

Regional Water Planning Group Meeting

etexwaterplan.org

East Texas Regional Water Planning Group Meeting

- 1. Call to Order
- 2. Invocation & Pledge of Allegiance
- 3. Notice of Meeting
- 4. Roll Call/Determination of Quorum
- 5. Public Comments



Item 6

Consideration and Approval of the minutes of the June 21, 2023 meeting

Item 7

Reports from the City of Nacogdoches

Item 8 Reports of Adjoining Regions' Activity

Region C – David Montagne

Region D – John McFarland

Region H – Scott Hall

Interregional Liaison – Kelley Holcomb



Item 9 Reports from Standing Committees

Executive Committee – John Martin
Finance Committee – Kelley Holcomb
Bylaws Committee – David Alders
Technical Committee – Scott Hall
Nominations Committee – Monty Shank



Item 10 Actions for Authorization of Contract Amendments

- a) Amendment #2 (City/Consultant)
- b) Amendment #2 (Texas Water Development Board [TWDB]/City)
- c) Amendment #3 (City/Consultant)
- d) City Personnel Eligible Listing



- Amendment #1 TWDB → City
- Signed October 2022
- Awarded \$890,317

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EXPENSE BUDGET CATEGORY	ORIGINAL BUDGET	REVISED BUDGET	AMOUNT CHANGED
Contractor (Political Subdivision) Other Expenses $^{\rm 1}$	\$5,000.00	\$5,000.00	\$0.00
Contractor (Political Subdivision) Salaries and Wages ²	category did not previously exist	\$0.00	\$0.00
Subcontract Services	\$219,814.00	\$1,110,131.00	\$890,317.00
Voting Planning Member Travel ³	\$4,000.00	\$4,000.00	\$0.00
Contractor (Political Subdivision) Travel ⁴	\$0.00	\$0.00	\$0.00
Total Project Cost	\$228,814.00	\$1,119,131.00	\$890,317.00

CAS Item No.	SOW Task No.	Task Description	ORIGINAL BUDGET	REVISED BUDGET	AMOUNT CHANGED
1	1	Planning Area Description	\$18,805.00	\$18,805.00	\$0.00
2	2A	Non-Municipal Water Demand Projections	\$32,928.00	\$32,928.00	\$0.00
3	2B	Population and Municipal Water Demand Projections	\$53,316.00	\$53,316.00	\$0.00
4	8	Recommendations Regarding Unique Stream Segments and/or Reservoir Sites and Legislative & Regional Policy			
-	4.0	Issues	\$11,097.00	\$11,097.00	\$0.00
5 6	10 3	Public Participation and Plan Adoption	\$112,668.00	\$254,062.00 \$130,118.00	\$141,394.00
7	4A	Water Supply Analysis Water Needs Analysis	\$0.00 \$0.00	\$130,118.00	\$130,118.00 \$21,201.00
8	4B	Identification of Infeasible Water Management Strategies in the previously adopted 2021 Regional		\$21,201.00	\$21,201.00
		Water Plan	\$0.00	\$23,863.00	\$23,863.00
9	4C	Technical Memorandum	\$0.00	\$32,759.00	\$32,759.00
10	5A	Identification of Potentially Feasible Water Management Strategies and Projects	\$0.00	\$14,924.00	\$14,924.00
11	5B	Evaluation and Recommendation of Water Management Strategies and Projects	\$0.00	\$378,351.00	\$378,351.00
12	5C	Conservation Recommendations	\$0.00	\$25,534.00	\$25,534.00
13	6	Impacts of the Regional Water Plan and Consistency with Protection of		·	-
14	7	Resources Drought Response Information, Activities, and Recommendations	\$0.00 \$0.00	\$34,445.00 \$75,386.00	\$34,445.00 \$75,386.00
15	9	Implementation and Comparison to the Previous Regional Water Plan	\$0.00	\$12,342.00	\$12,342.00
		Total	\$228,814.00	\$1,119,131.00	\$890,317.00

- Amendment #1 City → Plummer
- Signed February 2023
- Awarded \$406,956 of \$890,317
- Balance to be awarded: \$483,361

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EXPENSE BUDGET CATEGORY	ORIGINAL BUDGET	REVISED BUDGET	AMOUNT CHANGED
Contractor (Political Subdivision) Other Expenses ¹	\$5,000.00	\$5,000.00	\$0.00
Contractor (Political Subdivision) Salaries and Wages ²	category did not previously exist	\$0.00	\$0.00
Subcontract Services	\$219,814.00	\$1,110,131.00	\$890,317.00
Voting Planning Member Travel ³	\$4,000.00	\$4,000.00	\$0.00
Contractor (Political Subdivision) Travel ⁴	\$0.00	\$0.00	\$0.00
Total Project Cost	\$228,814.00	\$1,119,131.00	\$890,317.00

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		Total
TASK	DESCRIPTION	Amount
Task 3	Water Supply Analysis	\$130,118.00
Task 4A	Water Needs Analysis	\$21,201.00
Task 4B	Identification of Infeasible Water Management Strategies	\$23,863.00
Task 4C	Technical Memorandum	\$32,759.00
	Identification of Potentially Feasible Water Management Strategies and	
Task 5A	Projects	\$14,924.00
	Evaluation and Recommendation of Water Management Strategies and	
Task 5B	Projects	\$154,091.00
Task 5C	Conservation Recommendations	\$5,000.00
	Impacts of the Regional Water Plan and Consistency with Protection of	
Task 6	Resources	\$5,000.00
Task 7	Drought Response Information, Activities, and Recommendations	\$5,000.00
Task 8	Policy Recommendations & Unique Sites	\$5,000.00
Task 9	Implementation and Comparison to the Previous Regional Water Plan	\$5,000.00
Task 10	Public Participation and Plan Adoption	\$5,000.00
	TOTAL ENGINEER BUDGET	\$406,956.00



- Amendment #2 City → Plummer
- Balance to be awarded: \$483,361

EXPENSE BUDGET CATEGORY	ORIGINAL BUDGET	REVISED BUDGET	AMOUNT CHANGED
Contractor (Political Subdivision) Other Expenses $^{\rm 1}$	\$5,000.00	\$5,000.00	\$0.00
Contractor (Political Subdivision) Salaries and Wages ²	category did not previously exist	\$0.00	\$0.00
Subcontract Services	\$219,814.00	\$1,110,131.00	\$890,317.00
Voting Planning Member Travel ³	\$4,000.00	\$4,000.00	\$0.00
Contractor (Political Subdivision) Travel ⁴	\$0.00	\$0.00	\$0.00
Total Project Cost	\$228,814.00	\$1,119,131.00	\$890,317.00

		Total
TASK	DESCRIPTION	Amount
	Evaluation and Recommendation of Water Management Strategies and	
Task 5B	Projects	\$219,260.00
Task 5C	Conservation Recommendations	\$20,534.00
	Impacts of the Regional Water Plan and Consistency with Protection of	
Task 6	Resources	\$29,445.00
Task 7	Drought Response Information, Activities, and Recommendations	\$70,386.00
Task 9	Implementation and Comparison to the Previous Regional Water Plan	\$7,342.00
Task 10	Public Participation and Plan Adoption*	\$136,394.00
	TOTAL ENGINEER BUDGET	\$483,361.00

 Regional Water Planning Group (RWPG) to Authorize the City of Nacogdoches to Negotiate and Execute <u>Amendment #2 to Technical Consultant Team</u> (<u>Plummer</u>) for \$483,361.00 to Match Current Total Project Costs and Committed Funds for the 2026 Region I Regional Water Plan (RWP)



b. TWDB/Region I Amendment #2

EXPENSE BUDGET CATEGORY	BUDGET	REVISED BUDGET	AMOUNT CHANGED
Contractor (Political Subdivision) Other Expenses ¹	\$5,000.00	\$5,000.00	\$0.00
Contractor (Political Subdivision) Salaries and Wages ²	\$0.00	\$60,000.00	<mark>\$60,000.00</mark>
Subcontract Services	\$1,110,131.00	\$1,277,611.00	\$167,480.00
Voting Planning Member Travel ³	\$4,000.00	\$4,000.00	\$0.00
Contractor (Political Subdivision) Travel ⁴	\$0.00	\$0.00	\$0.00
Total Project Cost	\$1,119,131.00	\$1,346,611.00	\$227,480.00



b. TWDB/Region I Amendment #2

 RWPG to Authorize the City of Nacogdoches to Negotiate and Execute an <u>Amendment #2 to the</u> <u>TWDB Contract for \$227,480.00</u> to Increase the Total Project Cost and Committed Funds for the 2026 Region I Regional Water Plan



EXPENSE BUDGET CATEGORY	BUDGET	REVISED BUDGET	AMOUNT CHANGED
Contractor (Political Subdivision) Other Expenses ¹	\$5,000.00	\$5,000.00	\$0.00
Contractor (Political Subdivision) Salaries and Wages ²	\$0.00	\$60,000.00	<mark>\$60,000.00</mark>
Subcontract Services	\$1,110,131.00	\$1,277,611.00	\$167,480.00
Voting Planning Member Travel ³	\$4,000.00	\$4,000.00	\$0.00
Contractor (Political Subdivision) Travel ⁴	\$0.00	\$0.00	\$0.00
Total Project Cost	\$1,119,131.00	\$1,346,611.00	\$227,480.00



 RWPG to Authorize the City of Nacogdoches to Negotiate and Execute <u>Amendment #3 to Technical</u> <u>Consultant Team (Plummer) for \$167,480.00</u> to Increase the Total Project Cost



d. Personnel Eligible Listing

 RWPG to Approve the <u>City of Nacogdoches Personnel</u> <u>Eligible Listing (PEL)</u> for Political Subdivision Salaries and Wages



Item 11

Action for consideration and adoption of updates to the Bylaws



Agenda Item No. 12

Report from Consultant Team









Today's Discussion

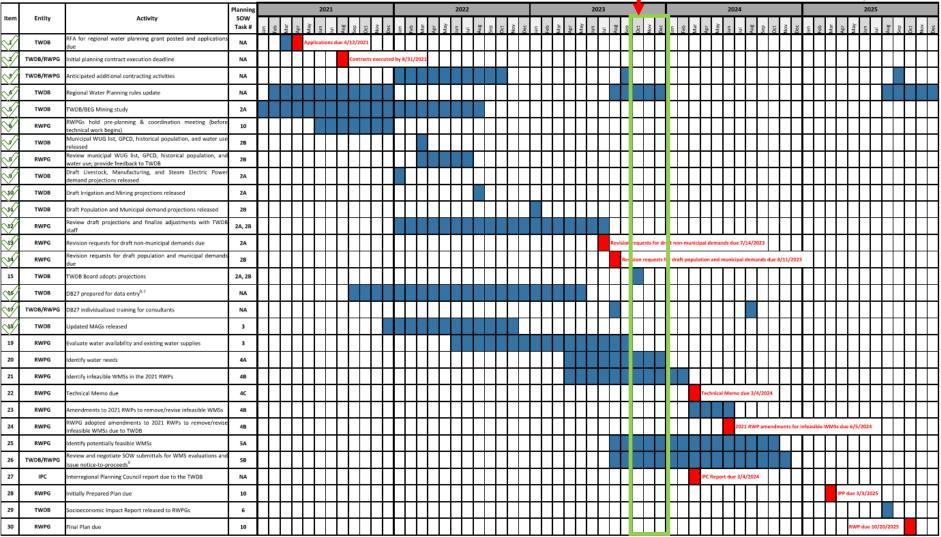
- a) Overview of Project Schedule
- b) Major Water Providers (ACTION)
- c) Infeasible Water Strategy Methodologies, Results, and Recommendations (ACTION)
- d) Hydrological Variance Request for Surface Water Supplies to the TWDB (ACTION)
- e) Water Management Strategy Evaluation Methodology (ACTION)
- f) Notice to Proceed on Task 5B (ACTION)
- g) Technical Memorandum Outline
- h) Next Meeting Agenda



Schedule

Sixth Cycle of Regional Water Planning (2026 Regional Water Plans) Working Schedule (as of March 2023) $^{\Lambda}$

Chequie Texas Water Development Board



Notes: A Estimated timeline based on currently available agency resources and subject to change



⁸ DB27 is the updated, online water planning database for the 2027 State Water Plan

^G Anticipated database availability dates are estimates based on currently available agency resources

D Subject to available funding

2026 Plan Short-Term Schedule

Date	Schedules Events/Tasks
Oct 2023	TWDB Board adopts projections
Oct – Dec 2023	Obtain the Notice to Proceed on Task 5B Continue to evaluate water availability/existing water supplies and identify any water needs Identify Water Management Strategies, including reuse, conservation, and other water projects Draft and Review Draft Infeasible WMSs and WMSPs Submit the Hydrological Variance Request to TWDB
Oct – March 2024	Prepare the technical memorandum outline and draft the memorandum
Dec 2023 – Feb 2024	RWPG Meeting(s)
Jan – June 2024	TWDB Board adopts identified WMSs and WMSPs as infeasible

Abbreviations:

RWPG = Regional Water Planning Group TWDB = Texas Water Development Board WMSs = Water Management Strategies WMSPs = Water Management Strategy Projects



Major Water Providers



Definition of Major Water Provider

- Definition from last round of planning:
 - Recommend for Major Water Providers to provide more than 5,000 acre-feet per year
 - Non-Aggregated Group
 - Owns their own groundwater wells or has direct surface water rights

Per the Texas Administrative Code (31 TAC §357.10(19) Major Water Providers are defined as: "A WUG or WWP of particular significance to the region's water supply as determined by the regional water planning group. This may include public or private entities that provide water for any water use category."



List of Major Water Providers

- Angelina & Neches River Authority
- Angelina Nacogdoches WCID #1
- City of Center
- Houston County WCID #1
- City of Jacksonville
- City of Lufkin
- City of Nacogdoches
- City of Tyler

- Athens MWA
- City of Beaumont
- City of Carthage
- Lower Neches Valley Authority
- Panola County FWSD #1
- City of Port Arthur
- Sabine River Authority
- Upper Neches River Municipal Water Authority

Abbreviations:

Item 12b

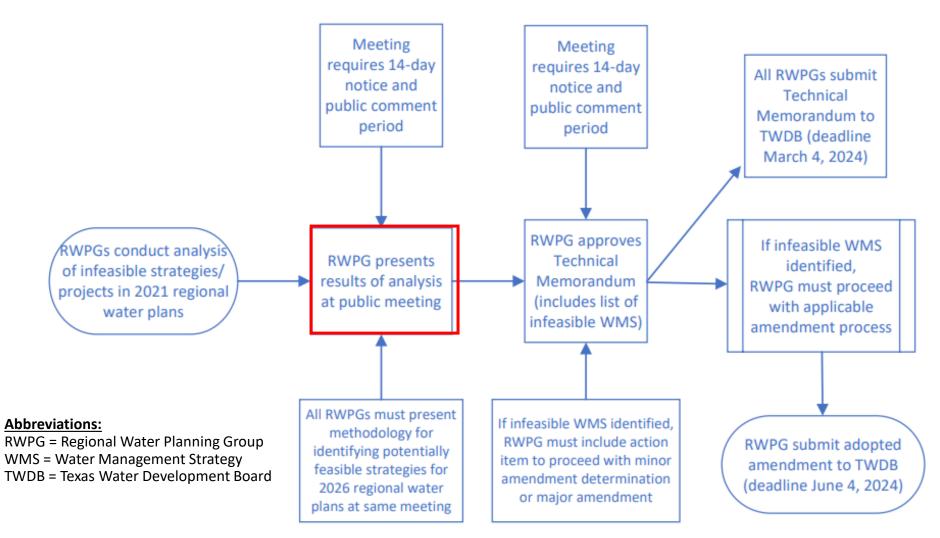
 Discussion and Approval of the Definition and List of Major Water Providers



Infeasible Water Strategy Methodologies, Results, and Recommendation



Process to Identify Infeasible Water Management Strategies



New Requirements on Infeasible WMSs

- Task 4B: Identification of infeasible WMSs in the 2021 RWP
 - Required by Senate Bill (SB) 1511, 86th Texas Legislature
 - Methodology and Results presented at public meeting
 - Analysis and list to be included in the Technical Memorandum (Due March 4, 2024), the IPP, and Final RWP



Step 1: Review of 2021 RWP WMSs and Projects

- Focus on reviewing 2021 Plan's strategies and projects that require a permit and/or involve construction and that:
 - are shown to be online by the 2020 (no later than January 5, 2023),
 - are near-term and have lengthy permitting/construction:
 - ✓ new major reservoirs,
 - ✓ seawater desalination,
 - ✓ direct potable reuse,
 - ✓ brackish groundwater,
 - ✓ aquifer storage and recovery, and
 - ✓ out of state water transfers;
 - Generally required for implementation either:
 - ✓ significant resources;
 - ✓ significant time.



Step 2: Screening Process

1. Does the strategy require construction or permitting?

Is it recommended to be online in 2020?

Is there an identifiable sponsor (e.g., needs identified for livestock has no sponsor)

Is the WMS a major project type (e.g., reservoir)?

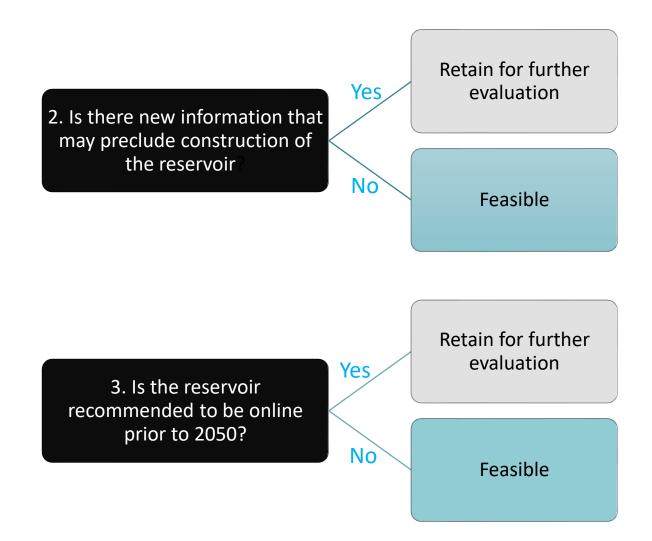


Retain for further evaluation

KEY POINT: Initial screening eliminates all conservation strategies, strategies for self-supplied aggregated WUGs, and infrastructure projects that are recommended to be online in 2040 or later.



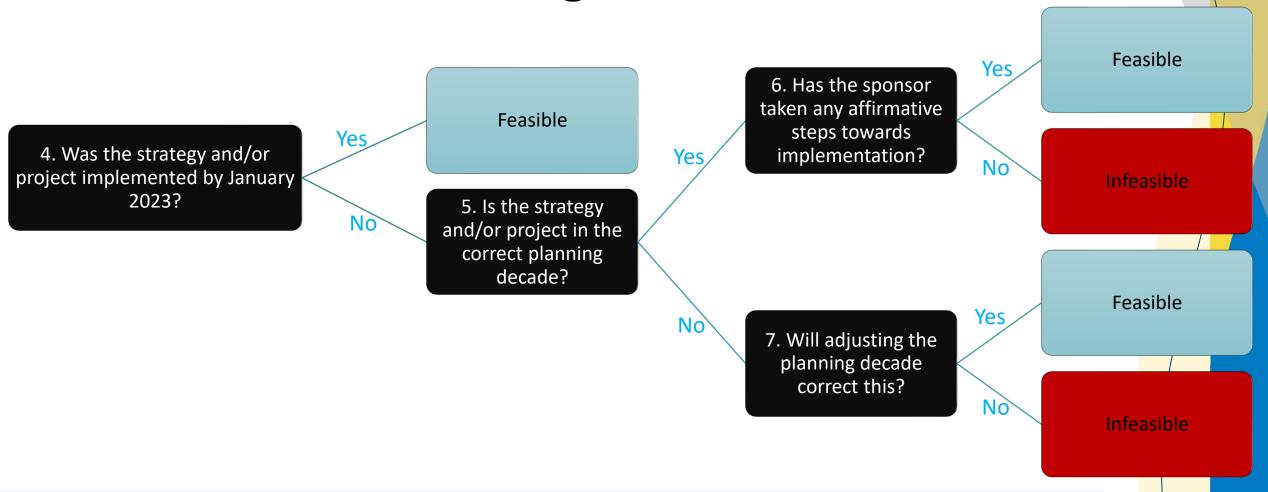
Screening Process Cont.



KEY POINT: Permitting for new reservoirs are expected to take between 10 and 20 years, and construction between 4 and 8 years. Therefore, no activity is required for projects recommended after 2040.



Screening Process Cont.



KEY POINT:

- Question 4 only applies to strategies retained after initial screening and recommended to be online in 2020.
- Affirmative steps by the sponsor may include but are not limited to:
 - > Spending money on the strategy or project
 - Voting to spend money on the strategy or project
 - > Applying for a federal or a state permit for the strategy of project



Step 3: Screening Results

1	TWDB Identified 2021 WMS Projects	11 Conservation projects (screened out) 1 Non-municipal project (screened out) 5 projects with online decade after 2020 (screened out) 3 projects need to be reviewed for infeasibility
2	Select Projects Online After 2020 (Major Reservoir)	1 project needs to be evaluated
3	Source: Related WMS Supply	5 Non-municipal projects (screened out) 4 projects need to be reviewed for infeasibility

Abbreviations:

TWDB = Texas Water Development Board WMS = Water Management Strategy



Step 4: Contact Sponsors of the Identified Infeasible WMSs and WMSPs

S.N.	Project/Strategy	Sponsor
1	AMWA Athens Fish Hatchery Reuse	Athens Municipal Water Authority
2	Neches Run-of-River with Lake Palestine	Upper Neches River Municipal Water Authority
3	Beaumont West Regional Reservoir	Lower Neches Valley Authority
4	Purchase from Center	Sand Hills WSC
5	Lake Columbia	Angelina and Neches River Authority
6	ANRA-Run-of-River (Submitted Application)	Angelina & Neches River Authority
7	HCWC Permit Amendment	Houston County WCID 1

Abbreviations:

AMWA = Athens Municipal Water Authority ANRA = Angelina & Neches River Authority HCWC = Houston County Water Control WSC = Water Supply Corporation WCID = Water Control & Improvement District



Item 12c

 Discussion and Possible Action on Infeasible Water Strategy Methodologies, Results, and Recommendations and Receive Public Comment



Requirements on Infeasible WMSs if Identified

- If infeasible WMSs identified, amend 2021 plans to:
 - Remove infeasible WMS or WMSP,
 - Revise infeasible WMS or WMSP to make feasible, and/or
 - Incorporate new WMS or WMSP
- RWPG-adopted amendments due June 4, 2024



Amendment Type

- Three Types of Amendments:
 - Alternative Strategy
 - Minor Amendment
 - Major Amendment
- Intend to utilize the first two types if possible.



Hydrological Variance Request



Surface Water in Regional Water Planning

- TWDB requires the use of the Texas Commission on Environmental Quality (TCEQ) Water Availability Model (WAM) Run 3 (Full Appropriation)
 - Assumes first in right is first in time
 - All water rights are fully used
- To make adjustments, need to request a hydrologic variance from the TWDB



Consulting Team Recommended Hydrologic Variances

- Neches-Trinity Coastal Basin
 - Adopt the current WAM run by TCEQ

- Trinity Basin
 - Adopt the updated Trinity WAM run by Region C



Consulting Team Recommended Hydrologic Variances

- Sabine Basin
 - Adopt updated Sabine WAM run by Region I

- Neches Basin
 - Adopt updated Sabine WAM run by Region I



Item 12d

 Discussion and Approval of the Hydrological Variance Request for Surface Water Supplies to the TWDB

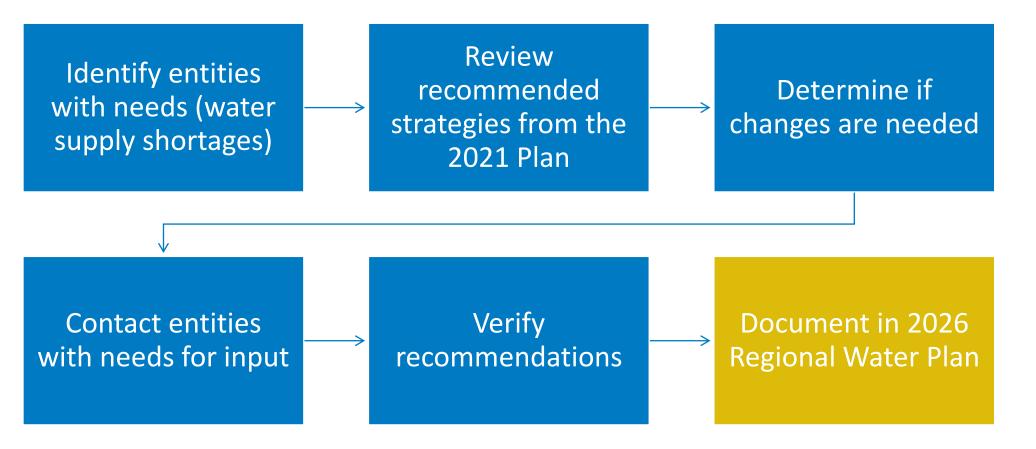




- 31 TAC 357.12(b) states that the RWPG must:
 - Hold a public meeting to receive input on its process; and
 - Document the process

2026 Plan process will be very similar to the process used in the 2021 Plan









Conservation, Drought Management



Reuse



Transfer of existing supply



Expanded use of existing supply



New supply development



Other types identified in guidance

Other potential types of strategies listed in guidance:

- Brush control
- Precipitation enhancement
- Cancellation of water rights
- Rainwater harvesting

Not likely considered in the East Texas Regional Water Planning Area (ETRWPA) 2026 Plan



Strategies must:

- Have an identifiable sponsor or authority
- Consider end use
- Have a firm supply during the drought-of-record to provide a reasonable percentage of projected need
- Meet existing regulations
- Use proven technology
- Be implementable
- Be appropriate for regional planning



ETRWPG evaluation process will:

- Utilize current TCEQ-approved WAM for new surface water appropriations
 - ✓ Consideration of environmental flows
- Utilize approved modeled available groundwater (MAG) and desired future condition (DFC) for specific aquifers
- Provide equitable & consistent comparison between strategies
- Prepare quantitative reporting for each WMS
 - ✓ Quantity, cost, and reliability



ETRWPG evaluation process will consider:

- Impacts on water resources
- Impacts/threats to agricultural or natural resources
- Interbasin transfers
- Third-party social and economic impacts from voluntary redistributions of water
- Impacts on key water quality parameters
- Existing pipelines and other conveyance infrastructure
- Other relevant issues, as necessary



Item 12e

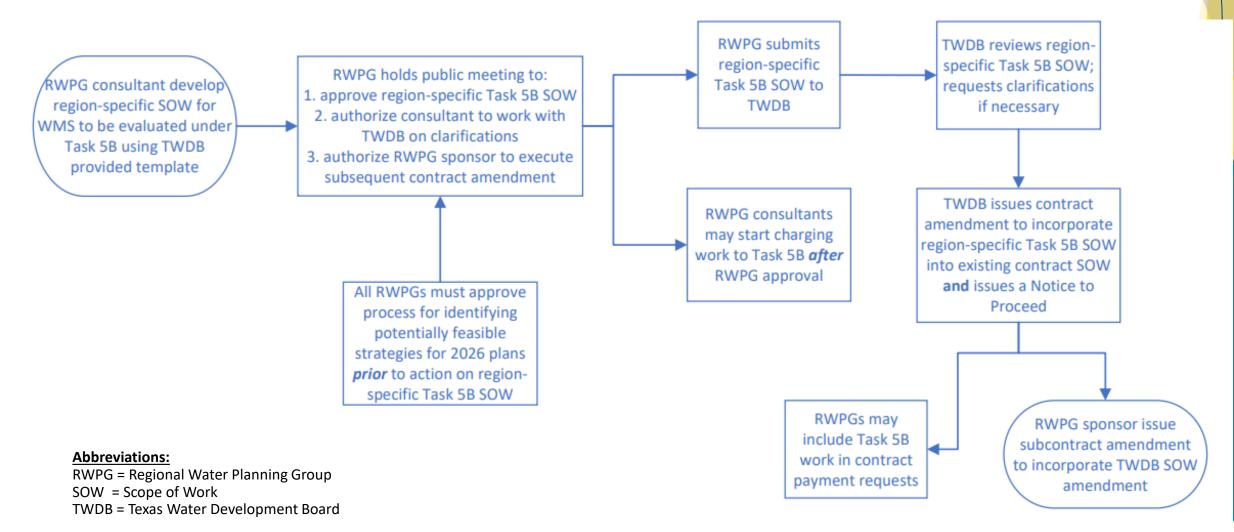
 Discussion and Approval Process to Identify and Evaluate Water Management Strategies and Receive Public Comment



Notice to Proceed on Task 5B



Task 5B Notice-to-proceed Request



List of WMS Categories

- Water Conservation Strategies
- Indirect, Non-Potable Reuse Strategies
- New Major Reservoir (Lake Columbia)
- Surface Water Diversion
- Surface Water Yield Enhancement
- Other WMS (Documentation and Database Entry DB27)



Item 12f

 Discussion and Approval for Consulting Team to Submit a Notice-to-Proceed Request on Task 5B



Look Ahead



Technical Memorandum (3/4/24)

- TWDB DB27 data reports
 - Population, Demand, Source Availability, Existing Water Supply, Needs/Surplus, Data Comparison to 2021 RWP, Source Data Comparison to 2021 RWP
- Process used identify potentially feasible WMSs
- List of potentially feasible WMSs to date
- Any hydrologic variance requests to date
 - For approved TCEQ WAM modifications or alternative surface water models, reallocated annual MAG volumes, or use of MAG Peak Factors, a table must be included showing the original unmodified firm yield or MAG value along with the alternative availability utilized as the basis for planning
- Methodology for calculating the anticipated sedimentation rate and revising the area-capacity rating curve
- Table of details of hydrologic models used
 - model name, version date, model input/output files used, date model used, and any relevant comments
- Documentation of methodologies for groundwater availabilities to date
 - table providing the aquifer, county, and methodology description
- Region's interregional coordination efforts to date
- List of infeasible WMSs and WMSPs from the region's 2021 RWP
- Electronic model files used in determining water availability

Next Meeting(s)

- Discussion of 2 meetings
- Approval of Technical Memorandum (due March 4, 2024)



Item 13 Reports from other state agencies

- a) Texas Water Development Board Lann Bookout
- b) Texas Department of Parks & Wildlife Stephen Lange
- c) Texas Department of Agriculture Manual Martinez
- d) Texas Soil and Water Conservation Board Trey Watson
- e) Groundwater Management Areas John Martin/John McFarland



Item 14

General Discussion



Item 15

Next Meeting Date(s)

Questions?



Brigit Buff, PE bbuff@plummer.com 972.533.2499

