

**RESOLUTION TO ADOPT DESIRED FUTURE CONDITIONS**

**FOR AQUIFER(S) IN GROUNDWATER MANAGEMENT AREA 12**

THE STATE OF TEXAS

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§  
§  
§  
§

GROUNDWATER MANAGEMENT AREA 12

GROUNDWATER CONSERVATION DISTRICTS

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

**WHEREAS**, the groundwater conservation districts located wholly or partially within Groundwater Management Area 12 (“GMA 12”), as designated by the Texas Water Development Board, as of the date of this resolution are as follows: Mid-East Texas Groundwater Conservation District, Brazos Valley Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, Lost Pines Groundwater Conservation District, and Fayette County Groundwater Conservation District (collectively hereinafter “the GMA 12 Districts”);

**WHEREAS**, the GMA 12 Districts are each governmental agencies and bodies politic and corporate operating under Chapter 36, Water Code;

**WHEREAS**, the GMA 12 Districts desire to fulfill the requirements of Texas Water Code § 36.108 through mutual cooperation and joint planning efforts;

**WHEREAS**, the GMA 12 Districts have had numerous public meetings, including a Stakeholder meeting for the specific purpose of receiving comments and input from stakeholders within GMA 12, at which they have engaged in joint planning efforts to promote more comprehensive management of the aquifers located in whole or in part in Groundwater Management Area 12;

**WHEREAS**, the GMA 12 Districts may establish different desired future conditions for: (1) each aquifer, subdivision of an aquifer, or geologic strata located in whole or in part within the boundaries of GMA 12; or (2) each geographic area overlying an aquifer in whole or in part or subdivision of an aquifer within the boundaries of GMA 12;

**WHEREAS**, the GMA 12 Districts recognize that GMA 12 includes a geographically and hydrologically diverse area with a variety of land uses and a diverse mix of water users;

**WHEREAS**, the GMA 12 Districts have considered the relevant aquifers, subdivisions thereof, and geologic strata located in whole or in part within the boundaries of GMA 12, and

[Type text]

have further considered the hydrogeologic characteristics of the same, as well as the various uses and users of groundwater produced from such aquifers, subdivisions, and strata;

**WHEREAS**, GMA 12 Districts held a meeting, which was open to the public, at 10:00 a.m. on Wednesday, May 26, 2010, in the Milano Community and Civic Center located at 120 West Avenue E, Milano, Texas;

**WHEREAS**, notice of said May 26, 2010, meeting was properly given by each and all of the GMA 12 Districts in accordance with Chapter 36, Water Code, and Chapter 551, Government Code, and a true and correct copy of each of the notices has been attached hereto in Appendix A and is incorporated herein for all purposes;

**WHEREAS**, at least two-thirds of the GMA 12 Districts had a voting representative in attendance at said May 26, 2010, meeting in accordance with Section 36.108, Texas Water Code; to wit, the following districts had a voting representative in attendance at said meeting: Mid-East Texas Groundwater Conservation District, Brazos Valley Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, Lost Pines Groundwater Conservation District, and Fayette County Groundwater Conservation District;

**WHEREAS**, it is the intent and purpose of the GMA 12 Districts by adoption of this resolution to fulfill the requirements of Texas Water Code § 36.108, including establishing “desired future conditions for the relevant aquifers” within GMA 12 for the specific aquifer(s) and desired future conditions described under “Appendix B” attached hereto and incorporated herein for all purposes;

**WHEREAS**, at said May 26, 2010, meeting, after a motion was duly made and seconded that the GMA 12 Districts adopt this resolution establishing desired future conditions for the aquifer(s) described under “Appendix B”, the motion prevailed by the following vote:

Hooper 4 Ayes, 1 Nay;

Simsboro 4 Ayes, 1 Nay;

Carrizo 4 Ayes, 1 Nay;

Calvert Bluff 4 Ayes, 1 Nay;

Queen City 4 Ayes, 1 Nay;

Sparta 4 Ayes, 1 Nay;

**WHEREAS**, in establishing these desired future conditions for the aquifer(s) set forth under Appendix B, the GMA 12 Districts have considered all of the criteria required by Chapter 36 of the Texas Water Code and other information, including without limitation groundwater

[Type text]

availability models and runs of those models to determine the effects of various conditions and parameters, hydrogeologic reports available for the relevant aquifers, and other technical data and information;

**WHEREAS**, many of the groundwater availability models, runs, hydrogeologic reports, and other technical data and information considered and determined to be reliable sources of information by the GMA 12 Districts in establishing these desired future conditions for the aquifer(s) have been attached hereto or referenced in the documents attached hereto under Appendix B;

**WHEREAS**, in establishing these desired future conditions for the aquifer(s) set forth under Appendix B, the GMA 12 Districts have considered the uses and conditions of the aquifer(s) in different geographic areas within GMA 12 and what the effects and impacts of adopting such desired future conditions will have upon the condition of the aquifer(s) and the uses and users of groundwater from the aquifer(s) both now and in the future;

**WHEREAS**, after considering such anticipated effects and impacts these desired future conditions will have on the aquifer(s), uses, and users of groundwater, and considering all of the other criteria required by Chapter 36 of the Texas Water Code, including without limitation the groundwater resource management duties and responsibilities of the GMA 12 Districts individually and collectively, the GMA 12 Districts have determined that the desired future conditions for the aquifer(s) set forth under Appendix B are reasonable;

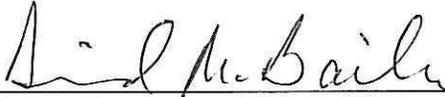
**NOW, THEREFORE, BE IT RESOLVED BY THE AUTHORIZED VOTING REPRESENTATIVES OF THE GMA 12 DISTRICTS AS FOLLOWS:**

1. The above recitals are true and correct.
2. The authorized voting representatives of the GMA 12 Districts hereby establish the desired future conditions of the aquifer(s) as set forth in Appendix B by the vote reflected in the above recitals.
3. The GMA 12 Districts and their agents and representatives, individually and collectively, are further authorized to take any and all actions necessary to implement this resolution.
4. The desired future conditions of the aquifer(s) adopted by the GMA 12 Districts and attached hereto shall be effective immediately and shall continue in effect until amended, superseded, or repealed.

AND IT IS SO ORDERED.

PASSED AND ADOPTED on this 26th day of May, 2010.

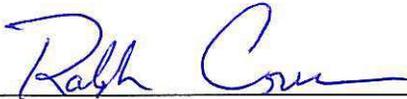
ATTEST:



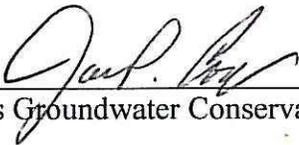
Mid-East Texas Groundwater Conservation District



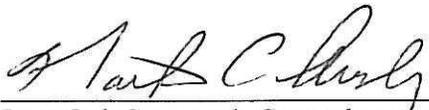
Fayette County Groundwater Conservation District



Brazos Valley Groundwater Conservation District



Lost Pines Groundwater Conservation District



Post Oak Savannah Groundwater Conservation District

ATTACHMENTS

Appendix A: Copies of notices of May 26, 2010, meeting

Appendix B: Adopted Desired Future Conditions and supporting information

[Type text]

**NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12**

May 26, 2010 – 10:00 a.m.

Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

**AGENDA**

Notice is hereby given that the groundwater conservation districts located wholly or partially within Groundwater Management Area (GMA) 12, as designated by the Texas Water Development Board, consisting of the Post Oak Savannah Groundwater Conservation District (GCD), Fayette County GCD, Lost Pines GCD, Mid-East Texas GCD, and Brazos Valley GCD, will hold a Joint Planning meeting at 10 a.m. on Wednesday, May 26, 2010, in the Milano Community and Civic Center, located at 120 West Ave. E, Milano, Texas. The meeting will be open to the public.

**The subjects to be discussed or considered, or upon which any formal action may be taken, are as listed below. Items may or may not be taken in the same order as shown on this meeting notice.**

1. Welcome and introductions
2. Minutes of February 11, 2010 GMA 12 Meeting
3. Presentation of proposed desired future conditions for aquifers and formations in GMA 12
4. Public hearing and possible action to adopt desired future conditions for the aquifers and formations in GMA 12 as described above.
5. Adjourn

Signed this 14th day of May, 2010.



Elaine Gerren, Administrative Assistant, POSGCD

Filed 17th day of May  
in 2010, At 10:30AM  
BARBARA VANSA  
County Clerk, Milam County, Texas  
By [Signature]  
Deputy

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GROUNDWATER MANAGEMENT AREA 12**

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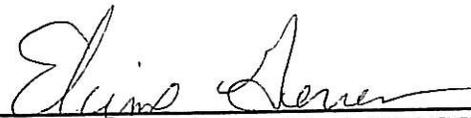
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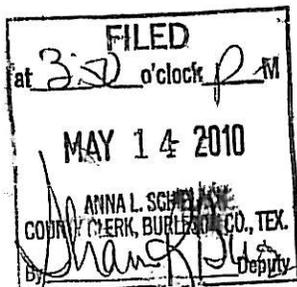
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Elaine Gerren, Administrative Assistant, POSGCD



Anna L. Scheele,  
by: [Signature] Deputy

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**Milano Community and Civic Center**

**120 West Ave. E**

**Milano, Texas**

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Elaine Gerren, Administrative Assistant, POSGCD

\_\_\_\_\_  
FT RPC 5/14/2010  
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(Posted by Brazos Valley GCD)

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**NOTICE OF MEETING**  
**GROUNDWATER MANAGEMENT AREA 12**

May 26, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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**AGENDA**

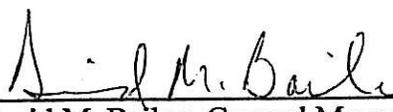
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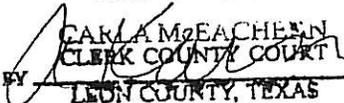
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5. Adjourn

Signed this 17th day of May, 2010.

  
\_\_\_\_\_  
David M. Bailey, General Manager  
Mid-East Texas Groundwater Conservation Dist.

**FILED**  
9:57a  
MAY 17 2010  
CARLA McEACHEN  
CLERK COUNTY COURT  
BY   
LEON COUNTY, TEXAS

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**GROUNDWATER MANAGEMENT AREA 12**  
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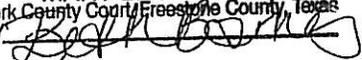
Signed this 17th day of May, 2010.



\_\_\_\_\_  
David M. Bailey, General Manager  
Mid-East Texas Groundwater Conservation Dist.

**FILED FOR RECORD**  
At 1:15 o'clock P M

**MAY 17 2010**

MARY LYNN WHITE  
Clerk County Court, Freestone County, Texas  
BY 

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**GROUNDWATER MANAGEMENT AREA 12**  
**May 26, 2010 – 10:00 a.m.**  
**Milano Community and Civic Center**  
**120 West Ave. E**  
**Milano, Texas**

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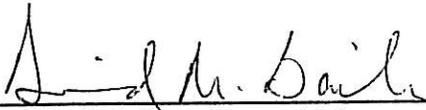
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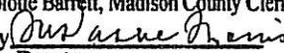
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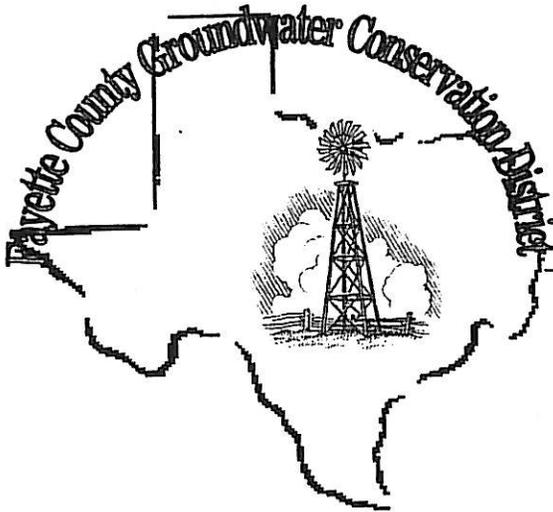
Signed this 17th day of May, 2010.

  
\_\_\_\_\_  
David M. Bailey, General Manager  
Mid-East Texas Groundwater Conservation Dist.

**COPY**  
**Original Filed**  
At 8:05 o'clock 4. M.

**MAY 18 2010**

Charlotte Barrett, Madison County Clerk  
By   
Deputy  
**Copies NOT Compared**



255 Svoboda Lane, Room 115  
La Grange, Texas 78945  
Telephone: (979) 968-3135  
Fax: (979) 968-3194

COPY  
THE ORIGINAL INSTRUMENT WAS  
FILED IN FAYETTE COUNTY, TEXAS ON  
May 11, 2010, at  
8:45  
a.m.  
S.C.

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**NOTICE OF MEETING**  
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May 26, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
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**Directors:**

Robert Leer - Precinct 1  
Charles Richter - Precinct 3  
Leo Wick, Sr - At Large

L. J. Calley - Precinct 2  
Leo Kainer - Precinct 4

NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12

May 26, 2010 - 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

AGENDA

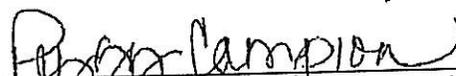
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5. Adjourn

Date:

May 21, 2010

  
Peggy Champion, Administrative Assistant  
Lost Pines GCD

FILED

MAY 21 2010 10:08A

Rosa Pietsch  
Bastrop County Clerk

m

“APPENDIX B” to the Resolution of May 26, 2010 by GMA 12 to adopt Desired Future  
Conditions for the Aquifers within GMA 12

Nathan Ausley asked each of the GCDs to read their Desired Future Conditions into the record of the meeting. These were entered as follows:

- a. Brazos Valley GCD- Ralph Crum presented the list of DFCs for BVGCD- The DFCs for BVGCD are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2000 average hydraulic head and are as follows: Sparta 15 feet, Queen City 12 feet, Carrizo 47 feet, Calvert Bluff 106 feet, Simsboro 270 feet, and Hooper 170 feet.
- b. Fayette County GCD- David Van Dresar presented the list of DFCs for FCGCD- The DFCs for FCGCD are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2000 average hydraulic head and are as follows: Sparta 60 feet with 5 feet limit in the outcrop, Queen City 60 feet with 5 feet limit in the outcrop, Carrizo 60 feet, Colorado Alluvium 30 feet, Yegua-Jackson 50 feet with 5 feet limit in the outcrop.
- c. Lost Pines GCD- Joe Cooper presented the list of DFCs for Lost Pines GCD- The DFCs for LPGCD are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2000 average hydraulic head and are as follows: Sparta 10 feet, Queen City 13 feet, Carrizo 47 feet, Simsboro 237 feet, Calvert Bluff 99 feet, and Hooper 129 feet.
- d. Mid-East Texas GCD- David Bailey presented the list of DFCs for METGCD- The DFCs for METGCD are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2000 average hydraulic head and are as follows: Sparta 0 feet, Queen City 0 feet, Carrizo 55 feet, Simsboro 115 feet, Calvert Bluff 70 feet, and Hooper 95 feet.
- e. Post Oak Savannah GCD- Nathan Ausley presented the list of DFCs for POSGCD- The DFCs for POSGCD are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2000 average hydraulic head and are as follows: Sparta 30 feet, Queen City 40 feet, Carrizo 70 feet, Simsboro 300 feet, Calvert Bluff 150 feet, and Hooper 180 feet.

**APPENDIX B  
GMA 12 DESIRED FUTURE CONDITIONS**

GMA 12 member Groundwater Conservation Districts (GCDs) submitted Desired Future Conditions (DFCs) as average drawdowns that occur between January 2000 and December 2059. Table B-1 lists the final set of DFCs submitted by each district for the Sparta, Queen City, Carrizo, Calvert Bluff, Simsboro, and Hooper Aquifers.

**Table B-1 Adopted Desired Future Conditions for GMA 12**

GROUNDWATER CONSERVATION DISTRICT	AVERAGE AQUIFER DRAWDOWN (FT) MEASURED FROM JANUARY 2000 TO DECEMBER 2059					
	SPARTA	QUEEN CITY	CARRIZO	CALVERT BLUFF	SIMSBORO	HOOPER
BRAZOS VALLEY	15	12	47	106	270	170
FAYETTE COUNTY	60	60	60	-	-	-
LOST PINES	10	13	47	99	237	129
MID-EAST TEXAS	0	0	55	70	115	95
POST OAK SAVANNAH	30	40	70	150	300	180

**Table B-2 Calculated Average Drawdowns Based from a Predicted Simulation Using the Central Queen City and Sparta GAM and Pumping File Run GAM\_7A**

	Average Drawdown (ft) in Each Aquifer Calculated from the Start of Year 2000 to the Start of Year 2060					
	SPARTA	QUEEN CITY	CARRIZO	CALVERT BLUFF	SIMSBORO	HOOPER
BRAZOS VALLEY	13.7	12.3	47.9	108.8	269.1	175.7
FAYETTE COUNTY	59.1	58.7	59.6	126.5	219.6	171.6
LOST PINES	3.7	12.7	47.2	94.4	236.2	133.3
MID-EAST TEXAS	0.4	-3.2	52.5	66.9	113.3	95.4
POST OAK SAVANNAH	27.5	27.9	60.8	135.9	296.6	177.6

GMA 12 predicted future drawdown by using version 2.2 of the Central Queen City and Sparta GAM (Kelley and others, 2004). One reason that GMA 12 performed predictive simulation is to demonstrate that the DFCs are compatible and physically possible. Table B-2 presents average drawdowns simulated using the GAM and a MODFLOW pumping file created by GMA 12 and called Run GAM12\_7A. The pumping file Run GAM12\_7A was submitted to the TWDB under separate cover.

Kelley, V. A., Deeds, N. E., Fryar, D. G., and Nicot, J-P, 2004. Groundwater Availability Models for the Queen City and Sparta Aquifers, prepared for the Texas Water Development Board, Austin, Texas