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March 22, 2024

Brian McMath Interim Executive Director Texas Water Development Board 1700 Congress Avenue Austin, Texas 78701

Re: Amendment to the 2021 Region F Water Plan
Determination of Minor Amendment Status

Dear Mr. McMath:

Freese and Nichols, Inc. (FNI) is transmitting a draft amendment package, attached with this letter, to the Texas Water Development Board (TWDB) on behalf of the Region F Water Planning Group (RFWPG). This amendment request is in response to the infeasible strategy review of the 2021 Region F Water Plan, as required by Texas Water Code 16.053(h)(10). During the review process four strategies were identified as needing changes to meet the feasibility criteria. These changes were considered by the RFWPG at its February 1, 2024, regular public meeting. The RFWPG took formal action at the meeting to approve the submittal of this package to TWDB for review by your staff in final determination of minor amendment status.

The RFWPG plans to address this matter at their May meeting following this determination. Should you have any further questions regarding this submittal, please feel free to contact Lissa Gregg at 817-735-7328 or <u>Lissa.Gregg@freese.com</u>.

Sincerely,

Simone Kiel

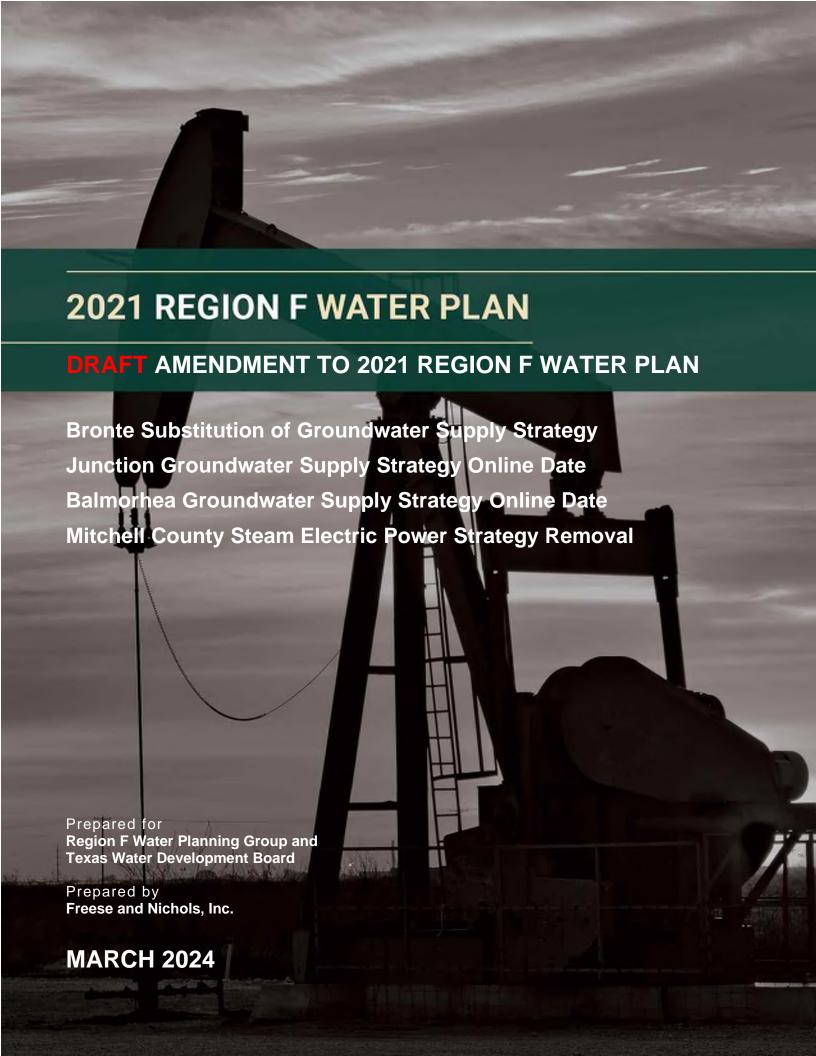
Freese and Nichols, Inc. Consultant for RFWPG

Simone Kiel

cc: Cole Walker, Chair, RFWPG

Heather Rose, TWDB

Attachments



DRAFT AMENDMENT TO 2021 REGION F REGIONAL WATER PLAN:

Bronte Substitution of Groundwater Supply Strategy

Junction Groundwater Supply Strategy Online Date

Balmorhea Groundwater Supply Strategy Online Date

Mitchell County Steam Electric Power Strategy Removal

Prepared for:

Region F Water Planning Group and Texas Water Development Board

Prepared by:

Freese and Nichols, Inc.

TBPE Reg. No. F-2144

MARCH 2024

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Attachment 1 Changes to Appendix C – Water Management Strategy Evaluation Technical Memorandums

Attachment 2 Changes to Appendix D - Cost Tables

Attachment 3 Changes to Appendix E - Strategy Evaluation Matrix

Attachment 4 Changes to Appendix F - WMS Tables

Attachment 5 Documentation of Administrative and Public Process

(To be provided with final submittal)

Water Measurements

1 acre-foot (AF) = 43,560 cubic feet = 325,851 gallons

1 acre-foot per year (ac-ft/yr) = 325,851 gallons per year = 893 gallons per day 1 gallon per minute (gpm)

= 1,440 gallons per day = 1.6 ac-ft/yr

1 million gallons per day (mgd) = 1,000,000 gallons per day = 1,120 ac-ft/yr

A.1 INTRODUCTION AND PLANNING GROUP ACTION

The Texas legislature passed a new requirement for the 2026 regional water planning cycle that requires Regional Water Planning Groups (RWPGs) to review strategies and projects that were previously adopted during the 2021 planning cycle for potential infeasibility. Infeasible Water Management Strategies (WMSs) are defined as "WMSs where proposed sponsors have not taken an affirmative vote or other action to make expenditures necessary to construct or file applications for permits required in connection with implementation of the WMS on a schedule in order for the WMS to be completed by the time the WMS is needed to address drought in the plan." If any strategy is determined to be infeasible, the RWPG must amend their 2021 plan to address these infeasible strategies (and associated projects) by either shifting the online decade so that it becomes feasible, removing and replacing it with a new feasible strategy to meet the same need, or removing the strategy and leaving the need unmet.

As part of the infeasible strategy review, four strategies with an online date of 2020 in the 2021 plan were found to be infeasible and require an amendment to the 2021 Region F Water Plan (RWP). This amendment addresses changes to the infeasible strategies and associated projects identified for the Cities of Bronte, Junction, Balmorhea, and steam electric power in Mitchell County.

The City of Bronte requested that the 2021 Region F RWP be amended to include development of Edwards-Trinity Plateau Aquifer supplies in Nolan County as a recommended WMS to replace their previously recommended strategy to develop Other Aquifer supplies in southwest Coke County. The development of groundwater supplies in Nolan County was included as an alternative WMS in the 2021 RWP for Bronte and Robert Lee. The City of Bronte also requested their development of Other Aquifer supplies strategy in southwest Coke County to be changed from a recommended WMS to an alternative WMS.

Colorado City requested to remove their recommended strategy to sell reuse water to steam electric power (SEP) for new FGE Texas plants in Mitchell County. The FGE project has not moved forward yet, so the strategy is proposed to be removed from the 2021 Region F RWP. In addition, the City of Junction and the City of Balmorhea are proposing to amend the online dates of their recommended strategies for developing additional Edwards-Trinity Plateau Aquifer supplies in Kimble and Reeves counties, respectively, from 2020 to 2030 in the 2021 Region F RWP.

On February 1, 2024, the Region F Water Planning Group (RFWPG) held a regular public meeting where it received a presentation regarding these amendment requests and accepted public comments. At the same meeting, the RFWPG requested their consultants submit an application package to Texas Water

Development Board (TWDB) for confirmation of minor amendment status for these changes to the 2021 Region F RWP. The subsequent sections of this amendment package detail proposed changes to the 2021 Region F RWP and document the associated administrative and public processes.

A1.1 SUMMARY OF AMENDMENTS AND ASSOCIATED EVALUATION

A.1.1.1 City of Bronte

The City of Bronte provides retail water to its customers and wholesale water to the City of Robert Lee in Coke County. This supply primarily comes from groundwater from an unknown aquifer (classified as Other Aquifer) in Coke County. Bronte also has a contract with the City of Sweetwater for water from Oak Creek Reservoir (City of Sweetwater), but this reservoir has no reliable supply according to the Colorado River Basin Water Availability Model (WAM) used for the 2021 Region F RWP. Also, the infrastructure to transport the surface water requires rehabilitation. Therefore, for planning purposes, the currently available supply for the City of Bronte comes entirely from groundwater. In the 2021 Region F RWP the City of Bronte is shown to have a need to meet their retail demands and wholesale demands for the City of Robert Lee. The 2021 Region F RWP includes four recommended WMS/projects (not including conservation) for the City of Bronte: 1) subordination of downstream Colorado River Basin water rights to the upper surface water rights, 2) rehabilitate the Oak Creek Reservoir pipeline, 3) expand the existing water treatment plant, and 4) develop Other Aquifer supplies in southwest Coke County. The Region F Water Plan also includes an alternative WMS to develop Edwards-Trinity Aquifer supplies in Nolan County as a joint strategy for the cities of Bronte and Robert Lee.

In the 2021 Region F RWP, the WMS to develop Other Aquifer supplies in Coke County was scheduled to come online by 2020 to meet the City's needs. Since the plan was developed, the City has decided to pursue development of new groundwater supply in Nolan County rather than Coke County. This replacement WMS proposes to use all remaining Edwards-Trinity Aquifer groundwater in the Colorado Basin portion of Nolan County, which is 178 acre-feet per year after accounting for Modeled Available Groundwater (MAG) allocated to existing supplies and other recommended water management strategies. The proposed online decade of this WMS is 2030. Major project components include drilling 5 new wells and infrastructure to transmit the water to Bronte. The new well field has a planned capacity of 178 acre-feet per year. The updated capital costs are \$4.2 million with a unit cost of \$5.74 per 1,000 gallons (kgal) during amortization and \$0.60 per kgal after amortization. With this strategy substitution, the City of Bronte and its customers (Robert Lee and part of Coke County-Other) show a total unmet need of 443 acre-feet in 2020 after conservation due to the change in the online date. After the strategy comes

online in 2030, there are no unmet needs for Bronte and its customers throughout the planning horizon. The City and its customers did not experience a water shortage in 2020.

A.1.1.2 City of Junction

The City of Junction holds surface water rights from the South Llano River in the Colorado River Basin, which is the City's only current water supply. Based on the Colorado River Basin WAM used for the 2021 Region F RWP, this supply is insufficient to meet the City's projected demands even with the subordination strategy. To meet the City's needs, the 2021 Region F RWP recommended the City develop groundwater supplies from the Edwards-Trinity Plateau Aquifer in Kimble County. This strategy included drilling 7 new wells with an annual yield of 370 ac-ft. The online date for this project was scheduled for 2020; however, the City has not yet moved forward on this strategy and is proposing to move the online date from 2020 to 2030. This will create an unmet need of 368 acre-feet after conservation for Junction in 2020. After the strategy comes online in 2030, there are no unmet needs for Junction throughout the planning horizon. There are no other changes to this strategy.

A.1.1.3 City of Balmorhea

The City of Balmorhea supplies its own municipal users, as well as the City of Toyah (classified under County-Other) and is supplied entirely by groundwater from the Edwards-Trinity Plateau and Pecos Valley Aquifers in Jeff Davis County (Region E). The currently developed supply from this groundwater source is limited, and therefore, in the 2021 Region F RWP, the City was projected to have a shortage of 107 acrefeet per year in 2020 and 147 acre-feet per year in 2070. Development of additional groundwater from the Edwards-Trinity Plateau in Reeves County was recommended to meet this need. The water management strategy included drilling 2 new wells with an annual yield of 150 ac-ft. The online date for this project was scheduled for 2020; however, the City has not yet moved forward on this strategy and is proposing to move this online date from 2020 to 2030. This will create an unmet need of 105 acre-feet in 2020 after conservation for Balmorhea. After the strategy comes online in 2030, there are no unmet needs for Balmorhea throughout the planning horizon. There are no other changes to this strategy.

A.1.1.4 Mitchell County Steam Electric Power

Mitchell County Steam Electric Power (SEP) water demand includes the existing Luminant Morgan Creek facility and two proposed FGE Power facilities. During the development of the 2021 Region F RWP, the development of the FGE facilities was speculative and contingent upon market conditions. A recommended strategy was included for Colorado City to sell 500 acre-feet annually of their wastewater effluent to FGE to use as cooling water for these new facilities. Since the 2021 RWP was adopted, the facilities have not been built and this strategy has not been implemented. Thus, no affirmative action has been taken to implement the project and it is recommended to remove the strategy from the 2021 Region

F RWP. Removal of This strategy increases the existing unmet need in Mitchell County for Steam Electric Power by 500 acre-feet to 9,156 acre-feet in 2020 and 9,226 acre-feet by 2070. It is noted that this need may or may not ever come to fruition. If the FGE facilities are developed, this strategy could be reconsidered as a feasible alternative for a portion of the water supply needed.

A.1.1.5 Analyses Associated with Amendment

The WMSs and associated projects for this amendment have been evaluated in accordance with applicable statutes, rules, TWDB guidance, and the contractual requirements of the 2021 RWP. Technical analyses were performed to the same standards as those for the other recommended WMSs and projects in the 2021 Region F RWP, including but not limited to evaluations of supply development, environmental considerations, permitting and development, cost estimation, application of the RFWPG's approved WMS evaluation process, and identification of applicable Water User Groups (WUGs). All chapters and appendices of the RWP were reviewed and revised if applicable to reflect the amendment. These analyses and resultant changes are documented in the following report sections, attachments, and in the electronic data provided to TWDB along with this report. Due to changes in RWP requirements and TWDB processes subsequent to the adoption of the 2021 Region F RWP, this amendment packet does not include a revised project prioritization submittal.

A.2 CONSISTENCY WITH 31 TAC §357.51(C)(2)

This submittal documents that the amendment to incorporate the proposed WMS and project changes meet the requirements for minor amendments based upon TWDB guidance and the requirements of Title 31 Texas Administrative Code (TAC) §357.51(C)(2). The amendment was evaluated for consistency with each of the elements of 31 TAC§357.51(C)(2).

- 31 TAC§357.51(C)(2)(A) "does not result in over-allocation of an existing or planned source of water"
 - The amendment does not impact source availability or result in the over-allocation of an existing or planned source of water.
- 31 TAC§357.51(C)(2)(B) "does not relate to a new reservoir"
 The amendment is associated with existing sources and does not relate to a new reservoir.
- 31 TAC§357.51(C)(2)(C) "does not increase unmet needs or produce new unmet needs in the adopted RWP unless the increase in unmet needs or new unmet needs is the result of removing infeasible WMSs and/or WMSPs in accordance with subsection (g) of this section and Texas Water Code §16.053(h)(10)"
 - The amendment creates and increases unmet needs in the RWP; however, this is a result of removing infeasible WMSs in accordance with subsection (g) of this section and Texas Water Code §16.053(h)(10). This amendment summarizes the determination of why the proposed

WMSs and associated projects were deemed to be infeasible or were altered. In addition, this amendment summarizes changes to unmet needs as a result of the removal and changes to the proposed WMSs and associated projects.

• 31 TAC§357.51(C)(2)(D) – "does not have a significant effect on instream flows, environmental flows or freshwater flows to bays and estuaries"

The amendment does not have an effect on instream flows, environmental flows, or freshwater flows to bays and estuaries. The projects do not develop new surface water sources.

• 31 TAC§357.51(C)(2)(E) – "does not have a significant substantive impact on water planning or previously adopted management strategies"

The WMSs and associated projects do not modify or impact other recommended WMS or strategies or projects in the 2021 Region F RWP and do not have a significant substantive impact on the overall nature of the Plan or its ability to meet TWDB and statutory requirements.

• 31 TAC§357.51(C)(2)(F) – "does not delete or change any legal requirements of the plan."

The amendment does not delete or change any legal requirement of the plan."

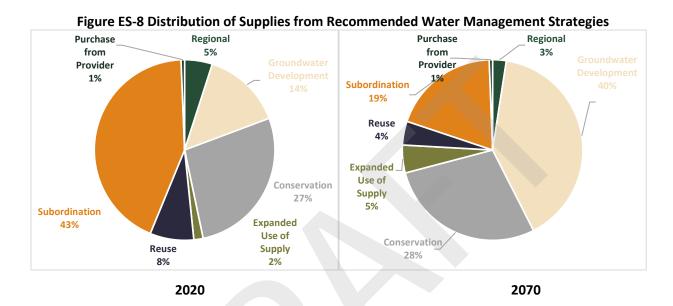


A.3 RWP MODIFICATIONS AND ADDITIONS TO VOLUME 1

A3.1 Changes to Executive Summary

A.3.1.1 Revision of Data for Figure ES-8, Distribution of Supplies from Recommended Water Management Strategies

Underlying data for *Figure ES-8* (page ES-10) is updated to reflect the changes in supply from WMS. The amended figure is presented below.



A.3.1.2 Revision to Table ES-5, Recommended Water Management Strategies

Table ES-5 (pages ES-11 through ES-20) is revised to change the online dates for the City of Junction and City of Balmorhea WMSs, and to move the City of Bronte's alternative WMS to the list of recommended WMSs. The City of Bronte's previously recommended WMS to develop Other Aquifer supplies in southwest Coke County was removed from this table and recategorized to be an alternative WMS. In addition, the Mitchell County SEP reuse WMS was removed. The revised table is presented below, with the added, changed and removed information indicated with yellow shading.

Table ES-1
Recommended Water Management Strategies

Entity	County	Expected	Conital Cost	First Decade Unit Cost				Yield			Last Decade Unit Cost
Entity	Used	Online	Capital Cost	(\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	(\$/ac- ft/yr)
Brush Control	•										
BCWID	Multiple	2020	\$0	\$390	400	400	400	400	400	400	\$390
San Angelo	Multiple	2020	\$0	\$489	90	90	90	90	90	90	\$489
UCRA	Multiple	2020	\$0	\$850	60	60	60	60	60	60	\$850
Develop Alluvial Wells											
Menard	Menard	2020	\$13,835,000	\$1,741	1,000	1,000	1,000	1,000	1,000	1,000	\$768
Develop Cross Timbers A	quifer Supplies										
Mining	Brown	2020	\$2,440,000	\$948	210	210	210	210	210	210	\$129
Develop Edwards-Trinity	Plateau Aquife	r Supplies									
Junction	Kimble	2030	\$7,457,000	\$1,573	0	370	370	370	370	370	\$154
Bronte	Nolan	2030	\$4,232,000	\$1,871	0	178	178	178	178	178	\$197
Pecos County WCID #1	Pecos	2020	\$3,630,000	\$1,224	250	250	250	250	250	250	\$204
Balmorhea	Reeves	2030	\$1,948,000	\$1,053	0	150	150	150	150	150	\$140
Develop Ellenberger San	Saba Aquifer S	upplies									
Manufacturing	Kimble	2020	\$1,621,000	\$274	500	500	500	500	500	500	\$46
Develop Hickory Aquifer	Supplies										
San Angelo	Ector	2030	\$55,491,000	\$2,321	0	1,040	3,040	3,040	3,040	3,040	\$1,037
Develop Other Aquifer S	upplies										
Bronte	Coke	2020	\$23,694,000	\$2,424	800	800	800	800	800	800	\$340

	County	Expected	0 310	First Decade			Total	Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Manufacturing	Scurry	2020	\$677,000	\$356	160	160	160	160	160	160	\$56
Develop Pecos Valley Ad	quifer Supplies										
Colorado River MWD	Multiple	2050	\$168,324,000	\$849	0	0	0	22,400	22,400	22,400	\$321
County-Other	Midland	2030	\$24,557,000	\$738	0	2,800	2,800	2,800	2,800	2,800	\$121
Mining	Pecos	2020	\$492,000	\$164	3,000	3,000	3,000	3,000	3,000	3,000	\$55
Mining	Reeves	2020	\$17,465,000	\$173	10,400	10,400	10,400	10,400	10,400	10,400	\$54
Grandfalls	Ward	2050	\$2,410,000	\$1,245	0	0	0	155	155	155	\$148
Dredging River Intake											
Junction	Kimble	2020	\$8,487,000	\$2,388	0	250	250	250	250	250	\$0
Groundwater Strategies											
Colorado River MWD	Multiple	2030	\$10,440,000	\$102	0	755	2,650	6,295	8,361	10,343	\$76
Pecos	Reeves	2020	\$43,107,000	\$427	0	8,960	8,960	8,960	8,960	8,960	\$89
Sonora	Sutton	2020	\$437,000	\$1,000	35	35	35	35	35	35	\$114
Irrigation Conservation											
Irrigation	Andrews	2020	\$1,548,000	\$21	1,018	2,037	2,037	2,037	2,037	2,037	\$0
Irrigation	Borden	2020	\$224,000	\$21	147	295	295	295	295	295	\$0
Irrigation	Brown	2020	\$494,000	\$21	406	650	650	650	650	650	\$0
Irrigation	Coke	2020	\$63,000	\$21	34	69	83	83	83	83	\$0
Irrigation	Coleman	2020	\$35,000	\$21	23	47	47	47	47	47	\$0
Irrigation	Concho	2020	\$410,000	\$21	245	490	539	539	539	539	\$0

	County	Expected		First Decade			Total	Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Irrigation	Crockett	2020	\$15,000	\$21	7	14	20	20	20	20	\$0
Irrigation	Ector	2020	\$86,000	\$21	38	76	113	113	113	113	\$0
Irrigation	Glasscock	2020	\$1,558,000	\$21	2,050	2,050	2,050	2,050	2,050	2,050	\$0
Irrigation	Howard	2020	\$575,000	\$21	344	688	757	757	757	757	\$0
Irrigation	Irion	2020	\$120,000	\$21	53	105	158	158	158	158	\$0
Irrigation	Kimble	2020	\$242,000	\$21	133	266	319	319	319	319	\$0
Irrigation	Martin	2020	\$4,160,000	\$21	1,825	3,649	5,474	5,474	5,474	5,474	\$0
Irrigation	Mason	2020	\$566,000	\$21	248	497	745	745	745	745	\$0
Irrigation	McCulloch	2020	\$265,000	\$21	116	232	349	349	349	349	\$0
Irrigation	Menard	2020	\$418,000	\$21	183	366	549	549	549	549	\$0
Irrigation	Midland	2020	\$2,064,000	\$21	905	1,811	2,716	2,716	2,716	2,716	\$0
Irrigation	Mitchell	2020	\$194,000	\$21	256	256	256	256	256	256	\$0
Irrigation	Pecos	2020	\$16,341,000	\$21	7,167	14,335	21,502	21,502	21,502	21,502	\$0
Irrigation	Reagan	2020	\$2,512,000	\$21	1,102	2,203	3,305	3,305	3,305	3,305	\$0
Irrigation	Reeves	2020	\$6,719,000	\$21	2,947	5,894	8,841	8,841	8,841	8,841	\$0
Irrigation	Runnels	2020	\$283,000	\$21	155	311	373	373	373	373	\$0
Irrigation	Schleicher	2020	\$83,000	\$21	91	109	109	109	109	109	\$0
Irrigation	Scurry	2020	\$747,000	\$21	378	756	983	983	983	983	\$0
Irrigation	Sterling	2020	\$102,000	\$21	45	90	135	135	135	135	\$0
Irrigation	Sutton	2020	\$128,000	\$21	56	112	168	168	168	168	\$0

	County	Expected		First Decade			Total	Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Irrigation	Tom Green	2020	\$3,875,000	\$21	2,125	4,249	5,099	5,099	5,099	5,099	\$0
Irrigation	Upton	2020	\$1,186,000	\$21	520	1,040	1,560	1,560	1,560	1,560	\$0
Irrigation	Ward	2020	\$360,000	\$21	158	316	474	474	474	474	\$0
Irrigation	Winkler	2020	\$400,000	\$21	175	351	526	526	526	526	\$0
Mining Conservation (R	ecycling)										
Mining	Andrews	2020	\$5,540,000	\$632	277	260	222	176	135	104	\$0
Mining	Borden	2020	\$780,000	\$1,117	29	39	33	21	10	5	\$0
Mining	Brown	2020	\$1,340,000	\$654	66	66	67	67	66	66	\$0
Mining	Coke	2020	\$400,000	\$632	20	20	18	16	14	12	\$0
Mining	Coleman	2020	\$100,000	\$632	5	4	4	4	3	3	\$0
Mining	Concho	2020	\$400,000	\$632	20	20	18	15	13	12	\$0
Mining	Crane	2020	\$720,000	\$1,173	26	35	36	29	22	17	\$0
Mining	Crockett	2020	\$6,300,000	\$632	315	315	43	24	7	3	\$0
Mining	Ector	2020	\$600,000	\$733	28	30	27	22	18	15	\$0
Mining	Glasscock	2020	\$4,960,000	\$632	248	248	189	134	88	63	\$0
Mining	Howard	2020	\$2,860,000	\$632	143	143	101	59	25	13	\$0
Mining	Irion	2020	\$6,440,000	\$632	322	322	231	28	14	7	\$0
Mining	Kimble	2020	\$20,000	\$632	1	1	1	1	1	1	\$0
Mining	Loving	2020	\$10,500,000	\$632	525	525	462	378	301	238	\$0
Mining	Martin	2020	\$6,040,000	\$632	302	302	227	49	27	14	\$0

.	County	Expected		First Decade			Total	Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Mining	Mason	2020	\$860,000	\$632	43	40	30	24	19	16	\$0
Mining	McCulloch	2020	\$7,500,000	\$632	375	351	279	236	203	176	\$0
Mining	Menard	2020	\$920,000	\$632	46	45	40	35	30	26	\$0
Mining	Midland	2020	\$8,900,000	\$632	445	445	344	231	46	32	\$0
Mining	Mitchell	2020	\$620,000	\$970	25	31	27	21	16	12	\$0
Mining	Pecos	2020	\$10,780,000	\$632	539	539	539	434	67	52	\$0
Mining	Reagan	2020	\$8,900,000	\$632	445	445	323	62	24	8	\$0
Mining	Reeves	2020	\$17,640,000	\$632	882	882	847	693	546	434	\$0
Mining	Runnels	2020	\$220,000	\$632	11	11	10	9	8	7	\$0
Mining	Schleicher	2020	\$620,000	\$903	26	31	24	16	10	6	\$0
Mining	Scurry	2020	\$680,000	\$1,617	20	32	34	25	17	12	\$0
Mining	Sterling	2020	\$800,000	\$931	33	40	34	22	11	6	\$0
Mining	Sutton	2020	\$640,000	\$1,595	19	30	32	24	16	11	\$0
Mining	Tom Green	2020	\$980,000	\$792	44	45	47	47	48	49	\$0
Mining	Upton	2020	\$2,020,000	\$632	101	101	80	53	32	22	\$0
Mining	Ward	2020	\$1,600,000	\$632	80	80	71	55	38	25	\$0
Mining	Winkler	2020	\$980,000	\$1,315	33	49	42	32	22	16	\$0
Municipal Conservation			¥								
Airline Mobile Home Park	Midland	2020	\$0	\$1,263	7	7	8	9	10	10	\$1,134
Andrews	Andrews	2020	\$0	\$952	45	55	96	111	129	150	\$592

	County	Expected		First Decade			Total	Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
County-Other	Andrews	2020	\$0	\$1,080	14	15	17	18	20	21	\$821
Ballinger	Runnels	2020	\$0	\$1,107	12	12	12	12	12	12	\$1,101
Bangs	Brown	2020	\$0	\$1,221	8	8	8	8	8	8	\$2,189
Balmorhea	Reeves	2020	\$0	\$2,472	2	2	2	2	2	2	\$1,214
Barstow	Ward	2020	\$0	\$3,068	1	1	1	1	1	1	\$2,731
Big Lake	Reagan	2020	\$0	\$1,139	10	12	12	13	13	14	\$1,079
Big Spring	Howard	2020	\$0	\$557	131	138	140	139	139	139	\$620
Brady	McCulloch	2020	\$0	\$988	18	18	19	19	19	19	\$930
Bronte	Coke	2020	\$0	\$1,647	3	3	3	3	3	3	\$1,647
Brookesmith SUD	Brown	2020	\$0	\$705	25	25	25	25	25	25	\$688
Brownwood	Brown	2020	\$0	\$937	61	91	91	91	91	91	\$735
Coahoma	Howard	2020	\$0	\$1,222	8	8	8	8	8	8	\$1,203
Coleman	Coleman	2020	\$0	\$1,065	15	15	15	15	15	15	\$1,061
County-Other	Coleman	2020	\$0	\$5,095	1	1	1	1	1	1	\$1,138
Coleman County SUD	Coleman	2020	\$0	\$1,144	9	9	9	9	9	9	\$5,161
Colorado City	Mitchell	2020	\$0	\$1,054	16	18	18	18	18	19	\$938
Concho Rural WSC	Tom Green	2020	\$0	\$894	20	21	22	23	24	24	\$1,821
County-Other	Concho	2020	\$0	\$1,836	3	3	3	3	3	3	\$714
Crockett County WCID	Crockett	2020	\$0	\$1,106	12	13	13	13	13	13	\$1,070
Crane	Crane	2020	\$0	\$1,120	11	12	13	13	14	14	\$1,083

.	County	Expected	0 310 1	First Decade			Total	l Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
DADS SLC	Tom Green	2020	\$0	\$4,116	1	1	1	1	1	1	\$4,116
Early	Brown	2020	\$0	\$1,176	9	9	9	9	9	9	\$1,170
Ector County Utility District	Ector	2020	\$0	\$292	60	84	94	125	137	149	\$598
Eden	Concho	2020	\$0	\$1,541	4	4	4	4	4	4	\$1,518
El Dorado	Schleicher	2020	\$0	\$1,283	6	6	6	6	6	6	\$1,283
Fort Stockton	Pecos	2020	\$0	\$484	36	39	42	44	46	48	\$363
Goodfellow AFB	Tom Green	2020	\$0	\$1,222	8	9	9	10	10	11	\$1,123
Grandfalls	Ward	2020	\$0	\$2,804	1	1	1	1	2	2	\$2,509
Greater Gardendale WSC	Ector	2020	\$0	\$1,108	12	13	15	17	19	20	\$859
Greenwood Water	Midland	2020	\$0	\$1,716	3	3	4	4	4	5	\$1,430
Iraan	Pecos	2020	\$0	\$1,501	4	4	5	5	5	5	\$1,351
Junction	Kimble	2020	\$0	\$1,206	8	8	8	8	8	8	\$1,203
Kermit	Winkler	2020	\$0	\$964	18	18	19	19	19	19	\$916
Loraine	Mitchell	2020	\$0	\$2,138	2	2	2	2	2	2	\$2,039
Madera Valley WSC	Reeves	2020	\$0	\$1,425	5	5	5	6	6	6	\$1,330
Mason	Mason	2020	\$0	\$1,278	7	7	7	7	7	7	\$1,278
McCamey	Upton	2020	\$0	\$1,264	7	7	8	8	8	8	\$1,203
Menard	Menard	2020	\$0	\$1,442	5	5	5	5	5	5	\$1,442
Mertzon	Irion	2020	\$0	\$1,886	3	3	3	3	3	3	\$1,875

	County	Expected		First Decade			Total	Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Midland	Midland	2020	\$0	\$436	631	755	816	882	944	1012	\$428
Miles	Runnels	2020	\$0	\$1,730	3	3	3	3	3	3	\$1,614
Mitchell County Utility	Mitchell	2020	\$0	\$1,407	5	5	5	5	5	6	\$1,068
Millersview-Doole WSC	Tom Green	2020	\$0	\$1,088	13	14	14	14	14	15	\$1,347
Monahans	Ward	2020	\$0	\$763	23	24	25	26	27	27	\$645
North Runnels WSC	Runnels	2020	\$0	\$1,407	4	4	4	4	4	4	\$1,375
Odessa	Ector	2020	\$0	\$440	568	680	752	829	905	990	\$427
Pecos	Reeves	2020	\$0	\$607	29	31	33	34	35	35	\$498
Pecos WCID	Pecos	2020	\$0	\$1,166	9	10	11	11	12	12	\$1,716
Pecos County Fresh Water	Pecos	2020	\$0	\$1,985	2	2	3	3	3	3	\$1,099
Rankin	Upton	2020	\$0	\$1,848	3	3	3	3	3	3	\$1,690
Richland SUD	McCulloch	2020	\$0	\$1,712	3	3	3	3	3	3	\$1,665
Robert Lee	Coke	2020	\$0	\$1,672	3	3	3	3	3	3	\$1,672
County-Other	Runnels	2020	\$0	\$1,953	2	2	2	2	2	2	\$1,988
San Angelo	Tom Green	2020	\$0	\$448	459	532	558	592	629	668	\$444
Snyder	Scurry	2020	\$0	\$957	41	47	51	55	59	93	\$1,606
Santa Anna	Coleman	2020	\$0	\$1,623	3	4	4	4	4	4	\$589
County-Other	Scurry	2020	\$0	\$863	20	22	24	26	28	30	\$720
Sonora	Sutton	2020	\$0	\$1,187	9	9	9	10	10	10	\$1,152

	County	Expected		First Decade			Total	Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Southwest Sandhills WSC	Ward	2020	\$0	\$863	20	22	24	26	28	30	\$589
Stanton	Martin	2020	\$0	\$1,199	8	9	10	10	11	11	\$1,124
Sterling City	Sterling	2020	\$0	\$1,759	3	3	3	3	3	3	\$1,718
Tom Green County FWSD 3	Tom Green	2020	\$0	\$1,616	3	4	4	4	5	5	\$1,409
Wickett	Ward	2020	\$0	\$2,487	2	2	2	2	2	2	\$2,240
Wink	Winkler	2020	\$0	\$1,665	3	4	4	4	4	5	\$1,449
Winters	Runnels	2020	\$0	\$1,191	17	12	9	9	9	9	\$1,183
Zephyr WSC	Brown	2020	\$0	\$1,091	13	13	13	13	13	13	\$1,087
New or Additional Treat	ment										
Bronte	Coke	2030	\$10,270,000	\$1,720	0	800	800	800	800	800	\$816
Odessa	Ector	2030	\$83,062,000	\$1,111	0	15,700	15,700	15,700	15,700	15,700	\$738
Big Spring	Howard	2030	\$104,651,000	\$1,128	0	11,210	11,210	11,210	11,210	11,210	\$471
Brady	McCulloch	2020	\$29,719,000	\$2,069	1,200	1,200	1,200	1,200	1,200	1,200	\$327
Mason	Mason	2020	\$2,605,000	\$856	700	700	700	700	700	700	\$594
Midland	Multiple	2040	\$60,804,000	\$1,701	0	0	5,899	6,101	6,235	6,327	\$1,025
Pecos	Reeves	2030	\$27,680,000	\$754	0	3,360	3,360	3,360	3,360	3,360	\$319
Rehabilitation/Replacen	nent of Infrastru	ıcture									
Bronte	Coke	2030	\$9,896,000	\$1,748	0	450	450	450	450	450	\$202
Pecos County WCID #1	Pecos	2020	\$26,102,000	\$2,767	750	750	750	750	750	750	\$317

	County	Expected		First Decade			Total	Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Reuse											
Steam Electric Power	Mitchell	2020	\$8,642,000	\$1,428	500	500	500	500	500	500	\$212
San Angelo	Multiple	2020	\$116,861,000	\$1,250	8,400	8,400	8,400	8,400	8,400	8,400	\$269
Pecos	Reeves	2030	\$29,541,000	\$4,961		925	925	925	925	925	\$2,443
Pecos	Reeves	2020	\$8,707,000	\$1,286	560	560	560	560	560	560	\$191
Subordination											
Ballinger	Runnels	2020	\$0	\$0	794	751	750	748	753	791	\$0
County-Other	Runnels	2020	\$0	\$0	23	21	19	18	18	19	\$0
North Runnels WSC	Runnels	2020	\$0	\$0	86	86	87	87	87	89	\$0
Brady	McCulloch	2020	\$0	\$0	841	841	841	841	841	841	\$0
Steam Electric Power	Mitchell	2020	\$0	\$0	1,170	1,156	1,142	1,128	1,114	1,100	\$0
Junction	Kimble	2020	\$0	\$0	250	250	250	250	250	250	\$0
Manufacturing	Kimble	2020	\$0	\$0	228	228	228	228	228	228	\$0
Abilene ^a	Taylor, Jones	2020	\$0	\$0	329	359	391	421	453	483	\$0
Midland ^a	Midland	2020	\$0	\$0	2,173	359	391	421	453	483	\$0
Millersview-Doole WSC	Tom Green	2020	\$0	\$0	52	0	0	0	9	62	\$0
Odessa	Ector	2020	\$0	\$0	2,451	0	0	3,492	7,263	11,493	\$0
Ector County Utility District	Ector	2020	\$0	\$0	234	0	0	332	694	1,097	\$0
Irrigation	Ector	2020	\$0	\$0	157	0	0	162	312	449	\$0

	County	Expected		First Decade			Total	Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Irrigation	Midland	2020	\$0	\$0	3	0	0	2	6	8	\$0
Manufacturing	Ector	2020	\$0	\$0	186	0	0	199	381	551	\$0
Steam Electric Power	Ector	2020	\$0	\$0	109	0	0	114	219	316	\$0
Big Spring	Howard	2020	\$0	\$0	611	0	0	647	1,233	1,785	\$0
Coahoma	Howard	2020	\$0	\$0	51	0	0	56	105	152	\$0
Manufacturing	Howard	2020	\$0	\$0	147	0	0	153	293	424	\$0
Steam Electric Power	Howard	2020	\$0	\$0	21	0	0	22	40	59	\$0
Snyder	Scurry	2020	\$0	\$0	194	0	0	256	524	814	\$0
County-Other	Scurry	2020	\$0	\$0	29	0	0	31	59	85	\$0
Rotan	Fisher	2020	\$0	\$0	18	0	0	17	32	46	\$0
Stanton	Martin	2020	\$0	\$0	31	0	0	33	62	90	\$0
Irrigation	Coleman	2020	\$0	\$0	400	400	400	400	400	400	\$0
Coleman	Coleman	2020	\$0	\$0	1,319	1,296	1,276	1,255	1,227	1,200	\$0
Coleman County SUD	Coleman	2020	\$0	\$0	227	225	218	214	215	215	\$0
County-Other	Coleman	2020	\$0	\$0	24	22	22	21	21	21	\$0
Manufacturing	Coleman	2020	\$0	\$0	2	2	2	2	2	2	\$0
County-Other	Tom Green	2020	\$0	\$0	70	70	70	70	70	70	\$0
Bronte	Coke	2020	\$0	\$0	212	210	209	207	207	207	\$0
Robert Lee	Coke	2020	\$0	\$0	237	239	240	240	240	240	\$0
San Angelo ^a	Tom Green	2020	\$0	\$0	1,875	1,819	1,766	1,709	1,656	1,600	\$0

r.	County	Expected		First Decade			Total	Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Upper Colorado River Authority	Tom Green	2020	\$0	\$0	42	37	33	30	26	23	\$0
Goodfellow Air Force Base	Tom Green	2020	\$0	\$0	44	42	40	38	35	33	\$0
Manufacturing	Tom Green	2020	\$0	\$0	37	36	32	29	26	22	\$0
Winters	Runnels	2020	\$0	\$0	100	99	98	98	98	97	\$0
Irrigation	Menard	2020	\$0	\$0	537	537	537	537	537	537	\$0
Menard	Menard	2020	\$0	\$0	1,000	1,000	1,000	1,000	1,000	1,000	\$0
Brady Creek (non- allocated)	McCulloch	2020	\$0	\$0	1,109	1,069	1,029	989	949	909	\$0
BCWID (non-allocated)	Brown	2020	\$0	\$0	5,440	5,466	5,492	5,518	5,544	5,570	\$0
CRMWD (non- allocated)	Tom Green	2020	\$0	\$0	19,749	19,911	18,533	13,002	7,245	972	\$0
Oak Creek (non- allocated)	Coke	2020	\$0	\$0	577	540	503	468	431	394	\$0
Lake Colorado City (non-allocated)	Mitchell	2020	\$0	\$0	1,800	1,750	1,700	1,650	1,600	1,550	\$0
Odessa (Future Sales)	Ector, Midland	2020	\$0	\$0	3,930	3,930	3,930	3,930	3,930	3,930	\$0
Manufacturing, Howard (Future Sales)	Howard	2030	\$0	\$0	0	500	500	500	500	500	\$0
Greater Gardendale WSC (Future Sales)	Ector	2030	\$0	\$0	0	375	445	445	445	445	\$0
County-Other (Future Sales)	Ector	2030	\$0	\$0	0	1,200	2,500	2,500	2,500	2,500	\$0

-	County	Expected		First Decade			Total	Yield			Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
County-Other (Future Sales)	Scurry	2020	\$0	\$0	373	414	447	491	547	607	\$0
Voluntary Transfer (Purc	hase)										
Robert Lee	Coke	2020	\$0	\$0	80	80	80	80	80	80	\$0
Concho Rural WSC	Ector	2020	\$0	\$0	50	50	50	50	50	50	\$0
Greater Gardendale WSC	Ector	2020	\$6,078,000	\$3,730	0	375	445	445	445	445	\$2,769
Winters	Runnels	2020	\$974,000	\$668	212	212	212	212	212	212	\$355
County-Other	Scurry	2020	\$0	\$0	373	414	447	491	547	607	\$0
Water Audits and Leak R	epairs										
Brookesmith SUD	Brown	2020	\$1,737,000	\$1,509	80	80	78	77	77	77	\$1,584
Coleman	Coleman	2020	\$1,074,800	\$1,282	59	58	57	57	57	57	\$1,340
Millersview-Doole WSC	Tom Green	2020	\$965,800	\$1,045	65	66	65	66	67	68	\$1,076
Sonora	Sutton	2020	\$679,900	\$451	106	112	114	116	117	118	\$438
Zephyr WSC	Brown	2020	\$944,700	\$3,498	19	19	18	18	18	18	\$3,732
Weather Modification	l										
Irrigation	Crocket	2020	\$0	\$0.47	1	1	1	1	1	1	\$0.47
Irrigation	Irion	2020	\$0	\$0.21	202	202	202	202	202	202	\$0.21
Irrigation	Pecos	2020	\$0	\$5.45	106	106	106	106	106	106	\$5.45
Irrigation	Reagan	2020	\$0	\$0.19	1,869	1,869	1,869	1,869	1,869	1,869	\$0.19
Irrigation	Reeves	2020	\$0	\$1.13	326	326	326	326	326	326	\$1.13

5.00	County	Expected	0 3 10 .	First Decade	Total Yield						Last Decade
Entity	Used	Online	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Irrigation	Schleicher	2020	\$0	\$0.23	275	275	275	275	275	275	\$0.23
Irrigation	Sterling	2020	\$0	\$0.39	48	48	48	48	48	48	\$0.39
Irrigation	Sutton	2020	\$0	\$0.45	34	34	34	34	34	34	\$0.45
Irrigation	Tom Green	2020	\$0	\$0.44	2,007	2,007	2,007	2,007	2,007	2,007	\$0.44
Irrigation	Ward	2020	\$0	\$0.57	259	259	259	259	259	259	\$0.57
West Texas Water Partn	ership ^b										
Abilene					0	8,400	8,400	8,400	8,400	8,400	
Midland	Multiple	2030	\$549,093,000	\$1,783	0	15,000	15,000	15,000	15,000	15,000	\$403
San Angelo	=				0	5,000	5,000	5,000	5,000	5,000	

Note: Grey italics indicates projects that are needed to access supplies from other strategies and are not included in the total to avoid double counting.

b. Capital and unit costs for the West Texas Water Partnership will be shared between the partnership (Abilene, Midland, and San Angelo).

a. Subordination supply is based on a contract for 16.54% of the safe yield of Lake Ivie. This supply changes with the implementation of the West Texas Water Partnership strategy. As part of this strategy, the Lake Ivie supplies may be reallocated among the cities of Abilene, Midland, and San Angelo. However, this has not yet occurred, so the current subordination yields from these contract amounts are shown in the table above. The Partnership will follow up on initial conversations with the CRMWD to explore necessary methodologies and agreements to implement a cooperative use strategy of the Partnership's collective Ivie supplies. Meetings between the parties are anticipated in the late fall/early winter of 2020/2021.

A.3.1.3 Removal of Project in Table ES-6, Alternative Water Management Strategies

Table ES-6 (pages ES-21 through ES-22) is revised to remove the City of Bronte WMS, which was reclassified to be recommended. In the table, this WMS is listed under Robert Lee, but in other sections throughout the RWP, this WMS is listed for both Bronte and Robert Lee. In addition, the City of Bronte's previously recommended WMS to develop Other Aquifer supplies in Coke County was added to this table as an alternative strategy. The revised table is presented below, with the added information indicated with yellow shading.



Table ES-2
Alternative Water Management Strategies

		Expected		First Decade			Tota	l Yield			Last Decade
Entity	County Used	Implementation Date	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Desalination											
San Angelo	Tom Green	2030	\$70,709,000	\$1,062	0	11,210	11,210	11,210	11,210	11,210	\$618
Develop Capitan Reef Co	mplex Aquifer Sup	plies									
Odessa	Ward	2040	\$154,165,000	\$2,175	0	0	8,400	8,400	8,400	8,400	\$884
Develop Dockum Aquife	r Supplies										
Colorado City	Mitchell	2020	\$3,744,000	\$1,824	170	170	170	170	170	170	\$276
Develop Edwards-Trinity	Plateau Aquifer Su	pplies									
Andrews	Andrews	2020	\$24,927,000	\$891	2,600	2,600	2,600	2,600	2,600	2,600	\$217
County-Other	Andrews	2020	\$751,000	\$252	250	250	250	250	250	250	\$40
San Angelo	Schleicher	2040	\$102,100,000	\$1,800	0	0	4,500	4,500	4,500	4,500	\$209
Livestock	Andrews	2020	\$327,000	\$433	60	60	60	60	60	60	\$50
Manufacturing	Andrews	2020	\$591,000	\$243	210	210	210	210	210	210	\$43
Robert Lee	Nolan	2030	\$4,154,000	\$4,293	0	75	75	75	75	75	\$400
Robert Lee	Tom Green	2030	\$7,272,000	\$3,756	0	160	160	160	160	160	\$556
Develop Ellenburger-San	Saba Aquifer Supp	lies									
BCWID #1	Brown	2030	\$70,199,000	\$1,754	0	5,600	5,600	5,600	5,600	5,600	\$872

		Expected		First Decade			Tota	l Yield			Last Decade
Entity	County Used	Implementation Date	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)
Develop Hickory Aqu	uifer Supplies										
Menard	Menard	2030	\$3,287,000	\$1,320	0	200	200	200	200	200	\$165
Develop Ogallala Aq	uifer Supplies										
Andrews	Andrews	2020	\$15,663,000	\$496	2,810	2,810	2,810	2,810	2,810	2,810	\$104
Great Plains	Andrews, Gaines	2020	\$380,000	\$190	200	200	200	200	200	200	\$55
Develop Other Aquifer Supplies											
Bronte	Runnels	2030	\$23,694,000	\$2,424	0	800	800	800	800	800	\$340
Bronte	Coke	2030	\$23,694,000	\$2,424	0	800	800	800	800	800	\$340
Develop Additional (Groundwater Supplies				<u> </u>		<u> </u>	<u> </u>		<u>I</u>	
CRMWD	Western Region F Counties	2040	\$147,558,000	\$1,348	0	0	10,000	10,000	10,000	10,000	\$310
Odessa	Pecos	2040	\$826,808,000	\$3,249	0	0	11,200	28,000	28,000	28,000	\$1,172
San Angelo	Pecos	2040	\$327,576,000	\$2,604	0	0	10,800	10,800	10,800	10,800	\$470
New or Additional W	Vater Treatment				L						
Robert Lee	Coke	2030	\$6,541,000	\$2,657	0	335	335	335	335	335	\$1,284
Potable Reuse with	Potable Reuse with Aquifer Storage and Recovery										
Pecos	Reeves	2030	\$34,456,000	\$6,788	0	695	695	695	695	695	\$3,301

		Expected	•				Tota	First Total Yield Decade					
Entity	County Used	Implementation Date	Capital Cost	Unit Cost (\$/ac- ft/yr)	2020	2030	2040	2050	2060	2070	Unit Cost (\$/ac- ft/yr)		
Regional Water Manage	ment Strategies												
Bronte, Ballinger, Winters, Robert Lee (Lake Brownwood)	Coke, Runnels	2040	\$115,443,000	\$3,904	0	0	2,802	2,802	2,802	2,802	\$1,005		
Bronte, Ballinger, Winters, Robert Lee (Lake Fort Phantom Hill)	Coke, Runnels	2040	\$103,328,000	\$7,606	0	0	1,155	1,155	1,155	1,155	\$1,312		
Voluntary Transfer (Purc	hase)												
Greater Gardendale WSC	Ector	2030	\$2,946,000	\$2,355	0	445	445	445	445	445	\$1,890		
Midland	Midland	2020	\$0	\$0	4000	4000	4000	4000	4000	4000	\$0		
Grandfalls	Ector	2050	\$0	\$0	0	0	0	155	155	155	\$0		
West Texas Water Partne	ership ^a												
Abilene					0	8,400	8,400	8,400	8,400	8,400			
Midland	Multiple	2030	\$327,504,000	\$1,165	0	15,000	15,000	15,000	15,000	15,000	\$342		
San Angelo	-				0	5,000	5,000	5,000	5,000	5,000			

Note: Grey italics indicates projects that are needed to access supplies from other strategies and are not included in the total to avoid double counting.

^{*} Capital and unit costs for the West Texas Water Partnership will be shared between the partners (Abilene, Midland, and San Angelo).

A.3.1.4 Revisions to Table ES-7, Unmet Needs Summary

Table ES-7 (page ES-23) is revised to reflect the unmet needs as a result of the proposed revisions. The revised online dates for the strategies for the Cities of Bronte, Junction, and Balmorhea result in an increased unmet need of 1,079 acre-feet in 2020 for municipal use. There are no unmet municipal needs for these WUGs after 2020. The removal of the Mitchell County reuse sales for SEP increased the unmet need for SEP by 500 acre-feet each decade. The SEP unmet need may be considerably less since much of the demand is for facilities that are not currently constructed and operating. There are no changes to the unmet needs for manufacturing, livestock, Irrigation, and mining. The revised table ES-7 is presented below, with the updated information indicated with yellow shading.

Table ES-3
Unmet Needs Summary (acre-feet per year)

Water User	2020	2030	2040	2050	2060	2070
Municipal	1,079	519	819	1,457	2,192	3,068
Manufacturing	31	59	87	134	174	209
Livestock	9	17	25	39	50	60
Irrigation	10,686	13,151	16,733	18,660	22,157	24,739
Mining	5,956	6,052	3,219	1,717	895	894
Steam Electric						
Power	11,508	11,522	11,536	11,550	11,564	11,578
Total	29,269	31,320	32,419	33,557	37,032	40,548

A3.2 Changes to Chapter 5 – Water Management Strategies

A.3.2.1 Revisions to Section 5E.4.1, *Bronte*

Section 5E.4.1 summarizes the recommended water supply plan for the City of Bronte. This section was updated to include the Nolan County groundwater as a recommended strategy and change the Coke County groundwater to an alternative strategy. Specifically, the call-out box (green) on page 5E-14 is revised to reflect the replaced recommended strategy. Specific changes are indicated in yellow shading.

Bronte Recommended Strategies

- Municipal Conservation
- Subordination (Oak Creek Reservoir)
- Rehabilitation and Upsizing of Oak Creek Pipeline
- Water Treatment Plant Expansion
- Develop Other Aguifer Supplies in Southwest Coke County
- Develop Edwards-Trinity Plateau Aquifer Supplies in Nolan County

In addition, the last paragraph on page 5E-14 is replaced with the description of the amended recommended Nolan County groundwater WMS. The entire added paragraph is indicated in yellow shading.

Develop Edwards-Trinity Plateau Aquifer in Nolan County

Bronte is considering drilling new wells in Nolan County for the purpose of providing additional supply. It is estimated that the wells would produce a yearly production of 178 acre-feet. A 15-mile transmission pipeline would be needed to deliver these supplies to the City. Capital costs are estimated at \$4.23 million.

Revision to Table 5E-13, Recommended Water Strategies for Bronte

Table 5E-13 (page 5E-15) is revised to replace the project and associated details to the overview of key projects. The revised table is presented below, with the replaced information indicated with yellow shading. Also, the available supply from subordination in 2020 is corrected to reflect the supply from subordination is not available until the Oak Creek pipeline is rehabilitated.

Table 5E-1
Recommended Water Strategies for Bronte

	Capital Cost	2020	2030	2040	2050	2060	2070
Demand ^a		577	573	569	566	566	566
Existing Supply (Groundwater)		129	125	121	120	120	120
Shortage		448	448	448	446	446	446
Recommended Strate	gies						
Subordination (Oak Creek Reservoir)	\$0	0	448	448	446	446	446
Municipal Conservation		3	3	3	3	3	3
Oak Creek Pipeline Rehabilitation*	\$9,896,000	0	450	450	450	450	450
Water Treatment Plant Expansion*	\$10,270,000	0	800	800	800	800	800
Develop Other Aquifer Supplies in Southwest Coke County	\$23,694,000	800	800	800	800	800	800
Develop Edwards- Trinity Plateau Supplies in Nolan County	\$4,232,000	0	178	178	178	178	178
TOTAL	\$24,398,000	3	629	629	627	627	627

a. Demands shown include demands for the City of Bronte and their customers (Robert Lee and Coke County-Other).

^{*}This strategy is for infrastructure projects required to access the subordination supplies Oak Creek pipeline supplies and is not included in the total to avoid double counting.

The text pertaining to the alternative WMS for Bronte is also modified to reflect the replacement of the Coke County groundwater project with the Nolan County groundwater WMS. The first bulleted list of page 5E-15 is revised as follows. Specific changes are indicated in yellow shading.

Alternative Water Management Strategies for Bronte include:

- Regional System from Lake Brownwood to Runnels and Coke Counties
- Regional System from Fort Phantom Hill to Runnels and Coke Counties
- Develop Edwards-Trinity Plateau Supplies in Nolan County
- Develop Other Aquifer Supplies in Runnels County
- Develop Other Aquifer Supplies in southwest Coke County

A.3.2.2 Revisions to Section 5E.4.3, Coke County Summary

Table 5E-15 (page 5E-17) is revised to adjust the recommended water management strategies for the City of Bronte. The recommended WMS to develop Other Aquifer supplies in southwest Coke County was removed and the recommended WMS to develop Edwards-Trinity Plateau Aquifer supplies in Nolan County was added. The revised table is presented below, with the modified information indicated with yellow shading.

Table 5E-2 Coke County Summary

Water User	Current Supplies	2020 Shortage	2070 Shortage	Recommended Water
Group		(ac-ft/yr)	(ac-ft/yr)	Management Strategies
Bronte	Sales from Sweetwater, Other Undifferentiated Aquifer	368	366	Municipal Conservation, Subordination, Rehabilitation of Oak Creek Pipeline, Water Treatment Plant Expansion, Develop Other Aquifer Supplies in Southwest Coke County, Develop Edwards-Trinity Plateau Aquifer Supplies in Nolan County
Robert Lee	CRMWD, Run-of- River, Sales from Bronte	247	240	Municipal Conservation, Subordination (through Bronte), Purchase Additional Supplies from Bronte
County-Other	Edwards-Trinity Plateau Aquifer, Other Undifferentiated Aquifer	None	None	None
Irrigation	Run-of-River, Edwards-Trinity Plateau Aquifer, Other Undifferentiated Aquifer	None	None	Irrigation Conservation
Livestock	Stock Ponds, Edwards-Trinity Plateau Aquifer, Other Undifferentiated Aquifer	None	None	None
Manufacturing				
Mining	Edwards-Trinity Plateau Aquifer	None	None	Mining Conservation (Recycling)
Steam Electric	Oak Creek Reservoir	None	None	None

A.3.2.3 Revision to 5E.13.1, *Junction*

Section 5E.13.1 discusses the recommended water plan for the City of Junction. There are no changes to the text in this section. *Table 5E-29* (page 5E-32) is revised to adjust the online date for developing Edwards-Trinity Plateau Aquifer Supplies from starting in 2020 to 2030. The revised table is presented below, with the modified information indicated with yellow shading.

Table 5E-3
Recommended Water Strategies for Junction

	Capital Cost	2020	2030	2040	2050	2060	2070
Demand		626	620	609	605	604	604
Existing Supply (Run- of-River Supply)		0	0	0	0	0	0
Shortage (ac-ft/yr)		626	620	609	605	604	604
Recommended Strates	gies(ac-ft/yr)						
Municipal Conservation		8	8	8	8	8	8
Subordination (Colorado Run-of- River Supply)	\$0	250	250	250	250	250	250
Dredge River Intake*	\$8,487,000	250	250	250	250	250	250
Develop Edwards- Trinity Plateau Aquifer Supplies	\$7,457,000	0	370	370	370	370	370
TOTAL	\$15,944,000	258	628	628	628	628	628

^{*}This strategy is for infrastructure required to access the subordination supplies and is not included in the total to avoid double counting.

A.3.2.4 Revision to Section 5E.20.2, Mitchell County Steam Electric Power

Section 5E.20.2 discusses the Mitchell County Steam Electric Power (SEP) proposed power plant and management strategies for supplying water to the power plant. The proposed plant was set to be composed of two facilities, FGE I and II, for Luminant's Morgan Creek Power Plant and to take water from the Lake Colorado City – Champion Creek Reservoir system. The proposed facilities were to be combined cycle gas turbine plants. However, as outlined in Section 5E.20.2 of the 2021 Region F RWP, these facilities are speculative and do not yet exist. In the February 1 meeting with the RFWPG, it was confirmed that these facilities have still not been implemented and will not be implemented in the foreseeable future. The RFWPG requested the WMS for Mitchell County SEP be removed from the plan due to the power plant no longer being presumed to exist moving forward. Thus, changes for the 2026 RWP will include the following revisions in Section 5E.20.2. The revised text is presented below, with the revised information indicated with yellow shading.

Luminant's Morgan Creek Power Plant is located in Mitchell County and obtains water from the Lake Colorado City – Champion Creek Reservoir system, which only has available supply under subordination. There are also two proposed facilities, FGE I and II, that are included in the steam electric power demand in Mitchell County. The proposed facilities would be combined cycle gas turbine plants, which tend to use less water than conventional power generation. However, these facilities are speculative and do not yet exist. To date, FGE has not yet moved forward with building these facilities and there is no indication that these facilities will be operating in the near future. Therefore, the purchase of reuse water is no longer a

recommended strategy for steam electric power in Mitchell County. Even after implementing the recommended subordination strategy, there is a significant projected need for steam electric power in Mitchell County. Other options to meet this need are limited, but the demands and projected need may be overstated if the FGE facilities are never built.

The second bulleted list on page 5E-46 in green lists the Mitchell County SEP Recommended Strategies. The sale of wastewater effluent from the City of Colorado City was removed as a strategy. The changed bulleted list is shown below, with the revised text highlighted with yellow shading.

Mitchell County Steam Electric Power Recommended Strategies

- Subordination (Lake Colorado City/Champion Lake)
- Sale of Wastewater Effluent from Colorado City

Revision to Table 5E-47, Recommended Water Strategies for Mitchell County Steam Electric Power

Table 5E-47 was revised to remove the sale of reuse supplies to steam electric power. The revised table is presented below, with the removed or revised information indicated with yellow shading.

Table 5E-4
Recommended Water Strategies for Mitchell County Steam Electric Power

	Capital Cost (millions)	2020	2030	2040	2050	2060	2070
Demand		10,326	10,326	10,326	10,326	10,326	10,326
Supply (Champion Lake)		0	0	0	0	0	0
Shortage (ac- ft/yr)		10,326	10,326	10,326	10,326	10,326	10,326
Recommended	Strategies (ac-ft/	yr)					
Subordination (Champion Lake)	\$0	1,170	1,156	1,142	1,128	1,114	1,100
Reuse Sales from Colorado City	\$8,642,000	500	500	500	500	500	500
TOTAL	\$0	1,170	1,156	1,142	1,128	1,114	1,100

A.3.2.5 Revision to Section 5E.20.3, *Mitchell County Summary*

Section 5E.20.3 discusses the Mitchell County Summary of water management strategies. The first paragraph on page 5E-47 was updated to reflect the change for the Mitchell County SEP strategies. The revised text is presented below, with the revised information indicated with yellow shading.

Mitchell County is projected to have shortages associated with Colorado City, steam electric power, and irrigation. Colorado City can meet its municipal needs after developing additional groundwater supplies, though this cannot be fully represented in the regional plan due to MAG limitations. Steam electric power has a large unmet need that cannot be met through subordination alone and options for other supplies are limited. Irrigation also has an unmet need despite conservation. Conservation is also recommended for mining, even though there is no shortage. County-Other, livestock, manufacturing, and mining show no shortages and have no recommended strategies.

Revisions to Table 5E-48, Mitchell County Summary

Table 5E-48 was updated to remove the recommended strategy of reuse sales to steam electric power from Colorado City. The revised table is presented below, with the removed or revised information indicated with yellow shading.

Table 5E-5
Mitchell County Summary

Water User Group	Current Supplies	2020 Shortage (ac-ft/yr)	2070 Shortage (ac-ft/yr)	Recommended Water Management Strategies
Colorado City	Dockum Aquifer	0	183	Municipal Conservation
Loraine	Dockum Aquifer	None	None	Municipal Conservation
Mitchell County Utility	Dockum Aquifer	None	None	Municipal Conservation
County-Other	Dockum Aquifer, Sales from Colorado City	None	None	None
Irrigation	Run-of-River, Dockum Aquifer	1,584	1,482	Irrigation Conservation
Livestock	Livestock Local Supplies, Dockum Aquifer, Other Aquifer	None	None	None
Manufacturing	Purchase from Colorado City	None	None	None
Mining	Dockum Aquifer	None	None	Mining Conservation (Recycling)
Steam Electric	Champion Lake	9,156	9,226	Subordination Reuse sales from Colorado City

Revisions to Table 5E-49, Unmet Needs in Mitchell County

Table 5E-49 was updated to reflect the change in unmet needs as the result of removing the recommended strategy to sell reuse supplies to steam electric power from Colorado City. The revised table is presented below, with the removed or revised information indicated with yellow shading.

Table 5E-6 Unmet Needs in Mitchell County

-Values are in Acre-Feet per Year-

Water User Group	2020	2030	2040	2050	2060	2070
Colorado City	0	115	126	137	150	164
Irrigation	1,328	1,602	1,507	1,389	1,310	1,226
Steam Electric Power	9,156	9,170	9,184	9,198	9,212	9,226
TOTAL	10,484	10,887	10,817	10,724	10,672	10,617

A.3.2.6 Revision to Section 5E.23.1, Balmorhea

Section 5E.23.1 discusses the recommended water plan for the City of Balmorhea. There are no changes to the text in this section. *Table 5E-57* (page 5E-55) is revised to adjust the online date for developing Edwards-Trinity Plateau Aquifer Supplies from starting in 2020 to 2030. The revised table is presented below, with the added information indicated with yellow shading.

Table 5E-7
Recommended Water Strategies for Balmorhea

	Capital Cost	2020	2030	2040	2050	2060	2070
Demand		243	254	265	273	278	283
Supply (Groundwater)		136	136	136	136	136	136
Shortage (ac-ft/yr)		107	118	129	137	142	147
Recommended Strategies (ac-ft/yr)							
Municipal Conservation	\$0	2	2	2	2	2	2
Develop Edwards- Trinity Plateau Aquifer Supplies	\$1,948,000	0	150	150	150	150	150
TOTAL	\$1,948,000	2	152	152	152	152	152

A.3.2.7 Revision to Table 5E-88, *Unmet Needs Summary*

Table 5E-88 (page 5E-83) is revised to reflect the additional unmet needs for Mitchell County SEP, and the new unmet needs in 2020 for the Cities of Bronte, Junction, and Balmorhea as a result of the changes in the recommended water management strategies. The revised table is presented below, with the added and revised information indicated with yellow shading.

Table 5E-8
Unmet Needs Summary

Water User Group	County	2020	2030	2040	2050	2060	2070
Andrews	Andrews	147	361	619	1,186	1,850	2,650
County-Other	Andrews	16	43	74	134	192	254
Livestock	Andrews	9	17	25	39	50	60
Manufacturing	Andrews	31	59	87	134	174	209
Irrigation	Andrews	681	3,651	5,260	6,352	7,275	8,097
Mining	Andrews	909	868	66	0	0	0
Irrigation	Brown	1,302	1,062	1,061	1,063	1,060	1,061
Bronte ^a	Coke	443	0	0	0	0	0
Irrigation	Irion	252	200	147	147	147	147
Mining	Irion	1,444	1,440	225	0	0	0
Irrigation	Kimble	970	837	784	784	784	784
Junction	Kimble	368	0	0	0	0	0
Mining	Loving	3,381	3,381	2,543	1,427	699	762
Irrigation	Martin	0	0	2,392	3,346	6,004	7,844
Colorado City	Mitchell	0	115	126	137	150	164
Irrigation	Mitchell	1,328	1,602	1,507	1,389	1,310	1,226
Steam Electric Power	Mitchell	9,156	9,170	9,184	9,198	9,212	9,226
Balmorhea	Reeves	105	0	0	0	0	0
Irrigation	Scurry	6,153	5,799	5,582	5,579	5,577	5,580
Mining	Scurry	222	363	385	290	196	132
Steam Electric Power	Ward	2,352	2,352	2,352	2,352	2,352	2,352
TOTAL		29,274	31,320	32,419	33,557	37,032	40,548

a. Includes unmet needs for the City of Bronte and their customers (Robert Lee and Coke County-Other).

A3.3 Changes to Chapter 6 – Impacts of the RWP

Changes to this chapter include updated text and tables to reflect the amended WMSs. These changes occur in Sections 6.1.2, 6.7.4, and 6.8.

A.3.3.1 Revision to Section 6.1.2, Reuse of Treated Wastewater

The following text on page 6-3 was changed to remove the recommended sale of reuse supply to steam electric power in Mitchell County:

In Region F, there are two recommended direct non-potable reuse strategies including:

- Menard (Direct Non-Potable)
- Mitchell County Steam-Electric Power (Direct Non-Potable)
- Pecos (Direct Non-Potable)

A.3.3.2 Revision to Section 6.7.4, Power Generation

Section 6.7.4 summarizes the unmet needs in Region F for power generation WUGs. The second paragraph of the section, on page 6-13, is revised to remove the sale of reuse supplies for Mitchell County SEP. Specific revisions are indicated in yellow shading.

Unmet steam electric power needs in Mitchell County are associated with two proposed FGE Texas Power facilities. These facilities do not currently exist, and development is uncertain. Steam electric power is projected to have a large shortage as supply options are limited. Should these facilities be developed in the future, some of the projected water need could potentially be met through reuse supplies from the City of Colorado City. This strategy is not considered for the amended 2021 Region F RWP due to the uncertainty of the demand.

Revision to Table 6-4

Table 6-4 (page 6-13) is revised to not include the sale of reuse water to the Mitchell County FGE power plants. This has increased the unmet needs for Steam Electric Power in Region F, but these needs are uncertain at this time. The revised table is presented below, with the added information indicated with yellow shading.

Table 6-4
Unmet Steam Electric Power Needs in Region F

Water User Group	2020	2030	2040	2050	2060	2070
Mitchell	(9,156)	(9,170)	(9,184)	(9,198)	(9,212)	(9,226)
Ward	(2,352)	(2,352)	(2,352)	(2,352)	(2,352)	(2,352)
Total	(11,508)	(11,522)	(11,536)	(11,550)	(11,564)	(11,578)

A.3.3.3 Revision to Section 6.8, Consistency with Protection of Public Health and Safety

Section 6.8 and Table 6-5 summarize the unmet needs in Region F for municipal WUGs. A new paragraph is added after the second paragraph of the section, on page 6-14, to address unmet needs in 2020 for the Cities of Bronte (and customers), Junction, and Balmorhea. These unmet needs are due to changes in the recommended water management strategies described in this amendment. These needs are met once the WMS are online in 2030. Specific revisions are indicated in yellow shading.

However, these users are planning to pursue the development of additional groundwater above the MAG to protect the public health and safety of their residents. Andrews and Andrews County-Other are able to do this because there is no GCD limit on groundwater production within Andrews County. However,

Colorado City will have to coordinate with the GCD in Mitchell County (Lone Wolf GCD) to determine potential groundwater development above the MAG.

The cities of Bronte and its customers, Junction, and Balmorhea have municipal unmet needs in the year 2020. This is due to changes to the recommended strategies after the 2021 RWP was adopted, as documented in an Amendment to the 2021 Region F Water Plan. These needs are met however, once the strategies come online in 2030.

Revision to Table 6-5

Table 6-5 (page 6-13) is revised to show the unmet needs for the cities of Bronte and its customers, Junction and Balmorhea in 2020. The revised table is presented below, with the added information indicated with yellow shading.

Table 6-5
Municipal Unmet Needs

Water User Group	2020	2030	2040	2050	2060	2070
Andrews	(147)	(361)	(619)	(1,186)	(1,850)	(2,650)
Balmorhea	(105)	0	0	0	0	0
Bronte ^a	(443)	0	0	0	0	0
County-Other, Andrews	(16)	(43)	(74)	(134)	(192)	(254)
Colorado City	0	(115)	(126)	(137)	(150)	(164)
Junction	(368)	0	0	0	0	0
Total	(1,079)	(519)	(819)	(1,457)	(2,192)	(3,068)

a. Includes unmet needs for the City of Bronte and their customers (Robert Lee and Coke County-Other).

A3.4 Changes to Chapter 10 – Adoption of Plan and Public Participation

A.3.4.1 Addition of Section 10.8

To document the public process and adoption of the amendment to the 2021 Region F RWP, a new section, "Section 10.8: Amendment of the 2021 Regional Water Plan", is added to page 10-5 of Chapter 10. The additional text is provided below in shaded text:

Subsequent to the initial adoption of the 2021 RWP, the RFWPG adopted an amendment to the 2021 Region F RWP to include several changes to the recommended and alternative WMS. These changes are:

- The City of Bronte alternative strategy to develop groundwater supplies in Nolan County is changed to a recommended WMS and replaces the previously recommended City of Bronte strategy to develop Other Aquifer supplies in southwest Coke County. The development of Other Aquifer supplies strategy in southwest Coke County was changed from a recommended WMS to an alternative WMS.
- Colorado City recommended strategy to sell reuse water to steam electric power (SEP) for new
 FGE Texas plants in Mitchell County was removed because the FGE project has not moved

forward yet.

 Both the Cities of Junction and Balmorhea changed the online date for developing additional Edwards-Trinity Plateau Aquifer Supplies from 2020 to 2030.

At its February 1, 2024, regular public meeting, the RFWPG received a presentation regarding the amendment requests and took public comments. On behalf of the RFWPG, the consultants submitted an amendment package to the TWDB on March 22, 2024, for confirmation of a minor amendment status for these changes. This was confirmed and the minor amendment was approved by the RFWPG on May 23, 2024.

A3.5 Changes to Chapter 11 – Implementation and Comparison to Previous RWP

Changes in Chapter 11 include updated text in Section 11.2.6 and updates to Tables 11-3 and 11-4.

A.3.5.1 Changes to Section 11.2.6, Recommended and Alternative Water Management Strategies and Projects

Section 11.2.6 text on page 11-11 is updated to show the removal of two infrastructure projects that are new in the 2021 Region F RWP. Developing groundwater supplies in Nolan County for the City of Bronte was recommended in the 2016 Region F RWP, so the inclusion of this strategy in the 2021 Region RWP is not a new strategy for purposes of Section 11.2.6. The modified text is shown below.

There are $\frac{18\ 16}{10}$ new infrastructure strategies and projects that were included in the 2021 plan that were not included in the 2016 plan.

Revision to Table 11-3.

Table 11-3 (page 11-11) is updated to reflect the change in recommended water management strategies and projects, including the removal of the Mitchell County SEP reuse strategy and City of Bronte's Other Aquifer supply strategy in Coke County. The amended table is presented below, with changes highlighted in yellow. The City of Bronte's Edwards-Trinity Plateau Aquifer supply strategy that was substituted as a recommended strategy was also a recommended strategy for the City in the previous 2016 Region F RWP, and therefore, it is not a new recommended WMS.

Table 11-3
New Recommended Water Management Strategies and Projects in the 2021 Plan

Water User Group or Wholesale Provider	New Recommended Water Management Strategy and Project				
Balmorhea	Develop Edwards-Trinity Plateau Aquifer Supplies				
Bronte	Develop Other Aquifer Supplies in Southwest Coke County				
Colorado River MWD	Ward County Well Field Replacement				
Concho Rural WSC	Purchase from Provider (UCRA)				
Grandfalls	Develop Pecos Valley Aquifer Supplies				
Greater Gardendale WSC	Purchase from City of Odessa - Treated Water				
Manufacturing, Scurry	Develop Other Aquifer Supplies				
Menard	Develop Alluvial Well Supplies				
Midland	Advanced RO Treatment, Expanded Use of Paul Davis Well Field				
Mining, Brown	Develop Cross Timbers Aquifer Supplies				
Mining, Reeves	Develop Pecos Valley Aquifer Supplies				
Pecos	Partner with Madera Valley WSC and Expand Pecos Valley Aquifer Supplies				
Pecos	Advanced Water Treatment Plant				
Pecos	Direct Potable Reuse				
Pecos	Direct Non-Potable Reuse				
Pecos County WCID #1	Replace Transmission Pipeline				
Sonora	Develop Additional Edwards-Trinity Aquifer Supplies				
Steam Electric Power, Mitchell	Direct Non-Potable Reuse Sales from Colorado City				

Revision to Table 11-4.

Table 11-4 (page 11-11) is updated to reflect the change in alternative water management strategies and projects, including the addition of developing Other Aquifer supplies in southwest Coke County for the City of Bronte as a new alternative WMS. The amended table is presented below, with changes highlighted in yellow.

Table 11-4
New Alternative Water Management Strategies and Projects

Water User Group or Wholesale Provider	New Alternative Water Management Strategy
Bronte	Develop Other Aquifer Supplies in Runnels County
Bronte	Develop Other Aquifer Supplies in Southwest Coke County
Brown County WCID	Develop New Groundwater (previously recommended)
Grandfalls	Purchase from Provider (CRMWD)
Great Plains	Develop Ogallala Aquifer Supplies
Greater Gardendale WSC	Purchase from Midland County FWSD No. 1 - Winkler County Water
Manufacturing, Andrews	Develop Additional Groundwater ^a
Pecos	Indirect Potable Reuse with ASR

a. Listed as an alternative strategy due to constraints of MAG availability in the county.