



RECEIVED

AUG 30 2010

TWDB

August 26, 2010

Mr. J. Kevin Ward, Executive Administrator
Texas Water Development Board
P. O. Box 13231
Austin, TX 78711-3231

Dear Mr. Ward:

As Coordinator for Groundwater Management Area (GMA) 10, I want to inform you that GMA 10 has formally adopted Desired Future Conditions (DFCs) for the undifferentiated Trinity Aquifer within GMA 10 and for minor aquifers in Uvalde County of GMA 10.

After reviewing "*GTA Aquifer Assessment 10-06*" for the Trinity Aquifer in GMA 10, all groundwater conservation district (GCD) representatives in attendance, eight of the nine members of the Joint Coordinating Committee of GMA 10, voted unanimously on August 23, 2010, to adopt DFCs for the Trinity Aquifer in GMA 10 as follows:

- A regional average well drawdown during average recharge conditions that does not exceed 25 feet (including exempt and non-exempt well use), except as otherwise provided herein;
- For the Trinity Aquifer in the part of GMA-10 that is within the jurisdiction of Hays-Trinity GCD: regional average well drawdown during average recharge conditions of zero (0) feet (including exempt and non-exempt well use);
- For the Trinity Aquifer in the Uvalde county part of GMA-10: regional average well drawdown during average recharge conditions of no more than twenty (20) feet (including exempt and non-exempt well use.);
- Declare the Trinity Aquifer in the part of GMA-10 that is in the Trinity-Glenrose GCD as a non-relevant aquifer; and
- Request the TWDB to provide an official estimate of the Managed Available Groundwater, as defined by Chapter 36 of the Texas Water Code, that is consistent with achieving these DFCs.

Enclosed please find the following items related to the DFC adoption for the record:

- Copies of posted meeting notices for the August 23, 2010 meeting (Exhibit A);
- Minutes of the August 23, 2010 meeting (Exhibit B);
- Resolution No. 2010-10 with signatures of all attending GCD representatives (Exhibit C);
- Copy of "*GTA Aquifer Assessment 10-06*" (Exhibit D); and

As recommended by the Uvalde Underground Water Conservation District, all groundwater conservation district (GCD) representatives in attendance, eight of the nine members of the Joint Coordinating Committee of GMA 10, voted unanimously on August 23, 2010, to adopt a Desired Future Condition for



Mr. Ward – Page 2
August 26, 2010

the three minor aquifers in Groundwater Management 10 of a zero drawdown, including exempt and non-exempt use.

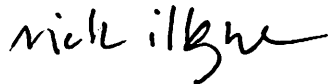
Also enclosed are the following items related to the DFC adoption for the record:

- Resolution No. 2010-11 with signatures of all attending GCD representatives (Exhibit E).

If there are any additional submission requirements necessary, please contact me at:

Edwards Aquifer Authority
1615 N. St. Mary's
San Antonio, TX 78215
Office phone (210) 222-2204
E-mail: rillgner@edwardsaquifer.org

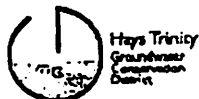
Respectfully,



Rick Illgner
Governmental Affairs Officer
Edwards Aquifer Authority

RI/em

Enclosures



Hays Trinity
Groundwater
Conservation
District

Accepted for Filing in:
Hays County
On: Aug 11, 2010 at 04:01P
By:
Lynn Curry

Notice of Groundwater Management Area # 10 Joint Planning Meeting

Date: Monday, August 23, 2010

Time: 11:30 am

Place: Conference Center of the Edwards Aquifer Authority

Located: 1616 N. St. Mary's, San Antonio, TX 78215

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1616 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
8. Meeting schedule post September 2010.
9. Adjournment of morning meeting.

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1616 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

The Board of Directors of the Hays Trinity Conservation District reserves the right to go into Executive Session at any time during the course of this meeting to discuss any of the matters listed on this agenda, as authorized by the Texas Open Meetings Act, Chapter 551, Government Code. No final action or decision will be made in Executive Session.

The Hays Trinity Groundwater Conservation District is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District office at 512-858-9253 at least 24 hours in advance if accommodation is needed.

This notice has been posted on a bulletin board at a place convenient to the public in the Hays County Courthouse and outside the main entrance to the District offices not less than three (3) days prior to the scheduled meeting in accordance with the provisions of the Texas Open Meetings Act, Chapter 551, Government Code.

Posted by: Rick D. Broun

Center Lake Business Park 14101 Hwy 290 W, Bldg. 100, Ste. #212, Austin, Texas 78737

Mail: P. O. Box 1648 Dripping Springs, TX 78620

E-mail: manager2@haysgroundwater.com Phone: 512-858-9253 Fax: 512-858-2384 website: haysgroundwater.com

Groundwater Management Area #10 Joint Planning Meeting**Edwards Aquifer Authority**

Phone (210) 222-2204

Fax (210) 222 -9869

NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

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7. Discussion of compliance monitoring activities for adopted DFCs within each district.
8. Meeting schedule post September 2010.
9. Adjournment of morning meeting.

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2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Came to hand and posted on a Bulletin Board in the Courthouse, Kinney County, Texas, on this, the ___ day of August, 2010 at 2:45 p.m.

Dora Elizabeth Sandral County
Deputy Clerk
Kinney County, TEXAS

NOTICE OF OPEN MEETINGS
Groundwater Management Area #10 Joint Planning Meetings

Monday, August 23, 2010 at 11:30 a.m.

Notice is given that an open meeting of Groundwater Conservation Districts that are located within the State of Texas Groundwater Management Area #10, with one or more members of the Board of Directors and/or its designated representative and/or staff of the **Barton Springs Edwards Aquifer Conservation District** in attendance, for purposes of discussing and/or conducting joint planning concerning desired future conditions, in compliance with Texas Water Code, Chapter 36.108. This meeting will be held on **Monday, August 23, 2010 at 11:30 am** at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

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6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
8. Meeting schedule post September 2010.
9. Adjournment of morning meeting.

Groundwater Management Area #10 Joint Planning Meeting

Monday, August 23, 2010 at 12:30 p.m.


Notice is given that an open meeting of Groundwater Conservation Districts that are located within the State of Texas Groundwater Management Area #10, with one or more members of the Board of Directors and/or its designated representative and/or staff of the **Barton Springs Edwards Aquifer Conservation District** in attendance, for purposes of discussing and/or conducting joint planning concerning desired future conditions, in compliance with Texas Water Code, Chapter 36.108. This meeting will be held on **Monday, August 23, 2010 at 12:30 pm** at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Came to hand and posted on a Bulletin Board in the Courthouse, Travis County, Texas, on this, the 12 day of August, 2010 at 1:38 p.m.




_____, Deputy Clerk
Travis County, TEXAS

1. 8. 2010

Please note:

The Barton Springs Edwards Aquifer Conservation District is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District office at 512-282-8441 at least 24 hours in advance if accommodation is needed.

FILED AND RECORDED

OFFICIAL PUBLIC RECORDS



Aug 12, 2010 01:37 PM

201080394

PEREZTA: \$3.00

Dana DeBeauvoir, County Clerk

Travis County TEXAS

Groundwater Management Area #10 Joint Planning Meeting

Edwards Aquifer Authority

Phone (210) 222-2204

Fax (210) 222 -9869

NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at **11:30 am** at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
8. Meeting schedule post September 2010.
9. Adjournment of morning meeting.



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At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.



Came to hand and posted on a Bulletin Board in the Courthouse, _____ County, Texas, on this, the ____ day of August, 2010 at _____ .m.

_____, Deputy Clerk

_____, County, TEXAS

FROM: FAX NO: 18332441472 Aug. 16 2010 01:12PM P1
Aug 16 2010 14:02 Trinity Glen Rose GCD 210.698.1159 p.2

Trinity Glen Rose Groundwater Conservation District
6335 Camp Bullis Rd. Suite #25 San Antonio, Texas 78257 (210) 698-1155 Fax (210) 698-1159

Groundwater Management Area Joint Planning Meeting

Monday August 23, 2010 11:30 A.M.

Notice is given that one or more members of the Board of Directors and/or their designated representatives and/or Staff of the Trinity Glenrose Groundwater Conservation District (TGRGCD) will attend a meeting of Groundwater Conservation Districts which are located within the State of Texas Groundwater Management Area #10 for purposes of discussing and/or conducting joint planning in compliance with the requirements of HB 1763, which was passed during the 2005 Texas Legislative Session. This meeting will be held at the Edwards Aquifer Authority Conference Center, Located at 1615 N. St. Mary's, San Antonio, Texas 78215 on Monday August 23, 2010 at 11:30 a.m. for the following purposes:

Agenda

- | | |
|---|---------------------------------------|
| 1. Call to Order. | Kendall County |
| 2. Public Comment. | DARLENE HERRIN |
| 3. Receipt of Posted Notices. | COUNTY CLERK |
| 4. Approval of August 4, 2010 Minutes. | On: 08/16/2010 1:17PM |
| 5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs. | By: Harriet F. Gerdenschraker, Deputy |
| 6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County. | |
| 7. Discussion of compliance monitoring activities for adopted DFCs within each district. | |
| 8. Meeting schedule post September 2010. | |
| 9. Adjournment of morning meeting. | |

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Posted at the TGRGCD office, TGRGCD Website and the Bexar County, Kendall County and Comal County Courthouses, on this, the 16 day of August 2010.


George Wissmann, Manager, Trinity Glen Rose Groundwater Conservation District

The Trinity Glen Rose Groundwater Conservation District is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District Representative at 210-219-3555 at least 24 hours in advance if accommodation is needed.

08/16/2010 16:42 FAX 0300013410 COMAL CNTY CLERK TRINITY GLEN ROS 0002/002
Aug 16 2010 14:00 Trinity Glen Rose GCD 210.698.1159 p. 2

Trinity Glen Rose Groundwater Conservation District
6335 Camp Bullis Rd. Suite #25 San Antonio, Texas 78257 (210) 698-1155 Fax (210) 698-1159

Groundwater Management Area Joint Planning Meeting

Monday August 23, 2010 11:30 A.M.

2010 AUG 16 PM 1:12
COMAL COUNTY CLERK

Notice is given that one or more members of the Board of Directors and/or their designated representatives and/or Staff of the Trinity Glenrose Groundwater Conservation District (TGRGCD) will attend a meeting of Groundwater Conservation Districts which are located within the State of Texas Groundwater Management Area #10 for purposes of discussing and/or conducting joint planning in compliance with the requirements of HB 1763, which was passed during the 2005 Texas Legislative Session. This meeting will be held at the Edwards Aquifer Authority Conference Center, Located at 1615 N. St. Mary's, San Antonio, Texas 78215 on Monday August 23, 2010 at 11:30 a.m. for the following purposes:

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6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Posted at the TGRGCD office, TGRGCD Website and the Bexar County, Kendall County and Comal County Courthouses, on this, the 16 day of August 2010.


George Wissmann, Manager, Trinity Glen Rose Groundwater Conservation District

The Trinity Glen Rose Groundwater Conservation District is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District Representative at 210-219-5555 at least 24 hours in advance if accommodation is needed.

Aug 16 2010 13:58

Trinity Glen Rose GCD



LT1-86-14181-1

Trinity Glen Rose Groundwater Conservation District
6335 Camp Bullis Rd. Suite #25 San Antonio, Texas 78257 (210) 698-1155 Fax (210) 698-1159

Groundwater Management Area Joint Planning Meeting

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LT2-0-0-1

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Docr 14161 Fee \$2.00
 08/18/2010 3:25PM # Pages :
 Filed & Recorded in the Official Public
 Records of BEXAR COUNTY
 GERARD RICKHOFF COUNTY CLERK

Groundwater Management Area #10 Joint Planning Meeting

Edwards Aquifer Authority

Phone (210) 222-2204

Fax (210) 222 -9869

NOTICE OF OPEN MEETINGS

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Came to hand and posted on a Bulletin Board in the Courthouse, _____ County, Texas, on this, the _____ day of August, 2010 at _____ .m.

_____, Deputy Clerk

_____ County, TEXAS

FILED this 16th day of Aug 20 10
10 40 A M
 NINA S. SELLS
 COUNTY CLERK CALDWELL COUNTY TEXAS
 BY Steve Page Deputy

Groundwater Management Area #10 Joint Planning Meeting

Edwards Aquifer Authority

Phone (210) 222-2204

Fax (210) 222 -9869

Accepted for Filing in:
Hays County
On: Aug 16, 2010 at 11:46A
By:
Rose Robinson

NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

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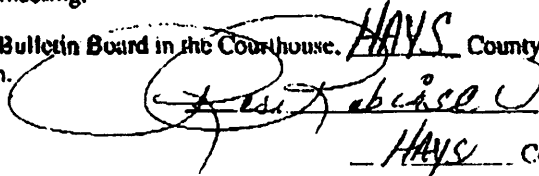
1. Call to Order.
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Came to hand and posted on a Bulletin Board in the Courthouse, HAYS County, Texas, on this, the 16th day of August, 2010 at 11:46A .m.


Deputy Clerk
HAYS County, TEXAS

Groundwater Management Area #10 Joint Planning Meeting

000897

Edwards Aquifer Authority

Phone (210) 222-2204

Fax (210) 222 -9869

NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
8. Meeting schedule post September 2010.
9. Adjournment of morning meeting.

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Came here and posted on a Bulletin Board in the Courthouse, _____ County, Texas, on this, the ____ day of August, 2010 at _____ m.

_____, Deputy Clerk

County, TEXAS

FILED FOR RECORD

10 AUG 19 AM 10:46

TERESA KIEL
COUNTY CLERK GUADALUPE COUNTY
BY 

*Contract was
NOT PREPARED*

Groundwater Management Area #10 Joint Planning Meeting

Edwards Aquifer Authority

Phone (210) 222-2204

Fax (210) 222 -9869

NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
8. Meeting schedule post September 2010.
9. Adjournment of morning meeting.

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Came to hand and posted on a Bulletin Board in the Courthouse, Medina County, Texas, on this, the 17th day of August, 2010 at 11:30 a.m.

POSTED IN MY OFFICE
LISA J. WERNETTE

AUG 17 '10 AM -11 30

COUNTY CLERK MEDINA CO

Groundwater Management Area #10 Joint Planning Meeting

Edwards Aquifer Authority

Phone (210) 222-2204

Fax (210) 222 -9869

NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
8. Meeting schedule post September 2010.
9. Adjournment of morning meeting.

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
3. Receipt of Posted Notices.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Came to hand and posted on a Bulletin Board in the Courthouse, _____ County, Texas, on this, the ____ day of August, 2010 at _____ .m.

_____, Deputy Clerk

_____ County, TEXAS

FILED
 17 day of AUG A. D. 2010
 at 10:01 o'clock A.M.
 ECHILLE C. HUTCHERSON
 County Clerk, Uvalde County, Texas
 K. BRADY GARRETT

**GMA-10 Joint Planning Committee
Meeting Minutes
August 23, 2010 (First Session)**

1. **Call to Order.** The meeting was called to order by Committee Coordinator Rick Illgner (EAA) at 11:31 am.
2. **Public Comment.** None
3. **Receipt of Public Notices.** A quorum of eight of the nine GMA-10 GCDs were present: Barton Springs/Edwards Aquifer Conservation District (BSEACD), Plum Creek GCD (PCGCD), Edwards Aquifer Authority (EAA), Medina Co. GCD (MCGCD), Uvalde Co. UWCD (UCUWCD), Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD (KCGCD); Guadalupe County GCD was not present. Posted meeting notices were received from all nine of the GCDs, including Guadalupe County GCD.
4. **Approval of August 4, 2010, Minutes.** Luana Buckner moved and Vic Hilderbran seconded approving the August 4, 2010, minutes as presented. There were no objections; therefore minutes were approved.
5. **Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and a schedule for the establishment of Trinity DFCs.** Motion was made by Kirk Holland and seconded by Luana Buckner to approve Resolution 2010 – 10 adopting DFCs for the Trinity Aquifer in Groundwater Management 10 as follows:
 - Adopt the following as the initial Desired Future Condition for the Trinity Aquifer throughout GMA-10, except as otherwise provided herein: *regional average well drawdown during average recharge conditions that does not exceed 25 feet (including exempt and non-exempt well use);*
 - Adopt the following as the initial Desired Future Condition for the Trinity Aquifer in the part of GMA-10 that is within the jurisdiction of Hays-Trinity GCD: *regional average well drawdown during average recharge conditions of zero (0) feet (including exempt and non-exempt well use);*
 - Adopt the following as the initial Desired Future Condition for the Trinity Aquifer in the Uvalde county part of GMA-10: *regional average well drawdown during average recharge conditions of no more than twenty (20) feet (including exempt and non-exempt well use.);*
 - Declare the Trinity Aquifer in the part of GMA-10 that is in the Trinity-Glenrose GCD as a non-relevant aquifer; and
 - Request the TWDB to provide an official estimate of the Managed Available Groundwater, as defined by Chapter 36 of the Texas Water Code, that is consistent with achieving these DFCs.

Motion was approved unanimously.

- 6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.** Vic Hilderbran moved and Ken Carver seconded to approve Resolution 2010 – 11 adopting a DFC for the three minor aquifers in Groundwater Management 10 of a zero drawdown, including exempt and non-exempt use. Motion passed unanimously.
- 7. Discussion of compliance monitoring activities for adopted DFCs within each district.** Kirk Holland indicated that BSEACD has started to work on a monitoring program and will develop a proposal to present at the next GMA 10 meeting for the portions of GMA 10 with the 25 foot drawdown.
- 8. Meeting schedule post September 2010.** The next meeting of GMA 10 will be on Monday, November 15, 2010, starting at 11:30 am in the Edwards Aquifer Authority Conference Center.
- 9. Adjournment of morning meeting.** The meeting was adjourned at approximately 12:50 pm.

STATE OF TEXAS

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**COUNTIES OF BEXAR,
CALDWELL, COMAL,
GUADALUPE, HAYS, KINNEY,
MEDINA, TRAVIS, AND
UVALDE**

**DRAFT
RESOLUTION No.
2010-10**

**THE JOINT COORDINATING COMMITTEE OF GROUNDWATER
MANAGEMENT AREA 10**

**RESOLUTION FOR THE ADOPTION OF THE DESIRED FUTURE
CONDITIONS OF THE TRINITY AQUIFER IN GROUNDWATER
MANAGEMENT AREA 10**

WHEREAS, THE JOINT COORDINATING COMMITTEE OF GROUNDWATER MANAGEMENT AREA (GMA) 10 COMPRISES DELEGATES DESIGNATED BY THE FOLLOWING GROUNDWATER CONSERVATION DISTRICTS (GCDs) LOCATED WHOLLY OR PARTIALLY WITHIN GMA 10: BARTON SPRINGS/EDWARDS AQUIFER CONSERVATION DISTRICT, EDWARDS AQUIFER AUTHORITY, GUADALUPE COUNTY GCD, HAYS TRINITY GCD, KINNEY COUNTY GCD, MEDINA COUNTY GCD, PLUM CREEK CD, TRINITY GLEN ROSE GCD, AND UVALDE COUNTY UWCD;

WHEREAS, CHAPTER 36.108 OF THE TEXAS WATER CODE, (JOINT PLANNING IN MANAGEMENT AREA), REQUIRES THAT THE GROUNDWATER CONSERVATION DISTRICTS IN THE GMA ADOPT DESIRED FUTURE CONDITIONS (DFCs) OF ALL RELEVANT AQUIFERS IN THE GMA FOR A FIFTY-YEAR PLANNING PERIOD, NO LATER THAN SEPTEMBER 1, 2010;

WHEREAS, THE BOARD PRESIDENTS OR THEIR DESIGNATED REPRESENTATIVES OF THE GCDs IN GMA 10 HAVE MET AS A COMMITTEE IN VARIOUS MEETINGS AND CONDUCTED JOINT PLANNING IN ACCORDANCE WITH CHAPTER 36.108 OF THE TEXAS WATER CODE;

WHEREAS, ONE OR MORE OF THE COMMITTEE MEMBERS OF GMA 10 HAVE HELD ONE OR MORE PUBLIC MEETINGS NOTICED AND POSTED IN ACCORDANCE WITH

STATE LAW, AND HAVE REVIEWED AND DISCUSSED PERTINENT AQUIFER ASSESSMENTS BY THE TEXAS WATER DEVELOPMENT BOARD (TWDB) AND OTHERS WITH THE PUBLIC AND HAVE RECEIVED INPUT AND COMMENT FROM STAKEHOLDERS WITHIN THAT PART OF GMA 10 THAT USES AND IS AFFECTED BY USERS AND USES OF THE UNDIFFERENTIATED TRINITY AQUIFER (TRINITY AQUIFER):

WHEREAS, THE TRINITY AQUIFER IN GMA 10 IS A KARST AQUIFER THAT EXPERIENCES RELATIVELY RAPID RECHARGE DURING PERIODS OF HIGH RAINFALL AND RAPID DEPLETION DURING DROUGHT; IS LOCALLY VARIABLE IN WATER QUALITY AND IN THE AMOUNT OF WATER THAT IS YIELDED TO WELLS; IS PRESENT IN GMA 10 SUBSTANTIALLY ONLY IN THE SUBCROP, CONFINED PART OF THE AQUIFER; MAY BE WELL DIFFERENTIATED INTO THE LOWER TRINITY, MIDDLE TRINITY, AND UPPER TRINITY AQUIFERS ONLY IN CERTAIN PARTS OF GMA 10; AND WHERE SUCH SEGMENTS ARE HYDROLOGICALLY ISOLATED FROM EACH OTHER AND OTHER AQUIFERS HYDROSTRATIGRAPHICALLY, THEY MAY HAVE SOME INTERCONNECTION WITH OTHER AQUIFERS ACROSS FAULTS;

WHEREAS, THE FACTORS CONSIDERED IN SETTING A DFC FOR THIS AQUIFER INCLUDE:

1. THE ABILITY OF THE AQUIFER TO SERVE AS A SIGNIFICANT LOCAL GROUNDWATER RESOURCE AND HELP SERVE PART OF THE REGIONAL WATER NEEDS AS AN ALTERNATIVE SOURCE IN SOME AREAS;
2. THE FULLY SUBSCRIBED STATUS OF THE FIRM-YIELD OF THE SHALLOWER EDWARDS AQUIFER, WHICH RESTRICTS NEW USE OF THIS HIGHER QUALITY, MORE ACCESSIBLE GROUNDWATER MOSTLY TO EXEMPTS.
3. THE EXISTENCE OF THE RELATIVELY POORER QUALITY WATER IN THE UPPER TRINITY SEGMENT OF THE AQUIFER, REQUIRING PROTECTION TO ENSURE AGAINST INTERCONNECTIONS WITH THE SUCH GROUNDWATER.
4. THE AMOUNT OF DRAWDOWN AVAILABLE BETWEEN THE DROUGHT-PERIOD POTENTIOMETRIC SURFACE OF THIS AQUIFER AND THE TOP OF THE AQUIFER WHERE DE-WATERING WOULD OCCUR.
5. THE SPARSE DATA CONCERNING HYDROGEOLOGIC CONDITIONS AND AQUIFER PERFORMANCE IN MOST OF GMA 10.
6. THE PAUCITY OF WELLS AND LACK OF EXPERIENCE IN MONITORING AND REGULATING THE TRINITY BY GCDs IN MUCH OF GMA 10, MUCH LESS INDIVIDUAL SEGMENTS OF THE TRINITY IN GMA 10.
7. THE LACK OF HYDROLOGIC CONNECTION BETWEEN THE AQUIFER AND STREAMFLOWS OR SPRINGFLOWS IN GMA 10.
8. THE RELATIONSHIP BETWEEN AND CONSISTENCY WITH THE DESIRED FUTURE CONDITION OF THIS AQUIFER ESTABLISHED IN THE IMMEDIATELY ADJACENT AREAS OF GMA 9.

9. THE LACK OF AN OFFICIAL GAM FOR THE AQUIFER IN GMA 10.
10. THE FACT THAT TWDB MAPS THE TRINITY AS A MAJOR AQUIFER EXTENDING BENEATH THE EDWARDS AQUIFER IN THE BALCONES FAULT ZONE (GMA 10) WITH UP TO 3,000 MG/L TOTAL DISSOLVED SOLIDS CONCENTRATION (PER TWDB REPORT 345), EVEN THOUGH ITS USE FOR SOME BUT NOT ALL PURPOSES MAY BE IMPAIRED BY SUCH HIGH CONCENTRATIONS.
11. THE FACT THAT IT WILL BE EASIER TO IMPLEMENT LESS RESTRICTIVE GROUNDWATER PRODUCTION LIMITS SUCCESSFULLY IN FUTURE ROUNDS OF JOINT REGIONAL PLANNING THAN MORE RESTRICTIVE LIMITS IN THE FUTURE;

WHEREAS, COMMITTEE REPRESENTATIVES EXAMINED: 1) THE AQUIFER ASSESSMENTS DEVELOPED BY THE TWDB IN ITS DRAFT REPORT TITLED "GTA AQUIFER ASSESSMENT 09-02", DATED APRIL 20, 2010; 2) A SECOND DRAFT REPORT TITLED "GTA AQUIFER ASSESSMENT 10-03", DATED JUNE 10, 2010; 3) A MORE RECENT DRAFT REPORT TITLED "GTA AQUIFER ASSESSMENT 10-06", DATED JULY 12, 2010 AND SUBSEQUENT REVISIONS; 4) DISCUSSION WITH TWDB'S MR. ROBERT BRADLEY CONCERNING HOW SUCH AQUIFER ASSESSMENT RESULTS CAN BE USED TO INFER OTHER RELATIONSHIPS AND EXTEND CONCLUSIONS, BY EMAILS ON APRIL 13, 2010; 5) MONITORING DATA AND PRELIMINARY RESULTS AND CONCLUSIONS FROM A MULTI-PORT MONITORING WELL MAINTAINED BY BSEACD THAT COLLECTS INFORMATION ON WATER LEVELS AND WATER QUALITY IN 13 DISCRETE ZONES IN THE EDWARDS, UPPER TRINITY, AND MIDDLE TRINITY AQUIFERS IN THE NORTHERN PART OF GMA 10; AND 6) THE SERIES OF GAM RUNS, POTENTIOMETRIC MAPS, AND PRELIMINARY DFC EXPRESSIONS PREPARED FOR THE TRINITY AQUIFER IN ADJACENT AREAS OF GMA 9. IT CONSIDERED WHETHER AVERAGE OR DROUGHT RECHARGE CONDITIONS SHOULD BE USED IN THE DFC EXPRESSION, AND DRAWDOWNS OF 25, 50, 75, 100, AND 125 FEET, WITH OTHER AMOUNTS INTERPOLATED OR EXTRAPOLATED BY ANALYTICAL COMPUTATION. THE COMMITTEE DETERMINED THAT, WITH THREE EXCEPTIONS FOR VALID REASONS AS STIPULATED BELOW, A REGIONAL-AVERAGE DRAWDOWN OF 25 FEET OF THE UNDIFFERENTIATED TRINITY AQUIFER UNDER AVERAGE RECHARGE CONDITIONS FROM ALL AQUIFER USERS, INCLUDING EXEMPT USERS, PROVIDES A SIGNIFICANT AMOUNT OF GROUNDWATER TO MEET AREA, IF NOT REGIONAL NEEDS WITHOUT RISKING WIDESPREAD DEWATERING OF THE AQUIFER DURING EXTREME DROUGHT CONDITIONS AND WITHOUT AFFECTING ADJACENT AREAS WHERE THE AQUIFER IS USED;

WHEREAS, THREE AREAS OF GMA 10 HAVE A RATIONAL BASIS FOR ESTABLISHING A DIFFERENT DFC FOR THE TRINITY AQUIFER: 1) THE PART OF GMA 10 THAT IS WITHIN THE JURISDICTION OF HAYS-TRINITY GCD IS IMMEDIATELY ADJACENT TO AN AREA IN GMA 9 THAT IS ALREADY EXPERIENCING PROBLEMS FROM OVERPUMPING AND MAY PROVIDE LESS INTRA-FORMATIONAL RECHARGE TO GMA 10 THAN ELSEWHERE, SUCH THAT A

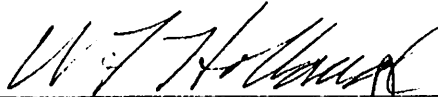
CONSERVATIVE DRAWDOWN OF ZERO (0) FEET IS REASONABLY INDICATED; 2) THE PART OF BEXAR COUNTY THAT IS IN THE TRINITY-GLENROSE GCD IS EXCEPTIONALLY SMALL (ABOUT TWO SQUARE MILES) AND, FURTHER, IN THE NEAR FUTURE WILL SEEK TO WITHDRAW FROM GMA 10 SUCH THAT IT IS ONLY IN GMA 9. SO FOR ADMINISTRATIVE-CONVENIENCE REASONS THIS AREA IS REASONABLY CONSIDERED A NON-RELEVANT PART OF THE TRINITY AQUIFER; AND 3) THE UVALDE COUNTY PART OF GMA 10 IS IMMEDIATELY ADJACENT TO BANDERA COUNTY IN GMA 9 THAT IS ALREADY USING A CONSIDERABLE AMOUNT OF THE TRINITY AQUIFER, SUCH THAT A MORE CONSERVATIVE DRAWDOWN OF TWENTY (20) FEET IS REASONABLY INDICATED:

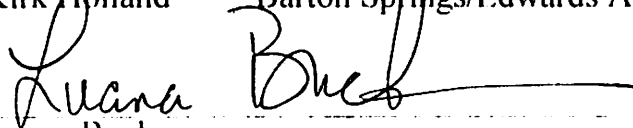
WHEREAS, THE APPROVAL OF THE DFCs FOR THE AQUIFER WAS DELIBERATED IN A PROPERLY NOTICED AND POSTED OPEN MEETING OF THE JOINT COORDINATING COMMITTEE OF GMA 10, WITH AT LEAST TWO-THIRDS OF THE VOTING MEMBERS OF THE COMMITTEE PRESENT, ON AUGUST 23, 2010, AT THE EDWARDS AQUIFER AUTHORITY CONFERENCE CENTER LOCATED AT 1615 N.ST.MARY'S ST., SAN ANTONIO, TEXAS 78215.:

NOW, THEREFORE, BE IT RESOLVED THAT THE DISTRICT MEMBERS OF GROUNDWATER MANAGEMENT AREA 10 TAKE THE FOLLOWING ACTIONS:


1. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION FOR THE TRINITY AQUIFER THROUGHOUT GMA-10, EXCEPT AS OTHERWISE PROVIDED HEREIN: *REGIONAL AVERAGE WELL DRAWDOWN DURING AVERAGE RECHARGE CONDITIONS THAT DOES NOT EXCEED 25 FEET (INCLUDING EXEMPT AND NON-EXEMPT WELL USE);*
2. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION FOR THE TRINITY AQUIFER IN THE PART OF GMA-10 THAT IS WITHIN THE JURISDICTION OF HAYS-TRINITY GCD: *REGIONAL AVERAGE WELL DRAWDOWN DURING AVERAGE RECHARGE CONDITIONS OF ZERO (0) FEET (INCLUDING EXEMPT AND NON-EXEMPT WELL USE);*
3. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION FOR THE TRINITY AQUIFER IN THE UVALDE COUNTY PART OF GMA-10: *REGIONAL AVERAGE WELL DRAWDOWN DURING AVERAGE RECHARGE CONDITIONS OF NO MORE THAN TWENTY (20) FEET (INCLUDING EXEMPT AND NON-EXEMPT WELL USE.);*
4. DECLARE THE TRINITY AQUIFER IN THE PART OF GMA 10 THAT IS IN THE TRINITY-GLENROSE GCD AS A NON-RELEVANT AQUIFER; AND
5. REQUEST THE TWDB TO PROVIDE AN OFFICIAL ESTIMATE OF THE MANAGED AVAILABLE GROUNDWATER, AS DEFINED BY CHAPTER 36 OF THE TEXAS WATER CODE, THAT IS CONSISTENT WITH ACHIEVING THESE DFCs.

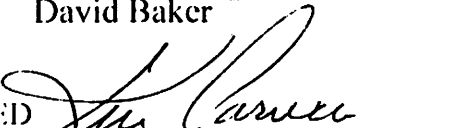
VOTED AND APPROVED THIS, THE _____th DAY OF _____, 2010, BY A VOTE OF ___ AYES AND ___ NAYS, CONSTITUTING AT LEAST A TWO-THIRDS MAJORITY OF THE VOTING MEMBERS PRESENT.

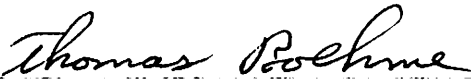
SIGNED 
Kirk Holland Barton Springs/Edwards Aquifer Conservation District

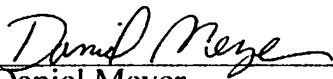
SIGNED 
Luana Buckner Edwards Aquifer Authority

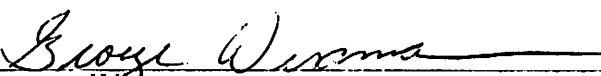
SIGNED Ron Naumann Guadalupe County GCD

SIGNED 
David Baker Hays Trinity GCD

SIGNED 
~~Sign Metcalf~~ KEN CARVER Kinney County GCD

SIGNED 
Thomas Boehme Medina County GCD

SIGNED 
Daniel Meyer Plum Creek Conservation District

SIGNED 
George Wissmann Trinity Glen Rose GCD

SIGNED 
Vic Hilderbran Uvalde County UWCD

GTA Aquifer Assessment 10-06
Groundwater Management Area 10
Trinity Aquifer
Draft Managed Available Groundwater estimates
July 12, 2010

GTA Aquifer Assessment 10-06

by **David Thorkildsen, P.G. and Sarah Backhouse**
Texas Water Development Board
Groundwater Technical Assistance Section
(512) 936-0871

This document is released for the purpose of interim review under the authority of
David Thorkildsen, P.G. 705 on July 12, 2010

GTA Aquifer Assessment 10-06
Groundwater Management Area 10
Trinity Aquifer
Draft Managed Available Groundwater estimates
July 12, 2010

REQUESTOR:

Rick Illgner, of the Edwards Aquifer Authority acting on behalf of Groundwater Management Area 10.

DESCRIPTION OF REQUEST:

On 4/27/10, Mr. Illgner provided the Texas Water Development Board (TWDB) with alternative draft desired future conditions for the Trinity Aquifer subcrop (lumping the upper, middle, and lower Trinity into one aquifer) in Groundwater Management Area 10 and requested that TWDB estimate alternative draft managed available groundwater values. This request was addressed with GTA Aquifer Assessment 10-03. At the Groundwater Management Area 10 meeting on 6/16/10, the group requested TWDB to revise the assessment by splitting the aquifer out by layers and including the outcrop area. This aquifer assessment presents the revised alternative draft managed available groundwater for the Trinity Aquifer outcrop/subcrop in Groundwater Management Area 10.

DRAFT DESIRED FUTURE CONDITIONS:

Trinity Aquifer outcrop/subcrop – Allow average drawdowns of 25, 50, 75, 100, and 125 feet in the Trinity Aquifer outcrop and subcrop (upper, middle and lower zones) over the next 50 years.

METHODS:

A transient hydrologic budget for the saturated portion of an aquifer is described by Freeze and Cherry (1979, p.365):

$$Q(t) = R(t) - D(t) + \frac{dS}{dt}$$

where $Q(t)$ = total rate of groundwater withdrawal
 $R(t)$ = total rate of groundwater recharge to the basin
 $D(t)$ = total rate of groundwater discharge from the basin
 $\frac{dS}{dt}$ = rate of change of storage in the saturated zone of the basin

For this analysis, it is assumed that

$$R(t) = R(r) + R(e)$$

GTA Aquifer Assessment 10-06
Groundwater Management Area 10
Trinity Aquifer
Draft Managed Available Groundwater estimates
July 12, 2010

where $R(r)$ = rejected recharge for the basin
 $R(e)$ = effective recharge

Effective recharge is the amount of water that enters an aquifer and is available for development (Muller and Price, 1978, p. 5). Rejected recharge is the amount of total (or potential) recharge that discharges from an aquifer because it is over-full and cannot accept more water (Theis, 1940, p.1).

In addition, it is assumed that

$$R(r) \cong D(t)$$

Therefore, the total rate of groundwater withdrawal equals effective recharge plus the change in storage of the aquifer, or

$$Q(t) = R(e) + \frac{dS}{dt}$$

County, outcrop/subcrop, river basin, regional water planning area, area with water quality less than or equal to 3,000 milligrams per liter (mg/l) total dissolved solids (TDS), and groundwater conservation district boundaries were used to split the aquifer into map areas (Figure 1). The areal extent of each aquifer map area was calculated.

Annual effective recharge was calculated by multiplying each outcrop area by the average precipitation (1971-2000) and an effective recharge rate developed from base flow analysis for the Trinity Aquifer in the Hill Country of South-Central Texas (Ashworth, 1983).

Lateral inflow to the Trinity Aquifer in Groundwater Management Area 10 was estimated based on the average outflow across the Balcones Fault Zone results of Draft GAM Task 10-005 (Hutchison, 2010). Draft GAM Task 10-005 provides results of seven pumping scenarios from the Trinity Aquifer within Groundwater Management Area 9 using the Groundwater Availability Model (GAM) for the Hill Country portion of the Trinity Aquifer system in Texas. The average outflow across the Balcones Fault Zone results from Scenario 5 (total pumpage approximately 80,000 acre-feet per year) is used for the calculations in this assessment.

The areal extent of each map area in Travis and Hays counties was multiplied by the aquifer storage coefficient derived from aquifer tests performed and compiled

GTA Aquifer Assessment 10-06
Groundwater Management Area 10
Trinity Aquifer
Draft Managed Available Groundwater estimates
July 12, 2010

by the Barton Springs/Edwards Aquifer Conservation District (BSEACD) for the Trinity Aquifer subcrop in Travis and Hays counties (BSEACD, in preparation).

The remaining subcrop map areas were multiplied by the aquifer storage coefficient derived for the calibrated Groundwater Availability Model (GAM) for the Hill Country portion of the Trinity Aquifer system in Texas (Jones and others, 2009). Each map area was then multiplied by several uniform water level drawdown scenarios specified in the draft desired future conditions.

In outcrop areas where unconfined conditions exist the aerial extent was multiplied by the aquifer specific yield and then by several uniform water level drawdown scenarios specified in the draft desired future conditions.

Volumes for each scenario were then divided by 50 years to obtain an annual volume.

The calculations were completed in a Microsoft Excel worksheet.

DETERMINING MANAGED AVAILABLE GROUNDWATER:

As defined in Chapter 36 of the Texas Water Code, "managed available groundwater" is the amount of water that may be permitted by a groundwater conservation district. The estimated total annual volume of groundwater calculated, however, represents the total amount of pumping from the aquifer. The total pumping includes uses of water both subject to permitting and exempt from permitting. Examples of exempt uses include domestic, livestock, and oil and gas exploration. Each district may also exempt additional uses as defined by its rules or enabling legislation.

Since exempt uses are not available for permitting, it is necessary to account for them when determining managed available groundwater. To do this the Texas Water Development Board developed a standardized method for estimating exempt use for domestic and livestock purposes based on projected changes in population and the ratio of domestic and livestock wells in an area to the total number of wells. Because other exempt uses can vary significantly from district to district and there is much higher uncertainty associated with estimating use due to oil and gas exploration, estimates of exempt pumping outside domestic and livestock uses have not been included. If the district believes it has a more appropriate estimate of exempt pumping, they may submit it, along with a description of how it was developed, to the Texas Water Development Board for consideration. Once established, the estimates of exempt pumping are subtracted from the total pumping calculation to yield the estimated managed available groundwater for permitting purposes.

PARAMETERS AND ASSUMPTIONS:

- Outcrop and subcrop areas exist in the upper Trinity. Only subcrop areas exist in the middle and lower Trinity.
- Outcrop areas are calculated as unconfined areas of the aquifer and subcrop areas are calculated as confined areas of the aquifer.
- The aquifer is considered to contain water that is fresh to slightly saline (< = 3,000 TDS)
- The aquifer area was calculated from the TWDB shapefile for the Trinity Aquifer, projected into the GAM projection (Anaya, 2001).
- Areas, in acres, were calculated within ArcGIS 9.3.
- Map areas were designated as Plum Creek Conservation District only where their jurisdiction does not overlap with the BSEACD.
- The Edwards Aquifer Authority (EAA) is not included in this assessment because they are restricted by their legislation to manage only the Edwards Aquifer. Map areas where the EAA or no other district exists are designated as "n/a."
- The draft managed available groundwater volume estimates are the annual volume of water depleted from the aquifer based on the draft desired future conditions.
- Water level drawdowns were assumed to be uniform across the aquifer.
- Annual volumes are calculated by dividing the total volume by 50 years.
- The average annual precipitation for outcrop map areas (Table 1) was determined from the Texas Climatic Atlas (Narasimhan and others, 2008) which is the average for years 1971 to 2000.
- Annual effective recharge from precipitation to outcrop areas is 4 percent of annual average precipitation (Ashworth, 1983).
- Lateral inflow to the Trinity Aquifer in Groundwater Management Area 10 is estimated to be 64,696 acre-feet per year based on the average outflow across the Balcones Fault Zone results (Scenario 5) from Draft GAM Task 10-005 (Hutchison, 2010) This volume was apportioned across the aquifer map areas. GAM Task 10-005 does not address Uvalde County; therefore the same value for total inflow to Medina County was used.
- Inflow is split between layers based on data from GAM Task 10-005. Inflow is only to the upper and middle Trinity units.
- Specific yield applied to the Trinity Aquifer outcrop areas is 0.05 (LBG-Guyton and Associates, 2003).
- The storage coefficient of the Trinity Aquifer subcrop is 0.001 derived from aquifer tests of the Trinity Aquifer subcrop in Travis and Hays counties (BSEACD, in preparation). The storage coefficient of the Trinity Aquifer subcrop in the remaining counties is 0.0000001 as derived from the

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calibrated GAM for the Hill Country portion of the Trinity Aquifer system in Texas (Jones and others, 2009).

- Conditions were assumed to be physically possible across Groundwater Management Area 10.

Table 1. Estimated total annual effective recharge volume for the Trinity Aquifer by map area subdivisions (See Figure 1).

GMA	Aquifer	County	GCD	Map Area	Areal extent (acres)	Estimated average annual precipitation (inches)	Estimated average annual precipitation (feet)	Effective recharge rate (percent)	Estimated annual effective recharge (ac-ft/yr)
10	Upper Trinity	Hays	n/a	21	494	35	2.9	4	57
		Hays	Hays Trinity GCD	22	554	35	2.9	4	64
		Hays	Hays Trinity GCD	23	473	36	3	4	57
		Hays	n/a	24	419	36	3	4	50
		Comal	n/a	25	1,282	35	2.9	4	149
		Comal	n/a	26	513	34	2.8	4	57
		Uvalde	Uvalde County UWCD	27	372	29	2.4	4	36
		Total							

GMA = groundwater management area

ac-ft/yr = acre-feet per year

n/a = Areas that are covered by the Edwards Aquifer Authority or areas that are not covered by a GCD

The formula for this table is: areal extent (acres) * estimated average annual precipitation (feet) * effective recharge rate = estimated annual effective recharge (ac-ft/yr).

GCD = groundwater conservation district

UWCD = underground water conservation district

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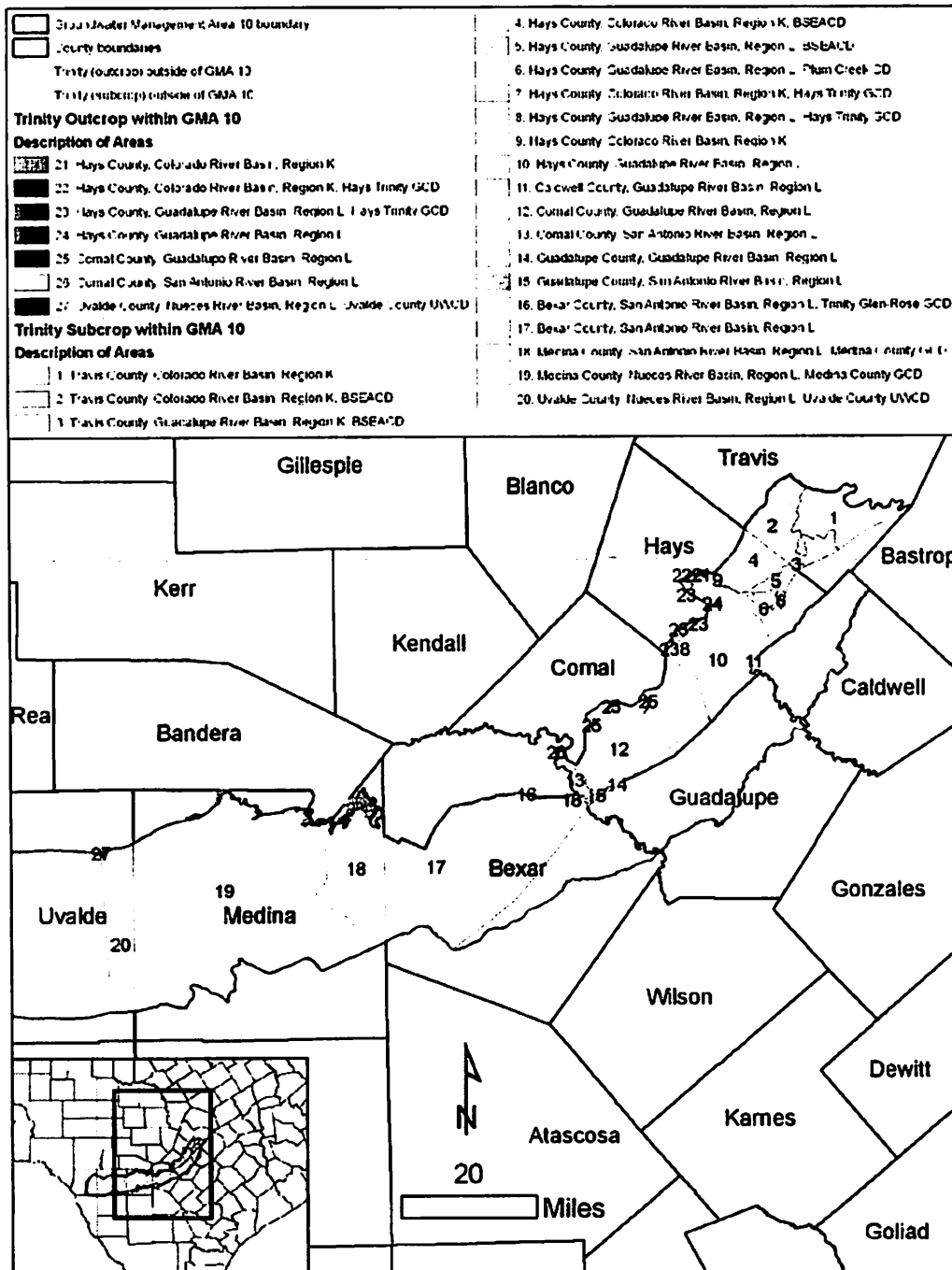


Figure 1. Geographic subdivisions for analyzing draft managed available groundwater for the Trinity Aquifer in GMA 10. GMA = groundwater management area, BSEACD = Barton Springs/Edwards Aquifer Conservation District, CD = conservation district, GCD = groundwater conservation district, UWCD = underground water conservation district

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RESULTS:

The results (Tables 2-4) show the total pumping estimates for the Trinity Aquifer by layer in Groundwater Management Area 10.

Table 5 summarizes and combines the total pumping results from tables 2-4.

Table 6 shows exempt use estimates by county, river basin, regional water planning area, and groundwater conservation district for the Trinity Aquifer.

Table 7 summarizes the draft managed available groundwater for the Trinity Aquifer in Groundwater Management Area 10 by county, river basin, regional water planning area, and groundwater conservation district. As described above, these reflect the difference between the combined total pumping (table 5) and the estimated exempt use (table 6).

Table 8 summarizes the draft managed available groundwater for the Trinity Aquifer in Groundwater Management Area 10 by groundwater conservation district.

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Table 2. Estimates of total pumping for the Upper Trinity Aquifer summarized by map areas (see Figure 1).

GMA	Aquifer	County	GCD	Map Area	Estimated storage coefficient	Areal extent (acres)	Desired total aquifer water level decline (feet)	Estimated total volume from water level decline (acre-feet)	Estimated annual volume from water level decline (ac-ft/yr)	Estimated annual effective recharge ¹	Estimated annual lateral inflow (ac-ft/yr)	Estimated annual total volume (ac-ft/yr)
10	Upper Trinity		n/a	1	0.001	53,168	25	1,329	27	0	137	184
							50	2,658	53			190
							75	3,988	80			217
							100	5,317	108			243
							125	6,646	133			270
				2	0.001	53,352	25	1,334	27	0	137	184
							50	2,668	53			190
							75	4,001	80			217
							100	5,335	107			244
							125	6,669	133			270
				3	0.001	1,340	25	34	1	0	3	4
							50	67	1			4
							75	101	2			5
							100	134	3			6
							125	168	3			6
4	0.001	33,769	25	845	17	0	534	551				
			50	1,689	34			568				
			75	2,534	51			585				
			100	3,379	68			602				
			125	4,224	84			618				
5	0.001	11,243	25	281	6	0	178	184				
			50	562	11			189				
			75	843	17			195				
			100	1,124	22			200				
			125	1,405	28			206				
6	0.001	11,042	25	278	6	0	178	184				
			50	552	11			189				
			75	826	17			195				
			100	1,104	22			200				
			125	1,380	28			206				
7	0.001	994	25	25	1	0	30	31				
			50	50	1			31				
			75	75	2			32				
			100	99	2			32				
			125	124	2			32				
	8	0.001	4,342	25	109	2	0	59	61			
				50	217	4			63			
				75	326	7			66			
				100	434	9			68			
				125	543	11			70			
9	0.001	2,618	25	65	1	0	30	31				
			50	131	3			33				
			75	196	4			34				
			100	262	5			35				
			125	327	7			37				
10	0.001	98,837	25	2,471	49	0	1,602	1,651				
			50	4,942	99			1,701				
			75	7,413	148			1,750				
			100	9,884	198			1,800				
			125	12,355	247			1,849				
11	0.0000001	420	25	0	0	0	0	0				
			50	0	0			0				
			75	0	0			0				
			100	0	0			0				
			125	0	0			0				
12	0.0000001	123,768	25	0	0	0	14,269	14,269				
			50	1	0			14,269				
			75	1	0			14,269				
			100	1	0			14,269				
			125	2	0			14,269				
13	0.0000001	8,679	25	0	0	0	1,084	1,084				
			50	0	0			1,084				
			75	0	0			1,084				
			100	0	0			1,084				
			125	0	0			1,084				
14	0.0000001	302	25	0	0	0	0	0				
			50	0	0			0				
			75	0	0			0				
			100	0	0			0				
			125	0	0			0				
15	0.0000001	2,362	25	0	0	0	0	0				
			50	0	0			0				
			75	0	0			0				
			100	0	0			0				
			125	0	0			0				

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Table 2 continued.

10	Upper Trinity	Bexar	Trinity Glen-Rose GCD	16	0.0000001	1,642	25	0	0	0	48	48									
						50	0	0	48												
						75	0	0	48												
						100	0	0	48												
						125	0	0	48												
		n/a	17	0.0000001	264,374	25	1	0	0	8,532	8,532	0	8,532	8,532							
						50	1	0						8,532							
						75	2	0						8,532							
						100	3	0						8,532							
						125	3	0						8,532							
		Medina	Medina County GCD	18	0.0000001	103,048	25	0	0	0	288	288	288	288							
							50	1	0					288							
							75	1	0					288							
							100	1	0					288							
							125	1	0					288							
		19	0.0000001	455,928	25	1	0	0	1,265	1,265	1,265	1,265	1,265								
					50	2	0						1,265								
					75	3	0						1,265								
					100	5	0						1,265								
					125	6	0						1,265								
		Uvalde	Uvalde County UWCD	20	0.0000001	63,462	25	0	0	0	173	173	173	173							
							50	0	0					173							
							75	0	0					173							
							100	1	0					173							
							125	1	0					173							
		n/a	21	0.05	494	25	618	12	57	9	9	9	9	78							
						50	1,235	25						91							
						75	1,853	37						103							
						100	2,470	49						115							
						125	3,088	62						128							
Hays	Hays Trinity GCD					22	0.05	554						25	693	14	64	9	9	9	87
														50	1,385	28					101
														75	2,078	42					115
														100	2,770	55					128
														125	3,463	69					142
23	0.05	473	25	591	12	57	9	9	9	9	78										
			50	1,183	24						90										
			75	1,774	35						101										
			100	2,365	47						113										
			125	2,956	59						125										
n/a	24	0.05	419	25	524	10	50	6	6	6	6	68									
				50	1,048	21						77									
				75	1,571	31						87									
				100	2,095	42						98									
				125	2,619	52						108									
Cornal	n/a	25	0.05	1,282	25	1,603	32	149	2	2	2	183									
					50	3,205	64					215									
					75	4,808	98					247									
					100	6,410	128					279									
					125	8,013	160					311									
26	0.05	513	25	641	13	57	1	1	1	1	1	71									
			50	1,283	26							84									
			75	1,924	38							96									
			100	2,565	51							109									
			125	3,206	64							122									
Uvalde	Uvalde County UWCD	27	0.05	372	25	465	9	38	1	1	1	1	46								
					50	930	18						56								
					75	1,395	28						65								
					100	1,860	37						74								
					125	2,325	47						84								
Total						1,298,618	25			470	28,584	29,293									
							50					29,531									
							75					29,769									
							100					30,005									
							125					30,243									

GMA = groundwater management area
 BSEACD = Barton Springs/Edwards Aquifer Conservation District
 n/a = Areas that are covered by the Edwards Aquifer Authority or areas that are not covered by a GCD
 1 - This is the estimated total annual effective recharge volume for the Trinity Aquifer by map areas as shown in Table 1.
 The formulas for this table are: storage coefficient * areal extent * desired total aquifer water level decline = estimated total volume from water level decline/50 = estimated annual volume from water level decline. Estimated annual volume from water level decline + estimated annual effective recharge + estimated annual lateral inflow = estimated annual total volume.

GCD = groundwater conservation district
 UWCD = underground water conservation district
 CD = conservation district
 ac-ft/yr = acre-feet per year

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Table 3. Estimates of total pumping for the Middle Trinity Aquifer summarized by map areas (see Figure 1).

GMA	Aquifer	County	GCD	Map Area	Estimated storage coefficient	Areal extent (acres)	Desired total aquifer water level decline (feet)	Estimated total volume from water level decline (acre-feet)	Estimated annual volume from water level decline (ac-ft/yr)	Estimated annual lateral inflow (ac-ft/yr)	Estimated annual total volume (ac-ft/yr)
10	Middle Trinity	Travis	n/a	1	0.001	53,168	25	1,329	27	338	365
							50	2,658	53		391
							75	3,988	80		418
							100	5,317	106		444
							125	6,646	133		471
			BSEACD	2	0.001	53,352	25	1,334	27	365	
							50	2,668	53	391	
							75	4,001	80	418	
							100	5,335	107	445	
							125	6,668	133	471	
			BSEACD	3	0.001	1,340	25	34	1	8	
							50	67	1	8	
							75	101	2	9	
							100	134	3	10	
							125	168	3	10	
			BSEACD	4	0.001	33,789	25	845	17	367	
							50	1,689	34	384	
							75	2,534	51	401	
							100	3,379	68	418	
							125	4,224	84	434	
		BSEACD	5	0.001	11,243	25	281	6	117		
						50	562	11	122		
						75	843	17	128		
						100	1,124	22	133		
						125	1,405	28	139		
		Plum Creek CD	6	0.001	11,042	25	276	6	117		
						50	552	11	122		
						75	828	17	128		
						100	1,104	22	133		
						125	1,380	28	139		
		Hays	Hays Trinity GCD	7	0.001	994	25	25	1	19	
							50	50	1	19	
							75	75	2	20	
							100	99	2	20	
							125	124	2	20	
			Hays Trinity GCD	8	0.001	4,342	25	109	2	39	
							50	217	4	41	
							75	328	7	44	
							100	434	9	46	
							125	543	11	48	
n/a	9	0.001	2,618	25	65	1	20				
				50	131	3	22				
				75	198	4	23				
				100	262	5	24				
				125	327	7	26				
n/a	10	0.001	98,837	25	2,471	49	1,081				
				50	4,942	99	1,131				
				75	7,413	148	1,180				
				100	9,884	198	1,230				
				125	12,355	247	1,279				

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GMA	Aquifer	County	GCD	Map Area	Estimated storage coefficient	Areal extent (acres)	Desired total aquifer water level decline (feet)	Estimated total volume from water level decline (acre-feet)	Estimated annual volume from water level decline (ac-ft/yr)	Estimated annual lateral inflow (ac-ft/yr)	Estimated annual total volume (ac-ft/yr)
10	Middle Trinity	Caldwell	n/a	11	0.0000001	420	25	0	0	0	0
							50	0	0		0
							75	0	0		0
							100	0	0		0
							125	0	0		0
		Comal	12	0.0000001	123,768	25	0	0	13,471	13,471	
						50	1	0		13,471	
						75	1	0		13,471	
						100	1	0		13,471	
						125	2	0		13,471	
		Comal	13	0.0000001	8,679	25	0	0	1,010	1,010	
						50	0	0		1,010	
						75	0	0		1,010	
						100	0	0		1,010	
						125	0	0		1,010	
		Guadalupe	14	0.0000001	302	25	0	0	0	0	
						50	0	0		0	
						75	0	0		0	
						100	0	0		0	
						125	0	0		0	
		Guadalupe	15	0.0000001	2,362	25	0	0	0	0	
						50	0	0		0	
						75	0	0		0	
						100	0	0		0	
						125	0	0		0	
		Bexar	Trinity Glen-Rose GCD	16	0.0000001	1,642	25	0	0	75	75
							50	0	0		75
							75	0	0		75
							100	0	0		75
							125	0	0		75
		Bexar	n/a	17	0.0000001	264,374	25	1	0	13,327	13,327
							50	1	0		13,327
							75	2	0		13,327
							100	3	0		13,327
							125	3	0		13,327
		Medina	Medina County GCD	18	0.0000001	103,048	25	0	0	973	973
							50	1	0		973
							75	1	0		973
							100	1	0		973
							125	1	0		973
		Medina	Medina County GCD	19	0.0000001	455,928	25	1	0	4,281	4,281
							50	2	0		4,281
							75	3	0		4,281
							100	5	0		4,281
							125	6	0		4,281
Uvalde	Uvalde County UWCD	20	0.0000001	63,462	25	0	0	584	584		
					50	0	0		584		
					75	0	0		584		
					100	1	0		584		
					125	1	0		584		
Total						1,294,711			36,082		
											36,219
											36,352
											36,490
											36,624
											36,758

GMA = groundwater management area
 BSEACD = Barton Springs/Edwards Aquifer Conservation District
 n/a = Areas that are covered by the Edwards Aquifer Authority or areas that are not covered by a GCD
 The formulas for this table are: storage coefficient * areal extent * desired total aquifer water level decline = estimated total volume from water level decline/50 = estimated annual volume from water level decline. Estimated annual volume from water level decline + estimated annual lateral inflow = estimated annual total volume.

GCD = groundwater conservation district
 UWCD = underground water conservation district
 CD = conservation district
 ac-ft/yr = acre-feet per year

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Table 4. Estimates of total pumping for the Lower Trinity Aquifer summarized by map areas (see Figure 1).

GMA	Aquifer	County	GCD	Map Area	Estimated storage coefficient	Areal extent (acres)	Desired total aquifer water level decline (feet)	Estimated total volume from water level decline (acre-feet)	Estimated annual volume from water level decline (ac-ft/yr)	Estimated annual lateral inflow (ac-ft/yr)	Estimated annual total volume (ac-ft/yr)
10	Lower Trinity	Travis	n/a	1	0.001	53,168	25	1,329	27	0	27
							50	2,658	53		53
							75	3,988	80		60
							100	5,317	108		108
							125	6,646	133		133
			BSEACD	2	0.001	53,352	25	1,334	27	0	27
							50	2,668	53		53
							75	4,001	80		60
							100	5,335	107		107
							125	6,669	133		133
			BSEACD	3	0.001	1,340	25	34	1	0	1
							50	67	1		1
							75	101	2		2
							100	134	3		3
							125	168	3		3
			BSEACD	4	0.001	33,789	25	845	17	0	17
							50	1,689	34		34
							75	2,534	51		51
							100	3,379	68		68
							125	4,224	84		84
		BSEACD	5	0.001	11,243	25	281	6	0	6	
						50	562	11		11	
						75	843	17		17	
						100	1,124	22		22	
						125	1,405	28		28	
		Plum Creek CD	6	0.001	11,042	25	276	6	0	6	
						50	552	11		11	
						75	828	17		17	
						100	1,104	22		22	
						125	1,380	28		28	
		Hays	Hays Trinity GCD	7	0.001	994	25	25	1	0	1
							50	50	1		1
							75	75	2		2
							100	99	2		2
							125	124	2		2
			n/a	8	0.001	4,342	25	109	2	0	2
							50	217	4		4
							75	326	7		7
							100	434	9		9
							125	543	11		11
n/a	9	0.001	2,618	25	65	1	0	1			
				50	131	3		3			
				75	196	4		4			
				100	262	5		5			
				125	327	7		7			
n/a	10	0.001	98,837	25	2,471	49	0	49			
				50	4,942	98		98			
				75	7,413	148		148			
				100	9,884	198		198			
				125	12,355	247		247			

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Table 4 continued.

GMA	Aquifer	County	GCD	Map Area	Estimated storage coefficient	Areal extent (acres)	Desired total aquifer water level decline (feet)	Estimated total volume from water level decline (acre-feet)	Estimated annual volume from water level decline (ac-ft/yr)	Estimated annual lateral inflow (ac-ft/yr)	Estimated annual total volume (ac-ft/yr)
10	Lowé Trinity	Caldwell	n/a	11	0.0000001	420	25	0	0	0	0
							50	0	0		0
							75	0	0		0
							100	0	0		0
							125	0	0		0
		Comal	12	0.0000001	123,768	25	0	0	0	0	
						50	1	0		0	
						75	1	0		0	
						100	1	0		0	
						125	2	0		0	
		Guadalupe	13	0.0000001	8,679	25	0	0	0	0	
						50	0	0		0	
						75	0	0		0	
						100	0	0		0	
						125	0	0		0	
		Bexar	14	0.0000001	302	25	0	0	0	0	
						50	0	0		0	
						75	0	0		0	
						100	0	0		0	
						125	0	0		0	
Medina	15	0.0000001	2,362	25	0	0	0	0			
				50	0	0		0			
				75	0	0		0			
				100	0	0		0			
				125	0	0		0			
Uvalde	16	0.0000001	1,642	25	0	0	0	0			
				50	0	0		0			
				75	0	0		0			
				100	0	0		0			
				125	0	0		0			
Total	17	0.0000001	264,374	25	1	0	0	0			
				50	1	0		0			
				75	2	0		0			
				100	3	0		0			
				125	3	0		0			
Total	18	0.0000001	103,048	25	0	0	0	0			
				50	1	0		0			
				75	1	0		0			
				100	1	0		0			
				125	1	0		0			
Total	19	0.0000001	455,928	25	1	0	0	0			
				50	2	0		0			
				75	3	0		0			
				100	5	0		0			
				125	6	0		0			
Total	20	0.0000001	63,462	25	0	0	0	0			
				50	0	0		0			
				75	0	0		0			
				100	1	0		0			
				125	1	0		0			
Total						1,294,711	25			0	137
Total							50				270
Total							75				408
Total							100				542
Total							125				676

GMA = groundwater management area
 BSEACD = Barton Springs/Edwards Aquifer Conservation District
 n/a = Areas that are covered by the Edwards Aquifer Authority or areas that are not covered by a GCD
 The formulas for this table are: storage coefficient * areal extent * desired total aquifer water level decline = estimated total volume from water level decline/50 = estimated annual volume from water level decline. Estimated annual volume from water level decline + estimated annual lateral inflow = estimated annual total volume.

GCD = groundwater conservation district
 UWCD = underground water conservation district
 ac-ft/yr = acre-feet per year

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Table 5. Summary of total pumping estimates for the Trinity Aquifer (upper, middle, and lower units combined).

County	District	River Basin	Region	Water level decline (feet)	Total Pumping (ac-ft/yr)
Bexar	Trinity Glen-Rose GCD	San Antonio	L	25	123
				50	123
				75	123
				100	123
				125	123
	n/a	San Antonio	L	25	21,859
				50	21,859
				75	21,859
				100	21,859
				125	21,859
Caldwell	n/a	Guadalupe	L	25	0
				50	0
				75	0
				100	0
				125	0
Comal	n/a	Guadalupe	L	25	27,923
				50	27,955
				75	27,987
				100	28,019
				125	28,051
	n/a	San Antonio	L	25	2,165
				50	2,178
				75	2,190
				100	2,203
				125	2,216
Guadalupe	n/a	Guadalupe	L	25	0
				50	0
				75	0
				100	0
				125	0
	n/a	San Antonio	L	25	0
				50	0
				75	0
				100	0
				125	0

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Table 5 continued.

County	District	River Basin	Region	Water level decline (feet)	Total Pumping (ac-ft/yr)
Hays	Barton Springs/Edwards Aquifer Conservation District	Colorado	K	25	935
				50	986
				75	1,037
				100	1,088
				125	1,136
		Guadalupe	L	25	307
				50	322
				75	340
				100	355
				125	373
	Hays Trinity GCD	Colorado	K	25	138
				50	152
				75	169
				100	182
				125	196
		Guadalupe	L	25	180
				50	198
				75	218
				100	236
				125	254
Plum Creek Conservation District	Guadalupe	L	25	307	
			50	322	
			75	340	
			100	355	
			125	373	
n/a	Colorado	K	25	130	
			50	149	
			75	164	
			100	179	
			125	198	
n/a	Guadalupe	L	25	2,847	
			50	3,008	
			75	3,165	
			100	3,326	
			125	3,483	

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Table 5 continued.

County	District	River Basin	Region	Water level decline (feet)	Total Pumping (ac-ft/yr)
Medina	Medina County GCD	San Antonio	L	25	1,261
				50	1,261
				75	1,261
				100	1,261
				125	1,261
		Nueces	L	25	5,546
				50	5,546
				75	5,546
				100	5,546
				125	5,546
Travis	n/a	Colorado	K	25	556
				50	634
				75	715
				100	793
				125	874
	Barton Springs/Edwards Aquifer Conservation District	Colorado	K	25	556
				50	634
				75	715
				100	796
				125	874
		Guadalupe	K	25	13
				50	13
				75	16
				100	19
				125	19
Uvalde	Uvalde County UWCD	Nueces	L	25	803
				50	813
				75	822
				100	831
				125	841

GCD = groundwater conservation district

ac-ft/yr = acre-feet per year

UWCD = underground water conservation district

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Table 6. Estimates of exempt use for the Trinity Aquifer in Groundwater Management Area 10 by county, river basin, regional water planning area, and groundwater conservation district

County	Groundwater Conservation District	River Basin	Region	Exempt Use (ac-ft/yr)
Bexar	Trinity Glen-Rose GCD	San Antonio	L	0
Hays	Barton Springs/Edwards Aquifer CD	Colorado	K	42
		Guadalupe	L	0
	Hays Trinity GCD	Colorado	K	0
		Guadalupe	L	0
Plum Creek CD	Guadalupe	L	0	
Medina	Medina County GCD	Nueces	L	84
		San Antonio	L	113
Travis	Barton Springs/Edwards Aquifer CD	Colorado	K	9
		Guadalupe	K	0
Uvalde	Uvalde County UWCD	Nueces	L	0

GCD = groundwater conservation district

CD = conservation district

UWCD = underground water conservation district

ac-ft/yr = acre-feet per year

Table 7. Summary of draft managed available groundwater for the Trinity Aquifer in Groundwater Management Area 10 by county, river basin, regional water planning area, and groundwater conservation district.

County	Groundwater Conservation District	River Basin	Region	25 ft. decline	50 ft. decline	75 ft. decline	100 ft. decline	125 ft. decline
Bexar	Trinity Glen-Rose GCD	San Antonio	L	123	123	123	123	123
Hays	Barton Springs/Edwards Aquifer CD	Colorado	K	893	944	995	1,046	1,094
		Guadalupe	L	307	322	340	355	373
	Hays Trinity GCD	Colorado	K	138	152	169	182	196
		Guadalupe	L	180	198	218	236	254
Plum Creek CD	Guadalupe	L	307	322	340	355	373	
Medina	Medina County GCD	Nueces	L	5,462	5,462	5,462	5,462	5,462
		San Antonio	L	1,148	1,148	1,148	1,148	1,148
Travis	Barton Springs/Edwards Aquifer CD	Colorado	K	547	625	706	787	865
		Guadalupe	K	13	13	16	19	19
Uvalde	Uvalde County UWCD	Nueces	L	803	813	822	831	841
Total (ac-ft/yr)				9,921	10,122	10,339	10,544	10,748

GCD = groundwater conservation district

CD = conservation district

UWCD = underground water conservation district

ac-ft/yr = acre-feet per year

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Table 8. Summary of draft managed available groundwater for the Trinity Aquifer in Groundwater Management Area 10 by groundwater conservation district.

Groundwater Conservation District	25 ft. decline	50 ft. decline	75 ft. decline	100 ft. decline	125 ft. decline
BSEACD	1,760	1,904	2,057	2,207	2,351
Hays Trinity GCD	318	350	387	418	450
Medina County GCD	6,610	6,610	6,610	6,610	6,610
Plum Creek CD	307	322	340	355	373
Trinity Glen-Rose GCD	123	123	123	123	123
Uvalde County UWCD	803	813	822	831	841
Total (ac-ft/yr)	9,921	10,122	10,339	10,544	10,748

BSEACD = Barton Springs/Edwards Aquifer Conservation District
 GCD = groundwater conservation district
 UWCD = underground water conservation district
 CD = conservation district
 ac-ft/yr = acre-feet per year

Limitations:

Additional data are needed to create improved estimates; these estimates are a fundamental interpretation of the requested conditions. This analysis assumes homogeneous and isotropic aquifers; however, conditions for the Trinity Aquifer may not behave in a uniform manner.

Note that estimates of managed available groundwater are based on the best available scientific tools that can be used to develop managed available groundwater and that these estimates can be a function of assumptions made on the magnitude and distribution of pumping in the aquifer. Therefore, it is important for groundwater conservation districts to monitor whether or not they are achieving their desired future conditions and to work with the TWDB to refine managed available groundwater given the reality of how the aquifer responds to the actual magnitude and distribution of pumping now and in the future.

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Groundwater Management Area 10
Trinity Aquifer
Draft Managed Available Groundwater estimates
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STATE OF TEXAS

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**COUNTIES OF BEXAR,
CALDWELL, COMAL,
GUADALUPE, HAYS, KINNEY,
MEDINA, TRAVIS, AND
UVALDE**

**DRAFT
RESOLUTION No.
2010-11**

**THE JOINT COORDINATING COMMITTEE OF GROUNDWATER
MANAGEMENT AREA 10**

**RESOLUTION FOR THE ADOPTION OF THE DESIRED FUTURE
CONDITIONS OF THREE MINOR AQUIFERS IN THE UVALDE
COUNTY PORTION OF GROUNDWATER MANAGEMENT AREA 10**

**WHEREAS, THE JOINT COORDINATING COMMITTEE OF GROUNDWATER
MANAGEMENT AREA (GMA) 10 COMPRISES DELEGATES DESIGNATED BY THE
FOLLOWING GROUNDWATER CONSERVATION DISTRICTS (GCDs) LOCATED
WHOLLY OR PARTIALLY WITHIN GMA 10: BARTON SPRINGS/EDWARDS AQUIFER
CONSERVATION DISTRICT, EDWARDS AQUIFER AUTHORITY, GUADALUPE
COUNTY GCD, HAYS TRINITY GCD, KINNEY COUNTY GCD, MEDINA COUNTY GCD,
PLUM CREEK CD, TRINITY GLEN ROSE GCD, AND UVALDE COUNTY UWCD;**

**WHEREAS, CHAPTER 36.108 OF THE TEXAS WATER CODE, (JOINT PLANNING IN
MANAGEMENT AREA), REQUIRES THAT THE GROUNDWATER CONSERVATION
DISTRICTS IN THE GMA ADOPT DESIRED FUTURE CONDITIONS (DFCs) OF ALL
RELEVANT AQUIFERS IN THE GMA FOR A FIFTY-YEAR PLANNING PERIOD, NO
LATER THAN SEPTEMBER 1, 2010;**

**WHEREAS, THE BOARD PRESIDENTS OR THEIR DESIGNATED REPRESENTATIVES
OF THE GCDs IN GMA 10 HAVE MET AS A COMMITTEE IN VARIOUS MEETINGS
AND CONDUCTED JOINT PLANNING IN ACCORDANCE WITH CHAPTER 36.108 OF
THE TEXAS WATER CODE;**

WHEREAS, ONE OR MORE OF THE COMMITTEE MEMBERS OF GMA 10 HAVE HELD ONE OR MORE PUBLIC MEETINGS NOTICED AND POSTED IN ACCORDANCE WITH STATE LAW, AND HAVE REVIEWED AND DISCUSSED PERTINENT AQUIFER ASSESSMENTS BY THE TEXAS WATER DEVELOPMENT BOARD (TWDB) AND OTHERS WITH THE PUBLIC AND HAVE RECEIVED INPUT AND COMMENT FROM STAKEHOLDERS WITHIN THAT PART OF GMA 10 THAT USES AND IS AFFECTED BY USERS AND USES OF THE LEONA GRAVEL, BUDA LIMESTONE, AND AUSTIN CHALK AQUIFERS IN UVALDE COUNTY (TOGETHER, THE MINOR UVALDE AQUIFERS);

WHEREAS, RECENT HISTORIC GROUNDWATER PUMPING IN THE LEONA GRAVEL, AUSTIN CHALK, AND BUDA AQUIFERS IN THE UVALDE COUNTY PORTION OF THE NUECES RIVER BASIN AND GMA 10 (TOGETHER, THE MINOR UVALDE COUNTY AQUIFERS) HAS RESULTED IN NO LONG TERM DRAWDOWN IN GROUNDWATER LEVELS;

WHEREAS, THE MINOR UVALDE COUNTY AQUIFERS ARE HYDROLOGICALLY CONNECTED AMONG THEMSELVES AND ALSO WITH THE UNDERLYING EDWARDS AQUIFER, SUCH THAT THE TWDB CONSIDERS THE AQUIFERS IN AN EQUILIBRIUM AT THEIR PRESENT USAGE AND ARE SELF-REGULATING;

WHEREAS, THE JOINT COORDINATING COMMITTEE HAS DETERMINED THAT A DESIRED FUTURE CONDITION OF ZERO DRAWDOWN IN THE MINOR UVALDE COUNTY AQUIFERS WILL LIKELY RESULT IN CONTINUATION OF THIS LEVEL OF HISTORIC GROUNDWATER PUMPING BY BOTH EXEMPT AND NON-EXEMPT USERS;;

WHEREAS, THE APPROVAL OF THE DFCs FOR THESE AQUIFERS WAS DELIBERATED IN A PROPERLY NOTICED AND POSTED OPEN MEETING OF THE JOINT COORDINATING COMMITTEE OF GMA 10, WITH AT LEAST TWO-THIRDS OF THE VOTING MEMBERS OF THE COMMITTEE PRESENT, ON AUGUST 23, 2010, AT THE EDWARDS AQUIFER AUTHORITY CONFERENCE CENTER LOCATED AT 1615 N.ST.MARY'S ST., SAN ANTONIO, TEXAS 78215,;


NOW, THEREFORE, BE IT RESOLVED THAT THE DISTRICT MEMBERS OF GROUNDWATER MANAGEMENT AREA 10 TAKE THE FOLLOWING ACTIONS:

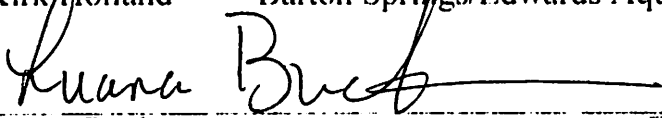
1. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION OF THE LEONA GRAVEL AQUIFER IN THE UVALDE COUNTY PART OF GMA 10: *REGIONAL AVERAGE WELL DRAWDOWN OF ZERO (0) FEET (INCLUDING EXEMPT AND NON-EXEMPT USE)*;
2. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION OF THE AUSTIN CHALK AQUIFER IN THE UVALDE COUNTY PART OF GMA 10: *REGIONAL AVERAGE WELL DRAWDOWN OF ZERO (0) FEET (INCLUDING EXEMPT AND NON-EXEMPT USE)*;

DFCs for Minor Uvalde County Aquifers in GMA 10


3. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION OF THE BUDA LIMESTONE AQUIFER IN THE UVALDE COUNTY PART OF GMA 10: *REGIONAL AVERAGE WELL DRAWDOWN OF ZERO (0) FEET (INCLUDING EXEMPT AND NON-EXEMPT USE)*; AND
4. REQUEST THE TWDB TO PROVIDE AN OFFICIAL ESTIMATE OF THE MANAGED AVAILABLE GROUNDWATER, AS DEFINED BY CHAPTER 36 OF THE TEXAS WATER CODE, THAT IS CONSISTENT WITH ACHIEVING THESE DFCs.


VOTED AND APPROVED THIS, THE ____th DAY OF _____, 2010, BY A VOTE OF __ AYES AND __ NAYS, CONSTITUTING AT LEAST A TWO-THIRDS MAJORITY OF THE VOTING MEMBERS PRESENT.


SIGNED 
Kirk Holland Barton Springs/Edwards Aquifer Conservation District

SIGNED 
Luana Buckner Edwards Aquifer Authority


SIGNED _____
Ron Naumann Guadalupe County GCD

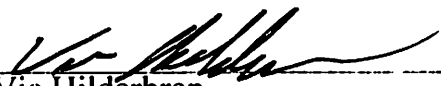
SIGNED 
David Baker Hays Trinity GCD

SIGNED 
~~Stan Metcalf~~ KEN CARVER Kinney County GCD

SIGNED 
Thomas Boehme Medina County GCD

SIGNED 
Daniel Meyer Plum Creek Conservation District

SIGNED 
George Wissmann Trinity Glen Rose GCD

SIGNED 
Vic Hilderbran Uvalde County UWCD