aquifer in Lampasas County (Saratoga UWCD)

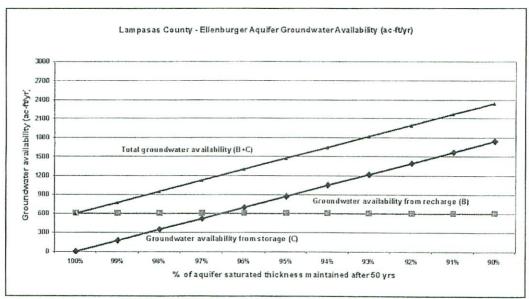


Figure 10, Graphic Results for the Ellenburger-San Saba Aquifer in Lampasas County (Saratoga UWCD)

In GMA-8, the Hickory Aquifer occurs in 6 Counties. A GCD exists in 3 of the 6 Counties. A County-specific model was applied for the CTGCD (Burnet County). No model was developed for the aquifer in Mills County (Fox Crossing Water District), Lampasas County (SUWCD), Brown, Travis and Williamson Counties because these areas are at the extreme down-dip edge of the aquifer. After reviewing the model results CTGCD

selected the preferred percentage of aquifer saturated thickness to be maintained in the portion of the aquifer under its management. (Figs. 11, 12) A DFC statement was developed describing the selected condition for each County. Due to uncertainty regarding the inventory of springs producing water from the Hickory aquifer in Burnet County, the CTGCD preferred to maintain the saturated thickness of the aquifer by using approximately 80 percent of the estimated annual recharge. (Table 3)

% of saturated thickness maintained	GW availability from storage (ac-ft/yr)	GW availability from recharge (ac-ft/yr)	Total GW availability (ac-fl/yr)	Sat. Thickness	160	(ft)
100%	0	4503	4503	Recharge Asea	18011	(acres) =
99%	86	4503	4589	Effective powsity	0.15	(fraction)
98%	173	4503	4676	Effective pointry	0.13	(Machon)
97%	259	4503	4762	Tune	50	(yr)
96%	346	4503	4849			0.7
95%	432	4503	4935			
94%	519	4503	5021			
93%	605	4503	5108			
92%	692	4503	5194	Rairsfall Rate	2.5	(ft/yr)
91%	778	4503	5281			
90%	865	4503	5367	Recharge Rate	0.1	(fraction)

Figure 11, Model Input Values and Tabular Results for the Hickory Aquifer in Burnet County (Central Texas GCD)

County	GMA-8 Hickory Aquifer Estimated Recharge (acre-feet per year)		
Burnet	4,503		
80%	3,602		

Table 3, Estimated Recharge for the Ellenburger-Hickory Aquifer in Burnet County

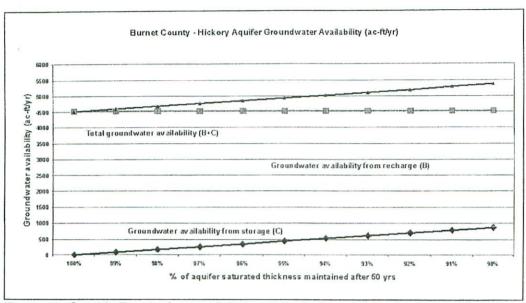


Figure 12, Graphic Results for the Hickory Aquifer in Burnet County (Central Texas GCD)

GMA-8 recognized of the limitations of the 2-D models in being applied to the extreme down-dip portion of the aquifer in confined condition under artesian pressure. As a result, GMA-8 considered several options for adoption of a DFC for the Hickory aquifer in Brown, Lampasas (Saratoga UWCD), Mills (Fox Crossing Water District), Travis and Williamson Counties. The same options for DFC adoption were considered for the Ellenburger-San Saba aquifer in Brown, Lampasas (Saratoga UWCD) and Mills (Fox Crossing Water District) Counties. The options for DFC adoption considered by GMA-8 were as follows:

- The GMA could designate the areas that could not be addressed by the 2-D models as "down-dip slivers" of the aquifer and decline to specify a DFC for those areas of the Ellenburger-San Saba and Hickory aquifers.
- The GMA could opt to follow (or extend) the DFC that may be adopted for the Ellenburger-San Saba and Hickory aquifers by GMA-7 at such time as a DFC for those aquifers may be adopted by GMA-7.
- 3. The GMA could opt to follow (or extend) the DFC that may be adopted for the Ellenburger-San Saba and Hickory aquifers by GMA-7 with exception of Burnet and Lampasas Counties in the Ellenburger-San Saba aquifer and Burnet County in the Hickory aquifer. In Burnet and Lampasas Counties; the 2-D model based DFCs previously developed by GMA-8 would be used.
- 4. The GMA could determine that the 2-D model-based DFCs previously developed by GMA-8 for the Ellenburger-San Saba aquifer in Burnet and Lampasas Counties and Burnet County in the Hickory aquifer would be used. The GMA could then specify a DFC (or DFCs) for the remaining areas in the Ellenburger-San Saba and Hickory aquifers to be submitted to TWDB. TWDB would then determine the Managed Available Groundwater (MAG) based on the DFC or DFCs specified for each aquifer using a methodology other than the 2-D models.

TCB

After holding a public hearing and consideration of the 4 identified options in a public meeting; GMA-8 selected option 4 for submittal of DFCs for the Paleozoic-age minor aquifers. After selecting the method of DFC submittal GMA-8 then deliberated on the aquifer measure to be used in describing a DFC for the Paleozoic-age minor aquifers. GMA-8 considered and selected maintenance of a specified percentage of the available draw down of the Hickory and Ellenburger-San Saba aquifers after 50-years in the applicable counties or GCDs. Having selected maintenance of a specified the aquifer available draw down after 50-years; GMA-8 then considered the percentage of the aquifer available draw down to be maintained. After deliberation, GMA-8 determined that 90 percent of the available draw down in the Hickory and Ellenburger-San Saba aquifers in the applicable counties or GCDs should be maintained after 50-years.

GMA-8 Desired Future Conditions for the Marble Falls Aquifer

- Burnet County should maintain approximately 100 percent of the saturated thickness after 50 years by using approximately 80 percent of the estimated recharge.
- Lampasas County should maintain approximately 90 percent of the saturated thickness after 50 years.

GMA-8 Desired Future Conditions for the Ellenburger-San Saba Aquifer

- Burnet County should maintain approximately 100 percent of the saturated thickness after 50 years by using approximately 80 percent of the estimated recharge.
- Lampasas County should maintain approximately 90 percent of the saturated thickness after 50 years.,
- Brown and Mills Counties should maintain approximately 90 percent of the available draw down after 50 years.

GMA-8 Desired Future Conditions for the Hickory Aquifer

- Burnet County pumping should maintain approximately 100 percent of the saturated thickness after 50 years by using approximately 80 percent of the estimated recharge.
- Brown, Lampasas, Mills, Travis and Williamson Counties should maintain approximately 90 percent of the available draw down after 50 years.

Note: The observations and assessments made in this report were based on data supplied by CUWCD, TWDB or available from referenced published sources available at the time the report preparation. The conclusions drawn in the report are based on the available data and reasonable methods of assessment. The Desired Future Conditions presented in this report reflect policy decisions made by GMA-8. If new or different data is made available the conclusions of this report may change.

Bibliography

Bluntzer, Robert, 1992; evaluation of the Ground-Water Resources of the Paleozoic and Cretaceous Aquifers in the Hill County of Central Texas, Texas Water Development Board Report 339

Driscoll, Fletcher, 1986; Groundwater and Wells, Second Edition; Johnson Division; ISBN 0-9616456-0-1

Muller, Daniel and Price, Robert, 1979; Ground-Water Availability in Texas; Texas Water Development Board Report 238