

**Mid-East Texas  
Groundwater  
Conservation District**

Groundwater Management Plan

*Draft for Board Review*

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# **Mid-East Texas Groundwater Conservation District Groundwater Management Plan – 2019**

The Mid-East Texas Groundwater Conservation District (the “District”) was created by the authority of Section 59, Article XVI, of the Texas Constitution, and in accordance with Chapter 36 of the Texas Water Code (“Water Code”), and by Article 4, House Bill 1784 [Act of May 28, 2001, 77<sup>th</sup> Leg. R.S., ch. 1307, 2001 Tex. Gen. Laws 3199, 3205] and Article 3, Part 15, Senate Bill 2 [Act of May 27, 2001, 77<sup>th</sup> Leg. R.S. ch. 967, 2001 Tex Gen Laws 1991, 2055]. The Enabling Act of the District has been codified under Chapter 8866, Special District Local Laws Code.

The District is a governmental agency and a body politic and corporate. The District was created to serve a public use and benefit, and is essential to accomplish the objectives set forth in Section 59, Article XVI, of the Texas Constitution. The District’s boundaries are coextensive with the boundaries of Freestone, Leon and Madison Counties, Texas, and lands and other property within these boundaries will benefit from the works and projects that will be accomplished by the District.

## **District Mission and Purpose of Management Plan**

The 75<sup>th</sup> Texas Legislature in 1997 enacted Senate Bill 1 (“SB 1”) to establish a comprehensive statewide water planning process. In particular, SB 1 contained provisions that required groundwater conservation districts to prepare management plans to identify the water supply resources and water demands that will shape the decisions of each district. SB 1 designed the management plans to include management goals for each district to manage and conserve the groundwater resources within their boundaries. In 2001, the Texas Legislature enacted Senate Bill 2 (“SB 2”) to build on the planning requirements of SB 1 and to further clarify the actions necessary for districts to manage and conserve the groundwater resources of the state of Texas.

The Texas Legislature enacted significant changes to the management of groundwater resources in Texas with the passage of House Bill 1763 (HB 1763) in 2005. HB 1763 created a long-term planning process in which groundwater conservation districts (GCDs) in each Groundwater Management Area (GMA) are required to meet and determine the Desired Future Conditions (DFCs) for the groundwater resources within their boundaries by September 1, 2010. In addition, HB 1763 required GCDs, to share management plans with the other GCDs in the GMA for review by the other GCDs.

The Mid-East Texas Groundwater Conservation District’s management plan satisfies the requirements of SB 1, SB 2, HB 1763, the statutory requirements of Chapter 36 of the Texas Water Code, and the administrative requirements of the Texas Water Development Board’s (TWDB) rules.

## Technical District Information Required by Texas Administrative Code

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

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

The joint planning process set forth in Texas Water Code § 36.108 must be collectively conducted by all groundwater conservation districts within the same GMA. The District is a member of GMA 12. GMA 12 adopted DFCs for the Carrizo-Wilcox, Queen City, Sparta and Yegua-Jackson aquifers on May 25, 2017. The adopted DFCs were then forwarded to the TWDB. The submittal letter for the DFCs can be found here:

[http://www.twdb.texas.gov/groundwater/dfc/docs/GMA12\\_DFCSubmittalLetter.pdf?d=20044.341900372143](http://www.twdb.texas.gov/groundwater/dfc/docs/GMA12_DFCSubmittalLetter.pdf?d=20044.341900372143)

The explanatory report along with appendices to the Texas Water Development Board used to convey the most recently adopted DFC’s for GMA 12 is found here:

[http://www.twdb.texas.gov/groundwater/dfc/docs/GMA12\\_DFCExpRep.pdf?d=20044.341900372143](http://www.twdb.texas.gov/groundwater/dfc/docs/GMA12_DFCExpRep.pdf?d=20044.341900372143)

[http://www.twdb.texas.gov/groundwater/dfc/docs/GMA12\\_DFCExpRep\\_Apps.pdf?d=20044.341900372143](http://www.twdb.texas.gov/groundwater/dfc/docs/GMA12_DFCExpRep_Apps.pdf?d=20044.341900372143)

The desired future conditions for the relevant major and minor aquifers as adopted by the Mid-East Texas Groundwater Conservation District are listed below:

| Aquifer                      | Desired Future Condition (DFC) based on average feet of drawdown |
|------------------------------|--|
| Carrizo                      | 80   |
| Calvert Bluff (Upper Wilcox) | 90   |
| Simsboro (Middle Wilcox)     | 138  |
| Hooper (Lower Wilcox)        | 125  |
| Queen City                   | 2  |
| Sparta                       | 5  |
| Yegua-Jackson                | 7  |

The modeled available groundwater for the Major and Minor Aquifers were developed based on TWDB GAM Runs as summarized below:

| Aquifer       | County    | Modeled Available Groundwater (MAG) AF/yr |       |       |       |       |       |       |
|---------------|-----------|---|-------|-------|-------|-------|-------|-------|
|               |           | 2010                                      | 2020  | 2030  | 2040  | 2050  | 2060  | 2069  |
| Carrizo       | Freestone | 44  | 369   | 366   | 357   | 347   | 346   | 346   |
| Carrizo       | Leon      | 694                                       | 8,108 | 8,051 | 8,110 | 8,193 | 8,200 | 8,200 |
| Carrizo       | Madison   | 1,478                                     | 2,861 | 2,770 | 2,656 | 2,554 | 2,543 | 2,543 |
| Calvert Bluff | Freestone | 878                                       | 754   | 734   | 728   | 714   | 714   | 714   |
| Calvert Bluff | Leon      | 2,817                                     | 2,819 | 2,953 | 3,065 | 3,189 | 3,201 | 3,201 |
| Calvert Bluff | Madison   | 4   | 0     | 0     | 0     | 0     | 0     | 0     |
| Simsboro      | Freestone | 1,254                                     | 3,582 | 3,589 | 3,585 | 3,552 | 3,550 | 3,550 |
| Simsboro      | Leon      | 263                                       | 3,359 | 3,457 | 3,538 | 3,617 | 3,623 | 3,623 |
| Simsboro      | Madison   | 0   | 0     | 0     | 0     | 0     | 0     | 0     |
| Hooper        | Freestone | 3,006                                     | 4,341 | 4,578 | 4,814 | 5,051 | 5,288 | 5,501 |
| Hooper        | Leon      | 0   | 0     | 0     | 0     | 0     | 0     | 0     |
| Hooper        | Madison   | 0   | 0     | 0     | 0     | 0     | 0     | 0     |
| Queen City    | Freestone | 0   | 0     | 0     | 0     | 0     | 0     | 0     |
| Queen City    | Leon      | 624                                       | 594   | 594   | 594   | 594   | 594   | 594   |
| Queen City    | Madison   | 148                                       | 380   | 380   | 380   | 380   | 380   | 380   |
| Sparta        | Leon      | 86  | 21    | 21    | 21    | 21    | 21    | 21    |
| Sparta        | Madison   | 1,401                                     | 3,320 | 3,322 | 3,322 | 3,322 | 3,322 | 3,322 |
| Yegua-Jackson | Leon      | 0   | 0     | 0     | 0     | 0     | 0     | 0     |
| Yegua-Jackson | Madison   | 809                                       | 809   | 809   | 809   | 809   | 809   | 809   |

MAG values for the Carrizo-Wilcox Aquifer were documented in TWDB GAM Run 17-030 MAG (Wade & Ballew, December 15, 2017).

MAG values for the Queen City Aquifer were documented in TWDB GAM Run 17-030 MAG (Wade & Ballew, December 15, 2017).

MAG values for the Sparta Aquifer were documented in TWDB GAM Run 17-030 MAG (Wade & Ballew, December 15, 2017).

MAG values for the Yegua-Jackson Aquifer were documented in TWDB GAM Run 17-030 MAG (Wade & Ballew, December 15, 2017)

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

Please refer to Appendix A.

***Annual Amount of Recharge From Precipitation to the Groundwater Resources within the District***

Please refer to Appendix B.

***Annual Volume of Water that Discharges from the Aquifer to Springs and Surface Water Bodies***

Please refer to Appendix B.

***Estimate of the Annual Volume of Flow into the District, out of the District, and Between Aquifers in the District***

Please refer to Appendix B.

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

Please refer to Appendix A.

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

Please refer to Appendix A.

***Water Supply Needs***

Please refer to Appendix A.

***Water Management Strategies***

Please refer to Appendix A.

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

An annual report (“Annual Report”) will be created by the general manager of the District and provided to the members of the Board of the District. The Annual Report will cover the activities of the District including information on the District’s performance in regards to achieving the District’s management goals and objectives. The Annual Report will be delivered to the Board each year coordinating collection of permitted pumping data, downloaded available drought information, and water level monitoring. A copy of the Annual Report will be kept on file and available for public inspection at the District’s offices upon adoption.

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

The District will implement the provisions of this management plan and will utilize the objectives of the plan as a guide for District actions, operations and decision-making. The District will ensure that planning efforts, activities and operations are consistent with the provisions of this plan.

The District has adopted rules in accordance with Chapter 36 of the Texas Water Code. The development of rules is based on the scientific information and technical evidence available to the District. Current rules are available at:

[http://www.mideasttexasgcd.com/20180123%20METGCD%20Rules%20\(FINAL\).pdf](http://www.mideasttexasgcd.com/20180123%20METGCD%20Rules%20(FINAL).pdf)

The District will encourage cooperation and coordination in the implementation of this plan. All operations and activities will be performed in a manner that encourages the cooperation of the citizens of the District and with the appropriate water management entities at the local, regional and state level.

The geology of the aquifers within the boundaries of the Mid-East Texas Groundwater Conservation District can be found by following the link below to a publication developed by the Texas Water Development Board (TWDB) entitled “*The Aquifers of Texas*”. This publication is an excellent resource to use regarding aspects and characteristics of the major and minor aquifers that provide groundwater resources for this District.

[http://www.twdb.texas.gov/publications/reports/numbered\\_reports/doc/R380\\_AquifersofTexas.pdf](http://www.twdb.texas.gov/publications/reports/numbered_reports/doc/R380_AquifersofTexas.pdf)

## **Management Goals**

### ***1. Providing for the Most Efficient Use of Groundwater in the District***

**1.1 Objective** – Each year, the District will require all new exempt or non-exempt wells that are constructed within the boundaries of the District to be registered with the District in accordance with the District rules.

**1.1 Performance Standard** – Each year the number of exempt and non-exempt wells registered by the District for the year will be incorporated into the Annual Report submitted to the Board of Directors of the District.

### ***2. Controlling and Preventing the Waste of Groundwater in the District***

**2.1 Objective** – Each year, the District will make an evaluation of the District Rules to determine whether any amendments are recommended to decrease the amount of waste of groundwater within the District.

**2.1 Performance Standard** – The District will include a discussion of the annual evaluation of the District Rules and whether any amendments to the rules are recommended to prevent the waste of groundwater in the Annual Report of the District provided to the Board of Directors.

**2.2 Objective** – The District will provide information to the public on eliminating and reducing wasteful practices in the use of groundwater.

**2.2 Performance Standard** – The District will post and maintain an article or a link to an article relevant to the public on eliminating and reducing wasteful practices in the use of groundwater.

### ***3. Controlling and Preventing Subsidence***

This Management Goal is not Applicable to the District.

### ***4. Conjunctive Surface Water Management Issues***

**4.1 Objective** – The District will participate in the regional planning process by attending and participating as a voting member for Groundwater Management Area 12 the Region C and Region H Regional Water Planning Group meetings.

**4.1 Performance Standard** – The attendance of a District representative to Region C and Region H Regional Water Planning Group meetings will be noted in the Annual Report.

5. *Natural Resource Issues Affecting the Use and Availability of Groundwater or affected by the Use of Groundwater*

This Management Goal is not Applicable to the District.

6. *Addressing Drought Conditions*

**6.1 Objective** – Each month, the District will download available drought information, for the counties in the District, from available websites on the internet.

**6.1 Performance Standard** – Quarterly, the District will make an assessment of the status of drought in the District and prepare a quarterly briefing for the Board of Directors. The downloaded maps, reports and information will be included with copies of the quarterly briefings, and combined with results of groundwater monitoring data and permitted pumping data in the District Annual Report to the Board of Directors.

7. *Addressing Conservation, Recharge Enhancement, Rainwater Harvesting, Precipitation Enhancement, and Brush Control*

**Conservation**

**7A.1 Objective** – The District will provide information relevant to public education and awareness regarding water conservation of the use of groundwater.

**7A.1 Performance Standard** – The District will post and maintain an article or a link to an article listed under water conservation on the District website.

**Recharge Enhancement**

This management goal is not applicable to the District.

**Rainwater Harvesting**

**7C.1 Objective** – The District will provide information relevant to public education and awareness regarding rainwater harvesting.

**7C.1 Performance Standard** – The District will post and maintain an article or a link to an article listed under rainwater harvesting on the District website.

**Precipitation Enhancement**

This management goal is not applicable to the District.

**Brush Control**

This management goal is not applicable to the District

**8. *Addressing in a quantitative manner the desired future conditions (DFC) of the groundwater resources in the District***

**8.1 Objective** – The desired future conditions for the Sparta, Queen City, Carrizo, and Wilcox aquifers established for the District were based on GAM Run 18-020 using the updated groundwater availability model (GAM) for the Central Portion of the Carrizo-Wilcox, Queen City, and Sparta Aquifers approved by the TWDB in September of 2018. The model results include cell by cell estimates of groundwater elevations and drawdown for each year of the predictive period (2010 to 2060). In order to assess the desired future condition in the District, these model results will be compared annually to groundwater monitoring data that is available from the TWDB groundwater database and from wells currently monitored by METGCD staff.

**8.1 Performance Standard** – In spring of each year, the District will download groundwater data from the Texas Water Development Board groundwater database for wells within the district as well as for select wells in neighboring counties, including Anderson, Brazos, Limestone, Robertson, and Walker Counties. As of spring of 2019 there are 33 wells within the district boundaries (see Table 3 below) and 18 wells located near the borders of the district within the adjacent counties (see Table 4 below) that have multiple water level measurements from around the start of year 2000. The measured water levels and drawdowns in these wells will be compared to the modeled water levels from the corresponding model grid cells. The comparisons will be summarized in tabular and graphical form in an Annual Report, prepared by the general manager and submitted to the board, which can be used to evaluate the measured drawdowns within the district relative to the current accepted desired future conditions.

**Table 3. Table of monitoring wells with multiple water level measurements within the Mid East Texas Groundwater Conservation District.**

| <b>State Well#</b> | <b>County</b> | <b>Casing Depth</b> | <b>Well Depth</b> | <b>Aquifer</b> | <b>Water Level Measurements</b> |               |              |
|--------------------|---------------|---------------------|-------------------|----------------|---------------------------------|---------------|--------------|
|                    |               |                     |                   |                | <b>First</b>                    | <b>Latest</b> | <b>Count</b> |
| 39-14-702          | Freestone     | 90                  | 200               | Hooper         | 11/12/1999                      | 10/13/2017    | 18           |
| 39-15-802          | Freestone     | 416                 | 496               | Hooper         | 11/8/1999                       | 10/10/2018    | 19           |
| 39-23-101          | Freestone     | 169                 | 242               | Hooper         | 11/8/1999                       | 10/10/2018    | 18           |
| 39-23-404          | Freestone     | 260                 | 350               | Simsboro       | 11/8/1999                       | 10/10/2018    | 17           |
| 39-30-605          | Freestone     | N/A                 | 421               | Hooper         | 9/11/2000                       | 1/6/2016      | 15           |
| 39-31-301          | Freestone     | 266                 | 629               | Simsboro       | 11/8/1999                       | 10/9/2018     | 20           |
| 39-32-205          | Freestone     | 302                 | 324               | Calvert Bluff  | 11/8/1999                       | 10/9/2018     | 20           |
| 38-26-109          | Leon          | 260                 | 367               | Carrizo        | 9/12/2000                       | 10/23/2012    | 13           |
| 38-26-401          | Leon          | N/A                 | 840               | Calvert Bluff  | 9/12/2000                       | 10/11/2018    | 13           |
| 38-26-706          | Leon          | N/A                 | 57                | Queen City     | 11/15/1999                      | 10/9/2018     | 18           |
| 38-41-203          | Leon          | 137                 | 169               | Queen City     | 11/15/1999                      | 10/9/2018     | 17           |
| 38-42-705          | Leon          | 583                 | 654               | Queen City     | 11/15/1999                      | 10/8/2018     | 16           |
| 38-43-101          | Leon          | 616                 | 676               | Carrizo        | 11/15/1999                      | 10/8/2018     | 20           |
| 38-49-802          | Leon          | 1016                | 1120              | Carrizo        | 11/12/1999                      | 10/8/2018     | 20           |
| 38-50-102          | Leon          | 520                 | 550               | Queen City     | 11/12/1999                      | 10/8/2018     | 17           |
| 38-50-301          | Leon          | 205                 | 220               | Queen City     | 11/15/1999                      | 10/8/2018     | 19           |
| 39-40-303          | Leon          | 65                  | 192               | Queen City     | 11/16/1999                      | 10/9/2018     | 19           |
| 39-40-601          | Leon          | 391                 | 400               | Carrizo        | 11/15/1999                      | 1/7/2016      | 18           |
| 39-40-906          | Leon          | 790                 | 840               | Calvert Bluff  | 11/15/1999                      | 10/9/2018     | 20           |
| 39-54-602          | Leon          | 336                 | 356               | Carrizo        | 11/15/1999                      | 10/9/2018     | 19           |
| 39-54-604          | Leon          | 123                 | 200               | Carrizo        | 11/15/1999                      | 10/9/2018     | 21           |
| 39-55-302          | Leon          | 503                 | 544               | Carrizo        | 11/16/2000                      | 10/9/2018     | 17           |
| 39-55-701          | Leon          | 211                 | 253               | Queen City     | 11/15/1999                      | 10/9/2018     | 18           |
| 39-55-902          | Leon          | 685                 | 731               | Carrizo        | 11/15/1999                      | 10/9/2018     | 18           |
| 39-56-301          | Leon          | 407                 | 432               | Queen City     | 11/15/1999                      | 10/9/2018     | 20           |
| 39-64-705          | Leon          | 1080                | 1202              | Carrizo        | 11/12/1999                      | 10/8/2018     | 19           |
| 38-58-502          | Madison       | 248                 | 270               | Yegua-Jackson  | 11/11/1999                      | 10/8/2018     | 20           |
| 39-64-901          | Madison       | 417                 | 441               | Sparta         | 11/10/1999                      | 10/8/2018     | 19           |
| 59-08-701          | Madison       | 611                 | 645               | Sparta         | 11/10/1999                      | 10/8/2018     | 19           |
| 59-08-903          | Madison       | 305                 | 330               | Yegua-Jackson  | 11/10/1999                      | 10/23/2017    | 20           |
| 59-16-102          | Madison       | 598                 | 682               | Yegua-Jackson  | 11/10/1999                      | 10/8/2018     | 20           |
| 60-01-502          | Madison       | 1016                | 1060              | Sparta         | 11/10/1999                      | 10/20/2016    | 17           |
| 60-03-102          | Madison       | 240                 | 273               | Yegua-Jackson  | 11/11/1999                      | 10/23/2017    | 17           |

**Table 4. Table of monitoring wells with multiple water level measurements in areas directly adjacent to the Mid East Texas Groundwater Conservation District.**

| <b>State Well#</b> | <b>County</b> | <b>Casing Depth</b> | <b>Well Depth</b> | <b>Aquifer</b> | <b>Water Level Measurements</b> |               |              |
|--------------------|---------------|---------------------|-------------------|----------------|---------------------------------|---------------|--------------|
|                    |               |                     |                   |                | <b>First</b>                    | <b>Latest</b> | <b>Count</b> |
| 38-01-102          | Anderson      | 467                 | 510               | Hooper         | 11/6/2000                       | 11/15/2018    | 20           |
| 38-02-402          | Anderson      | 548                 | 630               | Calvert Bluff  | 11/18/1999                      | 11/15/2018    | 21           |
| 38-03-101          | Anderson      | 77                  | 77                | Queen City     | 11/18/1999                      | 11/16/2018    | 21           |
| 38-10-111          | Anderson      | 732                 | 790               | Simsboro       | 11/18/1999                      | 11/15/2018    | 19           |
| 38-10-205          | Anderson      | 630                 | 680               | Calvert Bluff  | 11/18/1999                      | 11/15/2018    | 17           |
| 38-19-802          | Anderson      | 356                 | 408               | Carrizo        | 11/16/1999                      | 11/15/2018    | 21           |
| 59-14-101          | Brazos        | N/A                 | 133               | Sparta         | 11/8/1999                       | 7/8/2015      | 50           |
| 39-29-801          | Limestone     | 210                 | 250               | Hooper         | 11/12/1999                      | 10/10/2018    | 23           |
| 39-37-601          | Limestone     | 117                 | 353               | Simsboro       | 11/12/1999                      | 10/10/2018    | 20           |
| 39-37-801          | Limestone     | 260                 | 446               | Hooper         | 11/12/1999                      | 10/10/2018    | 20           |
| 39-38-902          | Limestone     | 237                 | 268               | Calvert Bluff  | 11/12/1999                      | 10/9/2018     | 18           |
| 39-45-202          | Limestone     | 370                 | 539               | Hooper         | 11/12/1999                      | 10/10/2018    | 19           |
| 39-46-702          | Robertson     | 620                 | 660               | Calvert Bluff  | 11/9/1999                       | 3/12/2018     | 52           |
| 39-53-703          | Robertson     | N/A                 | 450               | Calvert Bluff  | 11/9/1999                       | 6/12/2018     | 22           |
| 39-61-501          | Robertson     | 1134                | 1202              | Simsboro       | 11/9/1999                       | 3/14/2018     | 59           |
| 59-05-101          | Robertson     | N/A                 | 38                | Queen City     | 11/9/1999                       | 3/14/2018     | 50           |
| 59-05-301          | Robertson     | 255                 | 750               | Carrizo        | 11/9/1999                       | 6/12/2018     | 23           |
| 60-03-902          | Walker        | 2254                | 2314              | Sparta         | 11/11/1999                      | 1/17/2019     | 15           |