



SCOPE OF WORK COMMITTEE MEETING

10:00 A.M. – January 9, 2024

BRAZOS RIVER AUTHORITY

4600 COBBS DR., WACO, TX 76710



- 1. CALL MEETING TO ORDER**
- 2. INVOCATION**
- 3. NOTICE OF MEETING**
- 4. ATTENDANCE AND ANNOUNCEMENTS**
- 5. PUBLIC INPUT** (limited to 5 minutes each)

Brazos G

Scope of Work Committee



WACO, TX JAN 9, 2024

Timeline

SOW Committee, Actions Requested:

- Recommend list of infeasible 2021 strategies
- Recommend process for identifying feasible strategies
- Recommend list of identified feasible strategies to date
- Recommend Task 5B SOW/Budget

Consultant
Submittal of
Material for
RWPG's
Review

Brazos G Meeting, Actions Requested:

- Approve list of WWP/MWPs
- Approve modifications to GW availability
- ✓ Adopt process for identifying potentially feasible strategies
- ✓ Approve list of potentially feasible strategies
- ✓ Approve list of identified infeasible 2021 strategies
- Consider snapshot of availabilities and identified needs
- Approve submittal of Technical Memorandum
- Initiate Major Amendment / Approve holding public hearing
- ✓ Approve Task 5B SOW/Budget

Required
Submittal of
Technical
Memorandum

Jan 9, 2024

January 29,
2024

← 14-day
Notice Feb 13, 2024

March 4,
2024

Feasible and Infeasible Water Management Strategies

- Statutory and Rule Requirements
 - TWC §16.053(h)(10) and 31 TAC §357.12 (b)



Looking Forward

- RWPG shall:

- Hold a public meeting to determine the process for identifying potentially feasible WMSs;
 - Process shall be documented, and
 - Shall include input received at the public meeting;
- After reviewing the potentially feasible strategies using the documented process, the RWPG shall list all possible WMSs that are potentially feasible for meeting a water need in the region.

- The public meeting shall also include a presentation of the results of the analysis of infeasible WMSs or WMSPs, as defined by Texas Water Code §16.053(h)(10), included in the most recently adopted RWP.
 - Include list of Infeasible WMSs and WMSPs in Technical Memorandum
 - Infeasible WMSs or WMSPs shall be identified based on:
 - Project sponsor provided information
 - Local knowledge, as acquired through plan development activities such as surveys, and as determined based on implementation schedules consistent with implementation by the project sponsors.
- The group shall provide notice to all associated project sponsors and amend its adopted RWP as appropriate based upon the analysis.



Looking Back

Today's Items Build Upon Information at Scope of Work Committee Meetings on Oct. 10 and Nov. 15, 2023

6. Infeasible 2021 WMSs

- Discussion on Process
- Recommended List

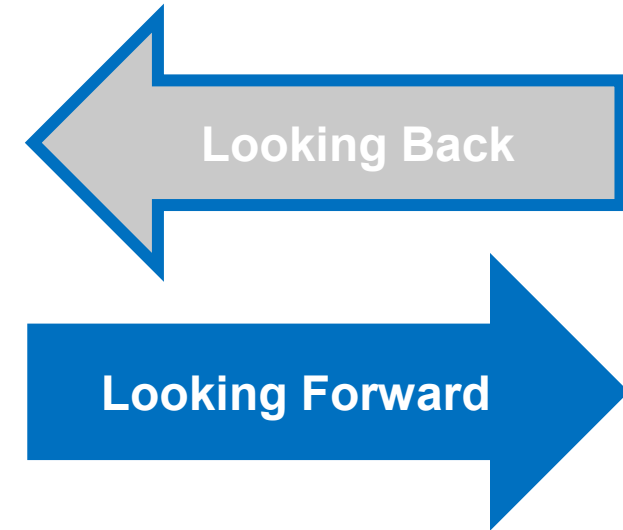
7. 2026 Process for Identifying Feasible WMS

- Recommended Process for 2026 Plan

8. Recommended List of Identified Potentially Feasible WMS

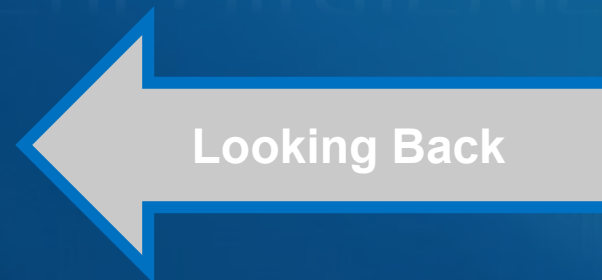
- Uses recommended 2026 Process

9. Recommended Task 5B Scope/Budget Submittal



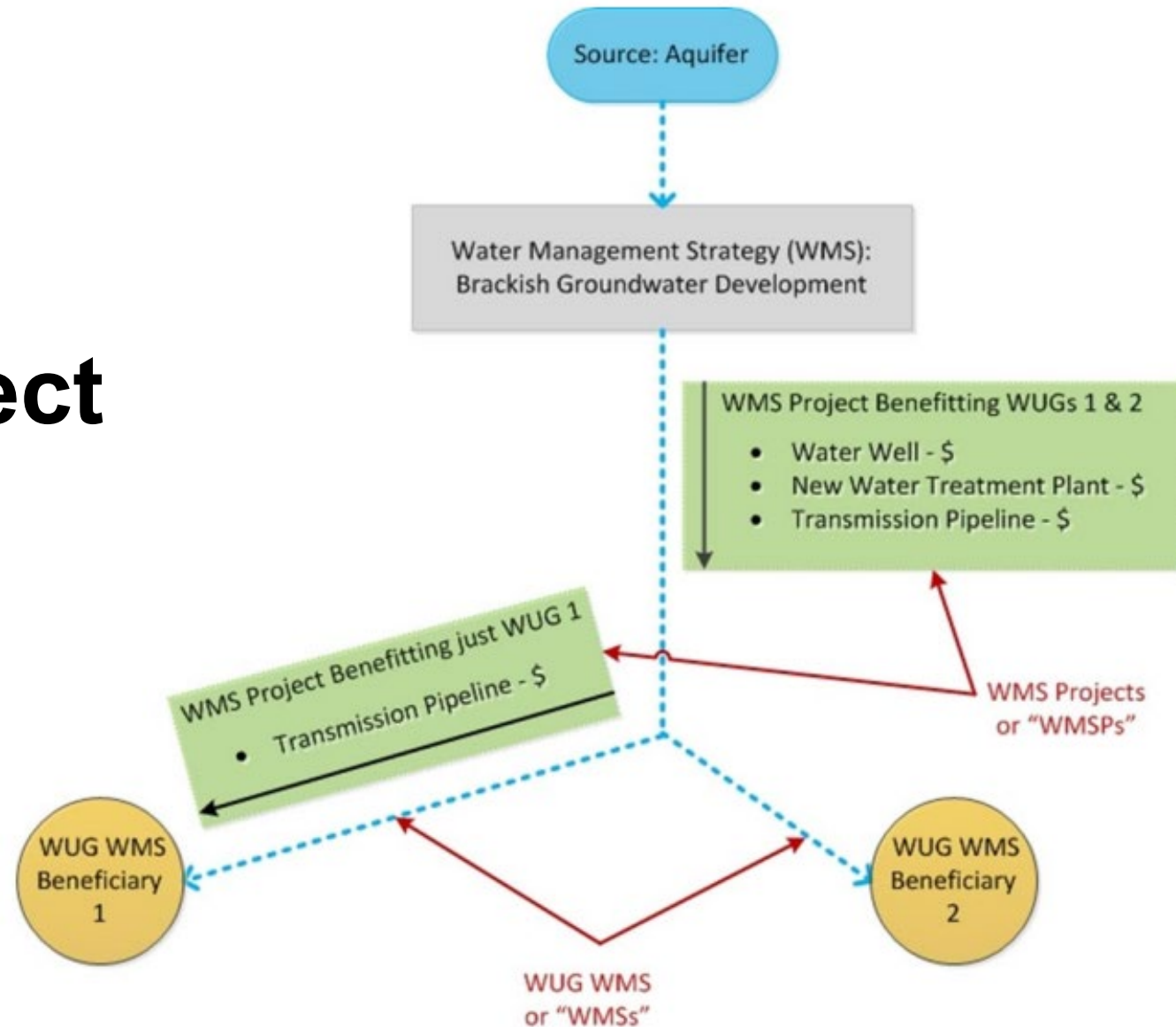
Item 6

Discussion and possible action on a recommended list of identified Infeasible Water Management Strategies from the 2021 Brazos G Plan



Water Management Strategy Structure

WMS & WMS Project



“[A] water management strategy or project **is considered infeasible if** the proposed **sponsor** of the water management strategy or project **has not taken an affirmative vote or other action to make expenditures necessary to construct or file applications for permits required** in connection with the **implementation** of the water management strategy or project under federal or state law **on a schedule that is consistent with the completion of the implementation** of the water management strategy or project **by the time the water management strategy or project is projected** by the regional water plan or the state water plan **to be needed**.

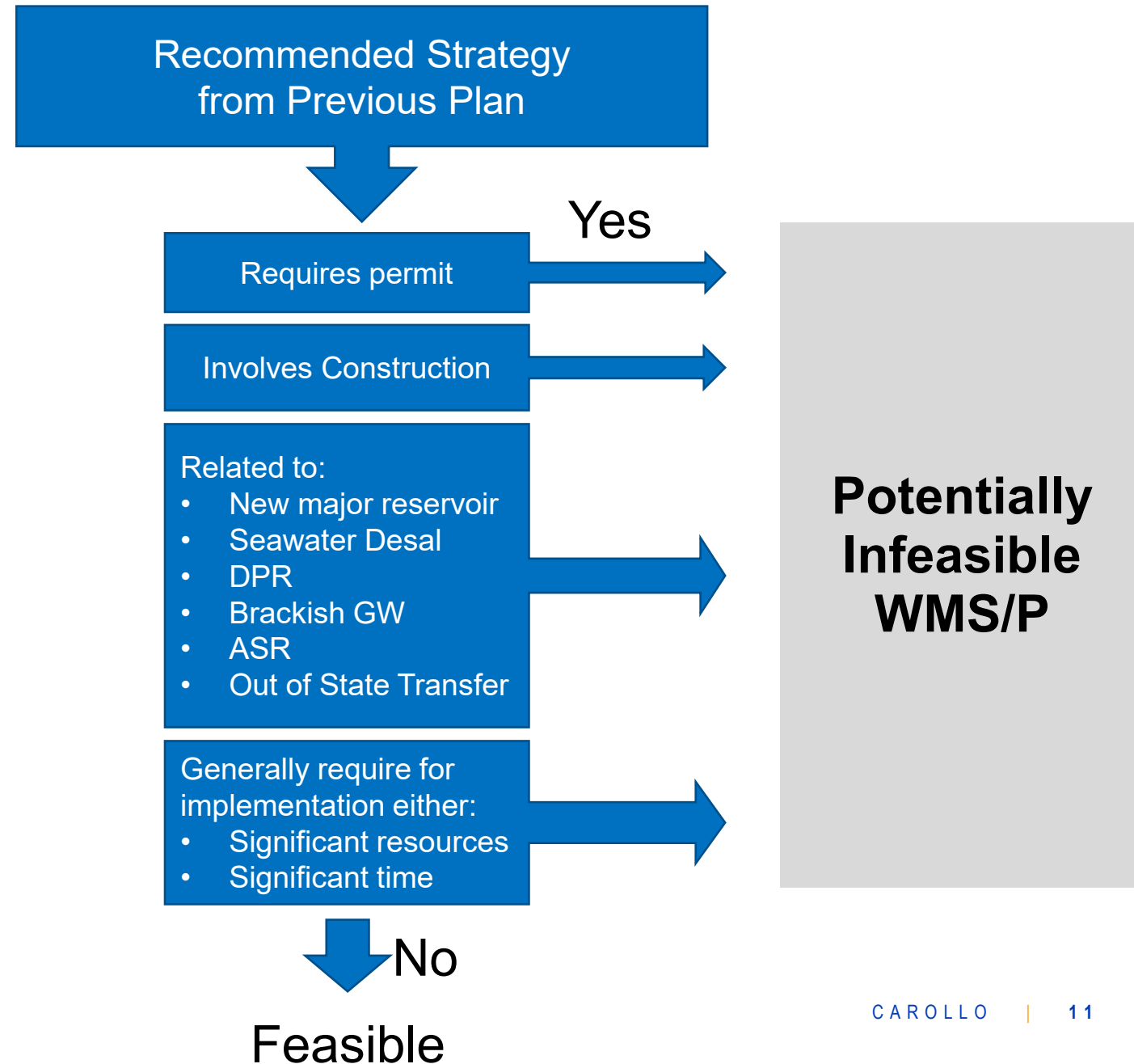
- **TWC §16.053(h)(10)**

Infeasible Strategies

- Amend the previous RWP to modify and/or remove any infeasible WMS or WMSP in accordance with existing amendment procedures
- If applicable or required, identify and evaluate new WMSs or WMSPs that would be needed to meet need that had been met by infeasible WMS/WMSP
- Previous RWP may be amended to:
 - Remove infeasible WMS/WMSP
 - Revise infeasible WMS/WMSP to make it feasible
 - Incorporate a new WMS/WMSP to address the identified need.
- RWPG must submit the adopted amendments associated with this task to TWDB no later than three (3) months following March 4, 2024 (i.e., June 4, 2024).

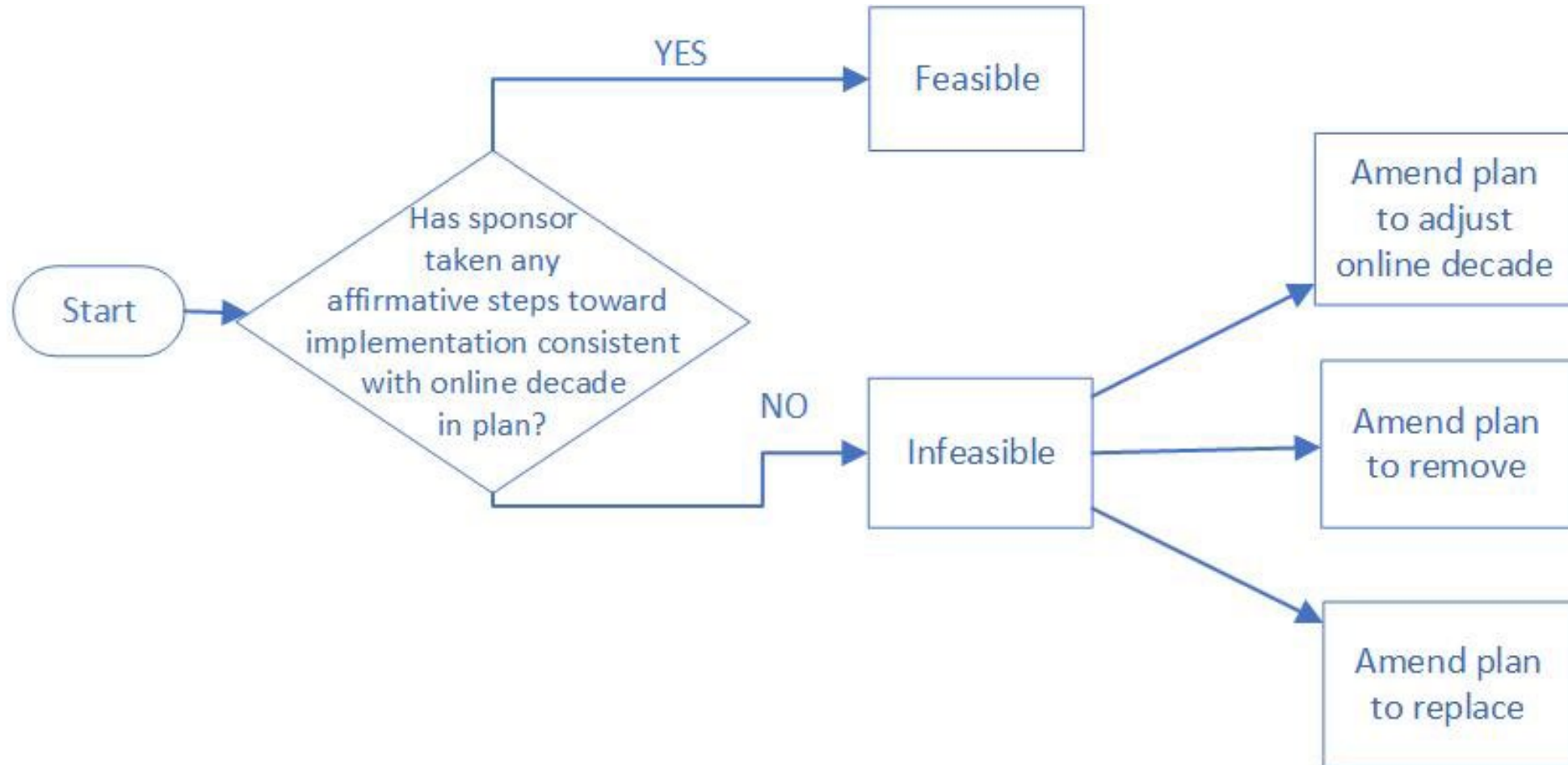
Infeasibility Process

Step 1: Identification of Potentially Infeasible WMS



Infeasibility Process (cont'd)

Apply the following steps to each identified, potentially infeasible WMS/WMSP:



Affirmative Steps

- Spending money on the strategy or project
- Voting to spend money on the strategy or project
- Applying for a federal or state permit for the strategy or project

Unmet Needs

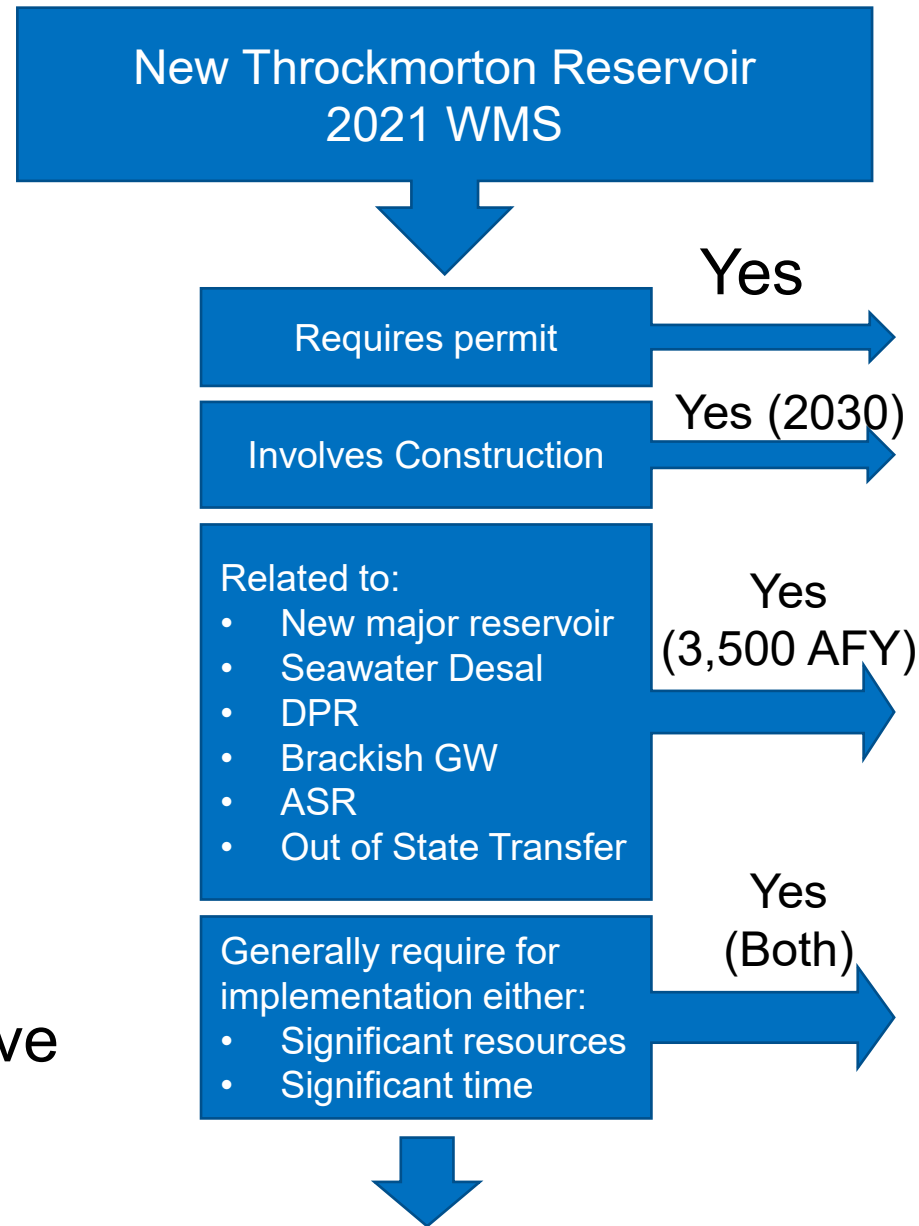
- Needs would typically only be unmet should a drought of severity equivalent to the drought of record occur prior to strategies scheduled to be in place.

Walkthrough of Infeasibility Process with New Throckmorton Reservoir WMS

Step 1: Identification of Potentially Infeasible WMS

Per 2021 RWP:

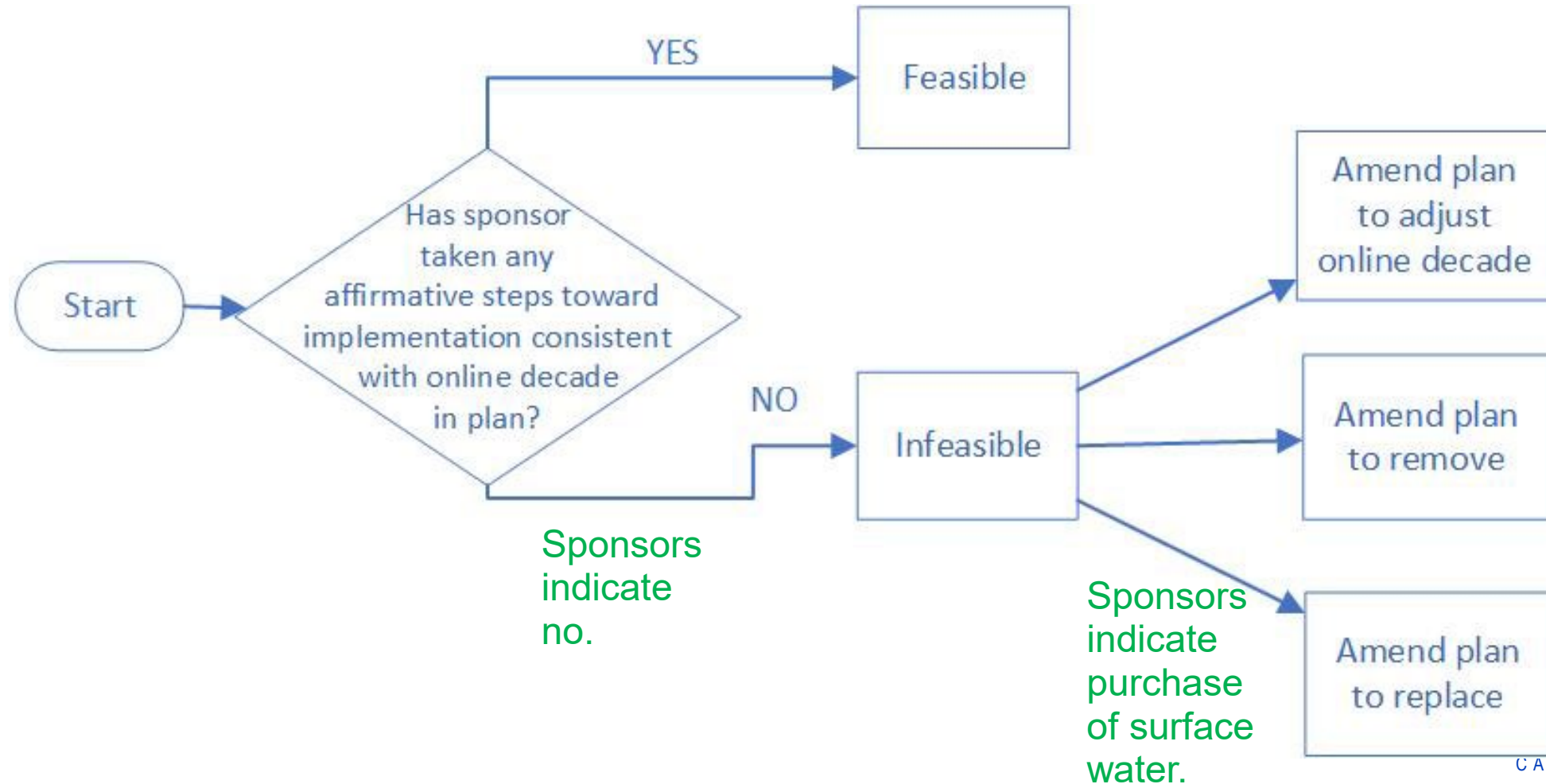
- City of Graham to receive 1,500 AF/YR starting in 2030
- City of Throckmorton to receive 2,000 AF/YR starting in 2030



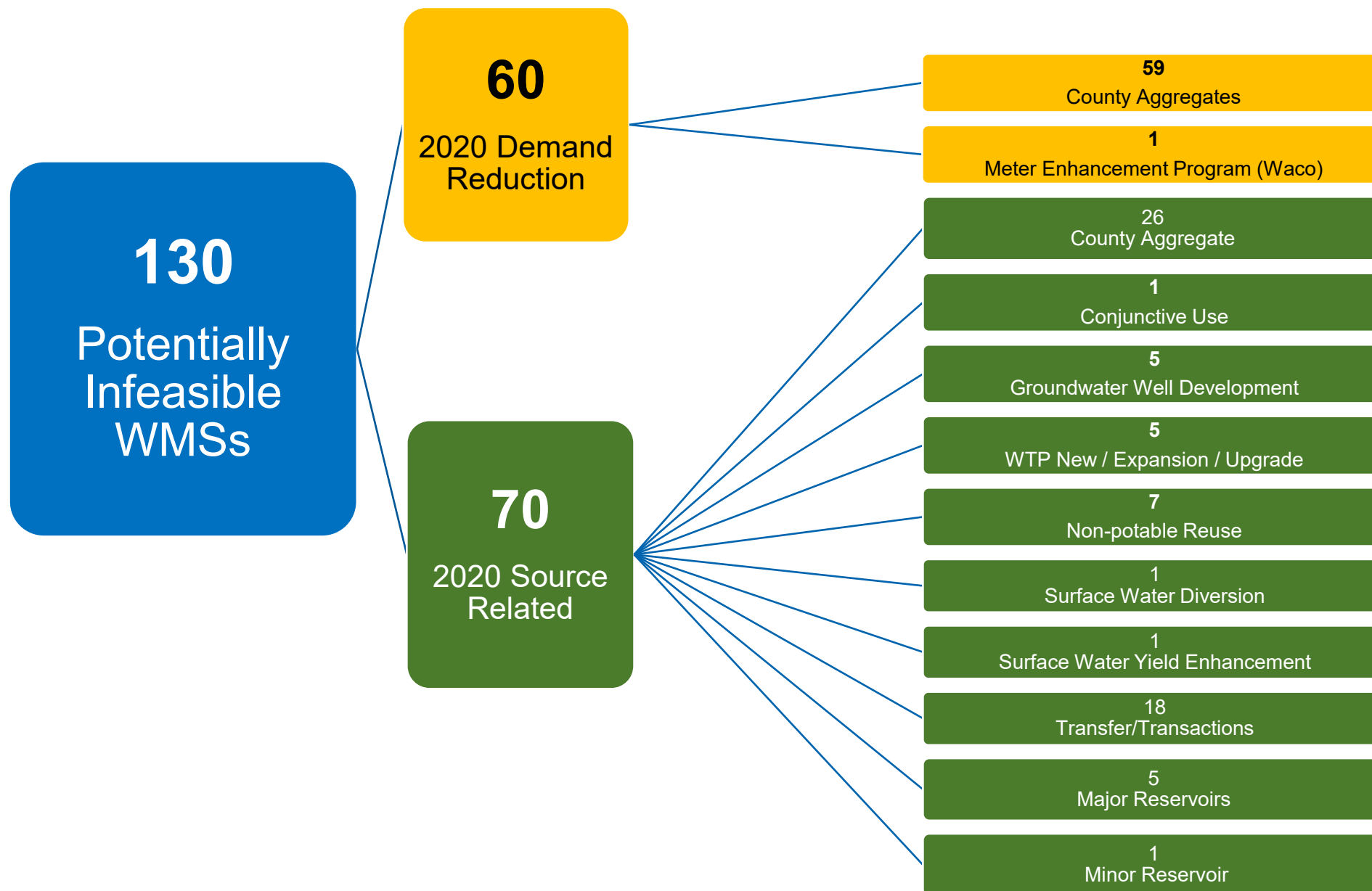
Potentially Infeasible WMS/P

Infeasibility Process (cont'd)

Apply the following steps to each identified, potentially infeasible WMS/WMSP:



Summary of Potential Infeasible WMS



Number Identified as Infeasible	WUG
0	-
0	-
0	-
0	-
2	Godley, JC SUD, Highland Park WSC
1	Jayton
0	-
0	-
0	-
0	-
3	Abilene, NCTMWA, Graham/Throckmorton
1	Multi-County WSC

Type	Project	Sponsor	Online	Status
Groundwater	Trinity Aquifer Development	City of Godley	2020	Per Mr. Kevin Fregia (Dir. Pub. Works) – no affirmative steps, but plan would continue to be to construct in next 5 years if necessary. Recommend identify strategy as infeasible, defer to 2030 with unmet 2020 need.
	Trinity Aquifer Development	Johnson County SUD	2020	Sponsor (per Mr. Tyler Lyles, Water Operations Mgr.) indicates strategy no longer feasible, recently increased surface water agreement with City of Mansfield and negotiating revised contract with Brazos Regional PUA, per provided 2022 Water System Master Plan. Recommend identify strategy as infeasible and revise strategy to implemented SW strategy for purchase from Mansfield.
	Trinity Aquifer Development	Highland Park WSC	2020	Per Mr. David Posten (Operator and Dist. System Admin), no affirmative steps taken, but intends to implement when needed. Recommend identify strategy as infeasible, defer to 2030 with unmet 2020 need.
WTP	Jayton WTP New	Jayton	2020	Per Ms. Michelle Fager, (City Sec), project shortages due to TCEQ treatment constraint are no longer applicable, thus no shortage exists and WMS no longer necessary. Recommend identify strategy as infeasible, remove strategy and revise supply from 0 to groundwater well annual production capacity, as sufficient MAG is available.

Type	Project	Sponsor	Online	Status
Major Reservoir	Cedar Ridge Reservoir	Abilene	2030	<p>Sponsor (per Mr. Rodney Taylor, City of Abilene, Director of Water Utilities) has taken affirmative steps. The City has submitted a surface water right permit application to the TCEQ and a permit application to the USACE. Each application remains active within its respective agency. The sponsor requests the online decade be changed to 2040.</p>
				<p>Recommend identifying WMS and associated WMSP as infeasible and moving online decade to 2040.</p>
				<p>Recommend identifying Sweetwater WMSP “Interconnect from Abilene to Sweetwater” as infeasible and moving online decade to 2040. This will affect two secondary customers to the City of Sweetwater.</p>
				<p>Recommend amending the recommended strategy for the City of Roscoe for purchase of 88 ac-ft/yr of supply in 2030 to 50 ac-ft/yr of supply from the City of Sweetwater, leaving an unmet municipal need in only the 2030 decade of 38 ac-ft/yr for the City of Roscoe.</p>
<p>Recommend amending the recommended strategy for Nolan County Mining, delaying the onset of the purchase of additional supply from Sweetwater until 2040, leaving unmet mining needs in 2030 of 71 ac-ft/yr and in 2040 of 64 ac-ft/yr.</p>				
Major Reservoir	Lake Creek Reservoir	NCTMWA	2030	<p>While sponsor has taken affirmative steps, with approx. \$500k expended to date on research/feasibility of project, no applications have been filed.</p>
				<p>Recommend identifying WMS and associated WMSP as infeasible and moving online decade to 2040.</p>
<p>This will extend unmet needs to 2030 for the City of Haskell (473 ac-ft/yr), Knox City (214 ac-ft/yr), and Munday (229 ac-ft/yr).</p>				

Type	Project	Sponsor	Online	Status
Major Reservoir	Brushy Creek Reservoir	Marlin	2040	Recommend strategy remain feasible. Sponsor (per Mr. Scott Fornash, Public Works Director) has taken affirmative steps, state permit acquired and is continuing to renew permit, land acquisition for entire footprint complete. Continuing discussions with NRCS to update studies. Sponsor requests WMS and associated WMSP remain feasible at present online decade of 2040.
	New Throckmorton Reservoir	Graham and Throckmorton	2030	No affirmative steps taken by sponsors (per Mr. Jimmy Collins, Public Works Director, City of Throckmorton). City of Throckmorton would plan to use existing water from lakes and/or increase contracted amount with the City of Graham. City of Graham (per Mr. Randall Dawson, Public Works Director) indicates no new reservoir project planned.
				Recommend identifying WMS and associated WMSP as infeasible and moving online decade to 2050.
				This will result in extending unmet needs to 2030 and 2040 for the City of Throckmorton (127 ac-ft/yr to 121 ac-ft/yr).
This will result in extending unmet needs to 2030 and 2040 for the City of Graham (1,351 ac-ft/yr to 1,306 ac-ft/yr).				

Type	Project	Sponsor	Online	Status
Minor Reservoir	Multi-County WSC	Coryell County OCR	2030	<p>Sponsor (per Ms. Kate Timmons, Office Manager, Multi-County Water Supply Corporation) has not taken affirmative steps. No action has been taken to date except an agreement to be the representative of the project if it comes to fruition in the future. The WSC believes the project online decade would be 2050 or later. Discussion with City of Gatesville (per Mr. Scott Albert, GM) indicates strategy is still under consideration, although no affirmative steps have been taken, and not opposed to delaying strategy until 2050.</p> <p>Per 2021 Brazos G Plan "For the project to be economically feasible, an agreement with the Brazos River Authority (BRA) would be required to subordinate Lake Belton water rights to diversions from Cowhouse Creek for impoundment in the OCR. Without subordination, the unappropriated flows in Cowhouse Creek are not sufficient to maintain adequate water levels in the OCR. Currently, BRA indicates that no subordination agreement is likely to be possible."</p> <p>Recommend identifying WMS and associated WMSP as infeasible and moving online decade to 2050.</p> <p>This will result in unmet municipal needs for Flat WSC (2030 - 1 ac-ft/yr and 2040 - 3 ac-ft/yr),</p> <p>This will result in unmet municipal needs the City of Gatesville (2030 - 280 ac-ft/yr and 2040 - 543 ac-ft/yr). The 2021 Brazos G Plan already has an unmet municipal need in 2020 for the City of Gatesville of 1,041 ac-ft/yr.</p>

Expectations Regarding Potential Amendment of 2021 Plan

Pending Committee Approval

- Provide recommended list for RWPG approval
- Incorporate any revisions identified by RWPG
- Include list of identified infeasible WMS and WMSPs in required TWDB spreadsheet format

Address previously identified corrections:

- Correct capital cost for Williamson County groundwater WMS
- Correct typo on “Trinity Aquifer Development WMS - Palo Pinto County Irrigation”

Timing

- Possible March and May hearings/meetings
- Meet all notice, review, and comment period requirements
- Before June 4, 2024 deadline.

Action Requested

Action

- Authorize the technical consultant to submit on behalf of the Scope of Work Committee the recommendations on identified infeasible strategies for the Brazos G RWPG's consideration and possible action at its February 13, 2024, meeting, consistent with the information discussed in this committee meeting, and approve for the consultant to work with the Chair to submit further revisions and make responses to revision requests by the RWPG and TWDB by the March 4, 2024, deadline.

Submittal due March 4, 2024.

- Targeting late-February, with note that any additional submittal (if any input received from TWDB) would be before March 4, 2024 deadline.

Item 7

Discussion and possible action on a recommended process for identifying Potentially Feasible Water Management Strategies



Selection of Water Management Strategies to Address Unmet Needs - Chronology

Identification of Potentially Feasible Water Management Strategies

Evaluation of Water Management Strategies

Selection of Water Management Strategies to meet unmet needs, specific to WUGs and WWPs

Selection of Water Management Strategies to Address Unmet Needs - Chronology

Include strategies identified in previous plans

Cross reference with the types of strategies required

Determine initial list of Potentially Feasible Strategies

Add additional strategies later as requested by stakeholders if time and budget allow

31 TAC 357.12(b) – RWPG must...



Conduct a public meeting to determine the process for identifying potentially feasible Water Management Strategies (WMSs)



Document process and incorporate input received



List all possible potentially feasible WMSs

TWDB Guidelines for Selecting Water Management Strategies



Evaluate the net quantity, reliability, and cost of water delivered to users during drought conditions (does not include distribution of water after treatment).



Evaluate Environmental Factors

Environmental water needs
Wildlife habitat
Cultural resources
Adopted environmental flow standards



Impacts on other water resources of the State



Discussion of threats to agricultural or natural resources

Strategies Required for Consideration by Rule

1. Conservation
2. Drought management
3. Reuse
4. Management of existing water supplies
5. Conjunctive use
6. Acquisition of available existing water supplies
7. Development of new water supplies
8. Developing regional water supply facilities or providing regional management of water supply facilities

Strategies Required for Consideration by Rule

9. Developing large-scale desalination facilities for seawater or brackish groundwater that serve local or regional brackish groundwater production zones identified and designated under TWC §16.060(b)(5)26
10. Developing large-scale desalination facilities for marine seawater that serve local or regional entities
11. Voluntary transfer of water within the region using, but not limited to, contracts, water marketing, regional water banks, sales, leases, options, subordination agreements, and financing agreements
12. Emergency transfer of water under TWC §11.139
13. Interbasin transfers of surface water

Strategies Required for Consideration by Rule

14. System optimization
15. Reallocation of reservoir storage to new uses
16. Enhancements of yields
17. Improvements to water quality
18. New surface water supply
19. New groundwater supply
20. Brush control
21. Precipitation enhancement
22. Aquifer storage and recovery
23. Cancellation of water rights
24. Rainwater harvesting

Recommended Process for Identifying Potentially Feasible Strategies

(Modified from 2021 Process)

(Modified from 2021 Process)

Proposed 2026 Plan's Process for Identifying Potentially Feasible Strategies

Include strategies identified in previous plans

- Include recommended and alternative strategies from 2021 Plan
- Include strategies evaluated, but not recommended in 2021 Plan
- Include strategies evaluated in previous Plans that were not moved forward
- Include statutory categories

Identify draft needs and develop additional ideas to meet those needs

Maintain ongoing communication from local interests throughout the process

Proposed 2026 Plan's Process for Identifying Potentially Feasible Strategies

Results in an initial list of potentially feasible strategies

Additional WMSs are included if:

- local interests request them and
- the planning schedule and budget allow for the addition.

Investigate for Potential Infeasibility

- If strategy contemplates permitting and/or construction
- If strategy is near-term or necessitates significant time for implementation
- If the potential sponsor(s) have taken, or have indicated they will take, affirmative steps towards the strategy's implementation. Affirmative steps may include, but not be limited to:
 - Spending money on the strategy or project
 - Voting to spend money on the strategy or project
 - Applying for a federal or state permit for the strategy or project

Identify if strategy could potentially provide flood mitigation benefits

Identify if strategy contemplates use of the Brazos Alluvium

Discussion

Identify

- Additions
- Removals
- Other Changes?

Action Requested

Action

- Authorize the technical consultant to submit on behalf of the Scope of Work Committee the recommended process for identifying Potentially Feasible Water Management Strategies for the Brazos G RWPG's consideration and possible action at its February 13, 2024, meeting, consistent with the information discussed in this committee meeting, and approve for the consultant to work with the Chair to submit further revisions and make responses to revision requests by the RWPG and TWDB by the March 4, 2024, deadline.

Item 8

Discussion and possible action on
recommended list of identified Potentially
Feasible Water Management Strategies

Feasible Water Management Strategies

Identification of Potentially Feasible Strategies

- Technical Consultant reviewed strategies evaluated in all previous plans
- **Initial** list of 134 potentially feasible water management strategies
- Dollars (estimated strategy costs) from 2021 Brazos G Plan (2018 \$)
- Additional considerations from the 2021 Plan will be reviewed, allowing for flexibility in application

Recommend consistent approach with 2021 Brazos G Plan

Aquifer Storage and Recovery

- ASR potential to be assessed based on a “threshold of significant water needs” of $\geq 10,000$ ac-ft/yr and ASR potential for each WUG.
- ASR may be recommended for other WUGs with needs less than the threshold; rationale will be documented.
- ASR was not considered as a potential strategy for county-aggregated WUGs unless a specific project sponsor requested (no requests in 2021 Plan).

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost (2018 \$) ¹	Cost of Water (\$/1,000 gals) ¹
Conservation										
1	Municipal Conservation		X	X	R	R	1	VARIES	VARIES	VARIES
2	Industrial Conservation		X	X	R	R	1	VARIES	VARIES	VARIES
3	Irrigation Conservation		X	X	R	R	1	VARIES	VARIES	VARIES
4	Advanced Municipal Conservation (gpcd<140)				R	R	1	VARIES	VARIES	VARIES
5	Advanced Industrial Conservation				R	R	1	VARIES	VARIES	VARIES
Drought Management										
6	Drought Management		X	X	X	R	2	NA	NA	NA
Reuse										
7	Reuse Supply - various reuse projects throughout Brazos G		X	X	R	R	3	VARIES	VARIES	VARIES
8	College Station DPR				A	R	3	8,232	\$84,177,000	\$1.86
9	College Station Non-Potable Reuse				R	X	3	103	\$3,553,000	\$8.97
10	City of Bryan Lake Bryan Reuse, Option 1				R	R	3	605	\$11,092,000	\$7.52
11	City of Bryan Lake Bryan Reuse, Option 2					A	3	2,419	\$41,105,000	\$7.48
12	City of Bryan Miramont Reuse				R	X	3	600	\$3,894,000	\$1.61
13	City of Cleburne Reuse, Phases 1 and 2				R	R	3	7,617	\$38,926,000	\$2.90/\$0.76
14	Waco WMARSS Reuse Projects		X	X	R	R	3	14,568	\$89,538,000	\$23.50
15	Bell County WCID No. 1 Reuse (North and South)			X	R	R	3	2,673	\$26,764,000	\$3.01
16	TRA Reuse - Joe Pool		X	X			3	20,000	\$79,257,000	\$1.84
17	Cedar Park Reuse					R	3	1,120	\$7,184,000	\$1.67
18	Georgetown Reuse					R	3	1,456	\$6,270,000	\$1.07
Management of Existing Water Supplies										
19	Misc. Pipelines, Pump Stations, and GW Options - various entities	X	X	X	R	R	4	VARIES	VARIES	VARIES
20	Water Treatment Plant Expansions - various entities	X	X	X	R	R	4	VARIES	VARIES	VARIES
21	Rehabilitate Existing Wells			X	R		4	VARIES	VARIES	VARIES

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost (2018 \$) ¹	Cost of Water (\$/1,000 gals) ¹
Conjunctive Use										
22	Various projects to utilize potential unallocated supply		X	X	R	R	5	VARIES	VARIES	VARIES
23	Coordinated use of Fort Phantom Hill and Hubbard Creek Reservoir	X					5	UNKNOWN	UNKNOWN	UNKNOWN
24	Coordinated use of Lake Leon Water Supply with Local Groundwater	X					5	UNKNOWN	UNKNOWN	UNKNOWN
25	Oak Creek Reservoir Conjunctive Management			X	R	R	5	4,142	\$0	\$0.00
26	Lake Granger Augmentation (Ph 1)		X	X	A	X	5	13,716	\$96,685,000	\$2.51
27	Lake Granger Augmentation (Ph 2)					R	5	19,168	\$845,564,000	\$12.08
28	Somervell County WSP			X	R	R	5	600	\$36,250,000	\$18.13
Augmentation of Existing Supplies										
29	Gibbons Creek Reservoir Expansion			X	R		6	2,605	\$12,979,000	\$1.10
30	Lake Aquilla Augmentation - Cleburne (Lake Whitney to Aquilla)				R		6	VARIES	VARIES	VARIES
31	Lake Cisco Augmentation	X					6	UNKNOWN	UNKNOWN	UNKNOWN
32	Lake Leon Augmentation	X					6	9,100	\$2,200,000	UNKNOWN
33	Lake Stamford Augmentation	X					6	6,680	\$6,300,000	UNKNOWN
34	Lake Sweetwater Augmentation	X					6	790	\$3,000,000	UNKNOWN
35	Millers Creek Reservoir Augmentation, Canal Option			X	R	X	6	2,075	\$29,174,000	\$2.58
36	Millers Creek Reservoir Augmentation, Pipeline Option					X	6	2,000	\$22,621,000	\$2.84
37	Millers Creek Reservoir Augmentation, New Dam and Reservoir					X	6	2,350	\$81,334,000	\$6.05
38	Millers Creek Reservoir Augmentation, Combined Canal Diversion with New Dam and Reservoir					X	6	3,025	\$113,389,000	\$6.54
39	South San Gabriel Diversion into Lake Georgetown						6	UNKNOWN	UNKNOWN	UNKNOWN
40	City of Cameron Little River Intake					R	6	2,792	UNKNOWN	UNKNOWN
Development of New Water Supplies										
41	Purchase and Use of Water from Possum Kingdom - Abilene				A		7	14,800 ²	\$269,334,000 ²	\$7.93 ²
42	Aquifer Recharge						7	UNKNOWN	UNKNOWN	UNKNOWN

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost (2018 \$) ¹	Cost of Water (\$/1,000 gals) ¹
Developing Regional Water Supply Facilities or Providing Regional Management Of Water Supply Facilities										
43	Lake Belton to Lake Stillhouse Hollow Pipeline			X	R	R	8	5,000	\$67,993,000	\$4.02
44	Bosque County Regional Project	X	X	X	R	R	8	1,070	\$38,990,000	\$9.94
45	Brushy Creek RUA Water Supply Project	X	X	X	R	R	8	69,128	\$327,997,500	\$2.51
46	East Williamson County Water Supply Project			X	R	R	8	11,762	\$30,264,420	\$0.72/\$0.06
47	Lake Whitney Water Supply Project (Cleburne), Phase 1 and Phase 2			X	R	X	8	7,400	\$122,267,000	\$7.11/\$3.55
48	Future Phases of Lake Whitney Water Supply Project			X	R		8	UNKNOWN	UNKNOWN	UNKNOWN
49	West Central Brazos Water Distribution System	X	X	X	R	X	8	1,400 ²	\$21,148,000 ²	\$7.65 ²
50	Alcoa Property Supply					R	8	18,600	\$241,689,000	\$4.28/\$1.47
51	West Texas Water Partnership					A	8	8,400	UNKNOWN	UNKNOWN
Developing Large-Scale Desalination Facilities for Seawater Or Brackish Groundwater That Serve Local or Regional Brackish Groundwater Production Zones Identified And Designated Under TWC §16.060(b)(5)										
52	Developing Large-Scale Desalination Facilities for Seawater Or Brackish Groundwater That Serve Local or Regional Brackish Groundwater Production Zones Identified And Designated Under TWC §16.060(b)(5)						9	UNKNOWN	UNKNOWN	UNKNOWN
Developing Large-Scale Desalination Facilities for Marine Seawater that Serve Local or Regional Entities										
53	Developing Large-Scale Desalination Facilities for Marine Seawater that Serve Local or Regional Entities						10	UNKNOWN	UNKNOWN	UNKNOWN
Voluntary Transfer of Water Within the Region Using, But Not Limited To, Contracts, Water Marketing, Regional Water Banks, Sales, Leases, Options, Subordination Agreements, and Financing Agreements										
54	Restructure Contracts			X	R		11	VARIES	VARIES	VARIES
55	Subordination Agreements			X	R	R	11	VARIES	VARIES	VARIES
56	Misc. Purchases, Interconnects, and Reallocations - various entities	X	X	X	R	R	11	VARIES	VARIES	VARIES
57	Purchase from Walnut Creek Mine - Robertson County SE				R	R	11	9,000	UNKNOWN	UNKNOWN
58	Voluntary Redistribution From Palo Pinto Manufacturing					R	11	118	N/A	\$0.23
59	Reallocation Of Supply From Moffat WSC					R	11	154	N/A	\$3.00
60	Killeen Reduction To Harker Heights					R	11	302	N/A	UNKNOWN
61	Hamilton Reduction To Multi Wsc					R	11	100	N/A	UNKNOWN
62	BRA Highland Lake To County-Other					R	11	2,872	N/A	UNKNOWN

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost (2018 \$) ¹	Cost of Water (\$/1,000 gals) ¹
Emergency transfer of water under TWC §11.139										
63	Emergency transfer of water under TWC §11.139						12	VARIES	VARIES	VARIES
Interbasin Transfers of Surface Water										
64	Brazos River Authority System Operation (to Colorado Basin)						13	UNKNOWN	UNKNOWN	UNKNOWN
65	Marvin Nichols (328) Strategy for NTMWD, TRWD, and UTRWD						13	UNKNOWN	UNKNOWN	UNKNOWN
66	Wright Patman Reallocation for NTMWD, TRWD, and UTRWD						13	UNKNOWN	UNKNOWN	UNKNOWN
67	Trinity Basin Supplies (Trinity or Neches River Projects) to Middle Brazos					X	13	5,700	\$54,249,000	\$2.72
System Operation										
68	BRA System Operation					R	14	VARIES	VARIES	VARIES
Reallocation of Reservoir Storage to New Uses										
69	Lake Aquilla Storage Reallocation			X	R	R	15	2,483	\$24,353,000	\$2.67
70	Lake Granger Storage Reallocation			X	A	X	15	1,535	\$33,238,000	\$6.03
71	Lake Stillhouse Hollow Reallocation				A		15	2,643	\$36,553,000	\$3.61
72	Lake Whitney Reallocation, Hydropower Storage	X			A	R	15	38,480	\$36,689,000	\$0.21
73	Lake Whitney Reallocation Supplies to Williamson County					R	15	26,000	\$306,683,000	4.96/2.42
Enhancement of Yields										
74	Lake Whitney Over-Drafting Supply with Off-Channel Reservoir					A	16	5,200	\$171,738,000	\$7.60
Improvements to Water Quality										
75	Brackish Groundwater Desalination	X		X	X		17	UNKNOWN	UNKNOWN	UNKNOWN
76	Chloride Control Project (SFWQC)			X	R	R	17	VARIES	VARIES	VARIES
77	Supplies from Chloride Control Project - Aspermont, Jayton, Region O					R	17	1,496	\$70,857,000	\$56.19
78	Lake Whitney Desalination	X					17	11,202	\$29,085,000	\$1.58
79	BRA SWATS Reallocation of Capacity	X		X	X		17	200 ²	NA ²	\$1.69 ²
80	BRA Sediment Reduction Program			X	A		17	888 ²	\$1,075,000 ²	\$1.00 ²

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost (2018 \$) ¹	Cost of Water (\$/1,000 gals) ¹
New Surface Water Supply										
81	Breckenridge Reservoir		X				18	28,920	\$82,755,000	\$0.69
82	Brushy Creek Reservoir			X	R	R	18	2,000	\$33,229,000	\$3.82
83	Cedar Ridge Reservoir		X	X	R	R/A	18	23,311	\$283,646,000	\$2.62
84	Coryell County Off-Channel Reservoir			X	R	R	18	3,135	\$82,584,000	\$6.19
85	Double Mountain Fort (East) Reservoir		X	X			18	36,025	\$211,373,000	\$1.37
86	Double Mountain Fort (West) Reservoir		X	X			18	34,775	\$151,456,000	\$1.02
87	Lake Bosque	X					18	17,900	\$67,063,000	\$0.83
88	Groesbeck Off-Channel Reservoir	X	X	X	R	R	18	1,755	\$23,599,000	\$3.24
89	Hamilton County Reservoir				X	X	18	9,275	\$248,308,000	\$9.73
90	NCTMWA Lake Creek Reservoir (formerly Millers Creek Off-Channel Reservoir)				A	R	18	12,900	\$259,001,000	\$5.08
91	Lake Palo Pinto Off-Channel Reservoir		X	X	A		18	3,110	\$34,685,000	\$3.01
92	Little River Off-Channel Reservoir	X	X	X	R		18	56,150	\$248,761,000	\$1.27
93	Little River Reservoir			X			18	71,275	\$331,705,000	\$1.01
94	Brazos River Main Stem Off-Channel Reservoir				X	X	18	7,200	\$107,532,000	\$3.35
95	Meridian Off-Channel Reservoir	X		X	A		18	615	\$21,702,000	\$12.15
96	Millican-Bundic Reservoir	X	X				18	38,080	\$464,764,000	\$2.80
97	Millican-Panther Reservoir			X			18	194,500	\$1,159,907,000	\$1.90
98	Paluxy Reservoir	X					18	16,300	\$74,147,000	\$1.03
99	Peach Creek Off-Channel Reservoir	X	X	X	X		18	4,240	\$66,852,000	\$4.40
100	Red River Off-Channel Reservoir near Arthur City					X	18	196,000	\$2,790,964,000	4.27/1.25
101	Somervell County Off-Channel Reservoir	X					18	2,000	\$24,633,000	\$3.38
102	South Bend Reservoir	X	X	X	X	X	18	65,000	\$623,882,000	\$1.65
103	Throckmorton Reservoir			X	R	R	18	3,500	\$68,103,000	\$5.18
104	Turkey Peak Reservoir		X	X	R	R	18	6,000	\$102,530,000	\$2.98
105	Wheeler Branch Off-Channel Reservoir		X	X			18	1,800	UNKNOWN	UNKNOWN

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost (2018 \$) ¹	Cost of Water (\$/1,000 gals) ¹
New Groundwater Supply										
106	Brazos River Alluvium - various entities	X			X	R	19	VARIES	VARIES	VARIES
107	Groundwater Supply for County, Others	X	X	X	R	R	19	VARIES	VARIES	VARIES
108	Gulf Coast Aquifer - various entities			X	R	R	19	VARIES	VARIES	VARIES
109	Trinity Aquifer - various entities			X	R	R/A	19	VARIES	VARIES	VARIES
110	Edwards Aquifer - various entities			X	R	R	19	VARIES	VARIES	VARIES
111	Sparta Aquifer - various entities				R	R	19	VARIES	VARIES	VARIES
112	Dockum Aquifer - various entities				R	X	19	VARIES	VARIES	VARIES
113	Woodbine Aquifer - various entities				R	R	19	VARIES	VARIES	VARIES
114	Blaine Aquifer - various entities				R	R	19	VARIES	VARIES	VARIES
115	Yegua-Jackson Aquifer - various entities				R	R	19	VARIES	VARIES	VARIES
116	Seymour Aquifer - various entities				R	R	19	VARIES	VARIES	VARIES
117	Carrizo Aquifer - various entities					R/A	19	VARIES	VARIES	VARIES
118	Williamson County Groundwater - South Option					R	19	23,250	\$415,016,000	\$5.41/\$1.56
119	Marble Falls Aquifer Development - various entities					R	19	VARIES	VARIES	VARIES
120	Other Aquifer Development - various entities					R	19	VARIES	VARIES	VARIES
121	Cross Timbers Aquifer Development - various entities					R	19	VARIES	VARIES	VARIES
122	Ellenburger-San Saba Aquifer Development - various entities					R	19	VARIES	VARIES	VARIES
123	Purchase from SAWS Vista Ridge Project (Williamson County)				R	R	19	5,700	NA	\$7.40
Brush Control										
124	Brush Control		X	X	R	X	20	0	\$7,308,000	NA
Precipitation Enhancement										
125	Weather Modification	X	X	X			21	UNKNOWN	UNKNOWN	UNKNOWN

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost (2018 \$) ¹	Cost of Water (\$/1,000 gals) ¹
Aquifer Storage and Recovery										
126	Bryan ASR				R	R	22	14,626	\$72,404,000	\$1.37
127	College Station ASR				R	R	22	3,640	\$89,158,000	\$10.06
128	Trinity ASR in Johnson County (Johnson County SUD and Acton MUD)		X	X	A	A	22	3,574	\$19,789,000	\$1.94/\$0.75
129	Trinity ASR in McLennan County		X	X	R	R	22	8,000	\$65,954,000	\$1.98
130	Lake Granger ASR (Trinity Aquifer)				R	R	22	11,900	\$24,141,000	\$0.83
131	Seymour ASR Project	X	X	X			22	3,750	\$18,826,000	\$1.45
132	Trinity - Lake Georgetown ASR					R	22	8,645	\$306,276,000	\$4.35
Cancellation of Water Rights										
133	Cancellation of Water Rights						23	UNKNOWN	UNKNOWN	UNKNOWN
Rainwater Harvesting										
134	Rainwater Harvesting						24	UNKNOWN	UNKNOWN	UNKNOWN
Legend										
X = evaluated in the identified regional water plan										
R = recommended identified regional water plan										
A = alternative strategy identified regional water plan										
Notes										
1. Some numbers from previous plans were taken from a presentation provided during development of the 2021 Plan. Carollo cannot verify if these values are accurate.										
2. These values were taken directly from the 2016 Plan and have not been updated.										

Discussion

Identify

- Additions
- Removals
- Other Changes?

Action Requested

Action

- Authorize the technical consultant to submit on behalf of the Scope of Work Committee the recommended list of identified Potentially Feasible Water Management Strategies for the Brazos G RWPG's consideration and possible action at its February 13, 2024, meeting, consistent with the information discussed in this committee meeting, recognizing this list may evolve over the course of the development of the 2026 Brazos G Plan.

Item 9

Discussion and possible action regarding the Scope of Work Amendment required to proceed with the Evaluation and Recommendation of Water Management Strategies and Projects (Task 5B)

Management Strategies and Projects (Task 5B)

WITH THE EVALUATION AND RECOMMENDATION OF WATER

Background

- Exhibit A, First Amended Scope of Work, 2026 Regional Water Plans, August 2022:
 - Task 5B – Evaluation and Recommendations of Water Management Strategies and Projects includes preparation of a separate chapter “...that identifies, evaluates, and recommends WMSs and WMSPs.”
 - “Performance of work associated with any 5B subtasks will be contingent upon a written notice-to-proceed in the form of a contract amendment.”
 - “Scope of Work to be amended based on specific Task 5B scope of work to be developed and negotiated with TWDB.”
- Prior to evaluation of the Potentially Feasible WMSs identified, Brazos G RWPG must develop and submit a scope of work and associated budget and request notice-to-proceed.

Chronology

- Technical Consultant has developed a Draft Scope of Work and budget based on the identified list of strategies
- Based on the Committee's recommendations, the Scope of Work and budget will be finalized and presented to the Brazos G RWPG for consideration and possible action at February meeting.
- Target budget amount is \$824,994.00.
- Not based on identified needs, but on recommended process including broad statutory categories.
- Upon RWPG adoption, Technical Consultant will submit to TWDB and request notice to proceed.
- Ongoing coordination with TWDB will occur as needed.

Scope of Work/Budget Framework

- Available supplies will be calculated based on approved methodologies.
- Estimated WMS and WMSP costs will be updated using the TWDB Unified Costing Model.
- Each strategy will be evaluated consistent with approved process and guidelines, including reliability, cost, environmental impacts, and other components adopted by RWPG.

Scope of Work/Budget Framework

- GIS maps will be developed for all strategies, illustrating infrastructure improvements and supply sources
- WMS evaluation will be aligned with statutory categories (e.g., conservation, reuse, etc.)
- The scope of work also includes:
 - Coordination with specific WUGs and WWPs as necessary regarding individual plans
 - Database entry
 - Preparation of the associated report (chapter)

Action Requested

Action

- Authorize the technical consultant to submit on behalf of the Scope of Work Committee the Draft Scope of Work and Budget for Task 5B for the Evaluation and Recommendation of Water Management Strategy and Projects for the Brazos G RWPG's consideration and possible action at its February 13, 2024, meeting, consistent with the information discussed in this committee meeting, for potential submittal and request for a Notice to Proceed from the TWDB, and approve for the consultant to work with the Chair to submit further revisions and make responses to revision requests by the RWPG and TWDB as needed.



**10. Consider Agenda Items and Date for the next Scope
of Work Committee Meeting**

11. ADJOURN