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Chapter 8: Unique Stream Segments, Unique Reservoir Sites, and Legislative and Regulatory Recommendations

**2026 Initially Prepared Plan** 

**Prepared for:** 

**East Texas Regional Water Planning Group** 

January 2025



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#### LIST OF ABBREVIATIONS

ABBREVIATION	DESCRIPTION					
ANRA	Angelina and Neches River Authority					
CE	Categorical Exclusions					
DFCs	Desired Future Conditions					
DPR	Direct Potable Reuse					
EDAP	Economically Distressed Areas Program					
EDF	Environmental Defense Fund					
EIS	Environmental Impact Statement					
EPA	Environmental Protection Agency					
ETRWPA	East Texas Regional Water Planning Area					
ETRWPG	East Texas Regional Water Planning Group					
ft msl	feet mean sea level					
GCD	Groundwater Conservation District					
GMAs	Groundwater Management Areas					
НВ	House Bill					
LAR	Legislative Appropriations Request					
MAG	Modelled Available Groundwater					
NEPA	National Environmental Policy Act					
RWPG	Regional Water Planning Group					
SB	Senate Bill					
SRF	State Revolving Fund					
SWIFT	State Water Implementation Fund for Texas					
TAC	The Texas Administrative Code					
TCEQ	Texas Commission on Environmental Quality					
TPWD	Texas Parks and Wildlife Department					
TWDB	the Texas Water Development Board					
USACE	United States Army Corps of Engineers					
USFWS	United States Fish and Wildlife Service					
WAM	Water Availability Model					
WMS	Water Management Strategies					
WUG	Water User Group					

#### 8 UNIQUE STREAM SEGMENTS, UNIQUE RESERVOIR SITES, AND LEGISLATIVE AND REGULATORY RECOMMENDATIONS

Per Regional Water Planning Guidelines, Title 31, Part 10, Chapter 357 of the Texas Administrative Code (TAC), this chapter of the 2026 East Texas Regional Water Plan (2026 Plan) documents recommendations by the East Texas Regional Water Planning Group (ETRWPG) regarding unique stream segment designation, unique site designation for reservoir construction, and regulatory, administrative or legislative action recommendations to the Texas Legislature. Information relevant to these issues was considered and approved by the ETRWPG at the February 2025 Region I Regional Water Planning Group meeting.

#### 8.1 SUMMARY OF RECOMMENDATIONS

Recommendations within this chapter are described under one of the following three categories: Ecologically Unique River and Stream Segments, Unique Sites for Reservoir Construction; and Regulatory, Administrative, or Legislative Actions.

#### 8.1.1 Recommendations Summary for Ecologically Unique River and Stream Segments

No recommendations were proposed for ecologically unique river and stream segments.

#### 8.1.2 Recommendations Summary for Unique Sites for Reservoir Construction

The following are recommendations for unique sites for reservoir construction:

- Recommend that the Texas Legislature continue to designate the following sites as unique sites for reservoir construction:
  - Lake Columbia
  - Fastrill Reservoir
- Encourage continued affirmative votes by sponsors of these proposed reservoirs to make expenditures necessary to construct or apply for required permits to avoid termination of unique reservoir site designation.

#### 8.1.3 Recommendations Summary for Policy and Legislative Recommendations

The following are recommendations for regulatory, administrative, or legislative action and are described in more detail later in this chapter:

- Flexibility in Determining Water Plan Consistency
  - TWDB and TCEQ should continue to interpret existing legislation to give the maximum possible flexibility to water suppliers as they seek to serve the public and provide new supplies.
  - Willing buyer/willing seller transactions of water rights and treated water should continue to not be controlled by this regulation.
  - TWDB and TCEQ should encourage and continue to make use of their ability to waive consistency requirements if local water suppliers elect strategies that differ from those in the regional plan.
  - RWPG will consider the creation of sub-WUG planning at the request of an existing utility, public water system, or representative of a geographic area within an ETRWPA WUG that meets the TWDB criteria for a sub-WUG.
- Continued Funding by the State of the Regional Water Planning Process on a Five-Year Cycle
  - Grassroots planning effort created by Senate Bill 1 is important to the state of Texas and

should be continued.

- ETRWPG believes that the most fair and efficient method of financing continuation of this effort for future planning cycles is to continue funding of this effort by the state with administrative expenses for the region being provided from sources within the region.
- Unique Reservoir Designation
  - Designation of unique reservoir site for Lake Columbia and Lake Fastrill be retained through the current planning horizon, 2080.
- Water Reuse
  - Current regulations as they pertain to the reuse of treated wastewater (i.e., water reuse) should continue to be reviewed and amended, as necessary, to encourage the development of these resources.
- Funding
  - Increased flexibility in categorical exclusions for Environmental Information Documents that are required for funding of water projects.
  - Increased flexibility in Economically Distressed Areas Program (EDAP) funding requirements
- Uncommitted Surface Water
  - To support adequate supply for future needs and encourage reliable water supply planning, the ETRWPG:
    - Opposes unilateral cancellation of uncommitted water contracts/rights;
    - Supports long term contracts that are required for future projects and drought periods; and
    - Supports "interruptible" water supply contracts as a way to meet seasonal and short-term needs before long-term water rights are fully utilized.
- Standardized Processes for Regional Water Plan Development
  - TWDB develops guidelines for regional water planning evaluations of federally permitted water projects that will produce documentation that can be integrated and used in the NEPA process.
  - TWDB is encouraged to continue to develop relationships with federal authorities to allow the use of the state and regional water planning population projections to streamline permitting process.
- Funding for Additional Groundwater Modeling
  - Funding for groundwater modeling for development of desired future conditions (DFCs) and modeled available groundwater (MAGs) be provided to the TWDB.
  - Funds should be made available to assist the Groundwater Management Areas (GMAs) with the expenses related to developing the DFCs.
- Clarification of Unique Stream Segment Criteria
  - The ETRWPA recommends clarifications be incorporated into the regional water planning process on a statewide basis.

#### 8.2 UNIQUE STREAM SEGMENTS

According to §357.43(1) of the Texas Administrative Code, the ETRWPG is obligated to consider potential river or stream segments as being of unique ecological value based upon the following criteria set forth in §358.2(6):

- **Biological function** stream segments that display significant overall habitat value including both quantity and quality considering the degree of biodiversity, age, and uniqueness observed and including terrestrial, wetland, aquatic, or estuarine habitats;
- Hydrologic function stream segments that are fringed by habitats that perform valuable hydrologic functions relating to water quality, flood attenuation, flow stabilization, or groundwater recharge and discharge;
- Riparian conservation areas stream segments that are fringed by significant areas in public ownership including state and federal refuges, wildlife management areas, preserves, parks, mitigation areas, or other areas held by governmental organizations for conservation purposes, or stream segments which are fringed by other areas managed for conservation purposes under a governmentally approved conservation plan;
- High water quality/exceptional aquatic life/high aesthetic value stream segments and spring resources that are significant due to unique or critical habitats and exceptional aquatic life uses dependent on or associated with high water quality; or
- Threatened or endangered species/unique communities sites along streams where water development projects would have significant detrimental effects on state or federally listed threatened and endangered species; and sites along streams significant due to the presence of unique, exemplary, or unusually extensive natural communities.

To assist the ETRWPG with identifying potential stream segments for designation, the Texas Parks and Wildlife Department (TPWD) developed a report<sup>[1]</sup> in 2005 of ecologically significant river and stream segments in the East Texas Regional Water Planning Area (ETRWPA). The TPWD report identified 41 river and stream segments in the ETRWPA as possibly ecologically significant. A map prepared by TPWD showing the locations of the 41 river and stream segments is presented on Figure 8.1.

The planning rules do not provide guidance on how many of the criteria need to be met as a prerequisite for consideration for designation as a unique stream segment. As an initial screening tool, the ETRWPG determined that those segments that meet three or more of the criteria would be further evaluated.

Only 9 of the 41 segments have three or more applicable criteria. Table 8.1 presents a summary of the 41 segments identified by TPWD and indicates which of the five criteria are identified by TPWD for each segment. Some of the segments are categorized as having threatened or endangered species or unique communities. The specific threatened or endangered species or unique community that is the basis for this categorization is presented in Table 8.2.

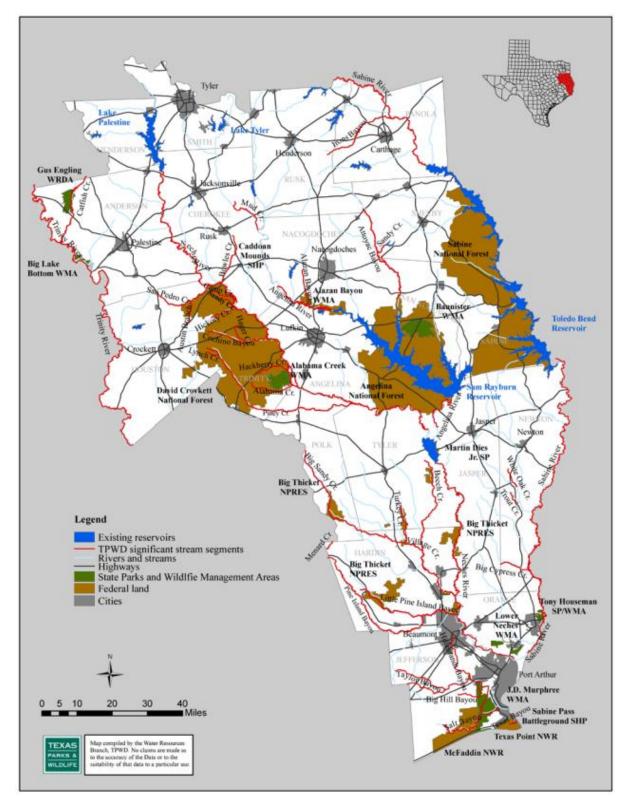


Figure 8.1 Texas Parks and Wildlife Department Ecologically Significant Stream Segments SOURCE: TEXAS PARKS AND WILDLIFE DEPARTMENT



East Texas Region I River or Stream Segment	Biological Function	Hydrologic Function	Riparian Conservation Area	High Water Quality / Aesthetic Value	Threatened or Endangered Species / Unique Communities	Total # of Criteria Met
Alabama Creek			•			1
Alazan Bayou	•		•			2
Upper Angelina River (Angelina)	•		•		•	3
Lower Angelina River (Jasper)			•		•	2
Attoyac Bayou					•	1
Austin Branch			•			1
Beech Creek			•	•		2
Big Cypress Creek				•		1
Big Hill Bayou	•		•			2
Big Sandy Creek	•		•	•		3
Bowles Creek			•			1
Camp Creek			•		•	2
Catfish Creek			•	•	•	3
Cochino Bayou			•			1
Hackberry Creek			•		•	2
Hager Creek			•			1
Hickory Creek			•			1
Hillebrandt Bayou			•			1
Irons Bayou				•		1
Little Pine Island Bayou			•			1
Lynch Creek			•		•	2
Menard Creek	٠		•			2
Mud Creek	•				•	2

#### Table 8.1 Texas Parks and Wildlife Department Recommendations for Designation as Ecologically Unique River and Stream Segments

2026 Regional Water Plan East Texas Regional Water Planning Area



East Texas Region I River or Stream Segment	Biological Function	Hydrologic Function	Riparian Conservation Area	High Water Quality / Aesthetic Value	Threatened or Endangered Species / Unique Communities	Total # of Criteria Met
Upper Neches River	•		•	•	•	4
Lower Neches River	•		•	•	•	4
Pine Island Bayou			•			1
Piney Creek			•	•	•	3
Upper Sabine River (Panola)	•			•	•	3
Middle Sabine River (Newton)	•			•		2
Lower Sabine River (Orange)	•		•			2
Salt Bayou	•		•			2
San Pedro Creek			•			1
Sandy Creek (Trinity)			•		•	2
Sandy Creek (Shelby)					•	1
Taylor Bayou	•		•			2
Texas Bayou	•		•			2
Trinity River	•		•		•	3
Trout Creek			•			1
Turkey Creek			•			1
Village Creek	•		•	•	•	4
White Oak Creek				•		1



Threatened / Endangered Species	Angelina River	Attoyac Bayou	Camp Creek	Catfish Creek	Hackberry Creek	Lynch Creek	Mud Creek	Upper Neches River	Lower Neches River	Piney Creek	Sabine River	Sandy Creek	Trinity River	Village Creek
Paddlefish	•							•	•		•			
Creek chubsucker			٠		•	٠		•		•		•		
Sandbank														
pocketbook									٠					
freshwater mussel														
Texas heelsplitter									•				•	
freshwater mussel									-				-	
Neches River rose-							•	•						
mallow														
Rough-stem aster				•										
Triangle pigtoe		•												
freshwater mussel		•												
Blue sucker								•						
Unique community								•	٠					٠

 Table 8.2 Texas Parks and Wildlife Department Threatened and Endangered Species/Unique

 Communities

The intent of the Texas Legislature regarding the purpose of the unique stream segment designation is stated in Section 16.051(f) of the Texas Water Code:

This designation solely means that a state agency or political subdivision of the state may not finance the actual construction of a reservoir in a specific river or stream designated by the legislature under this subsection.

Based on this section of the law, it would be irrelevant to consider recommending a segment for designation if it does not have potential to be a reservoir site. Five of the nine stream segments identified for further evaluation are not currently considered as potentially suitable for reservoir construction. Therefore, these segments have been eliminated from further consideration at this time. These segments are as follows:

- Upper Angelina River (Segment 0611; Nacogdoches County)
- Big Sandy Creek (Segment 0608B)
- Catfish Creek (Segment 0804G)
- Trinity River (Segment 0803/0804)
- Village Creek (Segment 0608)



Four segments include reaches that have been identified as potentially suitable for a reservoir site as follows:

- Upper and Lower Neches River (Segment 0601/0602/0604) Rockland Reservoir
- Piney Creek (Segment 0604D) Rockland Reservoir
- Upper Sabine River (Segment 0505; Panola County) Lake Stateline and Lake Carthage

Limited information exists on the relative value of using these sites for a reservoir compared to maintaining a riverine environment. Prior to proceeding with the construction of a reservoir at any of these sites, extensive environmental studies must be conducted to determine the extent and nature of potential environmental impacts and whether these impacts can be effectively mitigated. The information obtained through such environmental studies is the type of data needed to provide a basis for decisions regarding the relative merits of constructing a reservoir or preserving a riverine environment. No regulatory purpose has been identified that would be served by a unique stream segment designation, other than precluding reservoir construction. Indeed, there are currently extensive regulations and programs to protect the environment in the ETRWPA.

The ETRWPA has a high proportion of land that has been assigned a special protective status; this land is summarized in Table 8.3 below. In addition to the land shown below, there are multiple state parks, state historic sites, and the Alabama and Coushatta Indian Reservation. Areas of the ETRWPA that are not part of a state or federal preserve are also protected by various regulatory programs that require environmental assessments for activities that could adversely affect the environment.

Name	Acreage
Alabama Creek Wildlife Management Area	14,600
Alazan Bayou Wildlife Management Area	2,100
Angelina National Forest	153,200
Big Lake Bottom Wildlife Management Area	4,100
Big Thicket National Preserve	106,300
Davy Crockett National Forest	160,600
E.O. Siecke State Forest	1,700
Engeling Wildlife Management Area	11,000
J.D. Murphree Wildlife Management Area	24,300
Lower Neches Wildlife Management Area	8,000
McFaddin and Texas Point National Wildlife Refuges	67,800
Neches River National Wildlife Refuge	25,000*
Sabine National Forest	160,900
Tony Houseman Wildlife Management Area	3,300

#### Table 8.3 Land with a Special Protective Status

\*The current size of the Neches River National Wildlife Refuge is 7,000 acres; ongoing land acquisitions



will potentially expand the refuge to 25,000 acres.

There continues to be concern among many regional water planning groups (including the ETRWPG) that designation of a stream segment might lead to unwarranted restrictions on the use of the segment, including water diversions and discharges of treated effluent. As in 2015 and 2021, at the January 2025 meeting, the ETRWPG considered the above information and voted not to recommend any stream segments in the region for unique status. The ETRWPG concluded that sufficient programs are already in place to protect the regions streams from inappropriate reservoir construction. In addition, the ETRWPG prefers to allow the TWDB to study issues associated with unique stream segment designation before further considering potential designations in the ETRWPA.

#### 8.3 UNIQUE RESERVOIR SITES

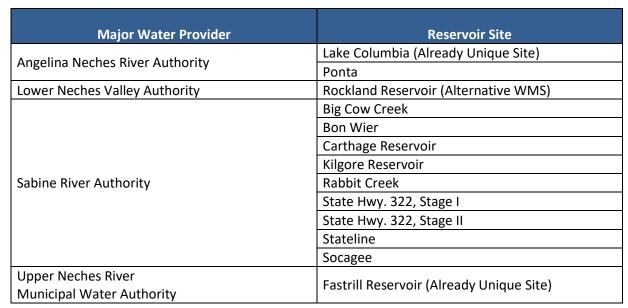
Regional water planning guidelines allow regional water planning groups to recommend sites of unique value for construction where:

- (1) Site-specific reservoir development is recommended as a specific water management strategy; or
- (2) The location, hydrologic, geologic, topographic, water availability, water quality, environmental, cultural, and current development characteristics, or other pertinent factors make the site uniquely suited for reservoir development to provide water supply.

The ETRWPA has a long history of water supply planning and reservoir development. Numerous sites have been identified as being hydrologically and topographically ideal for reservoir development. Two sites in the ETRWPA are currently designated as unique reservoir sites: Lake Columbia and Fastrill Reservoir. Fastrill Reservoir was designated by the 79th Legislature through 2007 Texas Legislature Senate bill 3. Lake Columbia received its unique designation by the State Legislature, Senate Bill 1362. Lake Columbia is currently being pursued for development. The ETRWPG fully supports the designation of these two reservoir sites as unique.

The ETRWPG considered other potential reservoir sites for possible designation as unique but did not recommend any additional sites. The considered sites are described in Sections 8.2.2 through 8.2.12 below. The ETRWPG agrees with past evaluations of these sites as being hydrologically and topographically unique for reservoir construction. The ETRWPG recognizes that reservoirs can have major impacts on the environment and that protection of the environment is already afforded through a process that is more thorough than the regional water planning effort. The ETRWPG is not recommending these additional sites (i.e., the proposed reservoirs other than Lake Columbia and Lake Fastrill) be designated as unique reservoir sites. The ETRWPG is recommending that these sites be recognized as potential long-term water management strategies for the time period more than fifty years in the future. The ETRWPG believes that the lengthy and thorough economic and environmental review process will determine if any of these reservoirs are constructed as opposed to any decision by the ETRWPG.

The ETRWPG has voted in previous rounds of planning to not recommend any proposed reservoir sites as unique. Proposed sites, including the two sites already designated as unique, are included in Table 8.4.



#### Table 8.4 Potential Reservoirs for Designation as Unique Reservoir Sites

A brief description of each of the above reservoir sites follows. Appendix 8-A contains maps showing the proposed locations for each reservoir.

#### 8.3.1 Lake Columbia (Unique Reservoir Designation)

The reservoir is a project of Angelina and Neches River Authority (ANRA) located predominantly in Cherokee County but extends into the southern portion of Smith County. Figure 8-A.2 indicates the location of Lake Columbia. The reservoir, located in the Neches River Basin in Region I, would be formed by construction of a dam on Mud Creek approximately 2.5 miles downstream of the U. S. Highway 79 crossing. The dam is expected to impound water approximately 14 miles upstream with an estimated surface area of 10,133 acres. The reservoir is permitted for 85,507 ac-ft per year of water. It has a total storage volume at normal pool elevation, 315 feet above mean sea level (msl) of 195,500 acre-feet. State of Texas Senate Bill 1362 designated the site for Lake Columbia as a site of unique value for the construction of a dam and reservoir.

To develop Lake Columbia, ANRA has:

- Secured a water right. Permit 4228, issued in June 1985, allows ANRA to impound up to 195,500 acre-feet in Lake Columbia and to divert up to 85,507 acre-feet per year for municipal, industrial, and recreation purposes.
- Applied for a Clean Water Act Section 404 permit from the U.S. Army Corps of Engineers (USACE) in 2000 but was withdrawn in 2020 for insufficient purpose and need definition per USACE. ANRA continues to seek stakeholders who can satisfy the USACE purpose and need criteria requirements and the funding to complete the Section 404 permitting process. As part of the 404 permitting process, ANRA has:
  - · Completed a downstream impact analysis.
  - Completed an archaeological field survey.
  - Completed a proposed mitigation plan.



Worked toward completion of a draft Environmental Impact Statement (EIS).

There have been several bills passed into law that have further confirmed State support of Lake Columbia, including the following:

- SB 1600, 77th (R), 2001, Staples
  - State Water Right amendment extending the deadlines for construction of the reservoir.
- SB 1362, 78th (R), 2003, Staples
  - Renamed the project Lake Columbia, in honor of the space shuttle Columbia disaster;
  - · Designated the site as a Unique Reservoir site;
  - Finding by the Legislature that the project was necessary to meet water supply requirements;
  - Legislative intent for the State Participation Program;
  - Rulemaking authority for water quality purposes.
- SB 1360, 81st (R), 2009, Nichols
  - Legislative findings declaring TWDB's interest in the project and the development of the project was in the public's interest;
  - State Water Right amendment removing construction deadlines.
- HB 3861, 81st (R), 2009, Hopson
  - Legislative findings that the project is in the public's interest, the TWDB has committed to acquire an interest in the project and made the determination that the state will recover its investment in the project;
  - Provided TWDB discretion in Making Findings:
    - In making any statutory finding under Section 16.135(1), Water Code, necessary to complete financing of the project, the Board may take into account any revenue reasonably expected to be received from:
      - a political subdivision not currently under contract with the authority to participate in paying the costs of the site acquisition stage of the project; or
      - a political subdivision not currently under contract to purchase a portion of the water to be supplied by the project.
  - The Board is not required to identify a political subdivision from which revenue is reasonably expected to be received as provided by Subsection (a) of this section at the time the Board makes a finding described by that subsection.

#### 8.3.2 Ponta Reservoir

The Ponta Reservoir would be located on Mud Creek in Cherokee County east of Jacksonville, Texas. The dam site is located approximately one mile upstream from the Southern Pacific Railroad crossing over Mud Creek. Figure 8-A.2 indicates the proposed location. The normal pool elevation would be about



elevation 302 feet mean sea level (ft msl) and would have an area of 11,000 acres. Storage capacity at normal pool elevation would be 200,000 acre-feet. Previous studies have indicated that the reservoir could provide a dependable yield of 105,000 ac-ft per year. However, with the construction of Lake Columbia the yield would be substantially less.

#### 8.3.3 Rockland Reservoir

The Rockland Reservoir site is located on the Neches River at River Mile 160.4. The top of the flood pool would be at elevation 174 feet, msl with top of conservation pool of 165 feet, msl. It is estimated the reservoir site would affect 99,524 acres of wildlife habitat (Frye, 1990).

Rockland Reservoir was authorized for construction as a federal facility in 1945, along with Sam Rayburn, B. A. Steinhagen and Dam A lakes. A report in 1947 recommended construction of Sam Rayburn and B. A. Steinhagen with deferral of Rockland Reservoir and Dam A until such time the need develops. Rockland and Dam A were classified as inactive in 1954. A re-evaluation study performed in 1987 identified the potential for significant benefits in the areas of flood control, water supply, hydropower, and recreation.

#### 8.3.4 Big Cow Reservoir

The Big Cow Reservoir is a proposed local water supply project on Big Cow Creek in Newton County. The Big Cow Creek dam site is located about one-half mile upstream from U.S. Hwy 190, west-northwest of the Town of Newton. It is in the Lower Sabine Basin. Figure 8-A.4 indicates the location of the proposed reservoir. The expected yield of the reservoir is 61,700 ac-ft per year with a storage capacity of 79,852 ac-ft and an area of 4,618 acres. The conservation level would be 212 feet msl.

The perennial streams that feed Big Cow Creek and abundant rainfall should provide sufficient inflow for considerable yield for a reservoir of this size.

#### 8.3.5 Bon Wier Reservoir

The Bon Wier dam site is located on the state line reach of the Sabine River in Newton County, Texas and Beauregard Parish, Louisiana. The reservoir would extend from about 5 miles upstream of U.S. Hwy 190 to approximately Highway 63. Figure 8-A.4 indicates the location of the proposed reservoir. It was originally proposed for re-regulation of the hydropower discharges from Toledo Bend Reservoir and for the generation of hydropower. The reservoir, if constructed, would yield 440,000 ac-ft per year at a normal operating elevation of 90 feet above msl. The area and capacity would be 34,540 acres and 353,960 acre-feet, respectively.

It is estimated that the Bon Wier Reservoir would affect 35,000 acres of wildlife habitat (Frye, 1990). This includes several acid bogs/baygalls, which are unique and sensitive areas of the region. Several threatened and endangered species are known to occur in this area. No cultural resource survey has been conducted, but the site is expected to affect numerous archeological and historical sites in both Texas and Louisiana. The Clean Rivers Program Water Quality data reported possible concerns for elevated total dissolved solids and low dissolved oxygen during the summer months. The site also requires congressional approval for construction of a dam, because it is on interstate navigable waters of the U.S.



#### 8.3.6 Carthage Reservoir

The Carthage Reservoir is a proposed main stem project on the Sabine River in Panola, Harrison, Rusk and Gregg counties. It is located immediately upstream of the U.S. Highway 59 crossing and downstream of the City of Longview. Figure 8-A.1 indicates the proposed location. The yield of this reservoir, if constructed, would be approximately 537,000 ac-ft per year at a conservation pool elevation of 244 feet msl. The area and capacity would be 41,200 acres and 651,914 acre-feet, respectively.

Developmental concerns for Carthage Reservoir include bottomland hardwoods, aquatic life, lignite deposits, and cultural resources. The downstream half of the site encompasses a U.S Fish and Wildlife Service Priority 1 bottomland hardwood area. This portion of the Sabine River is designated a significant stream segment and is home to several protected aquatic species (Bauer, 1991). Other potential conflicts with this site include oil and gas wells. Permitting for this reservoir will require an act of Congress since the dam is located on navigable interstate waters of the U.S. There is one active lignite mine, South Hallisville Mine No. 1, near the reservoir boundary.

The water quality assessment of the Sabine River (Sabine River Authority of Texas, 1996) indicates this segment of the river has possible concerns for nutrients, but the water quality is improving. The advantage of this reservoir is its large yield. The estimated yield of 537,000 ac-ft per year would provide for all projected needs well beyond the year 2060.

#### 8.3.7 Kilgore Reservoir

The Kilgore Reservoir is a proposed local water supply project located on the Upper Wilds Creek in Rusk, Gregg, and Smith counties. Figure 8-A.1 indicates the proposed location of the reservoir. It was originally proposed to supplement the City of Kilgore's water supply. The project would provide a yield of 5,500 acft per year at the normal operating elevation of 398 feet msl. At that level, the area and capacity would be 817 acres and 16,270 acre-feet, respectively.

Construction of this reservoir has never been initiated, and the City of Kilgore is using diversions from the Sabine (purchased from Sabine River Authority of Texas and released from Lake Fork) and ground water for its water supply. However, this project still has the potential as a local water supply source in the Kilgore area should other proposed projects not be developed. Only preliminary studies have been performed on the Kilgore Reservoir and no environmental impacts have been assessed. Based on preliminary screening data, the site is not located within a priority bottomland hardwood area; there are no known water quality issues and no active mines within the reservoir site.

#### 8.3.8 Rabbit Creek Reservoir

Several reservoir projects have been proposed on Rabbit Creek for local water supply. The latest proposal for the City of Overton and surrounding communities was completed in 1998. The proposed reservoir project is located on Rabbit Creek in Smith and Rusk counties and would have a firm yield of 3,500 ac-ft per year. Figure 8-A.1 indicates the proposed location of the reservoir. This is considerably less yield than the previous studies, which is due in part to the smaller storage capacity and conservative inflows that were assumed for the study. In the latest study, the area would be 520 acres, and the capacity would be 8,000 acre-feet at a conservation level of 406 ft msl. However, this yield is considered satisfactory to meet the regional demands of the area. Environmental review of the site reports no significant concerns that would preclude development. There are also no significant cultural resources in the area, no known water quality issues, and no active mining within the reservoir area.



The advantages of this reservoir site are the few developmental concerns. However, it was rejected as a water supply alternative in the 1998 study due to costs. A large percentage of the total costs were associated with a water treatment and distribution system. Due to the relatively low yield of Rabbit Reservoir, this project could only be considered for local water supply.

#### 8.3.9 State Highway 322 Stage I

The Highway 322 Reservoir is a proposed local water supply project in Rusk County, upstream of Lake Cherokee. Figure 8-A.1 indicates the proposed location. The project, as originally proposed, was to be developed in two stages: 1) a dam and reservoir on Tiawichi Creek (Stage I), and 2) a separate dam and reservoir on Mill Creek (Stage II). The reservoirs were to be joined by a connecting channel that would allow one spillway to serve both dams.

The proposed Stage I dam is located on Tiawichi Creek, approximately one mile upstream of its confluence with the upper end of Lake Cherokee. The reservoir, at its normal operating elevation of 330 feet msl, would provide a net yield of 22,000 ac-ft per year. Its area and capacity would be 4,450 acres and 82,450 acre-feet, respectively. If Stage I is operated independently from Lake Cherokee, the firm yield of the reservoir would be reduced due to Lake Cherokee's superior water rights.

The primary developmental concern for the Stage I reservoir is active lignite mining. In 1995, the Oak Hill Mine expanded its current permit area to include approximately one third of the proposed Stage I reservoir area. There have been no environmental studies conducted for this site. Based on preliminary screening, the site is located outside priority bottomland hardwood areas, and there are no known water quality issues.

#### 8.3.10 State Highway 322 Stage II

The State Highway 322 - Stage II reservoir is the second phase of the State Highway 322 water supply project in Rusk County. The Stage II dam would be located on Mill Creek, approximately one mile upstream of the existing Lake Cherokee. Figure 8-A.1 indicates the proposed location. Operated at the same level as Stage I (330 feet msl), this project would provide an increased yield to the Cherokee Lake system of 13,000 ac-ft per year with added storage capacity of 112,000 acre-feet. Stage II surface area would be 2,060 acres. The State Highway 322 project (Stages I and II) and Lake Cherokee could be operated as a system to provide a total yield of 53,000 ac-ft per year and maintain the recreational and aesthetic benefits currently provided by Lake Cherokee. If State Highway 322 project were operated independently from Lake Cherokee, the firm yield would be reduced due to Lake Cherokee's superior water rights.

The primary developmental concern for Stage II is the active lignite mining. Surface mining records indicate that the Oak Hill Mine permit encompasses much of the Stage II reservoir. Preliminary screening indicates no priority bottomland hardwoods in the reservoir area, and there are no known water quality issues. The advantages to this reservoir site are its location near the areas with projected water needs and the possibility that when mining is completed, the site will already be cleared and ready for reservoir development.

#### 8.3.11 Stateline Reservoir

The Stateline Reservoir is a proposed main stem project on the Sabine River, approximately eight miles upstream of Logansport, Louisiana and about four miles upstream from the headwaters of Toledo Bend Reservoir. Figure 8-A.1 indicates the proposed location. The project site is located in the southeastern

section of Panola County and would have an estimated yield of 280,000 ac-ft per year. At the conservation level of 187 feet msl, the area and capacity would be 24,100 acres and 268,330 acre-feet, respectively.

Developmental concerns for this site include bottomland hardwoods, oil and gas wells, water quality, and permitting issues. The northern half of the site lies in a USFWS designated Priority 1 hardwood area. The southern half is a high-quality wetland area and currently being considered for a wetland mitigation bank by the Sabine River Authority of Texas. The mineral rights associated with the Carthage Oilfield significantly affect land acquisition for the reservoir. The Clean Rivers Program Water Quality data indicated possible concerns for elevated nutrient levels, metals, low dissolved oxygen, and fecal coliform. This segment of the stream is also a known habitat for several protected aquatic species. Permitting for this reservoir will require an act of Congress since the dam is located on navigable interstate waters of the U.S. (Rivers and Harbors Act, 1899). Construction of the dam and reservoir may also require consent of Louisiana for the part that will affect the state of Louisiana (Sabine River Compact). As currently proposed, the dam site is located immediately upstream of the Stateline reach and there is minimal impact to Louisiana lands. However, due to the close proximity of Toledo Bend Reservoir, it is unlikely that Stateline Reservoir would be more economical than Toledo Bend in meeting the needs of the Upper Basin.

#### 8.3.12 Socagee Reservoir

The Socagee Reservoir site is located in the eastern portion of Panola County on Socagee Creek, approximately six miles upstream of its mouth. Figure 8-A.1 indicates the proposed location. The reservoir, at normal pool elevation, would have a yield of 39,131 ac-ft per year. The reservoir area would be approximately 9,100 acres and the capacity would be about 160,000 acres.

Approximately 40 percent of the site overlies existing lignite deposits. As of 1986, there was no known exploitation of the lignite deposits, and there currently are no active mines within the area. One cultural resource site is reported in the reservoir boundary. There are no known water quality issues or priority bottomland hardwoods that affect this reservoir site. Socagee Reservoir could be used to meet the local needs of Panola County; however, Lake Murvaul, which has been designated for Panola County use only, has adequate yield to meet the future needs of Panola County.

#### 8.3.13 Fastrill Reservoir

Fastrill Reservoir is a long-standing project of the City of Dallas and Upper Neches River Municipal Water Authority, and the site was designated as unique by the Texas Legislature in 2007. Subsequently, actions at the federal level to designate a wildlife refuge within the footprint of the proposed lake have called into question the lake's ultimate viability. However, because of the site's designation by the Texas Legislature, the ETRWPG has decided not to eliminate it from the list of proposed reservoirs in the ETRWPA at this time. The reservoir would be located on the Neches River in Anderson and Cherokee Counties downstream of Lake Palestine and upstream of the Weches Dam site. The dam would be located at River Mile 288. Figure 8-A.2 indicates the proposed location. Normal pool elevation would be at an elevation of 274 ft msl and would have an area of 24,950 acres based on digital topographic information.

#### 8.4 LEGISLATIVE AND REGULATORY RECOMMENDATIONS

Rules in 31 Texas Administrative Code 357.43(d - f) state that regional water planning groups are to consider and make recommendations to the legislature regarding regulatory, administrative, or legislative issues that the group believes are needed and desirable to achieve the stated goals of state and regional water planning, including to:

- (1) Facilitate the orderly development, management, and conservation of water resources;
- (2) Prepare for and respond to drought conditions; or
- (3) Facilitate more voluntary water transfers in the region.

For this update of the regional water plan, the ETRWPG discussed legislative and regulatory recommendations. The Executive Committee of the ETRWPG also reviewed previous recommendations made pursuant to the planning process and evaluated new potential recommendations. Proposed recommendations were brought to the ETRWPG at the September 18, 2024, meeting for consideration. Following is a list of recommendations adopted by the ETRWPG on January 7, 2025.

The ETRWPG offers the following policy and legislative recommendations, divided by topic.

#### 8.4.1 Flexibility in Determining Water Plan Consistency

In previous planning cycles, the ETRWPG has expressed concerned that small cities and unincorporated areas that fall under the group of "county-other" may not have specific water needs and water management strategies identified in the regional water plan due to the nature of aggregating these entities. As such, there is concern that these entities may not be eligible for state funding assistance. The ETRWPG is also concerned that there is not sufficient flexibility in identifying and implementing water management strategies as it pertains to permitting and funding such projects. Water suppliers need to have a full range of options as they seek to provide new water supplies for Texas' future. It is impossible to foresee all the possibilities for new water supplies in a planning process such as this, and changing circumstances can change the timing, amounts, and preferred options for new supplies very quickly. The inclusion of alternate strategies in regional water planning is the first step in providing this flexibility. In addition, the ETRWPG recommends that the following steps be taken to address these concerns:

- The TWDB and the TCEQ should continue to interpret existing legislation to give the maximum possible flexibility to water suppliers as they seek to serve the public and provide new supplies. Changes in the timing of supply development, the order in which strategies are implemented, the amount of supply from a management strategy, or the details of a project should not be interpreted as making that project inconsistent with the regional plan. TWDB should continue to evaluate improvements to guidance and outreach to small systems as well as continue consistency waivers for funding commitments, taking RWPG input into consideration into such decisions.
- Willing buyer/willing seller transactions of water rights and treated water should continue to not be controlled by this regulation. Such transactions may be beneficial to all concerned and may simply not have been foreseen in the planning process.
- The TWDB and TCEQ should encourage and continue to make use of their ability to waive consistency requirements if local water suppliers elect strategies that differ from those in the regional plan. TWDB developed a January 2023 fact sheet outlining the waiver process (available at

https://www.twdb.texas.gov/waterplanning/rwp/education/WaterPlanning\_ConsistencyReview s.pdf)

In the previous round of planning, the TWDB has allowed for the use of sub-WUG planning, allowing for WUGs to be subdivided into sub-WUG level units for purposes of doing more detailed analysis and accounting to better account for and present water supplies and needs within, for example, county-other



WUGs. The 2026 Plan does not include any sub-WUGs, but the RWPG will consider the creation of such at the request of an existing utility, public water system, or representative of a geographic area within an ETRWPA WUG that meets the TWDB criteria for a sub-WUG.

#### 8.4.2 Continued Funding by the State of the Regional Water Planning Process on a Five-Year Cycle

The ETRWPG believes the grassroots planning effort created by Senate Bill 1 is important to the state of Texas and should be continued. In addition, the ETRWPG believes that the most fair and efficient method of financing continuation of this effort for future planning cycles is to continue funding of this effort by the state with administrative expenses for the region being provided from sources within the region. Improvement of data for the next planning cycle is very important, and state funding for those efforts needs to be made available.

The TWDB has requested additional funding for RWPGs through the agency's Legislative Appropriations Request (LAR). Additionally, the TWDB made changes to its administrative rules in 2021 to allow use of existing funds for limited administrative costs, including salaries and wages related to administrative work for the RWPG sponsors (designated political subdivision). These allowances and limitations are specified in the regional water planning grant contracts and should be continued.

#### 8.4.3 Unique Reservoir Designation

Two unique reservoir sites are located in the ETRWPA. Lake Columbia was designated as a unique reservoir site by the 78th Texas Legislature in 2003. Lake Fastrill was designated by the 80th Texas Legislature in 2007, subject to the following provision: "unless there is an affirmative vote by a proposed project sponsor to make expenditures necessary in order to construct or file applications for permits required in connection with the construction of the reservoir under federal or state law". Loss of this designation for Lake Columbia or Lake Fastrill could unnecessarily limit the ability of sponsors of these proposed reservoirs to develop these sites. The ETRWPG recommends that the designation of unique reservoir site for Lake Columbia and Lake Fastrill be retained through the current planning horizon, 2080.

#### 8.4.4 Water Reuse

The ETRWPG recommends that current regulations as they pertain to the reuse of treated wastewater (i.e., water reuse) should continue to be reviewed and amended, as necessary, to encourage the development of these resources.

The following updates towards water reuse have occurred since the last planning cycle:

- Direct Potable Reuse (DPR) Guidelines Effective Date: September 1, 2021
  - Senate Bill 905 from the 87th Legislative Session required the Texas Commission on Environmental Quality (TCEQ) to develop regulatory guidance for Direct Potable Reuse (DPR). This resulted in the creation of a guidance manual dated November 2022 outlining the rules and requirements for DPR projects in Texas.
- Changes to Chapter 321- Effective Date: June 18, 2023
  - Senate Bill 1289 from the 88th Legislative Session led to amendments in Chapter 321 of the Texas Administrative Code. These changes facilitate the onsite reuse of treated



wastewater by allowing reclaimed water production facilities to dispose of treated wastewater through a collection system to an associated domestic wastewater treatment facility, provided they have the necessary consents.

- Proposed Changes to Chapter 217
  - Proposed updates to Chapter 217 include new design criteria for domestic wastewater systems. These changes impact nonpotable reuse by setting minimum pressure and chlorination requirements, among other updates.

#### 8.4.5 Funding

In order to take advantage of the variety of funding options available through the TWDB, increased flexibility by the agency is needed.

For example, the TWDB does not provide for sufficient flexibility in categorical exclusions (CE), last updated in 2016, for Environmental Information Documents that are required for funding of water projects. An Environmental Information Document is a comprehensive impact assessment report prepared by the project proponent, which is required for federally funded projects that do not qualify for CE, but fall below the threshold for preparation of an Environmental Impact Statement. Although TWDB's rules for CEs in the State Revolving Fund (SRF) programs are consistent with the SRF requirements, increasing flexibility regarding these exclusions could maximize funding opportunities available for water projects.

The TWDB offers the Economically Distressed Areas Program (EDAP) to certain areas in need of water projects. The EDAP provides grants, loans, or combination grant/loans when requirements are met:

- for water and wastewater services;
- in economically distressed areas; and
- present facilities are inadequate to meet residents' minimal needs.

Although TWDB implements the EDAP funding programs within current statutory requirements, the requirements to meet the EDAP remain unchanged since the last cycle and are very difficult for local governments and areas to administer, causing otherwise eligible local governmental entities to elect to not pursue the EDAP funding. EDAP requirements are recommended to be revised to reduce unnecessary and difficult requirements for eligibility, including requirements for model subdivision planning.

#### 8.4.6 Uncommitted Surface Water

The Texas Water Code currently allows the TCEQ to cancel any water right, in whole or in part, for ten consecutive years of non-use. This rule inhibits long-term water supply planning as water supplies are often developed for ultimate capacity to meet needs far into the future. Some entities enter into contracts for supply that will be needed long after the first ten years. Many times, only part of the supply is used in the first ten years of operation.

The regional water plans identify water supply projects to meet water needs over a 50-year use period. In some cases, there are water supplies that are not currently fully utilized or new management strategies that are projected to be used beyond the 50-year planning period. To support adequate supply for future needs and encourage reliable water supply planning, the ETRWPG:



- Opposes unilateral cancellation of uncommitted water contracts/rights;
- Supports long term contracts that are required for future projects and drought periods; and
- Supports "interruptible" water supply contracts as a way to meet seasonal and short-term needs before long-term water rights are fully utilized.

#### 8.4.7 Standardized Processes for Regional Water Plan Development

The process of permitting a federal water project, such as a reservoir, is a long, detailed, and resource intensive project that must follow federal guidelines of the National Environmental Policy Act (NEPA) process. The ETRWPG recommends that the TWDB develop guidelines for regional water planning evaluations of federally permitted water projects that will produce documentation that can be integrated and used in the NEPA process. In addition, the TWDB is encouraged to continue to develop relationships with federal authorities to allow the use of the state and regional water planning population projections in the NEPA process.

The TWDB has coordinated with United States Army Corps of Engineers (USACE) and Environmental Protection Agency (EPA) on streamlining permitting processes for projects in the state water plan, including developing a better understanding of how population projections are developed for state planning efforts. TWDB should continue to work with these federal agencies to improve their understanding of the data developed during the water planning process.

#### 8.4.8 Funding for Additional Groundwater Modeling

The ETRWPG recommends that funding for groundwater modeling for development of desired future conditions (DFCs) and modeled available groundwater (MAGs) be provided to the TWDB. This would improve the development of DFCs and MAGs by enabling a consistent, standardized approach across Groundwater Conservation District (GCD) boundaries to groundwater modeling. In addition to funding models, funds should be made available to assist the Groundwater Management Areas with the expenses related to developing the DFCs. The Environmental Defense Fund (EDF) issued a January 2023 report recommending more funding for DFCs, but there has been no legislative action as of December 2024; however, the upcoming legislative session is anticipated to include some assistance to this issue.

#### 8.4.9 Clarification of Unique Stream Segment Criteria

Consideration of the designation of stream segments of unique ecological value (unique stream segments) is a component of regional water planning throughout the State. For some, however, there is a significant concern about the use of unique stream segments because of a lack of clarity about how the designation might be used in the future. In particular, there are concerns about the possibility of restriction of property rights for landowners adjacent to designated unique stream segments. The ETRWPA recommends clarifications be incorporated into the regional water planning process on a statewide basis. For example, the following was presented as House Bill 1016 of the 84th Texas Legislature (specific to the Region L Water Planning Area), providing clarification by stating that the designation of a river or stream segment as being of unique ecological value:

1. means only that a state agency or political subdivision of the state may not finance the actual construction of a reservoir in the designated segment;



- 2. does not affect the ability of a state agency or political subdivision of the state to construct, operate, maintain, or replace a weir, a water diversion, flood control, drainage, or water supply system, a low water crossing, or a recreational facility in the designated segment;
- 3. does not prohibit the permitting, financing, construction, operation, maintenance, or replacement of any water management strategy to meet projected water supply needs recommended in, or designated as an alternative in, the 2011 or 2021 Regional Water Plan, and
- 4. does not alter any existing property rights of an affected landowner.

#### REFERENCES

- Texas Parks and Wildlife Department: Ecologically Significant River and Stream Segments of Region I (East Texas), Regional Water Planning Area, September 2025, Austin [Online], Available URL: https://tpwd.texas.gov/landwater/water/conservation/water\_resources/water\_quantity/sigseg s/media/reports/region\_i/index.phtml, accessed December 2024.
- Texas Parks and Wildlife Department: Water Planning Data for Region I, Austin [Online], Available URL: https://tpwd.texas.gov/landwater/water/conservation/water\_resources/water\_quantity/sigseg s/regionc.phtm, accessed December 2024.

# **Appendix 8-A**

# **Proposed Reservoir Site Locations**

Chapter 8 of the 2026 Plan provides a description of proposed reservoirs in the ETRWPA. This appendix includes maps showing the locations of these proposed reservoirs.

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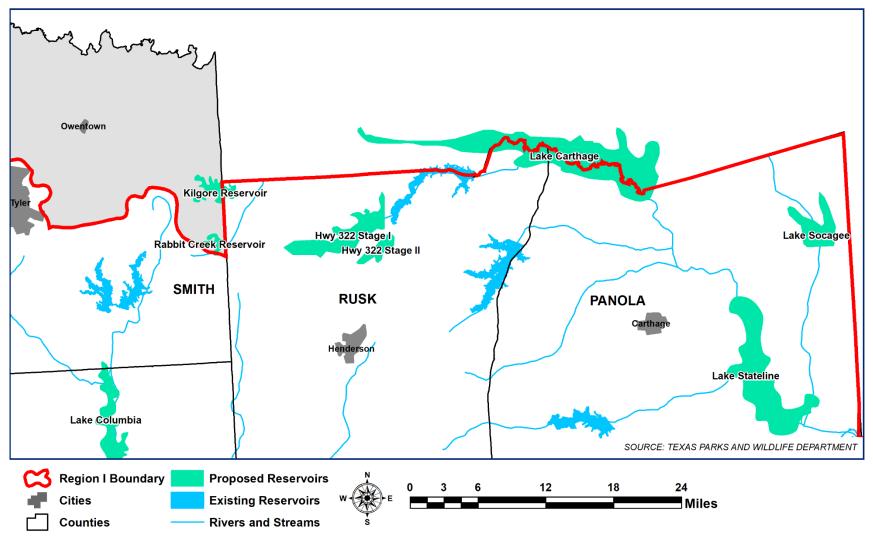


Figure 8-A.1: Proposed Reservoir Site Locations Northeast Area

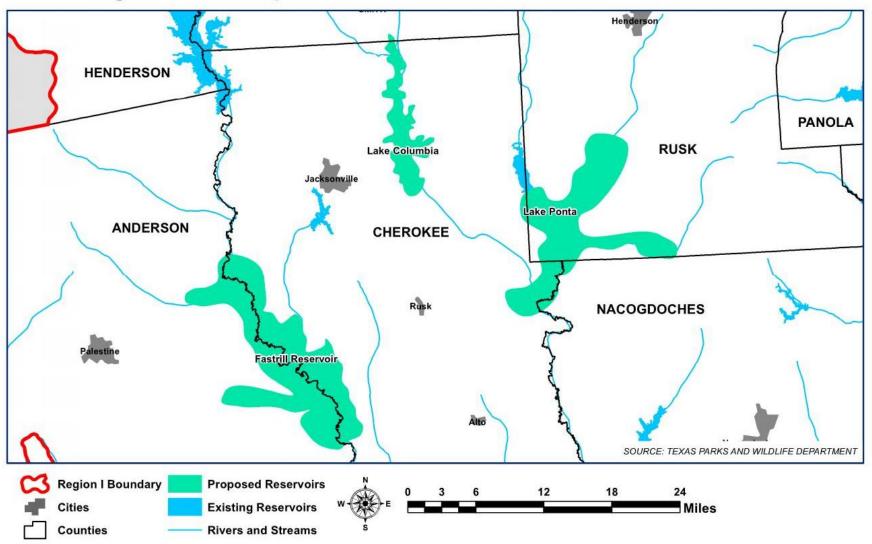
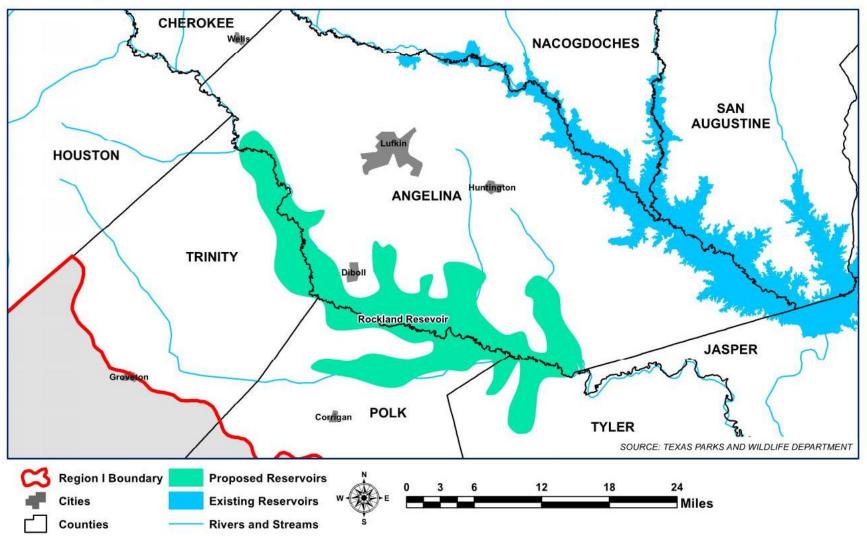


Figure 8-A.2: Proposed Reservoir Site Locations Northwest Area

2026 Initially Prepared Plan • East Texas Regional Water Planning Area



### Figure 8-A.3: Proposed Reservoir Site Locations Rockland Reservoir

East Texas Regional Water Planning Area • 2026 Initially Prepared Plan

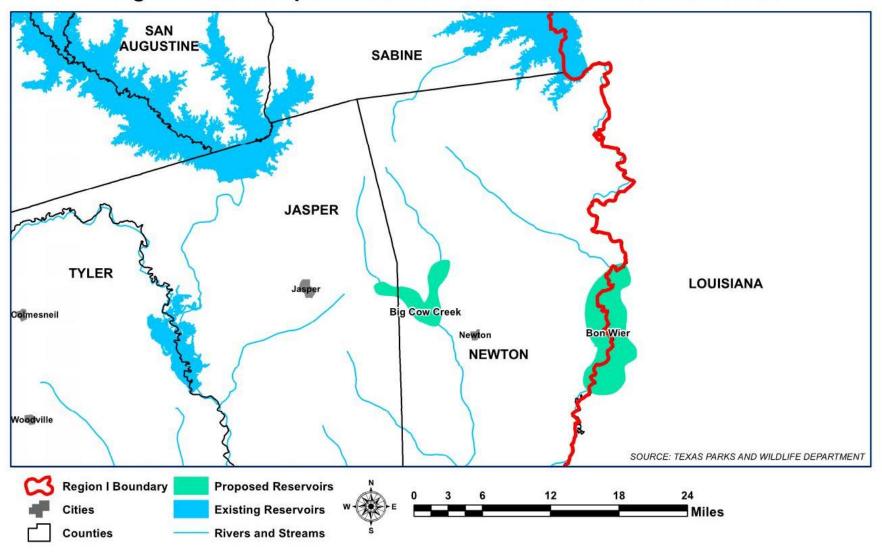


Figure 8-A.4: Proposed Reservoir Site Locations Eastern Area

East Texas Regional Water Planning Area • 2026 Initially Prepared Plan