

AGENDA
RED RIVER GROUNDWATER CONSERVATION DISTRICT
BOARD OF DIRECTORS MEETING
GTUA BOARD ROOM
5100 AIRPORT DRIVE
DENISON, TEXAS 75020
2:00 P.M., MONDAY, MARCH 29, 2010

Notice is hereby given that a meeting of the Board of Directors of the Red River Groundwater Conservation District will be held on the 29th day of March, 2010, at 2:00 p.m. in the GTUA Board Room, 5100 Airport Drive, Denison TX, 75020, at which time the following items will be discussed:

Agenda:

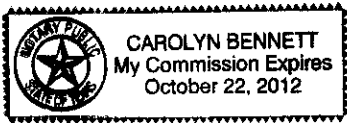
- I. Call to Order
- II. Consider and act upon approval of Minutes of February 8, 2010 Meeting
- III. An overview of Texas groundwater law and management, and the District's role in it—
Presentation by Brian L. Sledge, Attorney at Law
- IV. Receive presentation by Groundwater Conservation District manager
- V. Consider and act upon request from LBG-Guyton Associates regarding Water Use in the Texas Mining Industry
- VI. Receive information from March 10, 2010 Groundwater Management Area 8 meeting
- VII. Receive update on unpaid legal billing
- VIII. Discuss the development of policies and procedures for the Board of Directors
- IX. Discuss future meeting date and agenda
- X. Citizens to be Heard
- XI. Adjourn

¹The Board may vote and/or act upon each of the items listed in this agenda.

This is to certify that I, Carmen Catterson, posted this agenda on the outdoor bulletin board of the Administrative Offices of the Greater Texoma Utility Authority, on the west side of the building, at 2:00 p.m. on March 24, 2010. I also provided this agenda to the County Clerks in Fannin and Grayson Counties with a request that it be posted.

Carmen Catterson
Carmen Catterson

Sworn and subscribed to before me this 24 day of March 2010.



(S E A L)

Carolyn Bennett
Notary Public

PERSONS WITH DISABILITIES WHO PLAN TO ATTEND THIS MEETING, AND WHO MAY NEED ASSISTANCE, ARE REQUESTED TO CONTACT CARMEN CATTERSON AT (903) 786-4433 TWO (2) WORKING DAYS PRIOR TO THE MEETING, SO THAT APPROPRIATE ARRANGEMENTS CAN BE MADE.

ATTACHMENT II

**MINUTES OF THE BOARD OF DIRECTORS' MEETING
RED RIVER GROUNDWATER CONSERVATION DISTRICT**

MONDAY, FEBRUARY 8, 2010

**AT THE GREATER TEXOMA UTILITY AUTHORITY
BOARD ROOM
5100 AIRPORT DRIVE
DENISON TX 75020**

Members Present: George "Butch" Henderson, George Olson, Don Wortham, David Gattis, Harold Latham, Don Morrison, John Young

Members Absent: None

Staff: Jerry Chapman and Carmen Catterson

Visitors: Bill Hutchison, Texas Water Development Board
David Howerton, City of Denison
Dean Rylant, City of Denison
Joe Shephard, City of Howe
Mayor Jeff Stanley, City of Howe
Warren Williams, Luella Special Utility District
Cheryl Reynolds, Pink Hill Water Supply Corporation
Kevin Farley, City of Pottsboro
John Keen, Southwest Fannin Special Utility District
Mayor Ruth Ann Collins, City of Van Alstyne
Bill Herrington, City of Van Alstyne

I. Call to Order

President Henderson called the meeting to order at 2:00 p.m. President Henderson announced that the entire Board was present.

II. Consider and act upon approval of Minutes of November 5, 2009 Meeting.

President Henderson explained that one change would be made on the last page to correct the speaker of a comment.

Board Member Gattis motioned to approve the Minutes of the November 5, 2009 Meeting. The motion was seconded by Secretary-Treasurer Wortham and passed unanimously.

Mr. Chapman introduced visitors John Keen with the Southwest Fannin Special Utility District (SUD), Kevin Farley with the City of Pottsboro, David Howerton and Dean Rylant with the City of Denison, Bill Herrington and Mayor Ruth Ann Collins with the City of Van Alstyne, Mayor Jeff Stanley and Joe Shephard with the City of Howe, Warren Williams with Luella SUD, and Cheryl Reynolds with

Pink Hill Water Supply Corporation (WSC). Also attending the meeting as a guest speaker is Mr. Bill Hutchison with the Texas Water Development Board (TWDB).

III. Receive presentation by Bill Hutchison of the Texas Water Development Board

Mr. Chapman provided an introduction for Mr. Hutchison. Mr. Hutchison presented a slide show to the Board with information on Groundwater Conservation Districts (GCDs) and their roles and requirements in managing groundwater.

Mr. Chapman and Mr. Hutchison explained that each Groundwater Management Area (GMA) must develop Desired Future Conditions (DFCs) for the counties in their area. The Red River GCD is a member of GMA 8, which includes 57 counties and thirteen (13) GCDs. Within one year of the DFCs being submitted to the TWDB, persons of interest can object on the reasonableness of the DFCs. However, GMA 8 submitted their DFCs in 2008. However, if the Red River GCD Board desired, they can request the DFCs be revisited before the five-year period ends. The DFC for the Red River GCD may not be accurate or adequate. The information was determined with no input from the Red River GCD, since the GCD had not been formed at the time the DFCs were created. In GMA 8 DFCs will apply until 2013 or until they are changed.

GCDs are required to regulate wells. First, the Board will need to determine where to begin. Exempt wells are usually small domestic or livestock wells that are not capable of producing more than 25,000 gallons per day (GPD). Exempt wells also include oil and gas wells, except for the North Texas GCD and the Upper Trinity GCD. Those GCDs included provisions in their legislation to regulate oil and gas wells. However, in all other GCDs, the oil and gas wells are supposed to be registered, but cannot be regulated. If the Red River GCD desires to regulate oil and gas wells, the legislation will have to be revised.

Mr. Herrington asked a question on the right of capture. Mr. Hutchison explained that GCDs could modify or reject the rule of capture, depending on their policies. Mr. Chapman explained that this part of the state is not as heavily dependent upon groundwater as is the rest of the state. According to the Region C Water Plan, 85% of municipal use in the area is from surface water. Surface water use is growing with three or four large providers extending their surface water system to smaller communities. In Collin County, most communities purchase water from the North Texas Municipal Water District (NTMWD) because the water is less expensive. Groundwater will be revisited in the 2011 legislative session. Many places like El Paso buy land to drill wells for 10 or 20 years.

A GCD can establish how many acre-feet of water can be used based on how many acre-feet owned. This method also works well for well spacing. The GCD Board can also determine how many acres must be owned to drill a well.

IV. Consider and act upon Bois d'Arc MUD Application for Funding Assistance

This type of request will become routine. This request only requests that the Board specify no standards have been established at this point in time.

Board Member Gattis motioned to advise the engineering consultants for Bois d'Arc MUD that no rules or permitting requirements have been adopted at this time. The motion was seconded by Secretary-Treasurer Wortham and passed unanimously.

V. Consider and discuss well plugging report from Double Diamond Companies

This type of correspondence will also become routine. Well plugging reports must be submitted to governing GCDs. Double Diamond owns 1,500-1,600 acres near Lake Texoma. Double Diamond is required to inform the Board that they are plugging a well. The only action requested is to acknowledge receipt of the report.

VI. Consider and act upon appointment of a representative for Groundwater Management Area 8

President Henderson suggested appointing two representatives to attend the GMA 8 meetings to allow for one alternate representative if the first is unable to attend. He recommended having someone willing and able to attend meetings and speak for the Board. It would also be beneficial to have multiple people listening to the meeting to verify the information provided. President Henderson volunteered attending the meetings.

Board Member Gattis nominated President Henderson to serve as the primary contact with GMA 8 and for Vice President Olson to serve as alternate representative of the Red River GCD for GMA 8. The motion was seconded by Board Member Morrison and passed unanimously.

VII. Consider and act upon website and letterhead.

Board Member Latham provided examples of websites from other GCDs. Board Member Young suggested using both seals from the two counties to create the letterhead and the website. The Board recommended keeping both the letterhead simple and clean to provide an easy to read layout.

Vice President Olson Motioned to authorize Carmen Catterson to develop the website and letterhead based on the information provided. The motion was seconded by Board Member Young and passed unanimously.

VIII. Consider and act upon unpaid legal billing.

Bills were generated before the GCD was established for the legal assistance required to create the legislation. Thirteen out of fifty-two entities have not paid. President Henderson suggested that since he represents four of the entities, invoices be prepared and the representing Board members deliver the entities to try to obtain payment. The bills were developed by 2006 groundwater use, the last full year of groundwater production when the effort began. The list represents all the groundwater users in the two counties. Several of the entities, such as TXU probably do not know they owe the money. Lattimore Materials is most likely in the same situation. President Henderson recommended a letter be written to explain the situation and delivered to the entities along with an invoice.

Board Member Gattis motioned to create a letter and an invoice for each entity that owes money for the Board to distribute. The motion was seconded by Board Member Young and passed unanimously.

IX. Discuss the development of policies and procedures for the Board of Directors

Action on this item is not immediately required. However, as time goes on, the Board will need to be able to make decisions. The Board needs to consider developing policies and procedures by possibly reviewing those of other GCDs. President Henderson appointed Board Members Latham, Wortham and Young to form a committee to develop recommendations for policies and procedures using examples from other GCDs. He requested they be prepared to present their findings at the next meeting.

X. Discuss Desired Future Conditions adopted by Groundwater Management Area 8

There is currently not enough information to reopen the DFCs. However, it is unsure when GMA 8 will meet again and several new GCDs are not satisfied with the numbers. Some areas have more permits than they have Managed Available Groundwater (MAG). The Board may learn at the GMA 8 meeting on the 24th more information about reopening the DFCs. The current amounts are provided in the agenda packet. The DFCs are partly the counties faults. The usage information is not being provided as promptly as it should be and the counties are in the current situation because they have not been proactive. It will be important to receive reports as quickly as possible to prevent a similar situation from happening again.

XI. Discuss future meeting date and agenda

The Board discussed whether to meet four times a year or every other month. Policies and procedures need to be developed and the Board will need to meet more often to discuss. President Henderson recommended waiting until after the GMA 8 meeting to set a time and date for a future meeting. President Henderson feels the counties have let the rest of the area dictate the policies for too long and need to move faster so the Red River GCD will have more input. A sense of urgency is growing. The GCD will eventually need to spend money, but cannot spend any money until policies and procedures are established.

XII. Citizens to be Heard

Mr. Howerton commented on the legal fees. He recommended the Board consider using a three-year running data for fee management to create an equal environment.

Mr. Herrington apologized to the Board for asking questions out of turn during Mr. Hutchison's presentation. President Henderson assured him that when a presentation with experts from out of region is available, it is a good time to ask questions and make comments. A presentation would be considered a public information item, rather than an action item.

XIII. Adjourn

Upon motion by Vice President Olson seconded by Board Member Latham and passed unanimously, the Board adjourned at approximately 3:45 p.m.

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Recording Secretary

Secretary-Treasurer

ATTACHMENT V

EC
7/00

LBG-GUYTON ASSOCIATES
PROFESSIONAL GROUNDWATER AND
ENVIRONMENTAL ENGINEERING

1101 CAPITAL OF TEXAS HIGHWAY
SUITE B-220
AUSTIN, TX 78746
512-327-9640
FAX: 512-327-5573
www.lbg-guyton.com

February 22, 2010

The Honorable Eileen Cox
Red River Groundwater Conservation District
101 E. Rayburn Dr., Suite 101
Bonham, TX 75418

Re: Water Use in the Texas Mining Industry

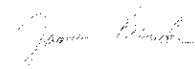
Dear The Honorable Eileen Cox:

The Texas Water Development Board (TWDB) has contracted with the Bureau of Economic Geology (BEG) and LBG-Guyton Associates to collect information on water demand in the mining industry throughout the State of Texas. This information will be used to update mining demands for regional water planning efforts across the state. Project tasks include (1) identifying major mining operations; (2) analyzing current water use and patterns as well as estimating future water use; (3) developing long-term water demand projections on a county level; and (4) building a database for the TWDB, Regional Water Planning Groups and Groundwater Conservation Districts.

The BEG is performing an evaluation of oil and gas demand and LBG-Guyton is focusing on updating estimates of water demand related to mining for coal, rock, sand and gravel, uranium, and sulfur, etc. We are asking for your help to verify and update the information presented on the attached maps and tables for your district. The following page explains the figures and tables that we have provided. We are also requesting that you complete the short survey that is enclosed.

Please return any corrections and/or updates to the maps and tables along with the completed survey at your earliest convenience. Thanks in advance for your help and please call me at (512)-327-9640 if you have any questions.

Sincerely,
LBG-GUYTON ASSOCIATES



James Beach, PG

Enclosures

Summary of Mining Information

LBG-Guyton Associates has prepared a series of GIS maps to help you assess mining use in your district. The information provided in Figures 1, 2, and 3 and Tables 1, 2, and 3 should be useful in locating and obtaining information on active mines.

Figure 1. Texas Groundwater Conservation Districts and Mined Lands

Figure 1 is a GIS map containing all Texas Groundwater Conservation Districts (GCD) and mine locations (active and inactive) in the TCEQ Source Water Protection (SWAP) project database. This map provides a general idea of the density of active and inactive mine sites in the State of Texas.

Figure 2. Mined Lands in the Groundwater Conservation District

Figure 2 is a GIS map of all mine locations in the area of the district mapped with a symbol to indicate the status of the mine (active, inactive, or unknown). Within the GCD boundary, the locations are also classified by mine type (ex: clay, coal-lignite, or sand-gravel). Counties, cities, and roads are shown and mine sites are labeled using the SWAP identification number. The labels on Figure 2 link each mine site to information in Table 1.

Figure 3. Active Mines in Groundwater Conservation District

Figure 3 is a simplification of Figure 2 and contains only active mines. Mining groups include: coal (lignite), limestone, granite, sand/gravel, uranium, and sulfur. Oil and gas operations are not shown on the maps because BEG is analyzing them separately. Clay and caliche facilities are not shown on Figure 3 because they typically do not use much water.

Table 1. Mine Sites in GCD

Table 1 contains the listing from the TCEQ database mine sites labeled in Figure 3 by SWAP ID. This table includes information about the location, collecting agency, activity, mine type, commodity, and geologic formation of each mine within the GCD boundary.

Table 2. Texas Mine Safety and Health Administration Mine Database

Table 2 includes data from the Texas Mine Safety and Health Administration Mine Database. Mines in each county that has all or part of its land within the GCD boundary are listed in the Table 2. The only location data in this database is the nearest town to the mine site. Other information includes a mine ID, name, type, commodity, and operator information.

Table 3. GCD Mining Water Demand Projections

Table 3 is a listing of the 2007 TWDB mining water demand projections (2010-2060) for counties within the GCD (in acre-feet per year). This table lists water demand projections for each county by river basin per decade for the mining water user group (WUG) and includes both surface water and groundwater sources. These estimates include water used for oil/gas, coal, stone, granite, sand/gravel, uranium, and sulfur.

Groundwater District Water Use Survey for Mining

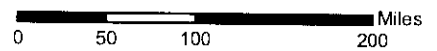
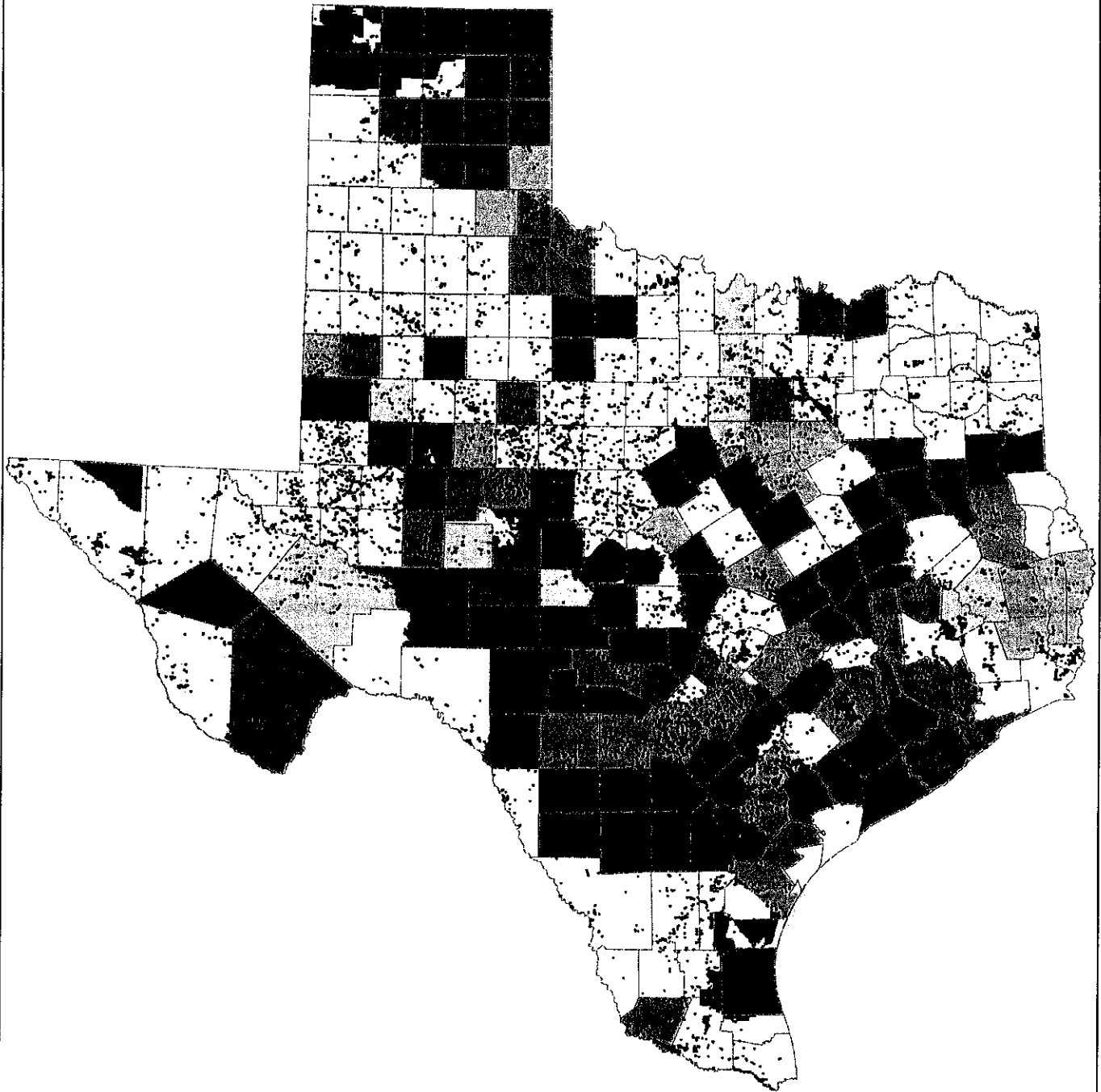
Red River Groundwater Conservation District

When answering the following questions, do not include water use for oil/gas activities.

1. Does your district independently estimate water use by mining? Yes No
a. If yes – please describe
2. Have you contacted Texas Railroad Commission to obtain data on mines? Yes No
3. Do you have any way of validating the mining use estimates in Table 3? Yes No
a. If yes – please describe method and result
4. What portion of total water use in your district is used for mining?
5. Have you contacted any of the entities listed in Table 1 or 2? Yes No
a. If yes – please describe what you found
6. Do you feel the data in Table 3 are accurate? Yes No Don't know
a. If yes – why?
b. If no – why?
7. Do you know of other mining facilities not included on the map? Yes No
a. If yes – do you have an estimate of the water use?
8. Do you have any additional information regarding groundwater or surface water use at the facilities?

Please mail, fax, or email the completed survey to:

Josie Pellegrino
LBG-Guyton Associates
1101 S. Capital of Texas Hwy, Suite B-220
Austin, Texas 78746
512-327-9640 (voice)
512-327-5573 (fax)
jpellegrino@lbg-guyton.com



Texas Groundwater Conservation Districts

Figure 1

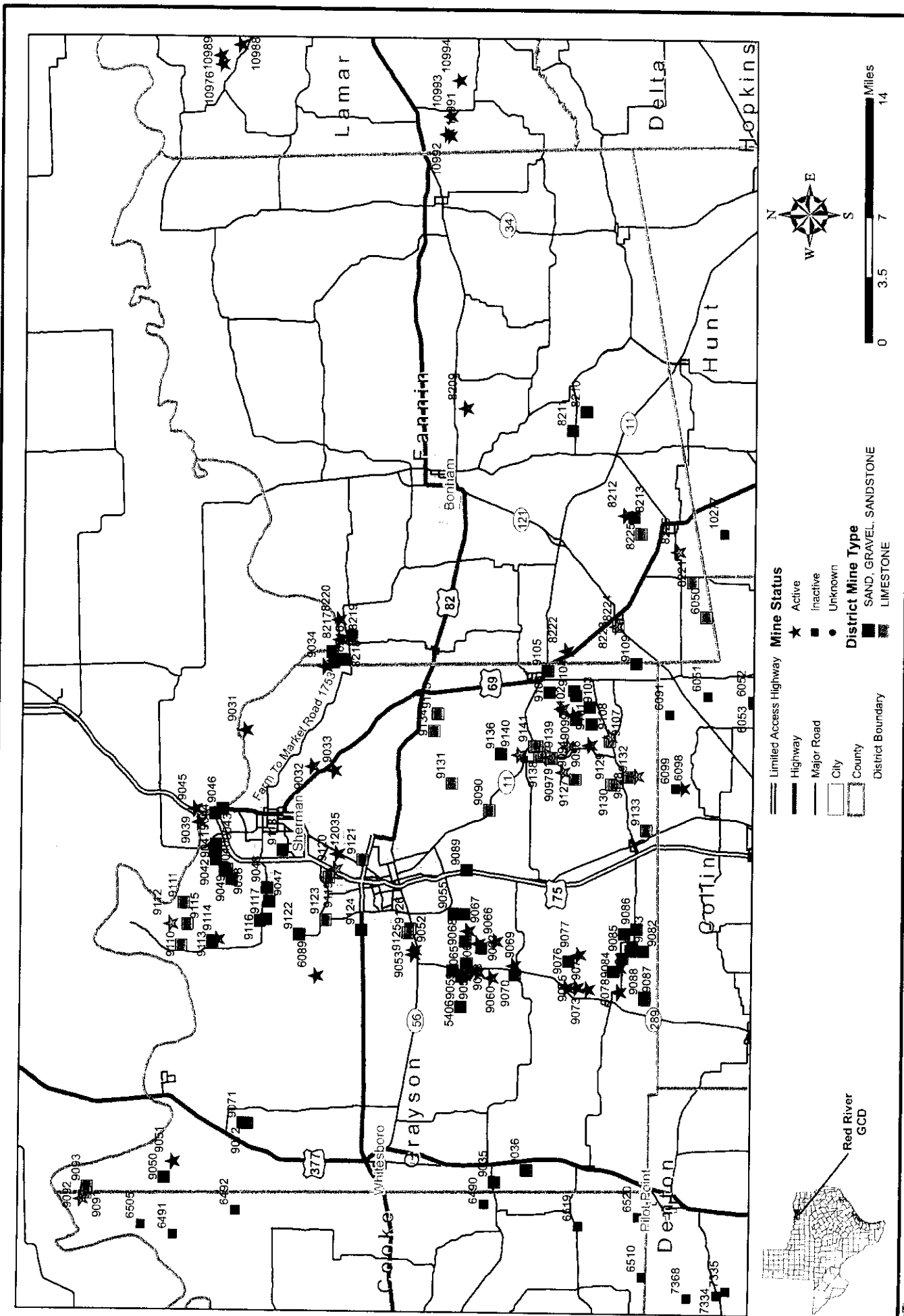
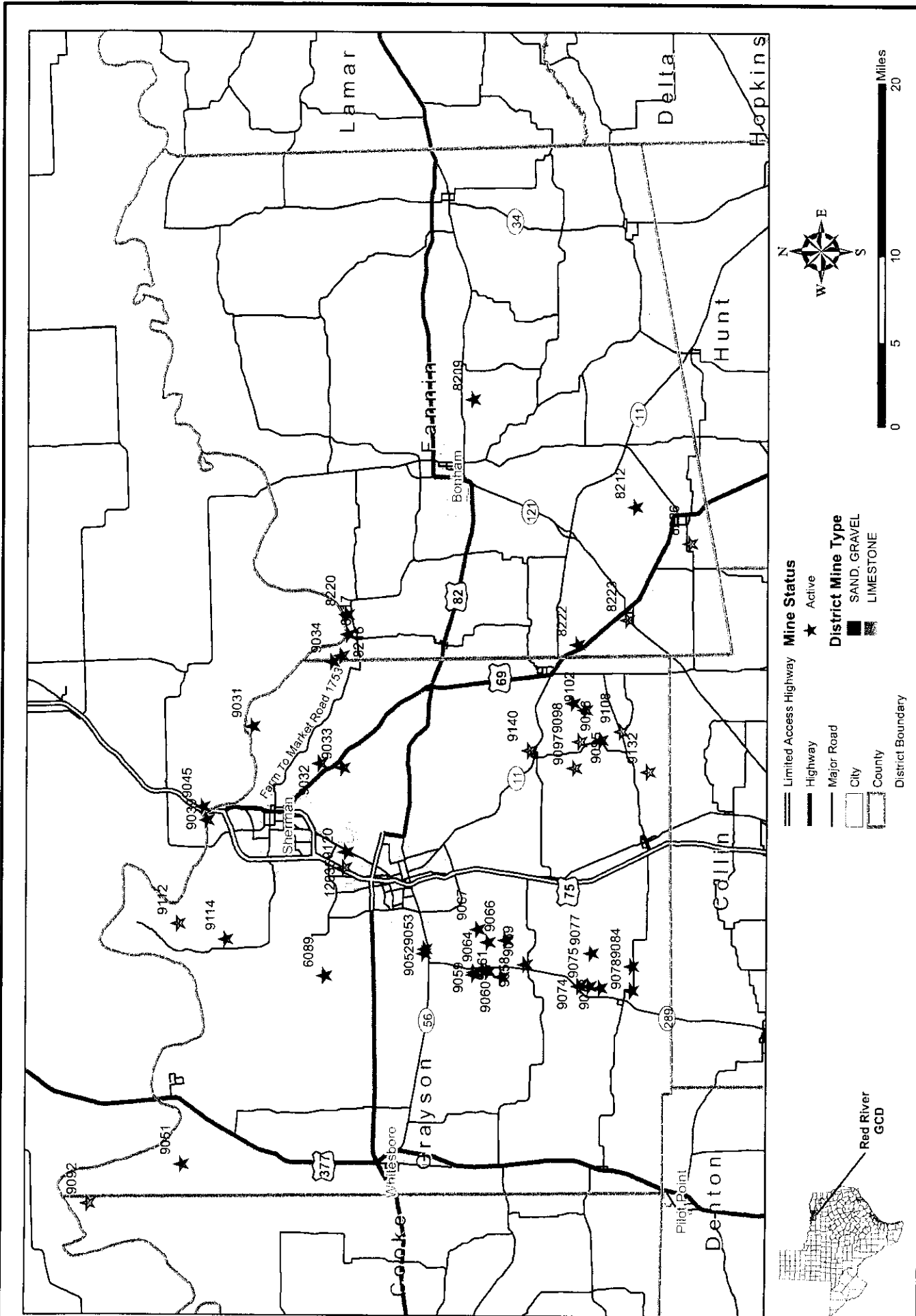


Figure 2

Mined Lands in Red River GCD



Active Water-Using Mines in Red River GCD

Figure 3

Table 2. Texas Mine Safety and Health Administration Mine Database

Mine ID	Mine Name	Status	Type	Primary Commodity	Secondary Commodity	Operator Name	County	Street	PO Box	City	State	Zip	Nearest Town
4103794	Rock Pit	Active	Surface	Crushed, Broken Limestone NEC		W W Rock Inc	Fannin	13512 Hwy 69 South		Whitewright	TX	75491	Whitewright
4103864	RED RIVER PLANT	Active	Surface	Construction Sand and Gravel		N-TEX SAND & GRAVEL LLC	Fannin	9500 FM 1753		SAVOY	TX	75479	Savoy
4104019	TXI/Bells/Savoy Aggregate Operations	Active	Surface	Construction Sand and Gravel		TXI Operations LP	Fannin	Rt 1, FM 1753		Savoy	TX	75479	Savoy
4104056	MCCRAW PIT	Active	Surface	Construction Sand and Gravel		Mc Crow Materials, LLC	Fannin	3765 County Rd. 2135		Telephone	TX	75488	Telephone
4101118	Ambrose Sand Plant	Active	Surface	Sand and Gravel		Lattimore Materials Company LP	Grayson	FM 1897 1 mile north of FM 1753		Ambrose	TX	75414	Ambrose
4104258	Nick Ciaccio & Son Sand Pit	Intermittent	Surface	Sand, Common Construction		Nick Ciaccio & Son Sand Pit	Grayson	1685 Ciaccio Road		Denison	TX	75021	Denison
4104521	Stringfellow Sand Pit	Active	Surface	Sand and Gravel		Stringfellow Sand Pit	Grayson	1000 Ciaccio Rd		Denison	TX	75020	Denison

*Note: Table includes all mines listed in each county having all or part of its area within the district's boundaries. Therefore, Some mines listed may not lie within the district.

Table 3. Red River GCD Mining Water Demand Projections

RWPG	County Name	WUG ID	WUG Name	River Basin Name	TWD 2010	TWD 2020	TWD 2030	TWD 2040	TWD 2050	TWD 2060	Regional Comments
C	FANNIN	031003074	MINING	RED	12	12	12	12	12	12	1.2
C	GRAYSON	031003091	MINING	TRINITY	669	668	667	667	666	665	
C	GRAYSON	031003091	MINING	RED	383	382	382	381	381	381	381

WUG = Water User Group
TWD = Estimated Total Water Demand for Mining

*Projections from TWDB Water for Texas 2007, reported in acre-feet per year

Table 1. Mine Sites in the Red River GCD

PSOC ID	SITE ID	SITE NAME	LATITUDE (DD)	LONGITUDE (DD)	HORIZONTAL DATUM	LOCATION METHOD	AGENCY	ACTIVE	MINE TYPE	COMMODITY	GEOLOGIC FORMATION
5406	051CLD402		33.58330	-96.74440	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	SPARTA SAND
6050	085BLU201		33.35220	-96.33810	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
6089	085MCW101		33.71390	-96.70860	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	ALLUVIUM
8208	147DOD401		33.56610	-96.11170	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	GOBER CHALK
8210	147GOB401		33.45750	-96.11860	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	GOBER CHALK
8211	147LEO301		33.47000	-96.13830	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	GOBER CHALK
8212	147LEO401		33.42420	-96.22860	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	GOBER CHALK
8213	147LEO402		33.41670	-96.23060	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	GOBER CHALK
8214	147MUL401		33.69170	-96.37640	27	MAP-M2	BEG	N	STRIP MINE	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
8215	147MUL402		33.69310	-96.36530	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
8216	147MUL403		33.69170	-96.37470	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
8217	147MUL404		33.68560	-96.35280	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
8218	147MUL405		33.68190	-96.37380	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
8219	147MUL406		33.67500	-96.34920	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
8220	147MUL501		33.68610	-96.33190	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
8221	147PIK201		33.36390	-96.30060	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
8222	147TRE101		33.48030	-96.37030	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	ALLUVIUM
8223	147TRE401		33.43470	-96.34610	27	MAP-M2	BEG	Y	QUARRY	LIMESTONE	GOBER CHALK
8224	147TRE402		33.43330	-96.34530	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	GOBER CHALK
8225	147TRE901		33.41060	-96.24860	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	GOBER CHALK
8226	147TRE902		33.37640	-96.26860	27	MAP-M2	BEG	Y	PIT	LIMESTONE	GOBER CHALK
9031	181ACH801		33.77360	-96.44640	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9032	181AMB101		33.71310	-96.48640	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9033	181AMB401		33.69310	-96.49170	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9034	181AMB601		33.70000	-96.38060	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9035	181COL502		33.55560	-96.93000	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9036	181COL801		33.52640	-96.91810	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9037	181DEN401		33.79500	-96.59530	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9038	181DEN402		33.79310	-96.59310	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9039	181DEN501		33.81720	-96.54280	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9040	181DEN502		33.80420	-96.57390	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9041	181DEN503		33.80330	-96.57780	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9042	181DEN504		33.80310	-96.58310	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9043	181DEN505		33.80280	-96.56670	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9044	181DEN601		33.80280	-96.53440	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9045	181DEN602		33.82080	-96.52920	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	ALLUVIUM
9046	181DEN603		33.79610	-96.52940	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9047	181DEN701		33.75560	-96.62860	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	DEXTER MEMBER OF THE WOODBI
9048	181DEN702		33.75750	-96.61440	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	DEXTER MEMBER OF THE WOODBI
9049	181DEN801		33.78920	-96.60440	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9050	181DEX201		33.85610	-96.91830	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	DEXTER MEMBER OF THE WOODBI
9051	181DEX301		33.84780	-96.90140	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	DEXTER MEMBER OF THE WOODBI
9052	181DOR201		33.62360	-96.68330	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9053	181DOR202		33.62470	-96.68810	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9054	181DOR203		33.58970	-96.70610	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9055	181DOR301		33.58750	-96.64580	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9056	181DOR401		33.58190	-96.71250	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS

Data from TCEQ's Source Water Assessment and Protection active and abandoned mined lands database. Sources of the data include the UT Bureau of Economic Geology and the Railroad Commission of Texas.

9057	181DOR402	33 57970	-96 71190 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9058	181DOR403	33 58670	-96 70890 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9059	181DOR404	33 57920	-96 70920 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9060	181DOR405	33 55470	-96 71500 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9061	181DOR501	33 56610	-96 67780 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9062	181DOR502	33 56310	-96 68250 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9063	181DOR503	33 57690	-96 69860 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9064	181DOR504	33 57110	-96 70720 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9065	181DOR505	33 57780	-96 67500 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9066	181DOR506	33 55000	-96 67610 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	ALLUVIUM
9067	181DOR601	33 57500	-96 69390 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9068	181DOR602	33 57860	-96 64640 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9069	181DOR701	33 53420	-96 70220 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9070	181DOR702	33 53330	-96 71220 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9071	181GOR701	33 78280	-96 86220 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9072	181GOR702	33 77920	-96 86250 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9073	181GUN101	33 46780	-96 72920 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9074	181GUN102	33 48720	-96 72670 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9075	181GUN103	33 47780	-96 72690 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9076	181GUN201	33 48470	-96 69890 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9077	181GUN202	33 47530	-96 69220 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	ALLUVIUM
9078	181GUN401	33 43940	-96 73250 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9079	181GUN402	33 44440	-96 71030 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9080	181GUN501	33 43560	-96 69720 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9081	181GUN502	33 42830	-96 68890 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9082	181GUN503	33 41670	-96 68920 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9083	181GUN504	33 42640	-96 68470 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9084	181GUN505	33 43890	-96 70690 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	ALLUVIUM
9085	181GUN506	33 43390	-96 67030 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9086	181GUN601	33 42220	-96 66580 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9087	181GUN701	33 41610	-96 73830 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9088	181GUN702	33 41640	-96 74060 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	FLUVIAL TERRACE DEPOSITS
9089	181HOW601	33 57530	-96 60000 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9090	181HOW602	33 55360	-96 53750 27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9091	181LEB501	33 92860	-96 93330 27	MAP-M2	BEG	N	QUARRY	LIMESTONE	GOODLAND LIMESTONE
9092	181LEB502	33 93330	-96 93920 27	MAP-M2	BEG	Y	QUARRY	LIMESTONE	GOODLAND LIMESTONE
9093	181LEB503	33 92750	-96 92610 27	MAP-M2	BEG	N	QUARRY	LIMESTONE	GOODLAND LIMESTONE
9094	181PIL101	33 49640	-96 48330 27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9095	181PIL102	33 48060	-96 47170 27	MAP-M2	BEG	Y	QUARRY	LIMESTONE	AUSTIN CHALK
9096	181PIL103	33 48110	-96 47030 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	ALLUVIUM
9097	181PIL104	33 48610	-96 49860 27	MAP-M2	BEG	Y	QUARRY	LIMESTONE	AUSTIN CHALK
9098	181PIL201	33 48560	-96 43170 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	ALLUVIUM
9099	181PIL202	33 47310	-96 44310 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9100	181PIL203	33 47280	-96 41720 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9101	181PIL204	33 45970	-96 44860 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9102	181PIL205	33 47500	-96 43890 27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	ALLUVIUM
9103	181PIL206	33 46110	-96 43080 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9104	181PIL301	33 47440	-96 41250 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9105	181PIL302	33 49810	-96 39060 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9106	181PIL303	33 49690	-96 41390 27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9107	181PIL401	33 44360	-96 46670 27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK

Data from TCEQ's Source Water Assessment and Protection active and abandoned mined lands database. Sources of the data include the UT Bureau of Economic Geology and the Railroad Commission of Texas.

9108	181PIL402	33.44310	-96.46250	27	MAP-M2	BEG	Y	QUARRY	LIMESTONE	AUSTIN CHALK
9109	181PIL601	33.41750	-96.38500	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9110	181POT201	33.83870	-96.67280	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	GOODLAND LIMESTONE
9111	181POT301	33.83360	-96.62830	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	GOODLAND LIMESTONE
9112	181POT302	33.84580	-96.65000	27	MAP-M2	BEG	Y	QUARRY	LIMESTONE	GOODLAND LIMESTONE
9113	181POT501	33.80780	-96.66890	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9114	181POT502	33.80280	-96.66720	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	ALLUVIUM
9115	181POT601	33.83060	-96.65060	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	GOODLAND LIMESTONE
9116	181POT901	33.76440	-96.64890	27	MAP-M2	BEG	N	QUARRY	SANDSTONE	WOODBINE FORMATION
9117	181POT902	33.75890	-96.64720	27	MAP-M2	BEG	N	QUARRY	SANDSTONE	WOODBINE FORMATION
9118	181SHE201	33.74220	-96.57440	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	WOODBINE FORMATION
9119	181SHE401	33.70060	-96.60470	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9120	181SHE402	33.69420	-96.59810	27	MAP-M2	BEG	Y	QUARRY	LIMESTONE	AUSTIN CHALK
9121	181SHE403	33.66940	-96.58610	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9122	181SHM301	33.72830	-96.66390	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9123	181SHM501	33.70420	-96.64920	27	MAP-M2	BEG	N	PIT	LIMESTONE	AUSTIN CHALK
9124	181SHM603	33.67190	-96.66060	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9125	181SHN901	33.62940	-96.66420	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9126	181SHN902	33.62670	-96.66060	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9127	181VAN301	33.47500	-96.50890	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9128	181VAN601	33.42640	-96.50560	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9129	181VAN602	33.44310	-96.51220	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9130	181VAN603	33.44000	-96.51390	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9131	181VAN604	33.58690	-96.50830	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9132	181VAN605	33.41940	-96.50470	27	MAP-M2	BEG	Y	QUARRY	LIMESTONE	AUSTIN CHALK
9133	181VAN801	33.41170	-96.56170	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9134	181WHI101	33.60170	-96.45170	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	ECTOR CHALK
9135	181WHI201	33.59810	-96.43390	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	ECTOR CHALK
9136	181WHI401	33.54170	-96.47780	27	MAP-M2	BEG	N	PIT	SAND, GRAVEL	ALLUVIUM
9137	181WHI701	33.50890	-96.47000	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	GOBER CHALK
9138	181WHI702	33.50750	-96.48140	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9139	181WHI703	33.50280	-96.47720	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	AUSTIN CHALK
9140	181WHI704	33.52560	-96.47990	27	MAP-M2	BEG	Y	QUARRY	LIMESTONE	GOBER CHALK
9141	181WHI705	33.51190	-96.47080	27	MAP-M2	BEG	N	QUARRY	LIMESTONE	GOBER CHALK
12035	337SAI501	33.69220	-96.57970	27	MAP-M2	BEG	Y	PIT	SAND, GRAVEL	ANTLERS FORMATION

ATTACHMENT VI

**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 (TWDB), consisting of the Central Texas Groundwater Conservation District, Clearwater Underground Water Conservation District, Fox Crossing Water District, Middle Trinity Groundwater Conservation District, North Texas Groundwater Conservation District, Northern Trinity Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, Prairielands Groundwater Conservation District, Red River Groundwater Conservation District, Saratoga Underground Water Conservation District, Southern Trinity Groundwater Conservation District, and Upper Trinity Groundwater Conservation District will hold a ***Joint Planning meeting at 10:00 A.M. on Wednesday, March 10, 2010***, in the City of Woodway City Hall located at 922 Estates Drive, Woodway, Texas 76712-3432. 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 March 16, 2009 GMA 8 meeting.
6. Update on status of groundwater conservation districts created during the 2009 Texas legislative session.
7. Summary of GMA8 progress in the joint planning process, overview of methodology to develop Desired Future Condition statements, and status of Managed Available Groundwater (MAG) figures.
8. Discussion and possible action on MAG for the Nacatoch aquifer.
9. Comments and update from Committee members regarding the joint planning process.
10. Discussion on funding to continue and support joint planning.
11. Discuss agenda items for next meeting.
12. Set date, time, and place of next meeting.
13. Closing comments.
14. Adjourn.

Dated this 5th day of March, 2010

George "Butch" Henderson, Red River GCD President

By: 
Carmen Catterson, Red River GCD 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 903-786-4433 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.

AGENDA

**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 (TWDB), consisting of the Central Texas Groundwater Conservation District, Clearwater Underground Water Conservation District, Fox Crossing Water District, Middle Trinity Groundwater Conservation District, North Texas Groundwater Conservation District, Northern Trinity Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, Prairielands Groundwater Conservation District, Red River Groundwater Conservation District, Saratoga Underground Water Conservation District, Southern Trinity Groundwater Conservation District, and Upper Trinity Groundwater Conservation District will hold a *Joint Planning meeting at 10:00 A.M. on Wednesday, February 24, 2010*, in the City of Woodway City Hall located at 922 Estates Drive, Woodway, Texas 76712-3432. 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 March 16, 2009 GMA 8 meeting.
6. Update on status of groundwater conservation districts created during the 2009 Texas legislative session.
7. Summary of GMA8 progress in the joint planning process, overview of methodology to develop Desired Future Condition statements, and status of Managed Available Groundwater (MAG) figures.
8. Discussion and possible action on MAG for the Nacatoch aquifer.
9. ~~Comments and update from Committee members regarding the joint planning process.~~
10. Discussion on funding to continue and support joint planning.
11. Discuss agenda items for next meeting.
12. Set date, time, and place of next meeting.
13. Closing comments.
14. Adjourn.

Dated this 10 day of February, 2010

Horace Grace, CUWCD President

By: Cheryl Maxwell
Cheryl Maxwell, CUWCD Asst. Secretary

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SHELLEY COSTON
CO. CLK. BELL CO. TX

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.

MINUTES
MARCH 16, 2009

Meeting of the
Groundwater Management Area 8
March 16, 2009 in Bellmead, TX

Minutes

The Groundwater Management Area 8 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 held a meeting on Monday, March 16, 2009 in the City of Bellmead City Council Room, located at 3015 Bellmead Drive, Bellmead, Texas.

Groundwater District Representatives Present:

Central Texas GCD: Clyde Waters	Northern Trinity GCD: Absent
Clearwater UWCD: Horace Grace	Post Oak Savannah GCD: Gary Westbrook
Fox Crossing WD: Sam Beaumont	Saratoga UWCD: Randy McGuire
McLennan Co. GCD: Rodney Kroll	Tablerock GCD: David Freeman
Middle Trinity GCD: Joe Cooper	Upper Trinity GCD: Mike Massey

1. Invocation

Gary Westbrook gave the invocation

2. Call meeting to order and establish quorum.

The Groundwater Management Area 8 (GMA 8) meeting was called to order at 10:40 a.m. at the City Council Room in Bellmead, TX. Horace Grace called roll and established that a quorum was present. Nine Districts were present at the time of roll call.

3. Welcome and introductions.

Horace Grace asked members of the audience to introduce themselves. Joe Cooper gave a brief summary of the GMA creation through Senate Bill 1763, the GMA process, the development of desired future conditions (DFC) utilization to develop managed available groundwater (MAG) figures. Gary Westbrook reported on a meeting he had with Senator Averitt. Horace Grace noted that the GMA 8 process is ongoing and adjustments can be made at any time.

4. Public Comments.

There was no public comment.

5. Approve minutes of September 17, 2008 GMA 8 meeting.

Joe Cooper moved to approve the minutes of the September 17, 2008 GMA 8 meeting, seconded by Mike Massey. The motion carried unanimously, 9-0.

6. *Texas Water Development Board presentation on joint planning process and petition process.*

Robert Bradley distributed a handout and gave a presentation on the Texas Water Development Board (TWDB) joint planning and petition process. He opened the presentation with a brief history of the TWDB in relation to Regional Water Plans (RWP) and GMAs and DFCs. He continued that once the groundwater conservation districts (GCD) within a GMA adopt a DFC for an aquifer and submit the DFC to the TWDB, the TWDB calculates estimates of managed available groundwater (MAG) for each GCD within the GMA.

Mr. David Nabors inquired how an area would be able to regulate groundwater use in a county without a GCD and the significance, if any, of the RWP for that same county. Robert Bradley, Horace Grace, and Gary Westbrook responded jointly that there were no direct regulations, however, TWDB funding for projects in areas without a recommended water management strategy would be considered as not consistent with the approved regional water plan, the GCD is the regulatory manager for the county's groundwater resources, and the GCD is the only mechanism by which to implement the MAGs.

7. *Summary of GMA8 progress and status of pending Managed Available Groundwater figures.*

Horace Grace commented that most of this information had already been covered in previous items. He asked Randy Williams to use this time to give a brief explanation of an aquifer's saturated thickness. Randy Williams, AECOM, explained that the saturated thickness is the measurement by distance between the water table and bottom of the aquifer. Mr. Williams also explained various geographical characteristics of an aquifer such as the confined and unconfined portion of an aquifer and how those characteristics affect the potential drawdown of the saturated thickness.

Mr. Nabors inquired on what to do once the DFC is exceeded within the District. Horace Grace responded that the District must limit production and discontinue issuing new permits until the aquifer has recharged above the DFC. Mr. Nabors asked about how to provide for the water needs of the District if they exceed what is permissible by the DFC. Gary Westbrook noted that the enabling legislation for the District should contain direction for responding to such a situation. He also noted that there might be a potential for interlocal agreements between GCDs and then reiterated Mr. Grace's comments on promoting conservation within the District. Joe Cooper added that depending on the geographic location of the GCD, the DFCs look very different. He illustrated that some GCDs find themselves more in the position of managed depletion rather than preservation.

8. *Discussion and possible action to rescind desired future conditions for the Blossom and Nacatoch aquifers adopted at the December 17, 2007 GMA8 meeting.*

Randy Williams explained that the MAG figures from TWDB have come back considerably different than what GMA8 projected when setting the DFCs for the Blossom and Nacatoch aquifers. He stated he has conferred with members of TWDB and proposes rescinding the DFCs for these two aquifers. The proposed revised DFCs would more closely reflect what is currently published in the Regional Water Plan (RWP).

9. *Presentation of revised desired future conditions for the Blossom and Nacatoch aquifers.*

Randy Williams presented the proposed revised DFCs for the Blossom and Nacatoch aquifers to the Board. He noted that the DFCs would need to be defined by the confined and unconfined portions of each aquifer.

10. Public hearing and possible action to adopt revised desired future conditions for the Blossom and Nacatoch aquifers.

Horace Grace clarified that the Board had entered a public hearing at 12:08 p.m. and explained the purpose of the public hearing.

Mr. David Nabors expressed that Delta County is considering the creation of a GCD and questioned whether the creation of a GCD would help them in the planning process. He stated that Delta County is trying to understand the DFC but would also like to protect its residents in the process of protecting its resources.

Joe Cooper responded that Mr. Nabors and others in Delta County may want to study Chapter 36 of the Texas Water Code and the provisions for historic use and "Grandfather" existing well use.

Mr. Wendel Davis, Red River Water Supply Corporation, commented that they are currently utilizing more groundwater resources than is represented in the Regional Water Plan and have not seen the drawdown as projected by the TWDB.

Gary Westbrook asked if the Red River Water Supply Corporation would be willing to share the water level readings they take on their wells with GMA 8 and or TWDB to compare information and utilize the actual reading to refine the GAM model. Mr. Davis responded that Red River Water Supply Corporation would be glad to share that information.

Gary Westbrook reassured Mr. Davis that these DFCs may be adjusted by GMA8 at any time and are required to be reviewed every five years. He noted that due to current time constraints GMA8 would prefer to rescind these DFCs but expressed direct interest to utilize any further information that could be provided to help refine these figures to meet actual planning needs.

Horace Grace closed the public hearing at 12:25 p.m.

Item # 8.

Sam Beaumont moved to rescind the desired future conditions for the Blossom and Nacatoch aquifers, seconded by David Freeman. The motion carried, 9-0.

Item # 10.

Joe Cooper moved to adopt the revised desired future conditions for the Blossom and Nacatoch aquifers and submit these to the Texas Water Development Board, seconded by Gary Westbrook. The motion carried, 9-0.

11. Discussion and possible action on results of the Texas Water Development Board Groundwater Availability Model (GAM) simulation requests 08-64 and 08-66 for the Northern Trinity/Woodbine aquifers.

Mike Massey moved to table this item until the next board meeting, seconded by Gary Westbrook. The motion carried, 9-0.

12. Discussion of funding needed to continue and support joint planning process.

Cheryl Maxwell, Clearwater UWCD, informed the Committee that \$3,251.03 is needed to cover current outstanding invoices from TCB/AECOM.

Mike Massey inquired of the status of the previous commitment from Northern Trinity GCD of \$3,000. Cheryl Maxwell responded that no funding had been received to date. Rodney Kroll, McLennan County GCD, noted that if they survive the possible dissolution of their District, they may be able to contribute another \$500. Gary Westbrook, Joe Cooper, and Horace Grace committed to contribute an additional \$1,000 from each of their respective districts. Mike Massey, Upper Trinity GCD, commented that he would consult with his Board about making an additional contribution of \$750.

Fox Crossing, Saratoga, and Tablerock GCDs all responded that with no revenue stream available to them, no contributions could be committed by their districts.

Clyde Waters, Central Texas GCD Representative, commented that he would speak with Richard Bowers, General Manager, about a \$1,000 contribution.

13. *Committee member comments.*

No comments were made.

14. *Discuss agenda items for next meeting*

No future agenda items were determined at this time.

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

Next meeting to be determined.

16. *Closing comments.*

Gary Westbrook extended his gratitude to the City of Bellmead for hosting the GMA 8 meeting and thanked the public for their interest and involvement.

Joe Cooper thanked Cheryl Maxwell for all of her diligence in functioning as the Administrative Officer for GMA 8.

Horace Grace thanked Cheryl Maxwell and Randy Williams for all of their support and hard work for GMA 8.

Cheryl Maxwell announced that there was an upcoming Region G Meeting on April 15, 2009.

17. *Adjourn.*

Meeting was adjourned at 12:48 p.m.

The GMA 8 Committee unanimously approved the minutes on this _____ day of February, 2010..

GMA8 HISTORY

GMA8 History

- HB1763 passed in 2005 Session requiring joint planning of groundwater districts in GMA—September 2010 deadline set for completion of DFCs.
- November 15, 2005—First meeting of the 6 GCDs in GMA8. Area includes 45 counties and 9 aquifers.
- May 23, 2006—TCB selected to assist in developing DFCs.
- September 20, 2006—Scope of Work approved.
- November 12, 2006—Clearwater named as administrator/fiscal agent for GMA8.
- April 12, 2007—Interlocal Agreement approved for one year.
- 4 new GCDs created by State Legislature in 2007 Session. (10 GCDs in GMA8)
- December 17, 2007—DFCs approved for 5 aquifers—Edwards BFZ, Brazos River Alluvium, Blossom, Nacatoch, and Woodbine.
- May 19, 2008—DFCs approved for 3 aquifers—Ellenburger-San Saba, Hickory, and Marble Falls.
- September 17, 2008—DFCs approved for Trinity aquifer.
- September 17, 2008—Contract with TCB/AECOM amended.
- September 30, 2008—MAG for Edwards BFZ provided to RWPGs.
- November 7, 2008—MAG for Brazos River Alluvium provided to RWPGs.
- November 10, 2008—MAG for Woodbine provided to RWPGs.
- March 16, 2009—Revised DFCs adopted for Blossom and Nacatoch.
- March 31, 2009—MAG for Trinity provided to RWPGs.
- April 30, 2009—MAG for Marble Falls provided to RWPGs.
- 3 new GCDs created by State Legislature in 2009 Session; 1 existing GCD renamed; 1 existing GCD dissolved and merged with another existing GCD. (12 GCDs in GMA8)
- December 12, 2009—MAGs for Ellenburger-San Saba, Blossom and Hickory aquifers provided to RWPGs.
- As of February 2, 2010, still waiting for draft MAG for Nacatoch.

GCD's in GMA8 (History)

Original Six: Central Texas GCD

Clearwater UWCD

Fox Crossing Water District

Middle Trinity GCD

Post Oak Savannah GCD

Saratoga UWCD

Added in 2007: McLennan Co. GCD (changed to Southern Trinity GCD in 2009)

Northern Trinity GCD

Upper Trinity GCD

Tablerock GCD (became part of Middle Trinity GCD in 2009)

Added in 2009: North Texas GCD

Prairielands GCD

Red River GCD

GCDs In GMA8 (Current)

Central Texas GCD—Burnet

Clearwater UWCD—Bell

Fox Crossing Water District—Mills

Middle Trinity GCD—Bosque, Comanche, Coryell, Erath

North Texas GCD—Collin, Cooke, Denton

Northern Trinity GCD—Tarrant

Post Oak Savannah GCD—Milam (& Burleson)

Prairielands GCD—Ellis, Hill, Johnson, Somervell

Red River GCD—Fannin, Grayson

Saratoga UWCD—Lampasas

Southern Trinity GCD—McLennan

Upper Trinity GCD—Hood, Montague, Parker, Wise

GCD	Original Scope	ASR #1	ASR #2	ASR #3	Total paid as of	
					2008	8/14/2009
Central TX	\$2,566.66	\$500				\$3,066.66
Clearwater	\$2,566.70	\$500		\$1,000	\$482.53	\$4,549.23
Fox Crossing	\$2,566.66	\$500				\$3,066.66
Middle Trinity	\$2,566.66	\$500		\$1,000	\$482.53	\$4,549.19
Post Oak Savannah	\$2,566.66	\$500		\$1,000	\$482.53	\$4,549.19
Saratoga	\$2,566.66	\$0				\$2,566.66
McLennan Co.	--	\$500		\$500	\$1,500	\$2,500.00
Northern Trinity	--	\$0				\$0.00
Tablerock	--	\$500	\$500			\$1,000.00
Upper Trinity	--	\$750	\$2,250	\$500	\$566.66	\$4,066.66
Total	\$15,400.00	\$4,250	2,750	\$500	\$1,500	\$29,914.25
Invoice Total	\$15,400.00	\$4,244.83	\$2,755.17	\$450.70	\$1,948.03	\$29,914.25
Total Paid	\$15,400.00	\$4,244.83	\$2,755.17	\$450.70	\$1,948.03	\$29,914.25
GMA8 Balance	\$0.00	\$5.17	0	\$49.30	\$51.97	\$688.62
						\$0.00
						PD IN FULL

MAG STATUS
AND SUMMARY

GMA8

Joint Planning Process Status

Aquifer	DFC Status	MAG Status	Total MAG in acre-ft
Edwards BFZ	Adopted 12/17/07	Finalized and forwarded to RWPG 9/30/08	15,168
Woodbine	Adopted 12/17/07	Finalized and forwarded to RWPG 11/10/08	44,905
Brazos River Alluvium	Adopted 12/17/07	Finalized and forwarded to RWPG 11/7/08	33,644
Trinity	Adopted 9/17/08	Finalized and forwarded to RWPG 3/31/09	247,357
Marble Falls	Adopted 5/19/08	Finalized and forwarded to RWPG 4/30/09	4,815
Ellenburger-San Saba	Adopted 5/19/08	Finalized and forwarded to RWPG 12/10/09	8,749
Blossom	Adopted 12/17/07 Revised DFCs adopted 3/16/09	Finalized and forwarded to RWPG 12/10/09	2,273
Hickory	Adopted 5/19/08	Finalized and forwarded to RWPG 12/10/09	2,346
Nacatoch	Adopted 12/17/07 Revised DFCs adopted 3/16/09	Revised MAG not provided yet	

12/10/2009

MAG Summary by County

The Managed Available Groundwater (MAG) is the amount of water that may be permitted by a groundwater district for beneficial use in accordance with the desired future condition of the aquifer.

Blossom Aquifer

The MAGs for the counties in GMA8 are as follows:

<u>County</u>	<u>MAG Acre-Feet/Year</u>
Bowie	201
Lamar	394
Red River	<u>1,678</u>
TOTAL	2,273

Brazos River Alluvium Aquifer

The MAGs for the counties in GMA8 are as follows:

<u>County</u>	<u>MAG Acre-Feet/Year</u>
Bosque	830
Falls	16,684
Hill	632
McLennan	15,023
Milam	475
TOTAL	33,644

Edwards BFZ Aquifer

The MAGs for the counties in GMA8 are as follows:

<u>County</u>	<u>MAG Acre-Feet/Year</u>
Bell	6,469
Travis	5,237
Williamson	3,462
TOTAL	15,168

Ellenburger-San Saba Aquifer

The MAGs for the counties in GMA8 are as follows:

<u>County</u>	<u>MAG Acre-Feet/Year</u>
Brown	131
Burnet	5,526
Lampasas	2,593
Mills	<u>499</u>
TOTAL	8,749

Hickory Aquifer

The MAGs for the counties in GMA8 are as follows:

<u>County</u>	<u>MAG Acre-Feet/Year</u>
Brown	12
Burnet	2,148
Lampasas	113
Mills	36
Travis	22
Williamson	<u>15</u>
TOTAL	2,346

Marble Falls Aquifer

The MAGs for the counties in GMA8 are as follows:

<u>County</u>	<u>MAG Acre-Feet/Year</u>
Burnet	1,978
Lampasas	<u>2,837</u>
TOTAL	4,815

Woodbine Aquifer

Summary of Managed Available Groundwater

The Managed Available Groundwater (MAG) is the amount of water that may be permitted by a groundwater district for beneficial use in accordance with the desired future condition of the aquifer.

The MAGs for the counties in GMA8 are as follows:

<u>County</u>	<u>MAG Acre-Feet/Year</u>
Collin	2,509
Cooke	154
Dallas	2,313
Delta	20
Denton	4,126
Ellis	5,441
Fannin	3,297
Grayson	12,087
Hill	2,261
Hunt	2,840
Johnson	4,732
Kaufman	200
Lamar	3,644
Limestone	34
McLennan	5
Navarro	300
Red River	166
Rockwall	144
Tarrant	632
TOTAL	44,905

**GMA 8 Trinity Aquifer Managed Available Groundwater
County Totals (acre-feet/year) within official aquifer
boundary**

County	Paluxy	Glen Rose	Hensell	Hosston	Total
BELL	96	880	1,099	4,993	7,068
BOSQUE	1,013	258	1,749	2,829	5,849
BROWN	18	0	79	1,948	2,045
BURNET	182	205	690	2,469	3,546
CALLAHAN	n/a	n/a	124	3,655	3,779
COLLIN	1,762	0	103	239	2,104
COMANCHE	19	0	419	23,283	23,721
COOKE	3,528	0	1,612	1,712	6,852
CORYELL	254	784	1,765	913	3,716
DALLAS	433	0	1,121	3,904	5,458
DELTA	0	0	50	50	100
DENTON	9,822	0	3,112	6,399	19,333
EASTLAND	4	0	79	4,637	4,720
ELLIS	400	0	1,142	2,417	3,959
ERATH	4,230	1	9,142	15,723	29,096
FALLS	0	2	22	137	161
FANNIN	288	0	203	209	700
GRAYSON	4,708	0	2,345	2,346	9,399
HAMILTON	291	46	1,109	698	2,144
HILL	1,254	10	933	950	3,147
HOOD	942	4	3,595	6,604	11,145
HUNT	551	0	0	0	551
JOHNSON	9,493	24	1,064	2,289	12,870
KAUFMAN	13	0	30	104	147
LAMAR	0	0	660	660	1,320
LAMPASAS	13	774	885	1,446	3,118
LIMESTONE	0	4	15	50	69
MCLENNAN	231	265	4,190	16,004	20,690
MILAM	0	95	36	103	234
MILLS	6	66	945	1,383	2,400
MONTAGUE	505	0	362	1,806	2,673
NAVARRO	413	0	256	1,204	1,873
PARKER	9,800	192	1,441	3,815	15,248
RED RIVER	473	0	19	38	530
ROCKWALL	958	0	0	0	958
SOMERVELL	120	134	741	1,490	2,485
TARRANT	10,544	112	2,535	5,556	18,747
TAYLOR	n/a	n/a	n/a	431	431
TRAVIS	3	2,612	156	1,119	3,890
WILLIAMSON	11	759	415	614	1,799
WISE	2,559	5	1,480	5,238	9,282
Total	64,937	7,232	45,725	129,465	247,357

County	GMA 8 Trinity Aquifer Managed Available Groundwater County Totals (acre-feet/year) outside official aquifer boundary				
	Paluxy	Glen Rose	Hensell	Hosston	Total
DELTA	0	0	131	131	262
FALLS	0	0	0	8	8
KAUFMAN	89	0	210	735	1,034
LAMAR	0	0	1	1	2
MILAM	0	54	0	0	54
WILLIAMSON	0	1	0	0	1
Total	89	55	342	875	1,361

RWPA	GMA 8 Trinity Aquifer Managed Available Groundwater RWPA Totals (acre-feet/year) within official aquifer boundary				
	Paluxy	Glen Rose	Hensell	Hosston	Total
B	505	0	362	1,806	2,674
C	45,227	309	15,380	33,143	95,059
D	1,024	0	729	748	2,501
F	18	0	79	1,948	2,045
G	17,972	3,920	27,336	86,795	136,023
K	190	3,002	1,839	5,024	10,055
Total	64,936	7,231	45,725	129,464	247,356

RWPA	GMA 8 Trinity Aquifer Managed Available Groundwater RWPA Totals (acre-feet/year) outside official aquifer boundary				
	Paluxy	Glen Rose	Hensell	Hosston	Total
C	89	0	210	735	1,034
D	0	0	132	132	264
G	0	55	0	8	63
Total	89	55	342	875	1,361

GCD	GMA 8 Trinity Aquifer Managed Available Groundwater GCD Totals (acre-feet/year)				
	Paluxy	Glen Rose	Hensell	Hosston	Total
None	35,556	3,849	17,139	40,129	96,673
None - outside	89	1	342	875	1,307
Central Texas GCD	182	205	690	2,469	3,546
Clearwater UWCD	96	880	1,099	4,993	7,068
Fox Crossing Water District	6	66	945	1,383	2,400
McLennan County GCD	231	265	4,190	16,004	20,690
Middle Trinity GCD	4,249	1	9,562	39,006	52,818
Northern Trinity GCD	10,544	112	2,535	5,556	18,747
Post Oak Savannah GCD - inside	n/a	95	36	102	233
Post Oak Savannah GCD - outside	n/a	54	0	0	54
Saratoga UWCD	13	774	885	1,446	3,118
Tablerock GCD	254	784	1,765	913	3,716
Upper Trinity GCD	13,806	201	6,879	17,463	38,348
Total	65,026	7,287	46,067	130,339	248,719

NACATOCH
DFC REPORT
MARCH 30, 2009

AECOM

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

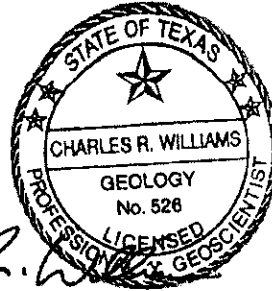
Memorandum

To: Cheryl Maxwell, Administrative Manager
Clearwater Underground Water Conservation District

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

Date: March 30, 2009

Re: Re-Defined Desired Future Condition of Nacatoch Aquifer



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, AECOM USA Group Inc. (AECOM) (fka TCB Inc.) developed statements describing DFCs for the portions of the Nacatoch aquifer 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 in the Nacatoch aquifer a spreadsheet model was developed. The model uses estimates of: the area of the aquifer recharge (unconfined) and the artesian (confined) zones; the annual amount of aquifer use (pumping); and the coefficient of storage of the aquifer in the confined and unconfined zones to predict the annual volume of water that could be produced from the aquifer and result in a specified amount of aquifer draw-down after 50 years. Predictions are made for each of the sub-zones of the Nacatoch aquifer established in the unconfined and confined zones of the aquifer within each river basin in each County in which the aquifer occurs in GMA-8. Predictions of the estimated annual amount of groundwater that could be produced for the several sub-zones in the unconfined zone and confined zone of the aquifer in each County are summed for presentation. Aquifer-zone area estimates are from the TWDB geographic information system (GIS) coverages. Estimates of the annual aquifer use by County are from the TWDB Annual Water Use Survey data. The storage coefficients used in the projections are the values for the Nacatoch aquifer given in TWDB Report 305. (Ashworth, 1988)

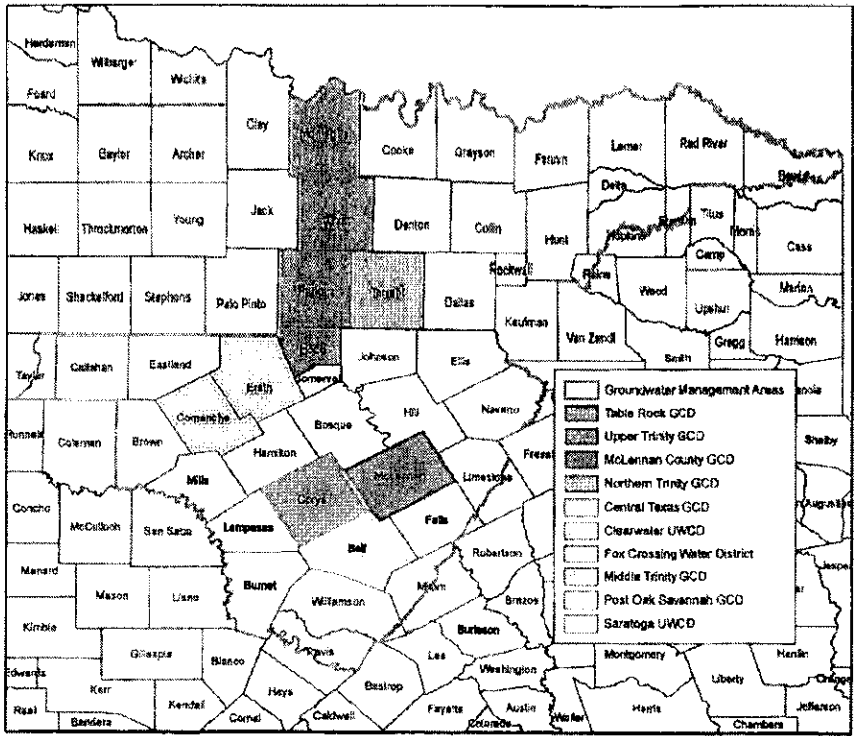


Figure 1, the Boundaries and Member GCDs of GMA-8

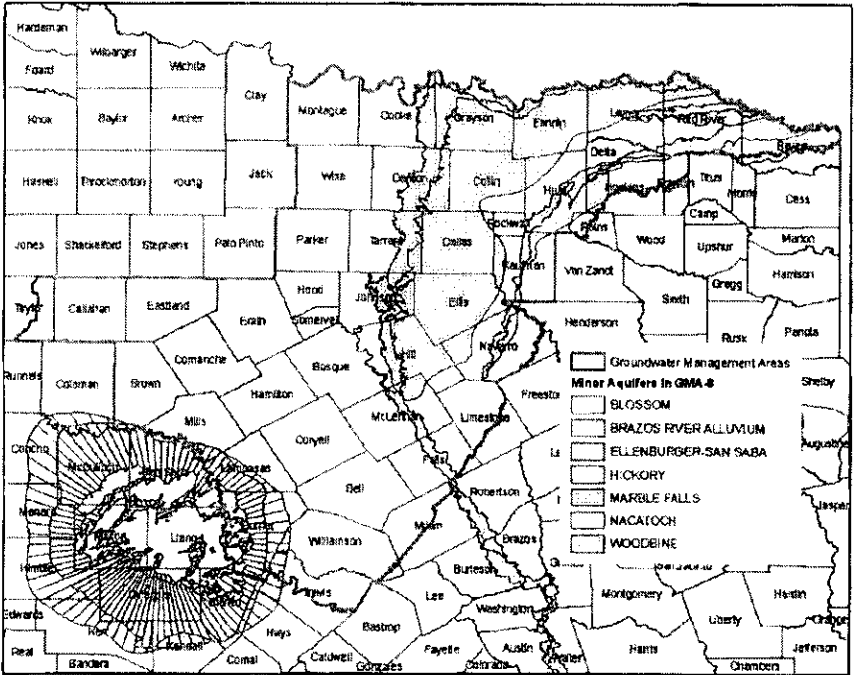


Figure 2, the Minor Aquifers of GMA-8

Discussion

The GMA-8 intent in developing a Nacatoch aquifer DFC is to describe a DFC resulting in a Managed Available Groundwater (MAG) value approximately equal to the sum of the County values (highest value after year 2000) for Regional Water Plan (RWP) availability for the aquifer in each County where the aquifer occurs. GMA-8 determined to take this course of action because its solicitations for public involvement brought only limited attendance with few comments and because the RWP values were adopted through a previous public process with local involvement.

In GMA-8, the Nacatoch aquifer occurs in Bowie, Delta, Ellis, Franklin, Hopkins, Hunt, Kaufman, Lamar, Navarro, Rains, Red River and Rockwall Counties. GMA-8 initially developed DFCs for the Nacatoch aquifer using a spreadsheet model to predict the percentage of estimated aquifer saturated thickness maintained after 50 years. (Williams, 2007) This DFC development approach resulted in a draft MAG value from TWDB significantly less than the intended amount. (Bradley, 2008) GMA-8 then determined to rescind the originally stated DFCs for the Nacatoch aquifer and re-adopt a revised DFC to achieve the intended MAG values.

The revised GMA-8 approach to DFC development for the Nacatoch aquifer is to describe a DFC in terms of the average draw down (in feet) for the unconfined and confined zone of the aquifer in each County where the aquifer occurs. GMA-8 maintains the intent to describe a DFC for the Nacatoch aquifer that will result in a MAG approximately equal to the sum of the County values (highest value after year 2000) for RWP availability value for the aquifer in Bowie, Delta, Ellis, Franklin, Hopkins, Hunt, Kaufman, Lamar, Navarro, Rains, Red River and Rockwall Counties.

DFC Development Approach

The purpose of the spreadsheet model is to conveniently predict the estimated amount of water that could be produced annually for 50 years without exceeding a specified level of draw down. The models are used to aid in the DFC development process for aquifers where a TWDB GAM is not available. Iterative trials of a range of draw down values were made until the desired amount of annual water use was achieved for each aquifer sub-zone in County. (Table 1) The results of the annual water use values from the final iteration for each aquifer sub-zone within each County were summed for comparison to the RWP availability values. (Table 2) The spreadsheet model project the effects of pumping using the following relationships:

$$Q(t) = R(t) - D(t) + dS/dt$$

Where:

Q(t) = the total rate of groundwater withdrawal (ac-ft/yr)

R(t) = the total rate of groundwater recharge to the basin (aquifer) (ac-ft/yr)

D(t) = the total rate of groundwater discharge from the basin (aquifer) (ac-ft/yr)

dS/dt = change in aquifer storage of groundwater over time (draw down in feet)
(Freeze and Cherry, 1979)

The results of water-level monitoring of the Nacatoch aquifer appear to show little change over the period of record and suggest that annual aquifer use (pumping) is approximately equal to annual aquifer recharge. (Bradley, 2008) If annual pumping is approximately equal to annual recharge; the factors for recharge and discharge in the aquifer will cancel each other and the relationship may be simplified to:

$$Q(t) = dS/dt$$

If it is assumed that the annual amount of recharge to the aquifer is approximately equal to the most recent (2004) TWDB estimates for groundwater use from the aquifer in each County. The step-by-step description of the process to develop the DFC for each county is as follows:

1. The total area occupied by the aquifer in each county is subdivided by river basin and then by aquifer zone (confined or unconfined).
2. Within each County; the area of each aquifer sub-zone is divided by the total area occupied by the aquifer in the County to give the percentage of the total aquifer area in the County represented by each sub-zone.
3. The estimate of annual recharge (assumed to be equal to the estimate annual aquifer pumping) for each County is divided by the percentage value of the total aquifer area in the County represented by each aquifer sub-zone in the County to give an estimate of recharge to each aquifer sub-zone (in acre-feet per year).
4. The area (in acres) of each aquifer sub-zone in each County is multiplied by an estimated amount of aquifer draw-down (in feet) ₁ and then multiplied by the storage coefficient of the aquifer sub-zone (expressed as a decimal fraction) ₂ to give an estimate of the amount of water (in acre-feet) that could be removed from the aquifer if the estimated amount of aquifer draw-down occurred.
5. The estimated volume of water that could be produced from each aquifer sub-zone with the specified estimate of aquifer draw-down is divided by 50 (years) to estimate the amount of water that could be produced each year from the aquifer sub-zone over a 50-year period to result in the estimated amount of aquifer draw-down at the end to the 50-year time period.
6. The estimated annual amount of water that could be produced from each aquifer sub-zone in each County (in acre-feet per year) is added to the estimate of annual recharge for the sub-zone (in acre-feet per year) to give the estimated MAG value for the aquifer sub-zone (in acre-feet per year).
7. The estimated MAG values (in acre-feet per year) of the several aquifer sub-zones in each County are summed to give a total estimated MAG value for the aquifer in each County. (Table 2)

Notes:

1. The estimated average aquifer draw-down values were kept constant for the several sub-zones of the confined and unconfined zones of the aquifer within each County.
2. The storage coefficient values for the confined and unconfined zones were kept constant for all sub-zones in the aquifer zone in all Counties.

County	River Basin	Aquifer zone	Sub-zone Area (acres)	Total Aquifer Area in County (Acres)	Sub-division Percent of Total Area	Estimated Total County Pumping (ac-ft per year)	Assigned Annual Recharge Volume (ac-ft)	Estimated Average Aquifer Draw-down (ft)	Storage Co-efficient (Estimated)	Total Water Withdrawal Volume (ac-ft)	Annual Water Withdrawal Volume (ac-ft)	MAG Estimate (ac-ft)
Bowie	Sulphur	un-confined	18897	318,821	6%	1304	78	10.4	0.1	19445	389	487
Bowie	Sulphur	confined	105218	318,821	33%	1304	430	20	0.00005	105	2	432
Bowie	Red	un-confined	107829	318,821	34%	1304	443	10.4	0.1	112248	2245	2688
Bowie	Red	confined	84977	318,821	27%	1304	352	20	0.00005	85	2	354
Delta	Sulphur	un-confined	41104	41,104	100%	48	48	3	0.1	12331	247	283
Elle	Trinity	confined	88	88	100%	0	0	5	0.1	43	1	1
Franklin*	Sulphur	confined	3898	3,897	100%	10	10	20	0.00005	4	0	10
Franklin*	Sulphur	un-confined	1	3897	0%	10	0	20	0.00005	0	0	0
Hopkins	Sulphur	un-confined	98570	128,821	30%	495	149	5.5	0.1	21214	424	573
Hopkins	Sulphur	confined	43059	128,821	33%	495	183	20	0.00005	43	1	184
Hopkins	Sulphur	confined	10378	128,821	8%	495	40	20	0.00005	10	0	40
Hopkins	Sulphur	confined	65	128,821	0%	495	0	20	0.00005	0	0	0
Hopkins	Sabine	un-confined	36,749	128,821	29%	495	144	20	0.00005	37	1	145
Hunt	Trinity	un-confined	13	237,240	0%	1373	0	8.1	0.1	11	0	0
Hunt	Sabine	un-confined	58,771	237,240	25%	1373	343	8.1	0.1	48415	968	1311
Hunt	Sabine	un-confined	14,388	237,240	6%	1373	82	8.1	0.1	11854	233	315
Hunt	Sabine	confined	132,899	237,240	56%	1373	789	20	0.00005	139	3	772
Hunt	Sulphur	un-confined	28	237,240	0%	1373	0	8.1	0.1	23	0	0
Hunt	Sulphur	un-confined	24858	237,240	10%	1373	137	8.1	0.1	20133	403	540
Hunt	Sulphur	confined	2,455	237,240	1%	1373	14	20	0.00005	2	0	14
Hunt	Sulphur	confined	3029	237,240	1%	1373	14	20	0.00005	3	0	14
Hunt	Sulphur	un-confined	0	237,240	0%	1373	0	20	0.00005	0	0	0
Kaufman	Trinity	un-confined	48,297	89,229	54%	258	138	0.8	0.1	2898	58	198
Kaufman	Trinity	confined	28,622	89,229	30%	258	77	20	0.00005	27	1	78
Kaufman	Trinity	un-confined	13,058	89,229	15%	258	38	20	0.00005	13	0	38
Kaufman	Sabine	un-confined	1,242	89,229	1%	258	3	0.8	0.1	75	2	8
Lamar	Sulphur	un-confined	7234	7,234	100%	0	0	3.1	0.1	2243	45	45
Navarro	Trinity	un-confined	56,484	96,870	58%	97	98	1.2	0.1	8778	138	182
Navarro	Trinity	confined	40,406	96,870	42%	97	41	20	0.00005	40	1	42
Rains*	Sabine	un-confined	6,590	6,590	100%	10	10	20	0.00005	7	0	10
Red River	Sulphur	un-confined	135811	180,517	75%	398	297	1.1	0.1	14817	288	585
Red River	Sulphur	confined	38897	180,517	22%	398	87	20	0.00005	39	1	88
Red River	Red	un-confined	6009	180517	3%	398	12	1.1	0.1	681	13	25
Rockwell	Trinity	un-confined	287	554	52%	0	0	1	0.1	29	1	1
Rockwell	Trinity	un-confined	195	554	35%	0	0	1	0.1	20	0	0
Rockwell	Sabine	un-confined	23	554	4%	0	0	1	0.1	2	0	0
Rockwell	Sabine	un-confined	48	554	9%	0	0	1	0.1	5	0	0
Totals			4,408,982				3,873			213,689	5,476	9,448

Table 1, Identification of Nacatoch Aquifer Sub-zones by County, Sub-zone Area, Percentage of Each Sub-zone of the Total Aquifer Area in the County, Estimated Annual Aquifer Use by County, Estimated Annual Recharge by Aquifer Sub-zone, Estimated Average Aquifer Draw Down in Each Sub-zone, Estimated Total Water Withdrawal by Sub-zone, Estimated Annual Water Withdrawal by Sub-zone and Estimated MAG by Sub-zone * Note - In the absence of TWDB Pumping Data: Pumping is Assumed to be 10 acre-feet per year

County	Sum of Nacatoch Aquifer RWP Groundwater Availability Values (ac-ft per year)	Sum of Nacatoch Aquifer Sub-zone Estimated MAG Values (ac-ft per year)	Difference Between Estimated MAG and RWP Availability Values (ac-ft per year)
Bowie	3936	3941	5
Delta	282	293	11
Ellis	0	1	1
Franklin	10	10	0
Hopkins	915	922	7
Hunt	2956	2966	10
Kaufman	318	317	-1
Lamar	45	45	0
Navarro	229	234	5
Rains	10	10	0
Red River	700	708	8
Rockwall	1	1	0

Table 2, Sum of Regional Water Plan Nacatoch Aquifer Availability Values by County and Sum of Nacatoch Aquifer Estimated MAG Values by County

GMA-8 Desired Future Conditions for the Nacatoch Aquifer

Bowie County

- From estimated year 2009 conditions, the average draw down of the unconfined zone of the Nacatoch aquifer should not exceed approximately 10.4 feet after 50 years.
- From estimated year 2009 conditions, the average draw down of the confined zone of the Nacatoch aquifer should not exceed approximately 20 feet after 50 years.

Delta County

- From estimated year 2009 conditions, the average draw down of the unconfined zone of the Nacatoch aquifer should not exceed approximately 3 feet after 50 years.

Ellis County

- From estimated year 2009 conditions, the average draw down of the unconfined zone of the Nacatoch aquifer should not exceed approximately 5 feet after 50 years.

Franklin County

- From estimated year 2009 conditions, the average draw down of the confined zone of the Nacatoch aquifer should not exceed approximately 20 feet after 50 years.

Hopkins County

- From estimated year 2009 conditions, the average draw down of the unconfined zone of the Nacatoch aquifer should not exceed approximately 5.5 feet after 50 years.
- From estimated year 2009 conditions, the average draw down of the confined zone of the Nacatoch aquifer should not exceed approximately 20 feet after 50 years.

Hunt County

- From estimated year 2009 conditions, the average draw down of the unconfined zone of the Nacatoch aquifer should not exceed approximately 8.1 feet after 50 years.
- From estimated year 2009 conditions, the average draw down of the confined zone of the Nacatoch aquifer should not exceed approximately 20 feet after 50 years.

Kaufman County

- From estimated year 2009 conditions, the average draw down of the unconfined zone of the Nacatoch aquifer should not exceed approximately 0.6 feet after 50 years.
- From estimated year 2009 conditions, the average draw down of the confined zone of the Nacatoch aquifer should not exceed approximately 20 feet after 50 years.

Lamar County

- From estimated year 2009 conditions, the average draw down of the unconfined zone of the Nacatoch aquifer should not exceed approximately 3.1 feet after 50 years.

Navarro County

- From estimated year 2009 conditions, the average draw down of the unconfined zone of the Nacatoch aquifer should not exceed approximately 1.2 feet after 50 years.
- From estimated year 2009 conditions, the average draw down of the confined zone of the Nacatoch aquifer should not exceed approximately 20 feet after 50 years.

Rains County

- From estimated year 2009 conditions, the average draw down of the confined zone of the Nacatoch aquifer should not exceed approximately 20 feet after 50 years.

Red River County

- From estimated year 2009 conditions, the average draw down of the unconfined zone of the Nacatoch aquifer should not exceed approximately 1.1 feet after 50 years.
- From estimated year 2009 conditions, the average draw down of the confined zone of the Nacatoch aquifer should not exceed approximately 20 feet after 50 years.

Rockwall County

- From estimated year 2009 conditions, the average draw down of the unconfined zone of the Nacatoch aquifer should not exceed approximately 1 foot after 50 years.

Note: The observations and assessments made in this report were based on data supplied by GMA-8 members, TWDB, or available from referenced published sources available at the time of 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

Ashworth, John B., 1988; Ground-Water Resources of the Nacatoch Aquifer; Texas Water Development Board Report 305

Bradley, Robert G., 2008; GTA Aquifer Assessment 07-5mag (Draft); Texas Water Development Board

Freeze, R. Allan and Cherry, John A., 1979; Groundwater; Prentice-Hall Inc; ISBN 0-13-365312-9

Williams, Charles R., 2007; Adopted Desired Future Conditions of Minor Aquifers (in Groundwater Management Area 8)

MAPS

Confirmed Groundwater Conservation Districts

- 1 Anderson County UWCD
- 2 Bandera County River Authority & Ground Water District
- 3 Bexar County GCD
- 4 Bexar County GCD
- 5 Bexar County GCD
- 6 Bexar County GCD
- 7 Brazoria County GCD
- 8 Brazos Valley GCD
- 9 Brewster County GCD
- 10 Brush County GCD
- 11 Central Texas GCD
- 12 Clear Fork GCD
- 13 Clearwater UWCD
- 14 Coastal Bend GCD
- 15 Coastal Plains GCD
- 16 Coke County UWCD
- 17 Colorado County GCD
- 18 Corpus Christi ABWCD
- 19 Cow Creek GCD
- 20 Crockett County GCD
- 21 Culberson County GCD
- 22 Duvall County GCD
- 23 Edwards Aquifer Authority
- 24 Evergreen UWCD
- 25 Fayette County GCD
- 26 Fort Crockett Water District
- 27 Garza County UWCD
- 28 Goliad County GCD
- 29 Grimes County GCD
- 30 Guadalupe County UWCD
- 31 Guadalupe County GCD
- 32 Guadalupe County GCD
- 33 Hays Trinity GCD
- 34 Henderson County GCD
- 35 Hemphill County UWCD
- 36 Hickory UWCD No. 1
- 37 High Plains UWCD No. 1
- 38 Hill Country UWCD
- 39 Hopkins County UWCD No. 1
- 40 Irion County UWCD
- 41 Jeff Davis County UWCD
- 42 Kinney County GCD
- 43 Kinney County GCD
- 44 Kinney County GCD
- 45 Lipscomb-Kochava WCD

Confirmed Groundwater Conservation Districts (Continued)

- 46 Live Oak UWCD
- 47 Llano Estacado UWCD
- 48 Lona Vista GCD
- 49 Lona Vista GCD
- 50 Live Pine GCD
- 51 Lower Trinity GCD
- 52 McLennan GCD
- 53 Medina County GCD
- 54 Menard County UWCD
- 55 Menard County GCD
- 56 Menard County GCD
- 57 Mid-East Texas GCD
- 58 Middle Texas GCD
- 59 Middle Trinity GCD
- 60 Neches & Trinity Valleys GCD
- 61 North Plains GCD
- 62 North Texas GCD
- 63 Northern Trinity GCD
- 64 Pecos County GCD
- 65 Pecos County GCD
- 66 Pecos Valley GCD
- 67 Permian Basin UWCD
- 68 Phyllis GCD
- 69 Pecos UWCD and Supply District
- 70 Phyllis GCD
- 71 Post Oak Savannah GCD
- 72 Prairie GCD
- 73 Prairie County UWCD
- 74 Real-Eauvrie C and R District
- 75 Red River GCD
- 76 Red Sands GCD
- 77 Redlands GCD
- 78 Redlands GCD
- 79 Rusk County GCD
- 80 San Patricio County GCD
- 81 Sany Land UWCD
- 82 Santa Rita UWCD
- 83 Scurry UWCD
- 84 South Plains UWCD
- 85 Southeast Texas GCD
- 86 Southern Trinity GCD
- 87 Starr County GCD
- 88 Sterling County UWCD
- 89 Tarrant County UWCD
- 90 Tarrant County GCD
- 91 Trinity Glen Rose GCD
- 92 Upper Trinity GCD
- 93 Uvalde County UWCD
- 94 Victoria County GCD
- 95 Wood-Texas GCD
- 96 Woodward GCD

Pending Groundwater Conservation Districts

- 87 Harrison County GCD - A
 - 88 Lavaca County GCD - B
- Pending Election Results
 * Created by the 80th Legislature
 † Created by the 81st Legislature

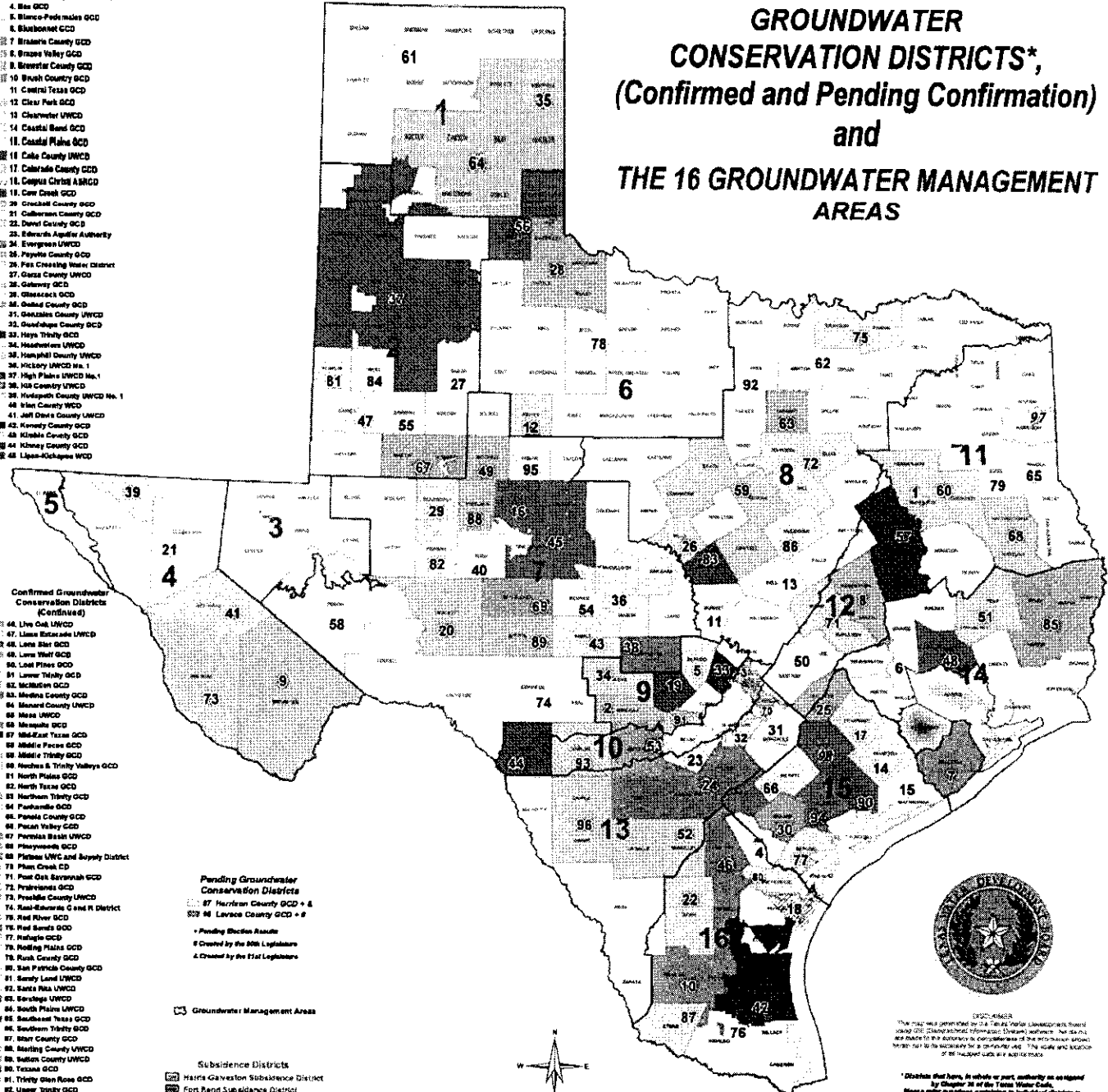
Groundwater Management Areas

Subsidence Districts

- Harris-Galveston Subsidence District
- Fort Bend Subsidence District

NOTE: These boundaries do not represent the actual boundaries of the districts. They are shown for informational purposes only. For more information, please contact the appropriate district.

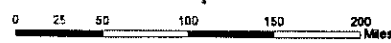
GROUNDWATER CONSERVATION DISTRICTS*, (Confirmed and Pending Confirmation) and THE 16 GROUNDWATER MANAGEMENT AREAS



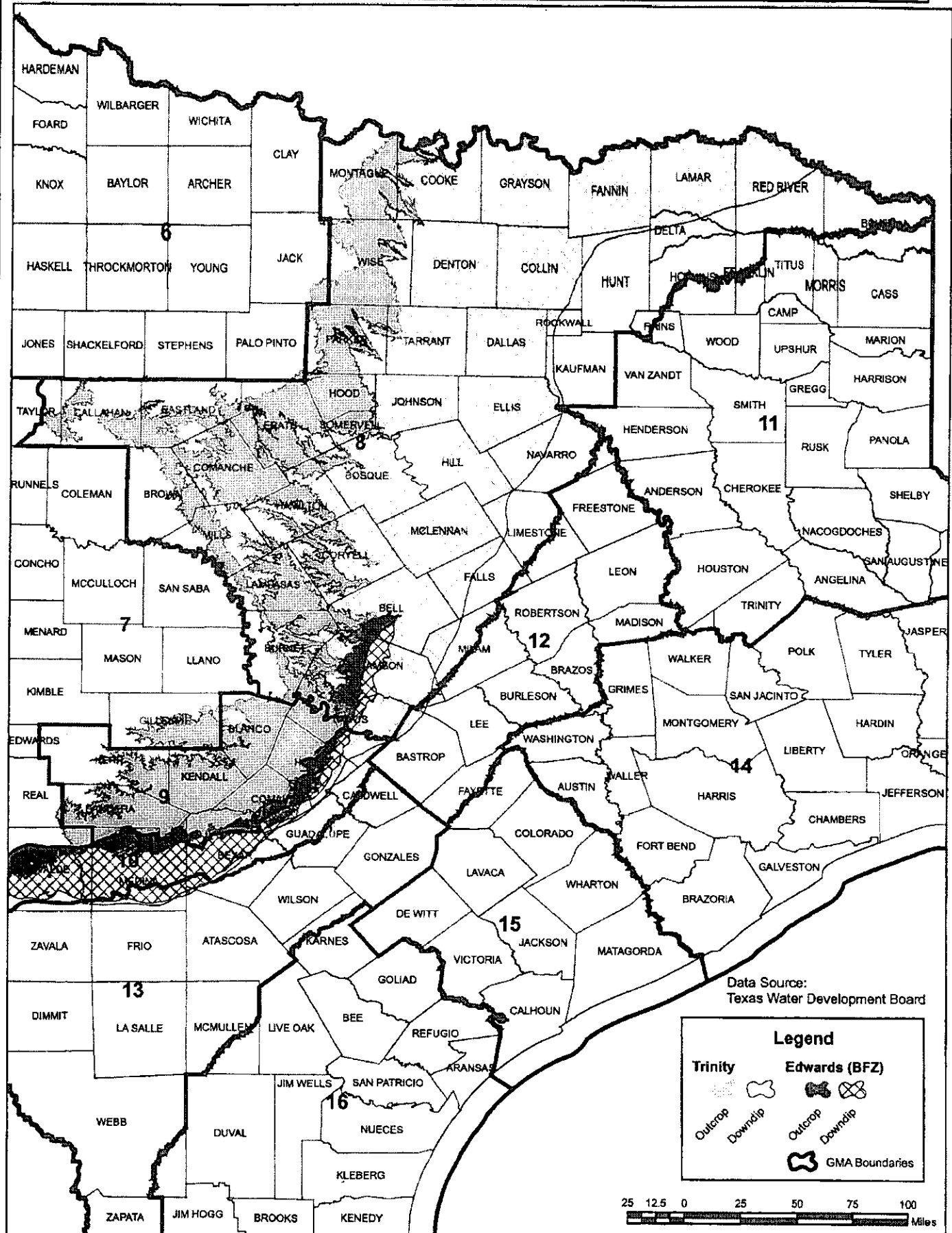
This map was prepared by the Texas Water Development Board (TWDB) using information provided by the Groundwater Conservation Districts (GCDs). The TWDB is not responsible for the accuracy or completeness of the information shown here. It is the responsibility of the user to verify the accuracy of the information shown here.

* Districts that have, in whole or part, authority as assigned by Chapter 36 of the Texas Water Code. Please refer questions pertaining to individual districts to the district boundaries.

Map updated by Mike Hayes, GCD 1998-08 Mapping Coordinator December 2008










Major Aquifers in GMA Region 8



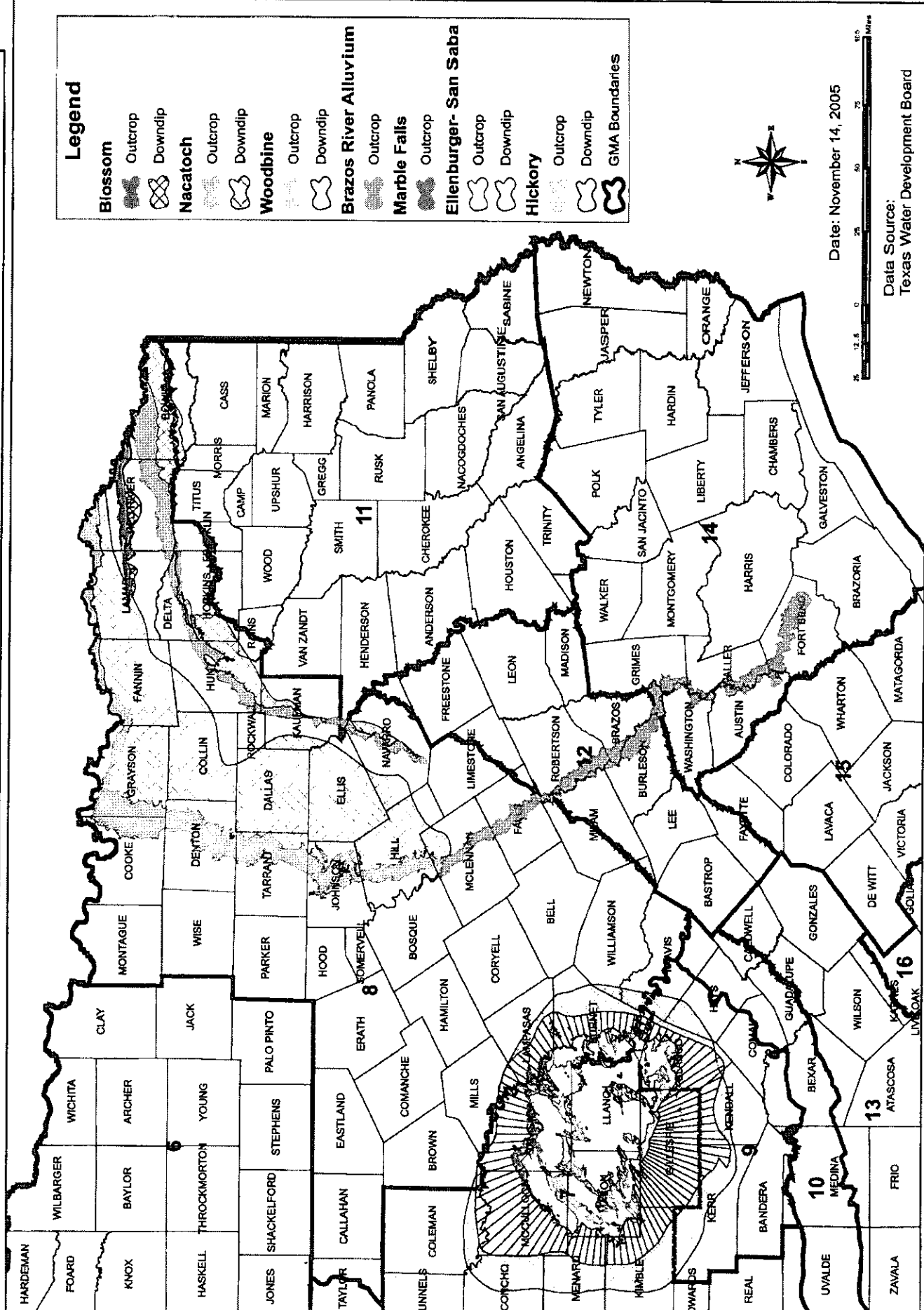
Data Source:
Texas Water Development Board

Legend

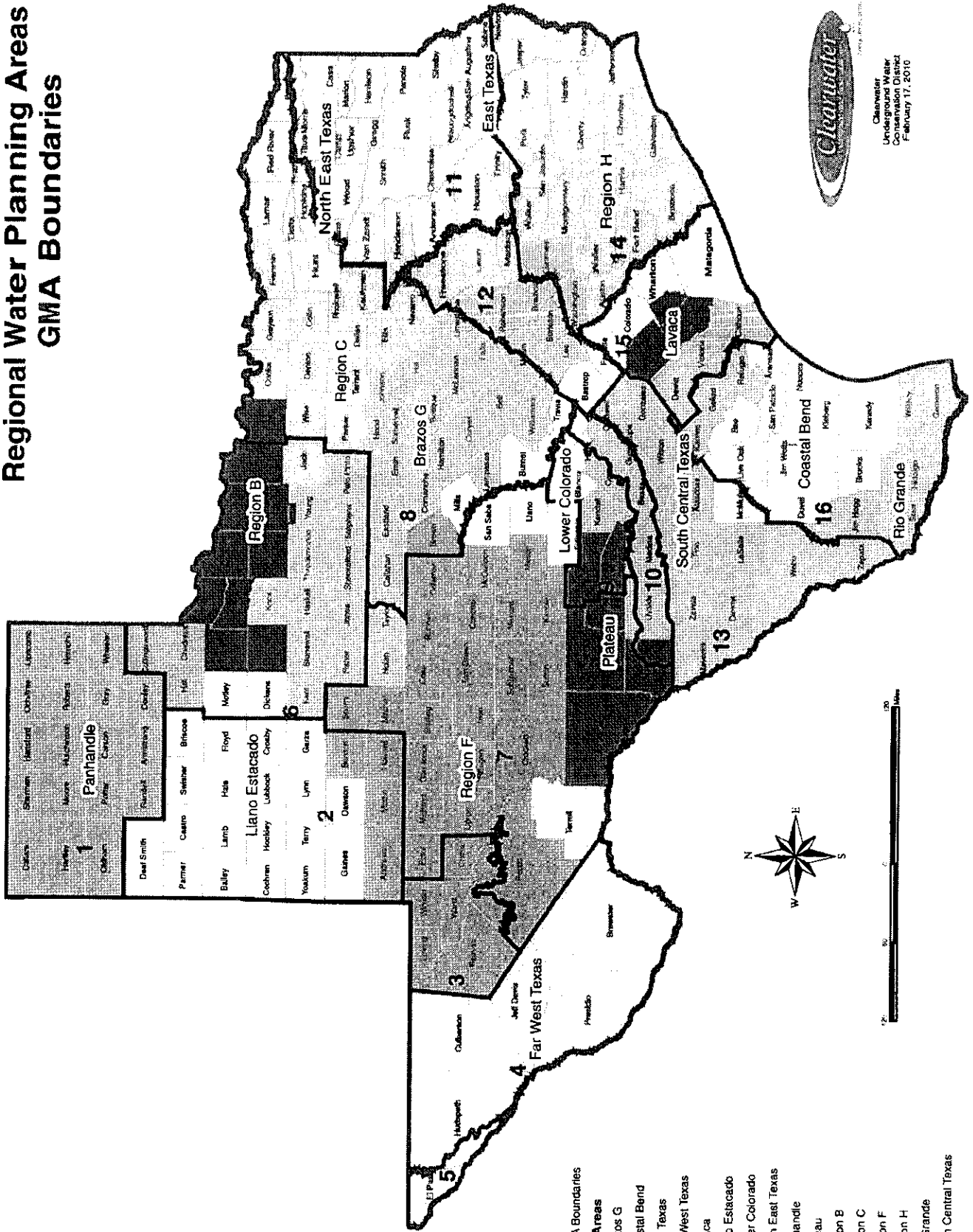
 Trinity	 Edwards (BFZ)
 Outcrop	 Outcrop
 Downship	 Downship
 GMA Boundaries	



Minor Aquifers in GMA Region 8



Regional Water Planning Areas and GMA Boundaries

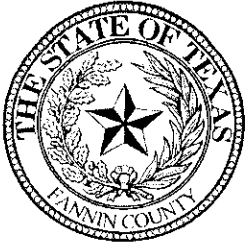


Cleanwater
 Underwater Water
 Conservation District
 February 17, 2010

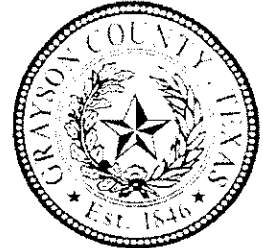
Map Data: Texas Water Development Board
 Regional Water Planning Areas, 2009

- Legend**
- GMA Boundaries
 - Planning Areas
 - Brazos G
 - Coastal Bend
 - East Texas
 - Far West Texas
 - Lavaca
 - Llano Estacado
 - Lower Colorado
 - North East Texas
 - Panhandle
 - Plateau
 - Region B
 - Region C
 - Region F
 - Region H
 - Rio Grande
 - South Central Texas

ATTACHMENT VII



RED RIVER
GROUNDWATER CONSERVATION DISTRICT
FANNIN COUNTY AND GRAYSON COUNTY



MEMO

TO: Board of Directors, Red River Groundwater Conservation District

FROM: Jerry Chapman

DATE: March 24, 2010

RE: Unpaid Legal Billing

On February 19, 2010, letters were mailed out to thirteen entities requesting payment for the legal services required to create the Red River Groundwater Conservation District. Since that time five entities have responded, including Arledge Ridge Water Supply Corporation, Lattimore Materials Co., Pink Hill Water Supply Corporation, Southwest Water Company and the City of Trenton. Unfortunately, only Arledge Ridge Water Supply Corporation made the check payable to the Lloyd Gosselink Firm. The other checks have been returned with a request they be reissued.

I spoke with TXU last week and they agreed to pay the balance for the Luminant Valley Steam Electric Plant in the amount of \$297.23.

JWC:cc

	Entity	2006 Groundwater Production, gallons	Percent of Total	Total Cost		
				\$ 56,700.37	Paid	
1	Arlidge Ridge WSC	40,703,800	0.82%	\$ 463.82		463.82
2	Bailey	10,982,448	0.22%	\$ 125.14		
3	Bartley Woods WSC	75,125,560	1.51%	\$ 856.05		
4	Bells	54,441,900	1.09%	\$ 620.36		
5	Bois d'Arc MUD	65,322,000	1.31%	\$ 744.34		744.34
6	Collinsville	87,437,900	1.76%	\$ 996.35		996.35
7	Denison	76,170,000	1.53%	\$ 867.96		867.96
8	Desert WSC	53,243,500	1.07%	\$ 606.71		606.71
9	Dial WSC	13,684,300	0.28%	\$ 155.93		155.93
10	Dodd City	30,459,831	0.61%	\$ 347.09		
11	Dorchester	73,413,000	1.48%	\$ 836.54		836.54
12	Eco Resources	6,430,700	0.13%	\$ 73.28		*
13	Ector	31,212,000	0.63%	\$ 355.66		355.66
14	Gober MUD	13,895,000	0.28%	\$ 158.33		158.33
15	Gunter	63,009,000	1.27%	\$ 717.99		717.99
16	Honey Grove	111,541,000	2.24%	\$ 1,271.01		1,271.01
17	Howe	98,382,100	1.98%	\$ 1,121.06		1,121.06
18	Kentuckytown WSC	127,140,000	2.56%	\$ 1,448.76		1,448.76
19	Ladonia	54,567,795	1.10%	\$ 621.80		621.80
20	Lannius MUD	2,939,681	0.06%	\$ 33.50		33.50
21	Lattimore Materials Co.	1,919,262	0.04%	\$ 21.87		*
22	Leonard	81,896,000	1.65%	\$ 933.20		933.20
23	Luella SUD	130,231,000	2.62%	\$ 1,483.98		1,483.98
24	Luminant Valley Steam Electric Plant	26,084,270	0.52%	\$ 297.23		
25	Marilee SUD	205,902,337	4.14%	\$ 2,346.25		2,346.25
26	Monarch Utilities	146,272,100	2.94%	\$ 1,666.77		1,666.77
27	Northwest Grayson WCID #1	53,930,000	1.08%	\$ 614.53		614.53
28	Oak Creek Mobile Village	1,735,000	0.03%	\$ 19.77		
29	Pink Hill WSC	73,694,000	1.48%	\$ 839.74		*
30	Pottsboro	13,998,510	0.28%	\$ 159.51		159.51
31	Randolph WSC	9,432,900	0.19%	\$ 107.49		107.49
32	Ravenna-Nunlee WSC	17,901,050	0.36%	\$ 203.98		
33	Sadler	12,470,900	0.25%	\$ 142.11		142.11
34	Savoy	27,329,400	0.55%	\$ 311.42		311.42
35	Semgas, LP	6,395,000	0.13%	\$ 72.87		
36	Sheppard AFB	2,415,900	0.05%	\$ 27.53		
37	Sherman	1,615,100,000	32.46%	\$ 18,404.05		18,404.05
38	South Grayson WSC	232,419,000	4.67%	\$ 2,648.41		2,648.41
39	Southmayd	17,118,479	0.34%	\$ 195.06		195.06
40	Southwest Fannin SUD	202,536,900	4.07%	\$ 2,307.91		2,307.91
41	Starr WSC	83,906,800	1.69%	\$ 956.12		956.12
42	Tioga	47,636,260	0.96%	\$ 542.81		542.81
43	Tom Bean	69,706,219	1.40%	\$ 794.30		797.30
44	Trenton	40,624,100	0.82%	\$ 462.91		*
45	Two Way SUD	187,973,000	3.78%	\$ 2,141.95		2,141.95
46	Van Alstyne	123,436,000	2.48%	\$ 1,406.55		1,406.55
47	West Leonard WSC	54,325,200	1.09%	\$ 619.04		619.04
48	White Shed WSC	83,306,400	1.67%	\$ 949.28		949.28
49	Whitesboro	187,740,700	3.77%	\$ 2,139.30		2,139.30
50	Whitewright	90,490,000	1.82%	\$ 1,031.13		1,031.13
51	Windom	14,381,600	0.29%	\$ 163.88		163.88
52	WSWS Co.	23,493,858	0.47%	\$ 267.71		267.71
Total GW Production		4,975,903,660	100.00%	\$ 56,700.37	52,755.29	DUE: \$3,945.08

ATTACHMENT VIII

**Lone Star
Groundwater Conservation District**

DISTRICT BYLAWS

**SECTION 1.
DISTRICT CREATION, PURPOSE & POWERS**

1.1 District Creation and Purpose.

The Lone Star Groundwater Conservation District (the "District") was created under the authority of Section 59, Article XVI, of the Texas Constitution and in accordance with Chapter 36 of the Texas Water Code by the 77th Texas Legislature with the Act of June 16, 2001, 77th Leg., R.S., ch. 1321, §1, 2001 Tex. Gen. Laws 3246 ("the District Act"), as a governmental agency and a body politic and corporate. The District was created to serve a public use and benefit, and is essential to accomplish the objectives set forth in Section 59, Article XVI, of the Texas Constitution. The District's boundaries are coextensive with the boundaries of Montgomery County, and all lands and other property within these boundaries will benefit from the works and projects that will be accomplished by the District.

1.2 Powers of the District.

Except as otherwise specified by the District Act, the District has all of the rights, powers, privileges, authority, functions, and duties provided by the general laws of this state, including Chapter 36 of the Texas Water Code, applicable to groundwater conservation districts created under Section 59, Article XVI, of the Texas Constitution.

SECTION 2.
THE BOARD

2.1 Purpose of the Board.

The Board was created to shape policy and regulate the withdrawal of groundwater within the District in order to provide for the conservation, preservation, protection, recharging, and prevention of waste of District groundwater, as well as to exercise its rights, powers, and duties in a manner that will effectively and expeditiously accomplish the purposes of the Act creating the District, Chapter 36 of the Texas Water Code, and Section 59, Article XVI, of the Texas Constitution. The Board's responsibilities include, but are not limited to, the adoption and enforcement of reasonable rules, policies, permits, orders, and a management plan.

2.2 Board of Directors.

- (a) The District is governed by the Board, which is comprised of nine appointed Directors. An appointee must be at least 18 years of age and a resident of the District to be qualified to serve as a Director. Additionally, each appointee must qualify to serve as a Director in the manner provided under Section 36.055 of the Texas Water Code. A person who so qualifies to serve as a Director on the Board is thereby entitled to participate in all votes relating to the business of the District regardless of any common law doctrine or any statutory conflicts of interest, incompatibility, or similar provision to the contrary.
- (b) As set forth under the District Act, Directors serving on the District's Board serve staggered four-year terms. The Directors comprising the Board are appointed by the following "persons":
1. the Commissioners Court of Montgomery County shall appoint two Directors;
 2. the Board of Directors of the Montgomery County Soil and Water Conservation District shall appoint one Director;
 3. the Board of Directors of the San Jacinto River Authority shall appoint one Director;
 4. the Mayor of the City of Conroe shall appoint one Director;
 5. the mayors of all of the incorporated municipalities, other than the City of Conroe, located in whole or in part in Montgomery County, shall jointly appoint one Director;
 6. the Board of Trustees of the Woodlands Joint Powers Agency shall appoint one Director;
 7. the boards of directors of all the municipal utilities districts located in whole or in part in Montgomery County that are not members of the Woodlands Joint Powers Agency and the district boundaries of which are located primarily to the east of Interstate Highway 45 jointly shall appoint one Director; and

8. the boards of directors of all the municipal utilities districts located in whole or in part in Montgomery County that are not members of the Woodlands Joint Powers Agency and the district boundaries of which are located primarily to the west of Interstate Highway 45 jointly shall appoint one Director.
- (c) Directors shall submit their appointments not later than the second Monday in January of odd-numbered years. Not later than the 60 days before that date, the General Manager of the District shall mail written notice that appointments are due to each person designated in Subsection (b) of this Section to make appointments in that particular year. Regular terms of office for appointed Directors begin on February 1 of odd-numbered years and terminate on January 31 of the odd-numbered years that are four years later.
 - (d) Appointment of Directors shall follow the requirements set forth under Section 13 of the District Rules.
 - (e) If there is a vacancy on the Board, the appropriate person designated under Subsection (b) of this Section shall appoint an interim Director to serve the remainder of the term. A Director serves on the Board until their successor has qualified for the Directorship under Subsection (a) of this Section.
 - (f) Each odd-numbered year at its regular February meeting, or at its next regular meeting if there is no February meeting, the Board shall select one of its Directors to serve as President to preside over Board meetings and proceedings, one to serve as Vice-President to preside in the absence of the President, another to serve as Secretary to keep a true and complete account of all meetings and proceedings of the Board, and a last Director to serve as Treasurer.
 1. The President is the chief executive officer of the District, presides at all meetings of the Board, and shall execute all documents on behalf of the District. The Vice-President shall act as President in case of the absence or disability of the President, except as set forth in Subsection (g) of this Section. The Secretary is responsible for seeing that all records and books of the District are properly kept and shall attest the President's signature on all documents. The Treasurer ensures all financial policies of the District are followed and shall serve as chairperson of the Budget/Finance Committee.
 2. The Board may appoint other Directors, the General Manager, or any employee as an assistant or Assistant Secretary to assist the Secretary, and any such person shall be entitled to certify as to the authenticity of any record of the District, including but not limited to all proceedings relating to bonds, contracts, or indebtedness of the District.
 - (g) In the event an officer of the Board vacates his/her position or resigns or becomes unable to serve as an officer under Subsection (f), the Board shall select another Director to serve the remainder of the unexpired term of such officer. If the Board selects a Director

who holds another office at the time of the vacancy to fill the unexpired term, the Board shall select another Director to serve the remainder of the unexpired term of such second officer.

2.3 Notice of Appointment, Sworn Statement, Oath of Office, and Bond.

- (a) Within 30 days after the appointment of any Director, the District shall notify the Executive Director of the Texas Commission on Environmental Quality of the name and mailing address of the Director chosen and the date the Director's term of office expires. The Executive Director shall provide forms to the District for such purposes.
- (b) As soon as practicable after a Director is appointed, that Director shall make the sworn statement prescribed for public officers in Section 1, Article XVI, of the Texas Constitution.
- (c) As soon as practicable after a Director has made the sworn statement, and before beginning to perform the duties of office, that Director shall take the oath of office prescribed for public officers in Section 1, Article XVI, of the Texas Constitution.
- (d) Before beginning to perform the duties of office, each Director shall execute a bond for \$10,000 payable to the District and conditioned on the faithful performance of that Director's duties. All bonds of the Directors shall be approved by the Board and paid for by the District.
- (e) The sworn statement, oath, and bond shall be filed with the District and retained in its records. A duplicate of the original oath shall also be filed with the Texas Secretary of State within 10 days after its execution, but need not be filed before the new Director begins to perform the duties of office.

2.4 Fees of Office; Reimbursement.

- (a) Except as provided under Subsection (d) of this Section, Directors are entitled to receive fees of office of not more than \$150 a day for each day the director spends performing the duties of a Director, not to exceed \$9,000 a year as set forth in Section 36.060(a) of the Texas Water Code.
 - 1. "Performing the duties of a Director" means substantive performance of the management or business of the District, including participation in board and committee meetings and other activities involving the substantive deliberation of District business and in pertinent educational programs.
 - 2. "Performing the duties of a Director" does not include routine or ministerial activities such as the execution of documents, self-preparation for meetings, or other activities requiring a minimal amount of time.
- (b) In addition to the aforementioned fees, each Director is also entitled to receive reimbursement of actual expenses reasonably and necessarily incurred while engaging in activities on behalf of the District.

- (c) Any District official desiring reimbursement for travel expenditures shall present a verified statement thereof to the District, together with all supporting receipts and invoices. These expenses shall be submitted to the District's bookkeeper, and a check for payment of same shall be approved.
- (d) A Director who holds a civil office of emolument and who is prohibited under Section 40, Article XVI, Texas Constitution, from holding or exercising another civil office of emolument at the same time shall not be entitled to receive a fee of office as a Director of the District. However, such a Director shall be entitled to reimbursement of actual expenses reasonably and necessarily incurred while engaging in activities on behalf of the District, as set forth under Subsection (b) of this Section.

2.5 Policies.

- (a) Subject to the laws governing the District, the Board shall adopt the following in writing:
 - 1. a code of ethics for Directors as well as other District officers, employees, or any other persons engaged in the handling of investments for the District;
 - 2. a policy relating to travel expenditures;
 - 3. a policy relating to District investments which ensures that:
 - a. purchases and sales of investments are initiated by authorized individuals, conform to investment objectives and regulations, and are properly documented and approved; and
 - b. periodic review is made of District investments to evaluate investment performance and security;
 - 4. policies and procedures for the selection, monitoring, reviewing, and evaluation of professional services contracted for or otherwise utilized by the District; and
 - 5. policies that ensure a better use of management information, including:
 - a. budgets for use in planning and controlling costs;
 - b. an audit or finance committee of the Board; and
 - c. uniform reporting requirements that use "Audits of State and Local Governmental Units" as a guide on audit working papers and that uses "Governmental Accounting and Financial Reporting Standards."
 - 6. The State Auditor may audit the financial transactions of the District if the State Auditor determines such action is necessary.

2.6 Meetings.

- (a) The Board may hold a regular meeting each month as the Board may establish from time to time by resolution. At the request of the President, or by written request of at least three members, the Board may hold special meetings. All Board meetings shall be held in accordance with the Texas Open Meetings Act. To the extent necessary for orderly conduct of proceedings, the guidelines of "Parliamentary Procedure at a Glance," New Edition, by O. Garfield Jones, 1971 revised edition, or as amended, may be followed.
- (b) From time to time and as may be necessary, the Board may hold work sessions to discuss and evaluate issues in such detail as to require open and free discussion not normally possible in regular Board meetings. During work sessions of the Board, no public comment will be heard, unless specifically requested by a Director and recognized by the Board President. Public comment may be made at the time the item(s) is up for discussion at a regular Board Meeting.
- (c) A majority of the membership of the Board constitutes a quorum for any meeting, and a concurrence of a majority of the entire membership of the Board is sufficient for transacting any business of the District.
- (d) Notice of meetings of the Board shall be given as set forth in the Open Meetings Act, Chapter 551, Texas Government Code.

2.7 Committees.

The President may establish and designate Directors for advisory committees and shall appoint the committee chairs for formulation of policy recommendations to the Board or for such other purposes as the President may designate. To the extent necessary for orderly conduct of proceedings, the guidelines of "Parliamentary Procedure at a Glance," New Edition, by O. Garfield Jones, 1971 revised edition, or as amended, may be followed. Committee members serve at the pleasure of the President.

2.8 Ex Parte Communications.

A Board member may not communicate ex parte with other members of the Board if such communication would violate state law.

Reserved for Expansion

SECTION 3.
DISTRICT STAFF

3.1 General Manager.

- (a) The Board may employ or contract with a person to perform those services as General Manager for the District as the Board may from time to time specify. The General Manager shall have full authority to manage and operate the affairs of the District, subject only to orders of the Board.
- (b) The Board may delegate to the General Manager the authority to employ all persons necessary for the proper handling of the business and operations of the District and to determine the compensation to be paid all employees other than the General Manager.
- (c) A Director may be employed as General Manager of the District. The compensation of a General Manager who also serves as a Director shall be established by the other Directors.
- (d) The person employed by the Board as General Manager shall be the chief administrative officer of the District and shall have full authority to manage and operate the affairs of the District, subject only to the direction given by the Board through policies and resolutions adopted by it. At least annually, the Board shall determine the compensation to be paid to the General Manger and review the actions and performance of the General Manager to determine how the General Manager has fulfilled his responsibilities and whether additional responsibilities should be delegated to him.
- (e) In the absence of a General Manager, the President shall exercise all of the duties delegated to the General Manager under the Rules of the District.

3.2 Delegation of Authority.

The General Manager may delegate his or her administrative duties as may be necessary to effectively and expeditiously accomplish his duties, provided, however, that no such delegation shall ever relieve him of responsibilities which are ultimately his under the Act, Rules, or Board orders.

SECTION 4.
MANAGEMENT OF DISTRICT

4.1 Management of District.

- (a) The Board shall be responsible for the management of all the affairs of the District. The District shall employ or contract with all persons, firms, partnerships, corporations, or other entities, public or private, deemed necessary by the Board for the conduct of the affairs of the District, including, but not limited to, engineers, attorneys, financial advisors, operators, bookkeepers, tax assessors and collectors, auditors, and administrative staff.
- (b) The Board shall set the compensation and terms for consultants.
- (c) In selecting attorneys, engineers, auditors, financial advisors, or other professional consultants, the District shall follow the procedures provided in the Professional Services Procurement Act, Subchapter A, Chapter 2254, Texas Government Code.
- (d) The Board shall require any officer, employee, or consultant who collects, pays, or handles any funds of the District to furnish good and sufficient bond, payable to the District, in an amount determined by the Board to be sufficient to safeguard the District. The bond shall be conditioned on the faithful performance of that person's duties and on accounting for all funds and property of the District. Such a bond shall be signed or endorsed by a surety company authorized to do business in the State of Texas.
- (e) The Board may pay a premium on surety bonds required of officials, employees, or consultants of the District out of any available funds of the District, including proceeds from the sale of bonds.
- (f) The Board may adopt Bylaws to govern the affairs of the District to perform its purposes, and amend them from time to time. The Board may, by resolution, authorize the General Manager or other employee to execute documents on behalf of the District.
- (g) The Board shall also have the right to purchase all materials, supplies, equipment, vehicles, and machinery needed by the District to conduct its affairs.

4.2 Annual Report.

- (a) At fiscal year end the President and/or General Manager shall report to the Board on the status of the District and its programs. The report shall include at least the following:
 - 1. the status of the Aquifer and the District's programs to protect and conserve the Aquifer;
 - 2. a financial report, including a report from the Board's audit committee, and a report on the performance and security of District investments;

3. a review and evaluation of professional services rendered to the District during the year;
4. a report on the status of any capital projects of the Districts; and
5. an evaluation of the District's performance in light of long range plans developed pursuant to Section 36.1071 of the Texas Water Code.

4.3 Setting Fee Schedule.

- (a) The Board, by resolution, shall adopt a fee schedule to apply to all applications, registrations, inspections, and permits that are issued, renewed, or amended as well as fees for other services the District performs or fees to cover charges incurred by the District no later than July 15th of each year.
- (b) The District may amend the fee schedule from time to time following a public hearing.

4.4 Fiscal Year.

The District's fiscal year shall begin on the first day of January.

SECTION 5.
DISTRICT

5.1 District Address.

The District's mailing address is Post Office Box 2467, Conroe, Texas 77305-2467. The District's office is located at 207 W Phillips Street, Suite 300, within the limits of the City of Conroe, Montgomery County, Texas. Such address and office may be changed from time to time by resolution of the Board.

5.2 Minutes and Records of the District.

- (a) The Board shall keep a complete account of all its meetings and proceedings and shall preserve its minutes, contracts, records, notices, accounts, receipts, and other records in a safe place.
- (b) The records of the District are the property of the District and are subject to Chapter 552, Government Code.
- (c) The preservation, storage, destruction, or other disposition of the records of the District is subject to the requirements of Chapter 201, Local Government Code, and rules adopted thereunder.
- (d) All documents, reports, records, and minutes of the District shall be available for public inspection and copying in accordance with the Public Information Act. Upon written application of any person, the District will furnish copies of its public records. Persons who are furnished copies may be assessed a copying charge, pursuant to policies established by the General Manager. A list of the charges for copies will be furnished by the District.

5.3 Certified Copies.

Requests for certified copies must be made in writing. Certified copies shall be made under the direction of the General Manager and shall be affixed with the seal of the District. Persons who are furnished certified copies may be assessed a certification charge, in addition to the copying charge, pursuant to policies established by the General Manager.

5.4 Office Hours.

The regular office hours of the District shall be 8:00 a.m. to 5:00 p.m., Monday through Friday, except for District holidays as determined by the General Manager or the Board.

5.5 Official Seal.

By resolution, the Board may adopt an official seal for the District to be used on permits and other official documents of the District.

5.6 Contracts.

- (a) The District shall contract, and be contracted with, in the name of the District.

- (b) The District may purchase property from any other governmental entity by negotiated contract without the necessity of securing appraisals or advertising for bids.

5.7 Conflicts of Interest.

Section 36.058, Texas Water Code, relating to conflicts of interest, does not apply to the District.

APPENDIX A

BY-LAWS REVISION/AMENDMENT DATES

Adopted – 10/15/02	
Amended – 10/14/03	Inserted 2.4 (a) 1 & 2
Amended – 10-12-04	Inserted 2.2 (g)/ revised 2.2 (f)
Amended – 02-08-05	Revised 2.2 (f) 1&2, revised 5.1
Amended – 03-14-06	Revised 2.3 – update agency name to TCEQ
Amended – 03-14-06	Revised 2.4 – replace per diem to fees of office
Amended – 03-14-06	Revised 4.3 – est. 7/15 annually to adopt fee schedule
Amended – 03-14-06	Deleted redundant wording already included in 5.7
Amended – 03-14-06	Revised 2.8 wording to be in accordance with amended District rules
Amended – 09-08-09	Revised 2.4 – removed language that capped per diem at \$3,300/year.