		7.1	Comments Received by Brazos Valley GCD						
		7.2	Comments Received by Fayette County GCD	<u>59</u> 58					
		7.3	Comments Received by Lost Pines GCD	<u>59</u> 58					
		7.4	Comments Received by Mid-East Texas GCD	<u>59</u> 58					
		7.5	Comments Received by Post Oak Savannah GCD	<u>5958</u>					
	8.0	SUMM	1ARY	<u>62</u> 60					
		8.1	Summary of DFCs	<u>6260</u>					
		8.2	Rationale and Justification for DFC Selection	<u>6462</u>					
	9.0	REFER	ENCES	<u>66</u> 64					
	Appen	dix A:	Agendas and Minutes for GMA 12 Joint Groundwater Planning Meetings from 2017	2012 to					
	Appen	dix B:	GMA-12 Resolution for Proposed DFCs Dated April 15, 2016						
	Appen	dix C:	Notices of and Minutes for GCD Public Hearings on Proposed GMA 12 DFCs						
Appendix D:		dix D:	Documentation of GMA 12 Boundary Amendment in Brazos Valley GCD						
	Appen	dix E:	December 1, 2016 Presentation "Summary of Results of PS-10 Simulation"						
	Appendix <u>F</u> E:		May 28, 2015 Presentation "GMA 12 Aquifer uses and Conditions Consideration Discussion"						
Appendix <u>G</u> F:		dix <u>G</u> F:	June 25, 2015 Presentation "GMA 12: Needs and Strategies"						
Appendix <u>H</u> G:		dix <u>H</u> G:	TERS for GMA 12 (GAM Task 12-035)						
Appendix <u>I</u> H:		dix <u>I</u> H:	GAM Run 13-002 for Fayette County GCD						
Appendix <u>J</u> ‡:		dix <u>I</u> I:	GAM Run 10-014 for Lost Pines GCD						
	Appen	dix <u>K</u> J:	GAM Run 10-029 for Post Oak Savannah GCD						
	Appen	dix <u>L</u> K:	GAM Run 14-005 for Brazos Valley GCD						
	(f) (i)	dix <u>M</u> Ł:		0000					
		dix <u>N</u> ₩:							
		dix <u>O</u> N:	The state of the s						
		dix <u>P</u> O:	August 13, 2015 Presentation "GMA 12 Socioeconomic Impacts Consideration						
	Appen	dix QP:	June 25, 2015 Presentation "Groundwater Management Area 12: Consideration of the control of the						
			Impact on the Interests and Rights in Private Property in the Adoption of Desir	red Future					
I	198	1: 00	Conditions of Aquifers"						
		dix RQ:	10 10 A S T T T T T T T T T T T T T T T T T T						
		dix <u>SR</u> :	GMA 12's Responses to Comments for Brazos Valley GCD GMA 12's Responses to Comments for Lost Pines GCD						
	0.0	dix <u>T</u> S:	GMA 12's Responses to Comments for Post Oak Savannah GCD						
	Appen	dix <u>U</u> ∓:	GIVIA 12 S Responses to Comments for Post Oak Savannan GCD						
	Appen	dix V:	Comments received from TWDB on initial submittal of DFCs						
	LIST	OF F	IGURES						
	Figure	1-1	Groundwater Management Areas in Texas	7					

Figure 1-2

Figure 1-3

Meeting Date	Quorum Present	Major Discussion Topic				
		River alluvium DFCs, receive public comments on impact of DFCs on GW/SW interaction				
March 24, 2016	Yes	Presentation of GAM results for a modified Predictive Scenario 5 (PS5)				
April 15, 2016	Yes	Proposed GMA 12 DFCs approved and released for public comment				
October 11, 2016	Yes	Presentation on GAM results for Predictive Scenario 10 (PS10), discussion of comments received on GMA 12 DFCs.				
December 1, 2016	Yes	Discussed and accepted submission of Predictive Scenario 10 (PS10) in lieu of Predictive Scenario 6 (PS6) for purposes of evaluation of proposed DFCs.				
April 27, 2017	Yes	Discussed draft of Explanatory Report for GMA 12 DFCs				
May 25, 2017	Yes	Adoption of GMA 12 DFCs and Explanatory Report				
September 20, 2017	Yes	Adoption of updated GMA 12 DFC Resolution and Explanatory Report (with PS12 pumping)				

^{*} Denotes the nine factors required during considerations for DFCs under Texas Water Code Section 36.108

Table 1-4 Public hearings conducted by the GCDs regarding the proposed DFCs.

GCD	Public Hearing Date
Brazos Valley GCD	May 12 & June 9, 2016
Fayette County GCD	July 11, 2016
Lost Pines GCD	July 20, 2016
Mid-East Texas GCD	June 28, 2016
Post Oak Savannah GCD	July 12, 2016

2.0 GMA 12 DESIRED FUTURE CONDITIONS

2.1 Sparta, Queen City, Carrizo, Calvert Bluff, Simsboro, and Hooper Aquifers

The Sparta, Queen City, and Carrizo aquifers are present and used in all GCDs within GMA 12. Therefore, all GCDs submitted DFCs for these aquifers. The Calvert Bluff, Simsboro, and Hooper aquifers are present in all GCDs but not used in Fayette County. Therefore, GMA 12 declared these aquifers not relevant for Fayette County, and Fayette County GCD did not submit a DFC for these aquifers. For the purpose of establishing DFCs, the Groundwater Availability Model (GAM) for the Queen City and Sparta Aquifers (Kelley and others, 2004) was used to determine the compatibility and physical possibility of the DFCs proposed by each GCD. Note that this GAM also includes the Carrizo-Wilcox Aquifer. The DFCs proposed by each GCD for these six aquifers are provided in **Table 2-1**, as well as the DFC adopted by GMA 12 as a whole. The DFC is based on the average drawdown from January 2000 through December 2069.

Table 2-1 Adopted DFCs for the Sparta, Queen City, Carrizo, Calvert Bluff, Simsboro, and Hooper Aquifers

GCD or County	Average Aquifer Drawdown (ft) measured from January 2000 through December 2069						
	Sparta	Queen City	Carrizo	Calvert Bluff	Simsboro	Hooper	
Brazos Valley GCD	12	12	61	125	295	207	
Fayette County GCD	47	64	110	Declar	Declared as non-relevant		
Lost Pines GCD	5	15	62	100	240	165	
Mid-East Texas GCD	5	2	80	90	138	125	
Post Oak Savannah GCD	28	30	67	149	318	205	
Falls County	-		-		-2	27	
Limestone County	-	-	22	11	50	50	
Navarro County				-1	3	3	
Williamson County				-11	47	69	
GMA-12	16	16	75	114	228	168	

2.2 Yegua-Jackson Aquifer

The Yegua-Jackson Aquifer is present in all GCDs in GMA 12. All GCDs except Brazos Valley GCD manage the Yegua-Jackson Aquifer as a single unit. Consequently, the Brazos Valley GCD adopted two DFCs for the Yegua-Jackson Aquifer: a DFC for the Jackson Aquifer and separate DFC for the Yegua Aquifer. The DFCs proposed by each GCD for the Yegua-Jackson Aquifer are provided in **Table 2-2**, as well as the DFC adopted by GMA 12 as a whole. Lost Pines GCD did not propose a DFC because the district has declared the Yegua-Jackson Aquifer as a non-relevant aquifer. For the purpose of establishing and evaluating DFCs, the GAM for the Yegua-Jackson Aquifer (Deeds and others, 2010) was used to determine the

held in 2014 and 2015. These simulation results showed a substantial increase in the drawdowns within GMA 12, particularly for the Simsboro Aquifer. This was because pumping from the Simsboro Aquifer in these simulations was significantly higher than in the model simulation utilized to establish DFCs in the first cycle of GMA planning ending in 2010. The pumping scenario PS-6 included updated pumping for 2000 through 2010 based on TWDB and GCD pumping data. Based on comments received on the proposed DFCs, an additional simulation, PS-10, was developed. The results of that simulation were presented to GMA 12 on December 1, 2016. This simulation included the areal redistribution of pumping in Robertson County from the Simsboro Aquifer to better represent the areas where the greatest amounts of pumping were occurring and were estimated to occur in the future. The timing and total amount of pumping from the Simsboro Aquifer in Robertson County as a whole did not change. In the north part of Brazos County, pumping from the Simsboro Aquifer was added to the PS-6 value for the period from 2011 through 2039. Based on comments received from the Texas Water Development Board on the GMA 12 DFCs, it was necessary to update the PS-10 pumping scenario to adjust pumpage in the Lost Pines GCD so that the approved DFCs would be met. The results of this simulation were presented to GMA 12 on September 20, 2017 and a copy of that presentation is included in Appendix E. With these changes, PS 10PS-12 was accepted as the well file utilized to evaluate GMA 12 DFCs. Table 4-1 provides the average drawdowns simulated using PS-10PS-12.

Table 4-1 Average Aquifer Drawdown calculated for Sparta, Queen City, Carrizo, Calvert Bluff, Simsboro, and Hooper Aquifers using PS-10PS-12.

GCD or County	Average Aquifer Drawdown (ft) measured from January 2000 through December 2069						
and the second	Sparta	Queen City	Carrizo	Calvert Bluff	Simsboro	Hooper	
Brazos Valley GCD	12	13	61	126 125	296 295	209 208	
Fayette County GCD	46	63	109	Declared as non-relevant 470277283			
Lost Pines GCD	4	16	68	110 109	257 251	185 181	
Mid-East Texas GCD	1	-3	81	90	138	126 125	
Post Oak Savannah GCD	28	30	67	149 148	325 322	207 206	
Falls County) ,				-2	27	
Limestone County		=	==	12	51	55	
Navarro County	-	44		-1	5	5	
Williamson County	-			-11	47	69	
GMA-12	18	19	76	117	231	173	

4.3 Yegua-Jackson GAM

The proposed DFCs for the Yegua-Jackson aquifers were developed based on simulations of potential scenarios of future pumping using the GAM for the Yegua-Jackson (Deeds and others, 2010). The Yegua-Jackson Aquifer is a minor aquifer in Texas that is primarily used for rural domestic water uses. The

7.0 RECOMMENDATIONS AND COMMENTS RECEIVED

This section provides a summary of the comments received by GMA 12 and GMA 12 member GCDs on the proposed DFCs and during the 90-day period for public comment on the DFCs proposed by GMA 12. Comments received by GMA 12 or GMA 12 member GCDs on the proposed DFCs during the 90-day comment period are summarized in **Table 7-1**. Only specific comments on the proposed DFCs are addressed in this Explanatory Report. Because of the lengthy nature of these comments and responses, only a summary is provided here. The full text of the comments and GMA 12's response to the comments are provided in **Appendices S** through **U**.

7.1 Comments Received by Brazos Valley GCD

Two sets of comments in Table 7-1 were received by the Brazos Valley GCD. One set of comments was from the City of Bryan and another was from Cathy Lazarus. The comments and GMA 12's responses to them are provided in **Appendix SR**.

7.2 Comments Received by Fayette County GCD

No comments were received by the Fayette County GCD on the proposed DFCs.

7.3 Comments Received by Lost Pines GCD

Four sets of comments in Table 7-1 were received by the Lost Pines GCD; three written comments and one set of oral comments at the public hearing held by the Lost Pines GCD on July 20, 2016. These include:

- Environmental Stewardship
- Thornhill Group Inc. on behalf of Forestar
- Lower Colorado River Authority
- Mr. Hugh Brown

These comments and GMA 12's responses to them are provided in Appendix TS.

7.4 Comments Received by Mid-East Texas GCD

No comments in Table 7-1 were received by the Mid-East Texas GCD on the proposed DFCs.

7.5 Comments Received by Post Oak Savannah GCD

No comments in Table 7-1 were received by Post Oak Savannah GCD. Post Oak Savannah GCD did respond to a set of comments submitted by Mr. Curtis Chubb on 3/27/2015. These comments and GMA 12's responses to them are provided in **Appendix UT**.

7.6 Comments Received from Texas Water Development Board

<u>Comments were received from the Texas Water Development Board following the initial submittal of the proposed DFCs.</u> Responses to the comments are provided in **Appendix V**.