



Brazos G Regional Water Planning Group

Tuesday, September 24, 2024

10:00 AM

Brazos River Authority

Lt. Gen. Phillip J. Ford Central Office

4600 Cobbs Dr. Waco, TX 76710



- 1. Call Meeting to Order and Notice of Meeting**
- 2. Invocation**
- 3. Attendance and Announcements**
- 4. Public Input - Public questions and comments on agenda items or water planning issues (limited to 5 minutes each)**



5. Report and possible discussion from Texas Water Development Board (TWDB) staff



- 6. Discussion and possible action on Request from the City of Georgetown to approve the submittal of a Minor Amendment to the 2021 Brazos G Regional Water Plan**
 - 6.1. Report on Amendment Request and Process from the technical consultant**
 - 6.2. Discussion and possible action to approve the technical consultant to submit on behalf of the Brazos G RWPG a minor amendment to the Texas Water Development Board for the City of Georgetown's project.**

City of Georgetown

Item 6

6. Discussion and possible action on Request from the City of Georgetown to approve the submittal of a Minor Amendment to the 2021 Brazos G Regional Water Plan



6.1

Report on Amendment
Request and Process
from the technical
consultant

Refresher on Amendment Guidance

A regional water planning group may initiate an amendment on its own or an entity planned for in the regional water planning process may request an amendment.

In order for projects to be eligible for State Water Implementation Fund for Texas (SWIFT) funding, projects must be recommended in the most recent regional and state water plans and all project components must have an associated capital cost.

If a project sponsor seeks funding from the TWDB for a water supply projects or a water rights permit from the TCEQ, the proposed project must be found to be consistent with the approved regional water plan and state water plan.

If the proposed project is not consistent with the approved regional and state water plan and the sponsor cannot wait to incorporate the proposed project into the next adopted regional water plan, the existing regional water plan may be amended, or a waiver of statutory requirements regarding consistency with such plans must be obtained from the TWDB and/or TCEQ.

General Principles

- TAC §357.51
- RWPG must formally consider an amendment request within 180 days of its submittal.
- RWPG may, at its discretion, accept or reject proposed amendment request.
 - If rejects, political subdivision may file petition to TWDB's EA.
 - If accepts, RWPG takes action to proceed with amendment, and must follow amendment process in accordance with whether the amendment is
 - Substitution of an alternative strategy,
 - Minor amendment, or
 - Major amendment.
- Any proposed amendment must meet rules and guidelines for development of a regional water plan.
- If source is located in a different region, RWPG must submit a copy to the RWPG where the strategy is located concurrently with submittal of request to TWDB EA.

August 1, 2024, RWPG Meeting

Heard request from City of Georgetown for Amendment to 2021 Brazos G Regional Water Plan

- Addition of Georgetown Regional Groundwater Supply System WMS and WMSP for water from the Carrizo-Wilcox Aquifer, Robertson County,
- Permitted by the Brazos Valley GCD (City indicated it has obtained legal contracts for permitted supply)

RWPG took action to:

- Pursue the amendment process,
- Approve the technical consultant to prepare draft amendment materials in accordance with TWDB rules and guidance,
- Submit a request for a “minor amendment determination” to the TWDB EA,
- Work with TWDB staff on proposed amendment.

Minor Amendment Process

- ✓ 1. Entity requests the RWPG to amend a regional water plan.
- ✓ 2. RWPG considers request and takes action to pursue the amendment at one of its regular public meetings
- ✓ 3. Amendment materials are prepared in accordance with TWDB rules and guidance, and the RWPG submits a request for a “minor amendment determination” to the TWDB EA.
- ✓ 4. TWDB EA reviews request and issues a determination to the RWPG on whether amendment is minor or major.

TODAY 5. If determined to be a minor amendment, the RWPG considers adopting the amendment at a public meeting with an opportunity for public input.

- This meeting requires at least a 14-day notice, a 14-day written comment period prior to the meeting, and consideration of comments prior to RWPG action.

**IF
ADOPTED**

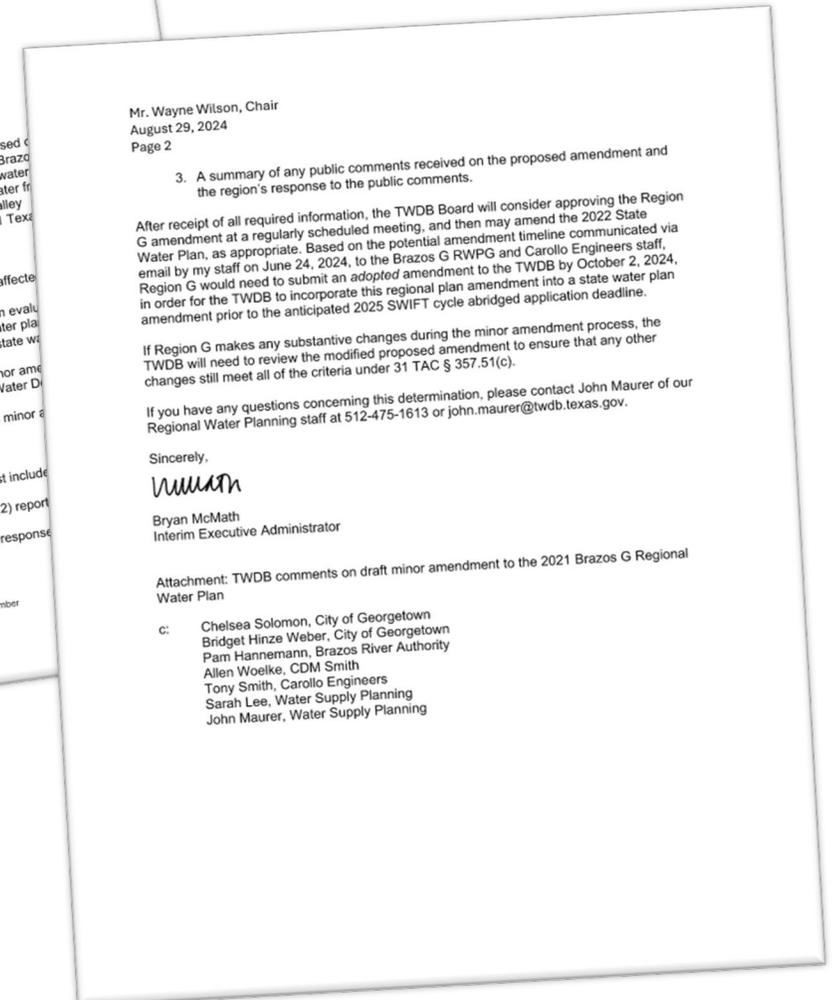
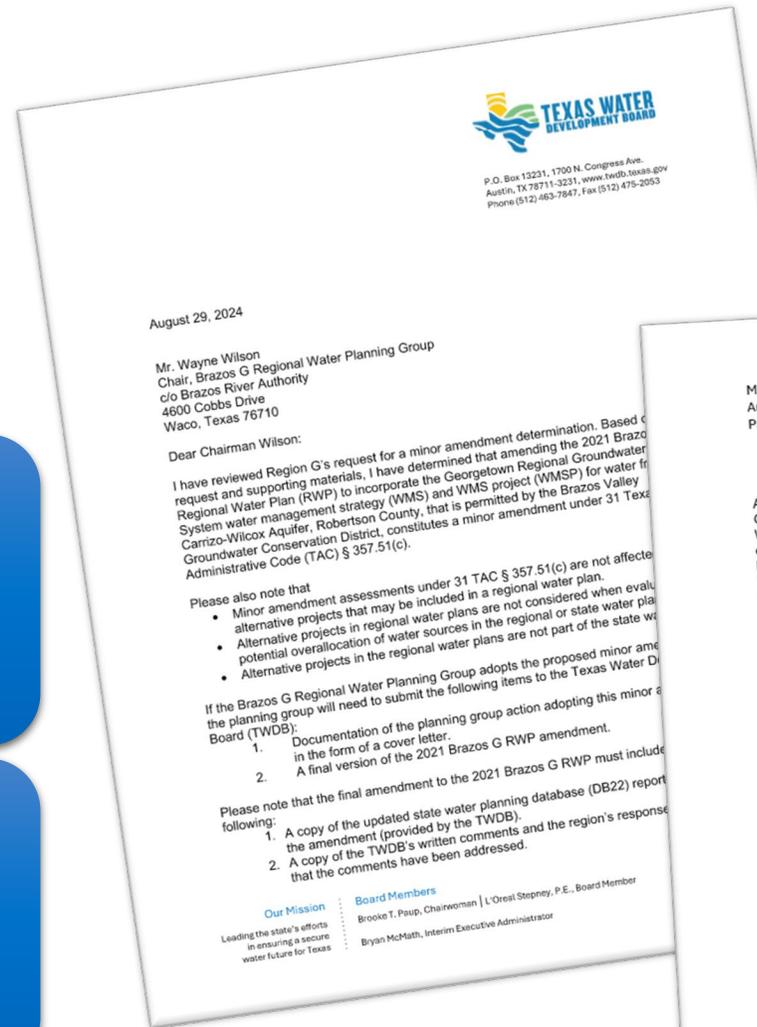
6. RWPG submits the adopted minor amendment materials to the TWDB for approval.
7. TWDB reviews the adopted minor amendment and, if acceptable, the TWDB Board will consider approval of the regional water plan amendment at a regular Board meeting.
8. The TWDB then amends the state water plan, which requires a public hearing on the proposed state water plan amendment and a 30-day public notice prior to its adoption.

TWDB Minor Amendment Determination

Incorporation of Georgetown Regional Groundwater Supply System WMS and WMSP constitutes a minor amendment.

If adopted by RWPG, must submit:

- Documentation of the planning group action adopting this minor amendment in the form of a cover letter.
- A final version of the 2021 Brazos G RWP amendment.



Final Amendment materials must include

1. A copy of the updated state water planning database (DB22) reports relevant to the amendment (provided by the TWDB).
2. A copy of the TWDB's written comments and the region's response documenting that the comments have been addressed.
3. A summary of any public comments received on the proposed amendment and the region's response to the public comments.

TWDB also notes:

- Minor amendment assessments under 31 TAC § 357.51(c) are not affected by alternative projects that may be included in a regional water plan.
- Alternative projects in regional water plans are not considered when evaluating potential overallocation of water sources in the regional or state water plans.
- Alternative projects in the regional water plans are not part of the state water plan.

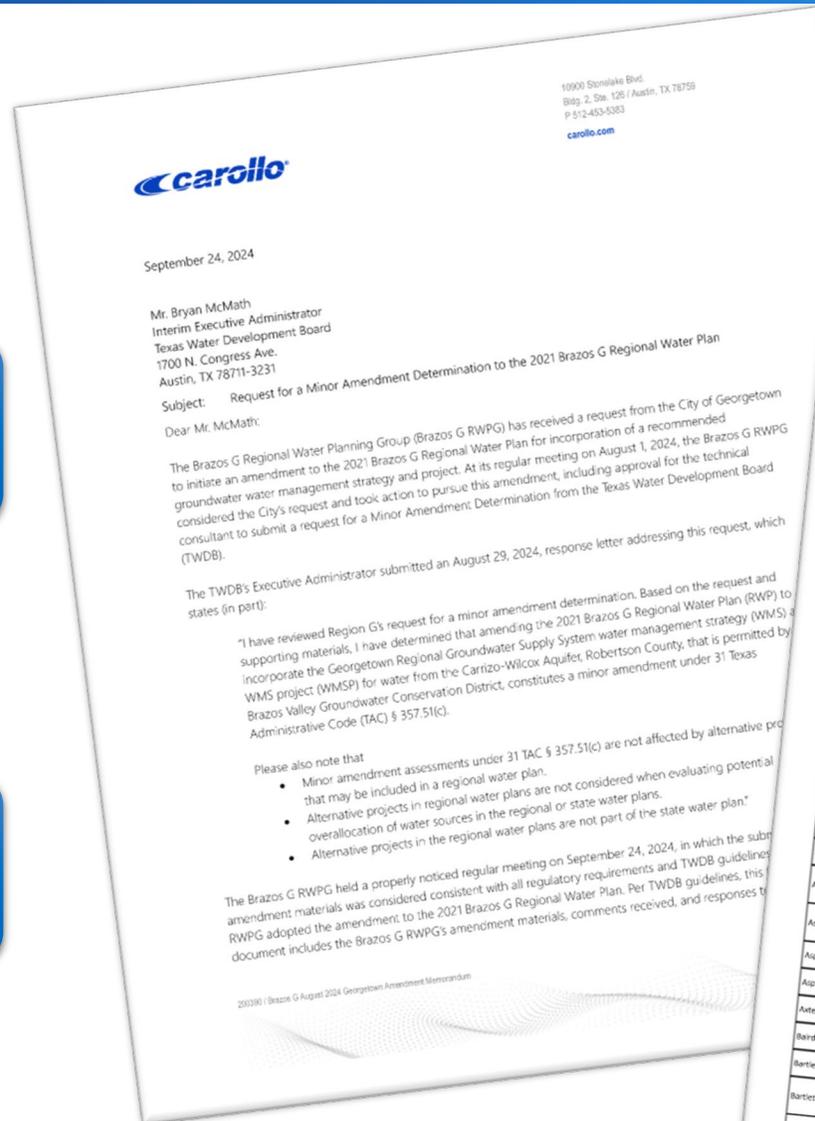
Submittal

Cover letter

- Minor determination request
- TWDB determination of minor amendment
- Date of adoption (pending)

Revised Amendment Materials

- DB22 Reports
- TWDB Comments
- Comment Summary
- Responses



TWDB Recommended WUG WMS Page 1 of 23

9/2/2024 6:45:16 AM

Region G Recommended Water User Group (WUG) Water Management Strategies (WMS)

WUG ENTITY NAME	WMS SPONSOR REGION	WMS NAME	SOURCE NAME	UNIT COST 2020	UNIT COST 2070	WATER MANAGEMENT STRATEGY SUPPLY (ACRE-FEET PER YEAR)					
						2020	2030	2040	2050	2060	2070
439 WSC	G	LAKE GRANGER AUGMENTATION PH 2	G Carizzo-Wilcox Aquifer Milam COUNTY	N/A	\$77	0	246	253	261	269	277
439 WSC	G	PURCHASE FROM BELL COUNTY WCD 1	G Brazos River Authority Little River Lake/Reservoir System	N/A	\$1000	0	1,161	1,161	1,161	1,161	240
439 WSC	G	PURCHASE RAW WATER FROM FORT WOOD	G Brazos Run-of-River	N/A	\$100	0	0	0	32	324	626
Ablene	F	SUBORDINATION - OH IVE NON-SYSTEM PORTION	F Oh IVE Lake/Reservoir Non-System Portion	N/A	\$274	0	32	185	185	0	20
Ablene	F	WEST TEXAS WATER PARTNERSHIP	F Oh IVE Lake/Reservoir Non-System Portion	N/A	\$0	0	329	1,077	1,373	1,263	1,359
Ablene	G	BRA SYSTEM OPERATION-SURPLUS	G BRA System Operations Permit Supply	\$347	\$309	5,673	5,681	7,102	5,442	5,442	5,442
Ablene	G	CEDAR RIDGE RESERVOIR CONSERVATION - ABILENE	G Cedar Ridge Lake/Reservoir	N/A	\$497	0	0	18,889	16,300	13,200	10,300
Action MUD	G	INCREASE SHAFTS W/TP CAPACITY - ACTION MUD, JOHNSON COUNTY SUD	G Brazos River Authority Main Stem Lake/Reservoir System	N/A	\$291	0	1,624	2,197	2,001	1,995	2,021
Action MUD	G	TRINITY AQUIFER DEVELOPMENT	G Trinity Aquifer Hood COUNTY	N/A	\$412	0	0	3,752	3,752	3,752	3,752
Action MUD	G	TRINITY AQUIFER DEVELOPMENT	G Trinity Aquifer Johnson COUNTY	N/A	\$1745	0	51	51	51	51	215
Albany	G	MUNICIPAL WATER CONSERVATION - ALBANY	DEMAND REDUCTION	N/A	\$560	0	0	0	0	0	236
Aqua WSC*	G	MUNICIPAL WATER CONSERVATION - AQUA WSC	DEMAND REDUCTION	N/A	N/A	0	30	98	146	193	233
Aqua WSC*	L	MUNICIPAL WATER CONSERVATION	DEMAND REDUCTION	N/A	N/A	0	11	4	0	0	0
Armstrong WSC	G	MUNICIPAL WATER CONSERVATION - ARMSTRONG WSC	DEMAND REDUCTION	N/A	\$770	0	1	1	1	1	1
Aspermont	G	MUNICIPAL WATER CONSERVATION - ASPERMONT	DEMAND REDUCTION	N/A	\$560	0	35	37	33	35	36
Aspermont	G	NCTMWA LAKE CREEK RESERVOIR	G NCTMWA Lake Creek Lake/Reservoir	N/A	N/A	0	19	37	56	73	89
Aspermont	G	UPPER BASIN CHEROKEE CONTROL PROJECT	G Other Aquifer Saline Stonewall COUNTY	N/A	\$1490	0	0	4	0	0	0
Atlet WSC	G	PURCHASE WATER FROM CITY OF WACO	G Brazos Run-of-River	\$3273	\$3273	0	249	249	249	249	249
Bartlett	G	BRA SYSTEM OPERATION-SURPLUS	G BRA System Operations Permit Supply	\$76	\$76	83	86	90	94	97	101
Bartlett	G	MUNICIPAL WATER CONSERVATION - BARTLETT	DEMAND REDUCTION	N/A	\$560	155	132	150	154	159	164
Bartlett	G	PURCHASE SUPPLY FROM JARRELL-SCHWERTNER PSC	G Brazos River Authority Little River Lake/Reservoir System	\$2445	\$2445	0	28	61	80	99	107
Bayler SUD*	G	MUNICIPAL WATER CONSERVATION - BAYLOR SUD	DEMAND REDUCTION	N/A	\$560	275	275	275	275	275	275
Bell County WCD 2	G	TRINITY AQUIFER DEVELOPMENT	G Trinity Aquifer Bell COUNTY	N/A	\$1460	0	4	5	8	9	9

*A single asterisk next to a WUG's name denotes that the WUG is split by two or more planning regions.

Comments Addressed

No.	From	Summary of Comment	Response
1	TWDB	Update Table 4 to clarify WMS supply begins in 2030	Table 4 revised.
2	TWDB	Clarify if revisions are necessary to Appendix P.	Table 2 revised to reflect no changes are necessary to the Section 13 “Miscellaneous Strategies” row in Appendix P.
3	TWDB	Clarify if any revisions are necessary to text of Section 6.3.2 on impacts of voluntary redistribution of water from rural and agricultural areas.	No revisions of the text in Section 6.3.2 are necessary.
4	TWDB	Document in Table 2 necessary revisions to Table 6-3 to reflect analysis for new Georgetown WMS/WMSP.	Table 2 revised to indicate change for Chapter 6, Table 6-3, adding Georgetown to list of beneficiaries for Carrizo-Wilcox Aquifer development.
5	TWDB	For WMSs other than reservoirs the length of debt service is 20 years and the annual interest rate for project financing is 3.5 percent unless otherwise justified.	The Financial Cost calculations have been revised to use a length of debt service of 20 years and an annual interest rate for project financing of 3.5 percent.
6	TWDB	RWPGs must calculate annual operating and maintenance costs as 2.5 percent of estimated construction costs for pump stations and power costs must be calculated at \$0.08 per kilowatt hour, unless more accurate, project-specific data is accessible.	The Financial Cost calculations have been revised to estimate annual operating and maintenance costs as 2.5 percent of estimated construction costs for pump stations, and power costs calculated at \$0.08 per kilowatt hour.

Comments Addressed (cont'd)

No.	From	Summary of Comment	Response
7	City of Bryan	<p>“Georgetown’s requested amendment seeks to allocate up to 11,115 acre-feet per year of “unallocated” water from the Carrizo-Wilcox Aquifer in Robertson County to Georgetown. It appears that in making the determination of the amount of “unallocated” groundwater, the Region G’s technical consultant failed to account for Bryan’s approved alternative water management strategy (the expansion of Bryan’s wellfield into Robertson County), which has an allocation of 9,973 acre-feet per year of groundwater from the Carrizo-Wilcox Aquifer (2021 Plan Vol. I at 5; Vol. II at 5.1.1).</p> <p>Because of this existing allocation to Bryan, the allocation of the full 11,115 acre-feet per year to Georgetown would result in an over-allocation of the available water supply in the Carrizo-Wilcox Aquifer in Robertson County. Additionally, the amendment, if approved, would eliminate Bryan’s ability to use its approved alternative water management strategy, which would constitute a “significant impact” on that strategy.</p>	<p>Per the TWDB’s Executive Administrator’s 8/29/2024 letter to the Brazos G RWPG,</p> <p>“Minor amendment assessments under 31 TAC § 357.51(c) are not affected by alternative projects that may be included in a regional water plan. Alternative projects in regional water plans are not considered when evaluating potential overallocation of water sources in the regional or state water plans. Alternative projects in the regional water plans are not part of the state water plan.”</p> <p>For these reasons, no changes have been made to the proposed amendment.</p>

Discussion on RWPG's comments

- RWPG has capability to provide response(s) to public comments received.
- Can be added to adopted amendment materials.

6.2

Discussion and possible action to approve the technical consultant to submit on behalf of the Brazos G RWPG a minor amendment to the Texas Water Development Board for the City of Georgetown's project.

Suggested Action

“The Brazos G Regional Water Planning Group adopts the proposed minor amendment to the 2021 Brazos G Regional Water Plan, consistent with the information discussed in this meeting, and approves the technical consultant to submit the required adopted minor amendment materials to the TWDB, including approved responses from the Brazos G Regional Water Planning Group to public comments received.”

Tony L. Smith, P.E.
TLSmith@carollo.com





7. Discussion and possible action on Request from the City of Bryan to make a Substitution in the 2021 Brazos G Regional Water Plan

7.1. Presentation from City of Bryan representative

7.2. Report and discussion on Substitution Request and Process from the technical consultant

7.3. Discussion and possible action to pursue the substitution process and approve the technical consultant to submit on behalf of the Brazos G RWPG proposed substitution materials with a request for written approval of the substitution from the Texas Water Development Board.

City of Bryan

Item 7

Discussion and possible action on Request from the City of Bryan to make a Substitution in the 2021 Brazos G Regional Water Plan



7.1

Presentation from City
of Bryan representative

7.2

Report and discussion
on Substitution
Request and Process
from the technical
consultant

General Principles

- TAC §357.51 Amendments to Regional Water Plans
- RWPG must formally consider an amendment request within 180 days of its submittal.
- RWPG may, at its discretion, accept or reject proposed amendment request.
 - If rejects, political subdivision may file petition to TWDB's EA.
 - If accepts, RWPG takes action to proceed with amendment, and must follow amendment process in accordance with whether the amendment is
 - Substitution of an alternative strategy,
 - Minor amendment, or
 - Major amendment.
- Any proposed amendment must meet rules and guidelines for development of a regional water plan.
- If source is located in a different region, RWPG must submit a copy to the RWPG where the strategy is located concurrently with submittal of request to TWDB EA.

TAC §357.51(e) Substitution of Alternative WMSs

Substitutions of WMSs that have been fully evaluated and are explicitly identified as alternative WMSs in the adopted regional water plans may be made if:

- The WMS originally recommended is no longer recommended, and
- The substitution of the alternative WMS is capable of meeting the same water need without over-allocating any source.

Before substituting an Alternative WMS, the RWPG must provide public notice in accordance with §357.21(g)(1) of this title and request written approval from the EA.

If the EA approves the substitution, the RWPG must provide public notice in accordance with §357.21(g)(2) of this title before taking action to substitute the Alternative WMS.

Request Received from City of Bryan (Sept. 6, 2024 email)

- Seeking to substitute an identified alternative water management strategy for a recommended strategy in 2021 Brazos G Regional Water Plan:
 - **Substitute:** Alternative Wellfield Expansion in Robertson County – Carrizo-Wilcox Aquifer, Brazos Basin
 - Vol.1, 5.3.1.f
 - 9,973 ac-ft/yr
 - **Replacing:** Recommended Direct Non-Potable Reuse – Option 1
 - Vol.1, 5.3.1.d
 - 605 ac-ft/yr
- No indication if seeking funding assistance next year.
- Indicated it cannot wait to incorporate the proposed project into the next adopted 2026 Brazos G Regional Water Plan.
- No indication from City if it has a present legal ability via permit or contract for this supply in Brazos Valley GCD area.
- Proposed substitution would potentially (if City of Georgetown minor Amendment approved) over-allocate groundwater supply from Carrizo-Wilcox aquifer, Robertson County, Brazos River Basin source.

Minor Amendment Process

✓ 1. Entity requests the RWPG to make a substitution.

Today 2. RWPG considers the proposed substitution request as an action item on an agenda at one of its regular meetings.

3. Proposed substitution materials are submitted to the TWDB EA with a request for written approval of the substitution.

4. TWDB EA reviews and provides written approval of the substitution if it is in accordance with 31 TAC §357.51(e).

Next Mtg. 5. The RWPG adopts the substitution at a public meeting with an opportunity for public input.

a. This meeting requires at least a 14-day notice, a 14-day written comment period prior to the meeting, and consideration of comments prior to RWPG action.

6. RWPG submits the adopted substitution materials to the TWDB.

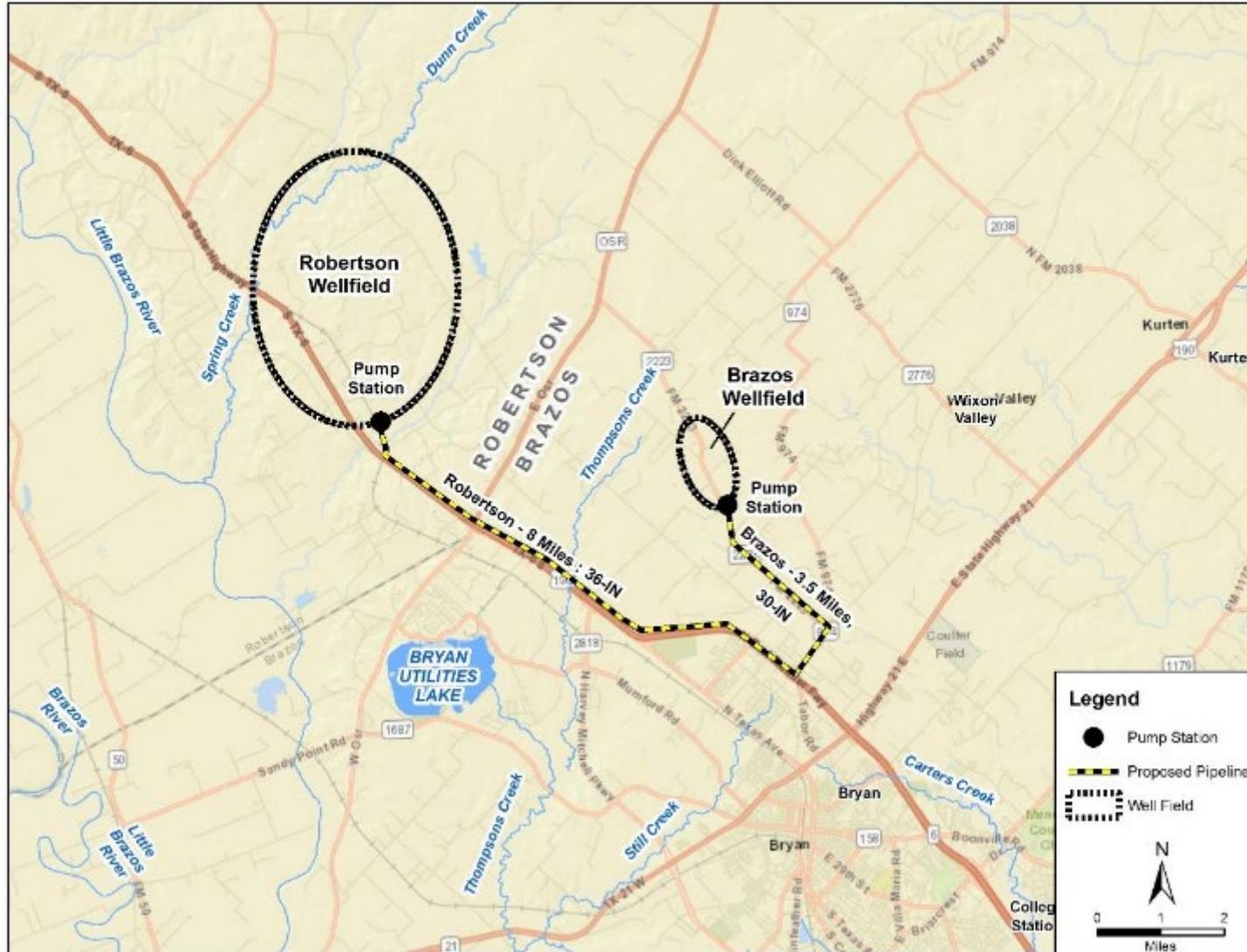
7. The TWDB amends the state water plan, which requires a public hearing on the proposed state water plan amendment and a 30-day public notice prior to its adoption.

Required materials that must be submitted to TWDB EA by RWPG.

1. Cover letter from RWPG request approval of substitution,
 - ? a) stating the need for substitution, and
 - b) summarizing RWPG action taken.
- ✓ 2. Documentation of what plan sections the amendment applies to and where changes would occur based on the amendment.
- ✓ 3. Information to demonstrate the WMS to be substituted has been fully evaluated in accordance with statute, rule, and contractual technical guidelines.
- ? 4. Indication that the proposed substitution would meet the same water need as the previously recommended strategy without over-allocating any source.
- ✓ 5. Confirmation of the strategy and projectIDs that will be swapped in the regional water planning database.

From 2021 Brazos G Plan

Figure 5.1-1. Locations of Planned Bryan Well Fields and Facilities



Availability Review

WMS SOURCE SUMMARY REPORT

Source Name: Carrizo-Wilcox Aquifer | Carrizo| Calvert Bluff| Simsboro| Hooper

Source Region	Source County	Source Basin	Salinity	Source Type	Source Future Status	Sourceld	DBSOld
G	Robertson	Brazos	Fresh	Groundwater Groundwater	Both	943	1363

Future Water Volume Summary

	2020	2030	2040	2050	2060	2070
Source Availability	46,590	47,400	47,881	48,281	48,282	48,282
Total Direct Source Volume-In	36,617	36,617	36,617	36,617	36,617	36,617
Total Recommended WMS Increase in Availability	0	0	0	0	0	0
Total Recommended WMS Decrease in Availability	0	0	0	0	0	0
Total Recommended WMS WUG Supplies	550	550	550	550	550	550
Future Source Availability Balance (Current Source Availability + Total Decrease in Availability + Total Decrease in Availability) - (Total Direct Source Volume-In + WMS WUG Supplies)	9,423	10,233	10,714	11,114	11,115	11,115

0 ac-ft with potential Georgetown amendment

Water User Groups (WUGs) Related to the WMS that Use Remaining Existing Availability

Sponsor Region		WMS Name								
G		Carrizo Aquifer Development - Robertson County WSC								
WUG Information					WMS WUG Supplies (acre-feet)					
WUG Name	WUG Region	WUG County	WUG Basin	WMS WUG Status	2020	2030	2040	2050	2060	2070
Robertson County WSC	G	Robertson	Brazos	Recommended	550	550	550	550	550	550
Bryan	G	Brazos	Brazos	Alternative	0	9,973	9,973	9,973	9,973	9,973
Strategy WMS WUG Supply Total:					550	10,523	10,523	10,523	10,523	10,523

2021 Costing of WMS

Table 5.1-1. Cost Estimate Summary for Robertson County Well Field for Bryan

Item	Estimated Costs for Facilities
Primary Pump Station (17.8 MGD)	\$5,365,000
Transmission Pipeline (36 in dia., 8.2 miles)	\$15,128,000
Well Fields (Wells, Pumps, and Piping)	\$15,184,000
Water Treatment Plant (17.8 MGD)	\$1,009,000
TOTAL COST OF FACILITIES	\$36,686,000
Engineering and Feasibility Studies, Legal Assistance, Financing, Bond Counsel, and Contingencies (30% for pipes & 35% for all other facilities)	\$12,084,000
Environmental & Archaeology Studies and Mitigation	\$338,000
Land Acquisition and Surveying (132 acres)	\$800,000
Interest During Construction (3% for 1 years with a 0.5% ROI)	<u>\$1,373,000</u>
TOTAL COST OF PROJECT	\$51,281,000
ANNUAL COST	
Debt Service (3.5 percent, 20 years)	\$3,608,000
Operation and Maintenance	
Pipeline, Wells, and Storage Tanks (1% of Cost of Facilities)	\$303,000
Intakes and Pump Stations (2.5% of Cost of Facilities)	\$134,000
Water Treatment Plant	\$605,000
Pumping Energy Costs (7085455 kW-hr @ 0.08 \$/kW-hr)	<u>\$567,000</u>
TOTAL ANNUAL COST	\$5,217,000
Available Project Yield (acft/yr)	9,973
Annual Cost of Water (\$ per acft), based on PF=2	\$523
Annual Cost of Water After Debt Service (\$ per acft), based on PF=2	\$161
Annual Cost of Water (\$ per 1,000 gallons), based on PF=2	\$1.61
Annual Cost of Water After Debt Service (\$ per 1,000 gallons), based on PF=2	\$0.50

Potential Amended WMS Recommendation (based on remaining source availability)

WMS Project Id	REC TYPE	Project Name	Online Decade	Planning Region(s) Served by Project	List of Project Sponsors	Capital Cost	Amount (ac-ft)	Project Components
1747	ALT	CARRIZO GW DEVELOPMENT FOR BRYAN IN ROBERTSON COUNTY	2030	G	BRYAN	\$51,281,000	9,973	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION; WATER TREATMENT PLANT EXPANSION
1834	REC	REUSE- BRYAN (OPTION 1)	2020	G	BRYAN	\$11,092,000	605	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION

- Recommended WMSP to be replaced
 - WMSP ID 1834
- Alternative to be recommended:
 - WMSP ID 1747

Minor Amendment Process

✓ 1. Entity requests the RWPG to make a substitution.

Today 2. RWPG considers the proposed substitution request as an action item on an agenda at one of its regular meetings.

3. Proposed substitution materials are submitted to the TWDB EA with a request for written approval of the substitution.

4. TWDB EA reviews and provides written approval of the substitution if it is in accordance with 31 TAC §357.51(e).

Next Mtg. 5. The RWPG adopts the substitution at a public meeting with an opportunity for public input.

a. This meeting requires at least a 14-day notice, a 14-day written comment period prior to the meeting, and consideration of comments prior to RWPG action.

6. RWPG submits the adopted substitution materials to the TWDB.

7. The TWDB amends the state water plan, which requires a public hearing on the proposed state water plan amendment and a 30-day public notice prior to its adoption.

Required materials that must be submitted to TWDB EA by RWPG.

1. Cover letter from RWPG request approval of substitution,
 - ? a) stating the need for substitution, and
 - b) summarizing RWPG action taken.
- ✓ 2. Documentation of what plan sections the amendment applies to and where changes would occur based on the amendment.
- ✓ 3. Information to demonstrate the WMS to be substituted has been fully evaluated in accordance with statute, rule, and contractual technical guidelines.
- ? 4. Indication that the proposed substitution would meet the same water need as the previously recommended strategy without over-allocating any source.
- ✓ 5. Confirmation of the strategy and project IDs that will be swapped in the regional water planning database.

7.3

Discussion and possible action to pursue the substitution process and approve the technical consultant to submit on behalf of the Brazos G RWPG proposed substitution materials with a request for written approval of the substitution from the Texas Water Development Board.

Actions for Consideration

1. “The Brazos G Regional Water Planning Group approves to pursue the substitution process and approves the technical consultant to prepare and submit substitution materials in accordance with TWDB rules and guidance, submit a request for written approval of the substitution from the TWDB Executive Administrator, and work with TWDB staff on the proposed substitution.”
2. “The Brazos G Regional Water Planning Group does not approve to pursue the substitution process as requested by the City of Bryan.”
3. “The Brazos G Regional Water Planning Group takes no action at this time.”
 - a) 180 days from Sept. 6, 2024 is Wednesday, March 5, 2025

Tony L. Smith, P.E.
TLSmith@carollo.com





8. Discussion and possible action on the report from the technical consultant

8.1. Regional Planning Updates

Brazos G Regional Water Planning

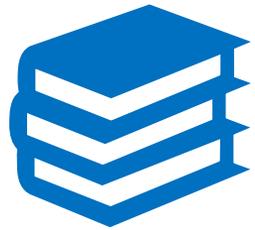
Item 8.1

Discussion and Possible Action on Report from Technical Consultant

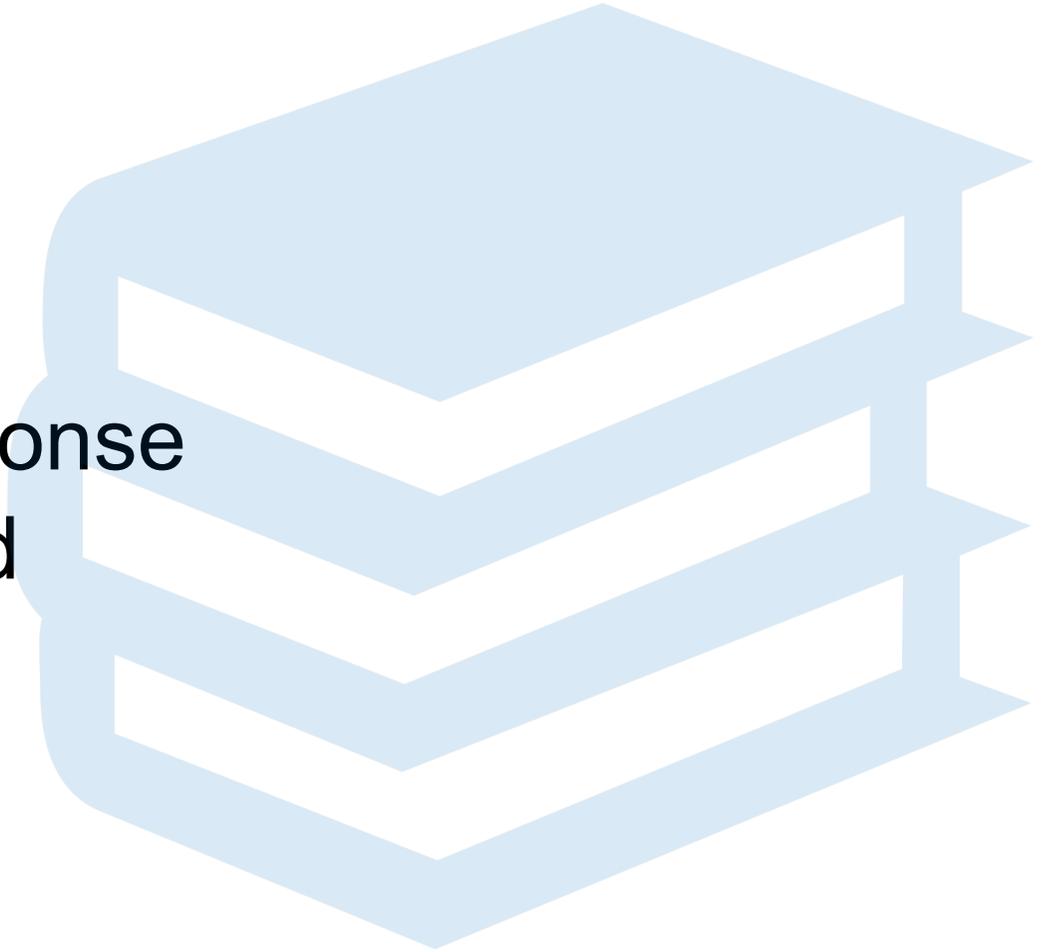


8.1

Regional Planning Updates



Chapter 7 – Drought response information, activities, and recommendations



Chapter 7: Drought response information, activities, and recommendations - Outline

1. Drought(s) of Record
2. Uncertainty and Drought(s) Worse than Drought of Record [NEW]
3. Current Drought Preparations and Response
4. RWPA Drought Response Triggers & Actions
5. Existing and Potential Emergency Interconnects
6. Drought Management WMS
7. Emergency Responses to Local Drought Conditions or Loss of Water Supply
8. Other Drought-Related Considerations and Recommendations
9. Development of Region-Specific Model Drought Contingency Plans
10. Drought Preparedness Council Report
11. Other Drought Recommendations

Discussion Items

Drought(s) of Record

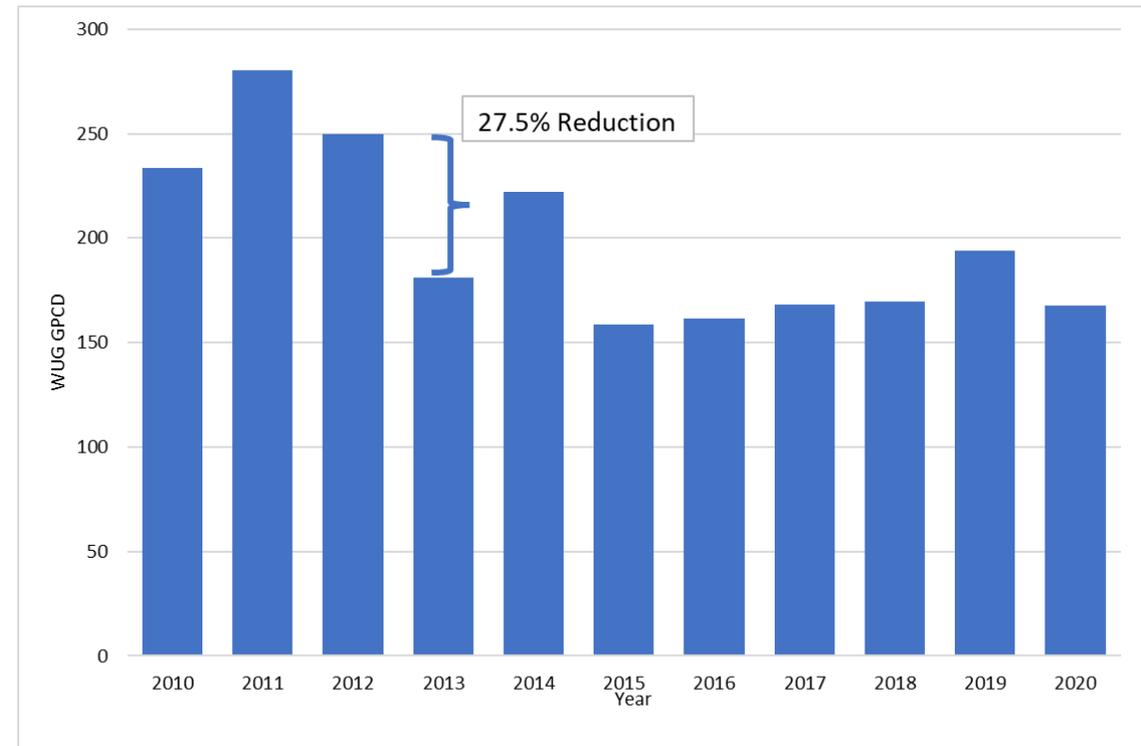
- 1950s Drought as the Drought of Record (DOR)
 - Consistent with the 2021 Regional Water Plan (RWP)
- Evaluation
 - Palmer Drought Severity Index (PDSI)
 - Water Availability Modeling
 - Naturalized Streamflow
 - Groundwater
- Recommendations (similar to the 2021 RWP)
 - Upper Brazos G area: 1950s drought as DOR + 2010s drought for modeling effort
 - Mid and Lower Brazos G areas: 1950s drought as DOR

Uncertainty and Drought(s) Worse than Drought of Record

- New requirement in this cycle
- Required components
 - Planning for Uncertainty
 - Baseline demand reflective of dry year conditions
 - Safe yields in water supply availability analysis
 - Existing Measures for Preparation of the DWDOR
 - Drought management measures outlined in Drought Contingency Plans (DCPs)
 - Supply management factor
 - Potential Additional Measures for DWDOR Resilience
 - Drought Planning Survey Results

Response to the 2010s Drought for Brazos G WUGs

- Achieved a 27.5% reduction from 2012 to 2013 on average
- Stabilizing GPCD trend indicates the challenge of achieving a similar magnitude of reduction
- Baseline demand reflective of dry-year demand provides a buffer for supply planning



Sources: TWDB provided spreadsheet dated March 2022 (CORRECTED - WUG_HistoricalData_2026RWPs.xlsx)

Current Drought Preparations and Response

- Municipal DCP Submittals
 - Total DCPs Received by BRA: 96 (from the last two cycles)
 - Entities Required by TWDB to Submit DCPs: 106
 - Updated DCPs Submitted (2022-2024): 32
 - Previous DCPs Submitted (2008-2020): 28
 - No Submission: 46
 - Non-Required DCPs Received: 36 (from entities not required to submit)
- Groundwater Conservation District DCP Submittals: none received
- Next Steps
 - Consultant to contact entities via email/phone to request updated DCPs
 - Update Chapter 7

RWPA Drought Response Triggers & Actions

- Requirement:
 - Identify triggers and actions by sources (surface water and groundwater).
 - Identify the source manager.
- Approach from last cycle:
 - Source managers or triggers & actions were not established
- Follow similar approach this cycle.

Review Recommendations from Previous 2021 Plan

- 7.6: Brazos G supports promoting **demand management during droughts** but emphasizes it should **not** be considered a "**new source**" of supply.
- 7.8.1: Brazos G advises **WUGs without DCPs** to refer to their **water providers' DCPs** as examples, especially if they use local surface water, or **similar nearby entities**.
- 7.8.2: For those using local groundwater, Brazos G suggests reviewing DCPs from both **their water providers and groundwater conservation districts**, or **similar nearby entities**.
- 7.10: The Brazos G RWPG encourages **local irrigators and steam-electric operators** to assess their water supply vulnerabilities and plan actions for drought conditions.

Review Recommendations from Previous 2021 Plan Continued

- 7.11.3: Brazos G RWPG offers **no recommendations** to the **Drought Preparedness Council** nor any recommendations regarding the State Drought Preparedness Plan
- 7.11.4: Brazos G RWPG recommends that all entities **monitor** both local and statewide **drought conditions** to better prepare for and make informed decisions.

Next Steps and Schedule

- **Incorporate Feedback** from RWPG.
- **Request Remaining Information** to finalize Chapter 7.
- **Schedule:** Draft of Chapter 7 to be published by late 2024.

Tony L. Smith, P.E.
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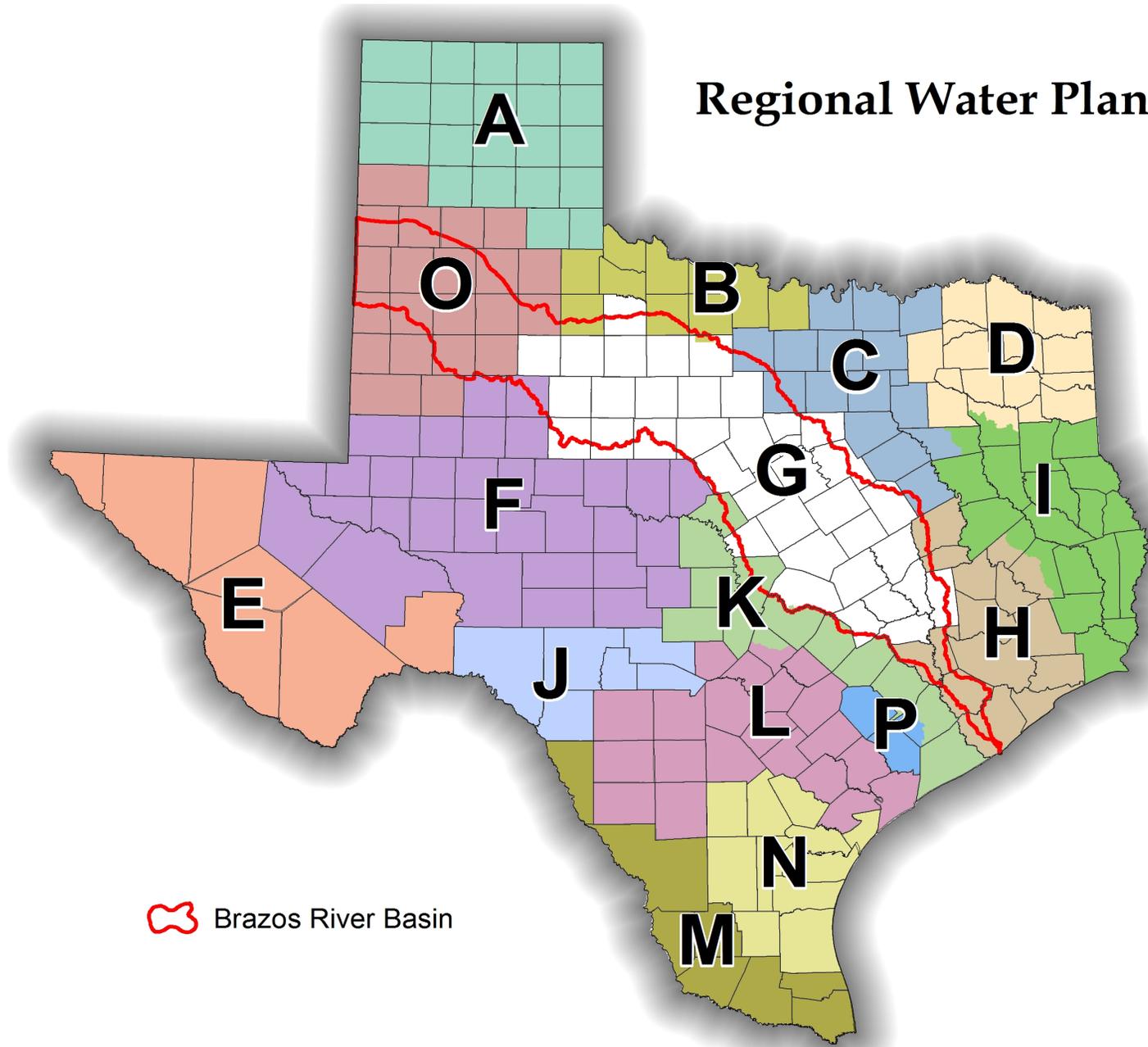


9. Report, discussion, and possible action from the Water Policy Committee



10. Report and possible discussion on updates from other regional water planning groups (Regions B, C, F, H, K, L & O)

Regional Water Planning Groups



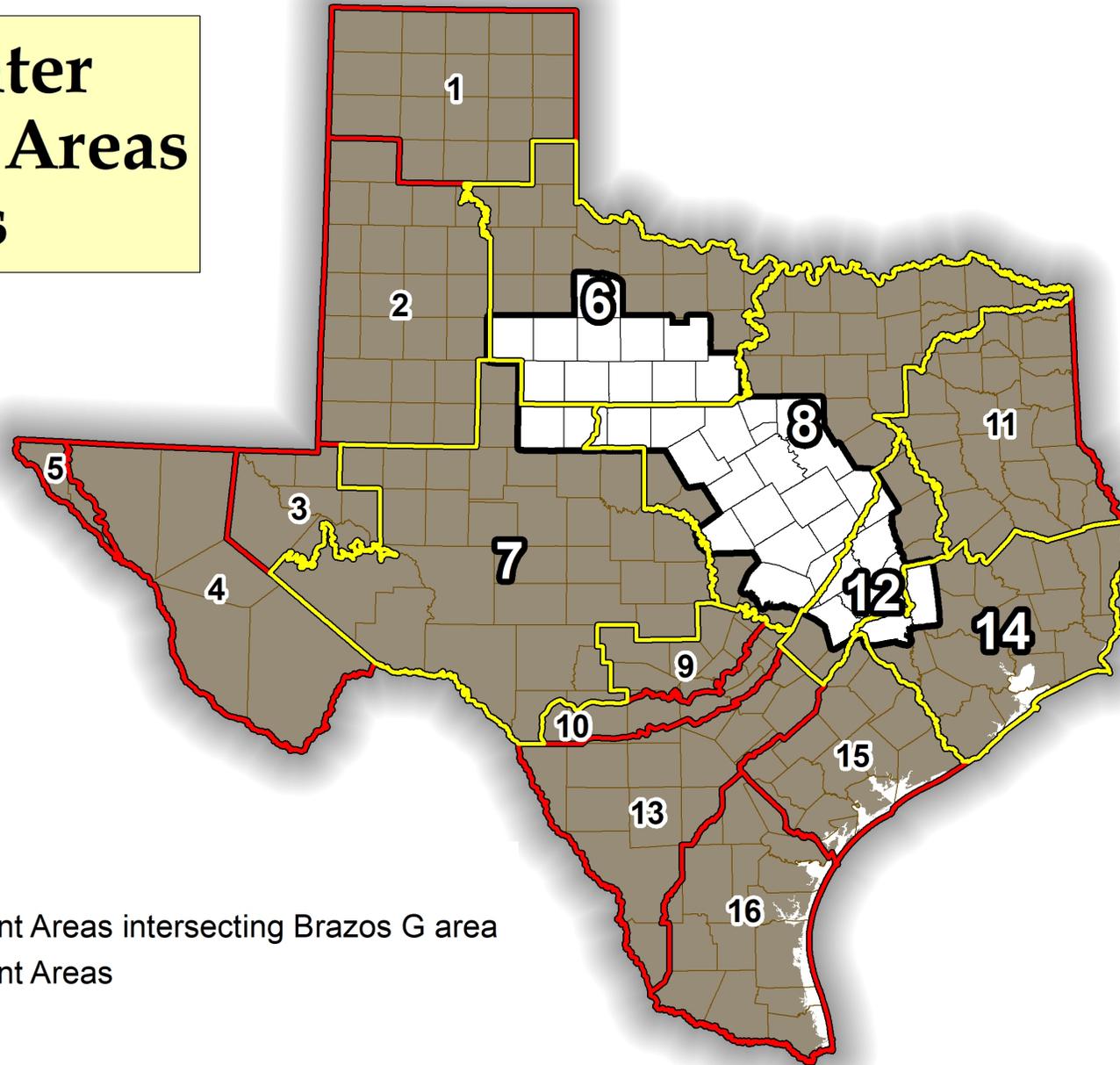
- A** Panhandle
- B** Region B
- C** Region C
- D** North East Texas
- E** Far West Texas
- F** Region F
- G** Brazos G
- H** Region H
- I** East Texas
- J** Plateau
- K** Lower Colorado
- L** South Central Texas
- M** Rio Grande
- N** Coastal Bend
- O** Llano Estacado
- P** Lavaca

 Brazos River Basin



11. Report and possible discussion on Groundwater Management Area (GMA) activities

Groundwater Management Areas of Texas



GMA's in Brazos G:
6, 7, 8, 12, 14

-  Brazos G Area
-  Groundwater Management Areas intersecting Brazos G area
-  Groundwater Management Areas



12. Report and possible discussion on agency communication and information. (TPWD, TDA, TSSWCB, BBASC, & Interregional Planning Council)





13. Discussion and possible action on report by Brazos G Administrator

13.1. Administrator Report

13.2. Finance Report – Summary of Administrative Tasks and Expenses



Sub-regional Public Meetings – January 2025

Tuesday, January 14, 2025, 10:00 AM - College Station, TX

Wednesday, January 15, 2025, 10:00 AM - Waco, TX

Thursday, January 16, 2025, 10:00 AM - Abilene, TX



14. Discussion and possible action on report from Brazos G Chair



**15. Consider Agenda Items and Date for the next Brazos G
RWPG public meeting**



16. Adjourn