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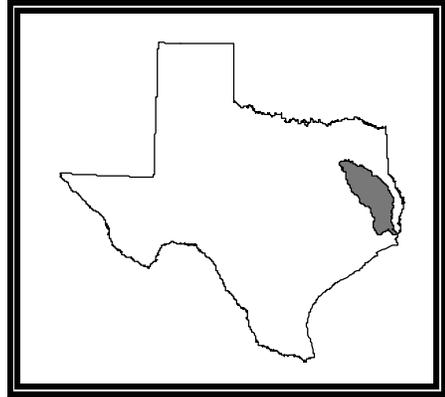
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# Basin 06

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## Neches River



## Neches River Basin Narrative Summary

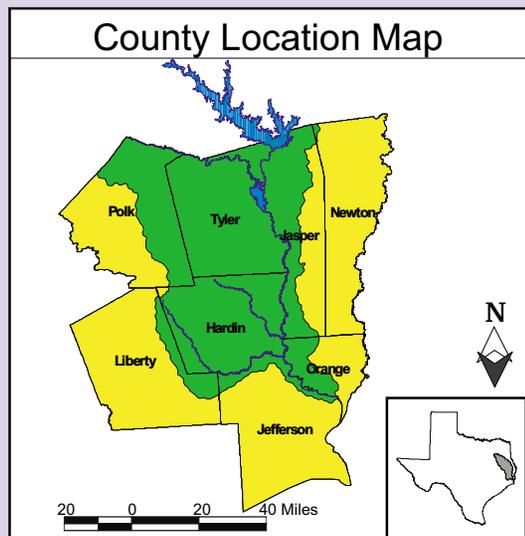
The Neches River originates in Van Zandt County and flows through the Pine Woods of East Texas before entering a highly industrialized area in Orange and Jefferson counties. The tidal portion of the river has been dredged to accommodate seagoing vessels. The northeastern one-third of the basin is drained by the Angelina River, while the remaining two-thirds of the 10,011 square-mile area are drained by the Neches River, Pine Island Bayou, and Village Creek. The river empties into the Sabine Lake estuary.

The economy in the extreme lower portion of the basin is based on chemical and petrochemical manufacturing, shipping activities, and commercial and recreational fishing. The economy in the upper and middle portions of the basin consists primarily of timber and wood products industry, agriculture, manufacturing, and oil, gas, and mineral production.

The Neches River Basin has been divided into 14 classified segments, including nine stream segments encompassing 750 stream miles and five reservoirs encompassing 159,960 acres. In addition, 28 unclassified water bodies were evaluated for the year 2000 assessment, including 27 stream segments encompassing 637 stream miles and one reservoir encompassing 3,584 acres. There are 110 active monitoring stations in the Neches River Basin.

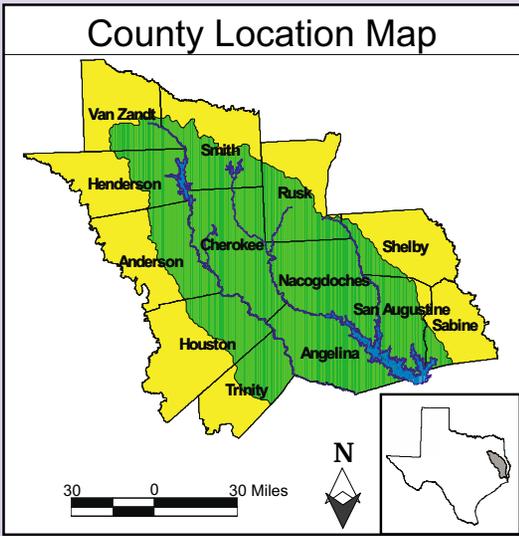
Low dissolved oxygen concentrations occur in two classified segments and seven unclassified water bodies. pH values that do not conform to criteria ranges occur in four classified segments. Elevated fecal coliform levels occur in three classified segments and 14 unclassified water bodies. General uses are not supported in one classified segment due to elevated total dissolved solids concentrations. Aquatic life uses are not supported in three classified segments and two unclassified water bodies due to elevated dissolved metals concentrations. The fish consumption use is not supported in one unclassified water body due to elevated levels of dissolved lead. The Texas Department of Health has issued fish consumption advisories for two classified segments (B.A. Steinhagen Lake and Sam Rayburn Reservoir) and one unclassified water body (Lake Kimball), due to elevated levels of mercury in fish tissue. Concerns exist for nutrients in three classified segments and six unclassified water bodies, for toxic substances in sediment in four classified segments, and for color and odor in one classified segment and one unclassified water body.

# Lower Neches River Basin Identified Water Quality Issues





# Upper Neches River Basin Identified Water Quality Issues





# Neches River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 0601 Neches River Tidal	Segment 0601A Star Lake Canal	Segment 0602 Neches River Below B.A. Steinhagen Lake	Segment 0602A Booger Branch	Segment 0603 B.A. Steinhagen Lake	Segment 0603A Sandy Creek	Segment 0603B Wolf Creek	Segment 0604 Neches River Below Lake Palestine	Segment 0604A Cedar Creek	Segment 0604B Hurricane Creek
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	S	S	S	NA	NA	N	S	N	N	N
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	X	S	X	S	X	X	S	X	X
<b>Fish Consumption</b>										
Human Health	S	NA	S	NA	NA	NA	NA	S	NA	NA
Advisories/Closures	S	NA	NA	NA	P	NA	NA	NA	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	S	P	S	P	NA	S	S	S	S	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	S	NA	S	NA	NA	NA	NA	S	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	S	NA	NA	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	S	X	S	X	NA	X	X	S	X	X
pH	S	X	S	X	NA	X	X	S	X	X
Chloride	X	X	S	X	NA	X	X	S	X	X
Sulfate	X	X	S	X	NA	X	X	S	X	X
Total Dissolved Solids	X	X	S	X	NA	X	X	S	X	X

S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern;  
 NA = Not Assessed; X = Not Applicable

**Neches River Basin Graphical Summary (Continued)**

Basin Map	Water Bodies									
	Segment 0601 Neches River Tidal	Segment 0601A Star Lake Canal	Segment 0602 Neches River Below B.A. Steinhagen Lake	Segment 0602A Booger Branch	Segment 0603 B.A. Steinhagen Lake	Segment 0603A Sandy Creek	Segment 0603B Wolf Creek	Segment 0604 Neches River Below Lake Palestine	Segment 0604A Cedar Creek	Segment 0604B Hurricane Creek
										
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	X	X	X	NA	NA	X	X	X	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	C	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NC	C	NC	NA	NA	NC	NC	NC	NA	NA
Nitrite + Nitrate Nitrogen	NC	C	NC	NA	NA	NC	NC	NC	NA	NA
Orthophosphorus	NC	C	NC	NA	NA	NA	NA	NC	NA	NA
Total Phosphorus	NC	C	NC	NA	NA	NA	NA	NC	NA	NA
Chlorophyll <i>a</i>	NC	NC	NC	NA	NA	NA	NA	NC	NA	NA
<b>Public Water Supply</b>										
Finished Water Chloride	X	X	NC	X	NC	X	X	NC	X	X
Finished Water Sulfate	X	X	NC	X	NC	X	X	NC	X	X
Finished Water TDS	X	X	NC	X	NC	X	X	NC	X	X
Surface Water Chloride	X	X	NC	X	NA	X	X	NC	X	X
Surface Water Sulfate	X	X	NC	X	NA	X	X	NC	X	X
Surface Water TDS	X	X	NC	X	NA	X	X	NC	X	X
<b>Aquatic Life</b>										
Dissolved Oxygen	X	X	X	X	NA	X	X	X	X	X
Metals in Water	X	NA	X	NA	NA	NA	NA	X	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Neches River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 0604C Jack Creek	Segment 0604D Piney Creek	Segment 0605 Lake Palestine	Segment 0605A Kickapoo Creek	Segment 0606 Neches River Above Lake Palestine	Segment 0606A Prairie Creek	Segment 0607 Pine Island Bayou	Segment 0607A Boggy Creek	Segment 0607B Little Pine Island Bayou	Segment 0607C Willow Creek
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	N	NA	S	N	S	S	N	NA	S	N
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	X	S	X	S	X	S	X	X	X
<b>Fish Consumption</b>										
Human Health	NA	NA	S	NA	S	S	NA	NA	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	S	S	S	S	S	S	N	P	N	N
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	S	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	NA	N	N	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	S	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	S	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	X	X	S	X	S	X	S	X	X	X
pH	X	X	S	X	S	X	P	X	X	X
Chloride	X	X	S	X	S	X	S	X	X	X
Sulfate	X	X	S	X	N	X	S	X	X	X
Total Dissolved Solids	X	X	S	X	N	X	S	X	X	X

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**Neches River Basin Graphical Summary (Continued)**

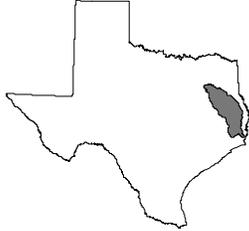
Basin Map	Water Bodies									
	Segment 0604C Jack Creek	Segment 0604D Piney Creek	Segment 0605 Lake Palestine	Segment 0605A Kickapoo Creek	Segment 0606 Neches River Above Lake Palestine	Segment 0606A Prairie Creek	Segment 0607 Pine Island Bayou	Segment 0607A Boggy Creek	Segment 0607B Little Pine Island Bayou	Segment 0607C Willow Creek
										
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	X	NA	X	X	X	X	X	NA	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	C	NA	NA	NA	NC	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	C	NC	NC	NA	NC	NC	NC	NA	NC	NC
Nitrite + Nitrate Nitrogen	NC	NC	C	NA	C	C	NC	NA	NC	NC
Orthophosphorus	NA	NA	NC	NA	NC	NC	NC	NA	NA	NA
Total Phosphorus	NA	NA	NC	NA	NC	NC	NC	NA	NA	NA
Chlorophyll <i>a</i>	NA	NA	NC	NA	NC	NC	NC	NA	NA	NA
<b>Public Water Supply</b>										
Finished Water Chloride	X	X	NC	X	NC	X	NC	X	X	X
Finished Water Sulfate	X	X	NC	X	NC	X	NC	X	X	X
Finished Water TDS	X	X	NC	X	NC	X	NC	X	X	X
Surface Water Chloride	X	X	NC	X	NC	X	NC	X	X	X
Surface Water Sulfate	X	X	NC	X	NC	X	NC	X	X	X
Surface Water TDS	X	X	NC	X	NC	X	NC	X	X	X
<b>Aquatic Life</b>										
Dissolved Oxygen	X	X	X	X	X	X	X	X	X	X
Metals in Water	NA	NA	NA	NA	X	X	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Neches River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 0608 Village Creek	Segment 0608A Beech Creek	Segment 0608B Big Sandy Creek	Segment 0608C Cypress Creek	Segment 0608D Hickory Creek	Segment 0608E Mill Creek	Segment 0608F Turkey Creek	Segment 0608G Lake Kimball	Segment 0609 Angelina River Below Sam Rayburn Res.	Segment 0610 Sam Rayburn Reservoir
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	S	S	N	N	N	NA	N	NA	S	S
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	X	X	X	X	X	X	X	S	S
<b>Fish Consumption</b>										
Human Health	NA	NA	NA	NA	NA	NA	NA	NA	S	S
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	P	NA	P
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	S	P	S	N	S	S	S	NA	S	N
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	NA	NA	NA	NA	NA	S	P
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
<b>GENERAL USE SUPPORT</b>										
Water Temperature	S	X	X	X	X	X	X	X	S	S
pH	N	X	X	X	X	X	X	X	S	P
Chloride	S	X	X	X	X	X	X	X	S	S
Sulfate	S	X	X	X	X	X	X	X	S	S
Total Dissolved Solids	S	X	X	X	X	X	X	X	S	S

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**Neches River Basin Graphical Summary (Continued)**

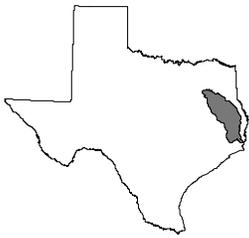
Basin Map	Water Bodies									
	Segment 0608 Village Creek	Segment 0608A Beech Creek	Segment 0608B Big Sandy Creek	Segment 0608C Cypress Creek	Segment 0608D Hickory Creek	Segment 0608E Mill Creek	Segment 0608F Turkey Creek	Segment 0608G Lake Kimball	Segment 0609 Angelina River Below Sam Rayburn Res.	Segment 0610 Sam Rayburn Reservoir
										
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	X	X	X	X	X	NA	X	NA	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NC
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	C
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	C
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NC	NC	NC	NC	NC	NA	NC	NA	NC	C
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	NC	NA	NC	NA	NC	NC
Orthophosphorus	NC	NA	NA	NA	NA	NA	NA	NA	NC	C
Total Phosphorus	NC	NA	NA	NA	NA	NA	NA	NA	NA	NC
Chlorophyll <i>a</i>	NC	NA	NA	NA	NA	NA	NA	NA	NA	NC
<b>Public Water Supply</b>										
Finished Water Chloride	NC	X	X	X	X	X	X	X	NC	NC
Finished Water Sulfate	NC	X	X	X	X	X	X	X	NC	NC
Finished Water TDS	NC	X	X	X	X	X	X	X	NC	NC
Surface Water Chloride	NC	X	X	X	X	X	X	X	NC	NC
Surface Water Sulfate	NC	X	X	X	X	X	X	X	NC	NC
Surface Water TDS	NC	X	X	X	X	X	X	X	NC	NC
<b>Aquatic Life</b>										
Dissolved Oxygen	X	X	X	X	X	X	X	NA	X	C
Metals in Water	NA	NA	NA	NA	NA	NA	NA	NA	X	X
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Neches River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 0610A Ayish Bayou	Segment 0610B Papermill Creek	Segment 0611 Angelina River Above Sam Rayburn Res.	Segment 0611A East Fork Angelina River	Segment 0611B Lanana Bayou	Segment 0611C Mud Creek	Segment 0611D West Mud Creek	Segment 0612 Attoyac Bayou	Segment 0612A Terrapin Creek	Segment 0612B Waffelow Creek
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	N	S	N	S	N	N	S	NA	S	N
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	X	S	X	X	X	X	S	X	X
<b>Fish Consumption</b>										
Human Health	NA	S	S	N	S	NA	S	S	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	S	S	S	S	S	S	S	S	S	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	S	N	NA	NA	NA	N	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	S	NA	NA	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	X	X	S	X	X	X	X	S	X	X
pH	X	X	S	X	X	X	X	S	X	X
Chloride	X	X	S	X	X	X	X	S	X	X
Sulfate	X	X	S	X	X	X	X	S	X	X
Total Dissolved Solids	X	X	S	X	X	X	X	S	X	X

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**Neches River Basin Graphical Summary (Continued)**

Basin Map	Water Bodies									
	Segment 0610A Ayish Bayou	Segment 0610B Papermill Creek	Segment 0611 Angelina River Above Sam Rayburn Res.	Segment 0611A East Fork Angelina River	Segment 0611B Lanana Bayou	Segment 0611C Mud Creek	Segment 0611D West Mud Creek	Segment 0612 Attoyac Bayou	Segment 0612A Terrapin Creek	Segment 0612B Wafflew Creek
										
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	X	X	X	X	X	X	X	C	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	C	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NC	C	NC	NC	C	NA	NC	NC	NC	NC
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	NC	NA	C	NC	NC	NC
Orthophosphorus	NA	NC	NC	NA	NA	NA	NA	NC	NC	NC
Total Phosphorus	NA	NC	NC	NA	NA	NA	NA	NA	NC	NC
Chlorophyll <i>a</i>	NA	NC	NC	NA	NA	NA	NA	NA	NC	NC
<b>Public Water Supply</b>										
Finished Water Chloride	X	X	NC	X	X	X	X	NC	X	X
Finished Water Sulfate	X	X	NC	X	X	X	X	NC	X	X
Finished Water TDS	X	X	NC	X	X	X	X	NC	X	X
Surface Water Chloride	X	X	NC	X	X	X	X	NC	X	X
Surface Water Sulfate	X	X	NC	X	X	X	X	NC	X	X
Surface Water TDS	X	X	NC	X	X	X	X	NC	X	X
<b>Aquatic Life</b>										
Dissolved Oxygen	X	X	X	X	X	X	X	X	X	X
Metals in Water	NA	NA	X	X	NA	NA	NA	X	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Neches River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 0613 Lake Tyler/Lake Tyler East	Segment 0614 Lake Jacksonville								
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	S	NA								
Noncontact Recreation	X	X								
Public Water Supply	S	S								
<b>Fish Consumption</b>										
Human Health	S	NA								
Advisories/Closures	NA	NA								
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	S	NA								
Dissolved Oxygen (24-Hour)	NA	NA								
Metals in Water	S	NA								
Organics in Water	NA	NA								
Water Toxicity Tests	NA	NA								
Sediment Toxicity Tests	NA	NA								
Macrobenthos	NA	NA								
Fish	NA	NA								
<b>GENERAL USE SUPPORT</b>										
Water Temperature	S	NA								
pH	N	NA								
Chloride	S	NA								
Sulfate	S	NA								
Total Dissolved Solids	S	NA								

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 NA = Not Assessed; X = Not Applicable

Basin Map	Water Bodies									
	Segment 0613 Lake Tyler/Lake Tyler East	Segment 0614 Lake Jacksonville								
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	X	NA								
Noncontact Recreation	X	X								
Fish Tissue	NA	NA								
Sediment	C	NA								
Narrative	NC	NC								
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NC	NA								
Nitrite + Nitrate Nitrogen	NC	NA								
Orthophosphorus	NC	NA								
Total Phosphorus	NC	NA								
Chlorophyll <i>a</i>	NC	NA								
<b>Public Water Supply</b>										
Finished Water Chloride	NC	NC								
Finished Water Sulfate	NC	NC								
Finished Water TDS	NC	NC								
Surface Water Chloride	NC	NA								
Surface Water Sulfate	NC	NA								
Surface Water TDS	NC	NA								
<b>Aquatic Life</b>										
Dissolved Oxygen	X	NA								
Metals in Water	X	NA								
Organics in Water	NA	NA								
Water Toxicity Tests	NA	NA								
Sediment Toxicity Tests	NA	NA								

# Neches River Basin

## Segment 0601 - Neches River Tidal

**Water body description:** From the confluence with the Sabine Lake in Orange County to a point 11.3 km (7.0 miles) upstream of IH 10 in Orange County

**Water body classification:** Classified

**Water body type:** Tidal Stream

**Water body length / area:** 27.00 Miles

**Use support summary:** Available data indicate that all uses are supported.

**Water quality concerns summary:** Oil and grease, arsenic, manganese, and nickel in sediment are concerns through the lower 14 miles.

### Monitoring sites used in the assessment

Station	Station Description
10563	Neches River at SH 87 Bridge north of Port Arthur
10566	Neches River at Port Neches City Park
10570	Neches River ½ mile below Mobil Canal
10575	Neches River Bridge at IH 10 near Beaumont

### Published studies

Publication	Date	Author
IMS 55 Neches River	July 1975	DelaCruz, A.(Region 13)
IS 60 Neches River	Sept. 1980	Davis, J.
IS 86-05 Neches River	Sept. 1985	Twidwell, S.
LP 89-07 Neches River	May 1987	Davis, J.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	11
Industrial	80

**Historical fish kills**

<b>Start date</b>	<b>Location</b>	<b>Fish killed</b>	<b>Suspected cause</b>
04/22/1995	Gulf States Utilities outfall canal	1,388	Inorganic compound
01/04/1996	3 miles SE of Beaumont on SH 347, Dupont works outfall canal (trib. to Neches River)	700	Temperature
06/22/1996	Canal at Dupont Riverworks off the Neches River	1,000,000	Low Dissolved Oxygen
09/24/1997	Bridge City, in marsh off Lake St.	200	Low Dissolved Oxygen

# Neches River Basin

## Segment 0601A - Star Lake Canal (unclassified water body)

**Water body description:** North of Groves in Jefferson County

**Water body classification:** Unclassified

**Water body type:** Tidal Stream

**Water body length / area:** 1.20 Miles

**Use support summary:** The aquatic life use is only partially supported due to depressed dissolved oxygen concentrations. The contact recreation use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Ammonia nitrogen, nitrite + nitrate nitrogen, orthophosphorus, and total phosphorus are concerns.

**Additional information:** A project is scheduled for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10485	Star Lake canal 0.4 km upstream of the Neches River

## Neches River Basin

### Segment 0602 - Neches River Below B. A. Steinhagen Lake

**Water body description:** From a point 11.3 km (7.0 miles) upstream of IH 10 in Orange County to Town Bluff Dam in Jasper/Tyler County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 88.00 Miles

**Use support summary:** Available data indicate that all uses are supported.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

#### Monitoring sites used in the assessment

Station	Station Description
10580	Neches River at US 96 east of Silsbee
10581	Neches River at FM 1013 east of Spurger
15343	Neches River near Lakeview, 14.5 km upstream of Pine Island Bayou confluence

#### Wastewater dischargers

Permit type	Number of outfalls
Domestic	3
Industrial	4

## Neches River Basin

### Segment 0602A - Booger Branch (unclassified water body)

**Water body description:** From the confluence of Massey Lake Slough south of Silsbee up to the upstream perennial portion of the stream in Silsbee in Hardin County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 6.00 Miles

**Use support summary:** The aquatic life use is only partially supported due to depressed dissolved oxygen concentrations. Other uses were not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is scheduled for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

#### Monitoring sites used in the assessment

Station	Station Description
16128	Booger Branch at Durdin Rd in Silsbee

# Neches River Basin

## Segment 0603 - B. A. Steinhagen Lake

**Water body description:** From Town Bluff Dam in Jasper/Tyler County to a point immediately upstream of the confluence of Hopson Mill Creek on the Neches River Arm in Jasper/Tyler County and to a point immediately upstream of the confluence of Indian Creek on the Angelina River Arm in Jasper County, up to the normal pool elevation of 83 feet (impounds Neches River).

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 13,700 Acres

**Use support summary:** The fish consumption use is only partially supported because of a restricted-consumption advisory issued in November 1995 by the Texas Department of Health due to elevated levels of mercury in fish tissue. The public water supply use is supported. The aquatic life and contact recreation uses were not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is underway for mercury in fish tissue to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

Wastewater dischargers	
Permit type	Number of outfalls
Domestic	2

# Neches River Basin

## Segment 0603A - Sandy Creek (unclassified water body)

**Water body description:** From the confluence of B. A. Steinhagen Lake southwest of Jasper in Jasper County to the confluence of Big and Little Sandy Creeks in Jasper in Jasper County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 23.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities in the lower 11.5 miles. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10484	Sandy Creek at FM 777 southwest of Jasper
16129	Sandy Creek at Main Street in Jasper

## Neches River Basin

### Segment 0603B - Wolf Creek (unclassified water body)

**Water body description:** From the confluence of B. A. Steinhagen Lake southeast of Colmesneil in Tyler County to the upstream perennial portion of the stream south of Colmesneil in Tyler County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 11.50 Miles

**Use support summary:** Available data indicate that the aquatic life and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

#### Monitoring sites used in the assessment

Station	Station Description
15344	Wolf Creek at FM 256, 6.1 km upstream of B.A. Steinhagen Reservoir

# Neches River Basin

## Segment 0604 - Neches River Below Lake Palestine

**Water body description:** From a point immediately upstream of the confluence of Hopson Mill Creek in Jasper/Tyler County to Blackburn Crossing Dam in Anderson/Cherokee County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 231.00 Miles

**Use support summary:** The contact recreation use is not supported through the upper 9 miles due to elevated fecal coliform densities. All other uses are supported.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10585	Neches River at US 69, 1.5 mi. NW of Rockland in Tyler County
10586	Neches River at US 59 south of Diboll
10588	Neches River at SH 21 southwest of Alto
10591	Neches River at US 175 east of Frankston
13627	Neches River at US 79, 4.4 mi. north of Neches, 1.0 mi. downstream from railroad bridge
14794	Neches River at SH 294 southwest of Rusk in Anderson County

**Published studies**

<b>Publication</b>	<b>Date</b>	<b>Author</b>
AS-23/IS Neches River	Aug-Sept 1992	Petrick, D

**Wastewater dischargers**

<b>Permit type</b>	<b>Number of outfalls</b>
Domestic	23
Industrial	21

# Neches River Basin

## Segment 0604A - Cedar Creek (unclassified water body)

**Water body description:** From the confluence of the Neches River southwest of Lufkin in Angelina County to the upstream perennial portion of the stream in Lufkin in Angelina County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 23.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

**Additional information:** A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10478	Cedar Creek at FM 2497 north of Diboll
10479	Cedar Creek at Loop 287 in Lufkin

# Neches River Basin

## Segment 0604B - Hurricane Creek (unclassified water body)

**Water body description:** From the confluence of Cedar Creek south of Lufkin in Angelina County to the upstream perennial portion of the stream in Lufkin in Angelina County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 4.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

**Additional information:** A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10487	Hurricane Creek at Loop 287 in Lufkin
13529	Hurricane Creek at SH 324, 1mi south of Lufkin

# Neches River Basin

## Segment 0604C - Jack Creek (unclassified water body)

**Water body description:** From the confluence of Cedar Creek southwest of Lufkin in Angelina County to the upstream perennial portion of the stream in northeast Lufkin in Angelina County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 16.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Ammonia nitrogen is a concern.

**Additional information:** A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10492	Jack Creek at FM 2497 southwest of Lufkin
10493	Jack Creek at SH 94 west of Lufkin

# Neches River Basin

## Segment 0604D - Piney Creek (unclassified water body)

**Water body description:** From the confluence of the Neches River at the Polk/Tyler/Angelina County lines east of Corrigan to the upstream perennial portion of the stream east of Crockett in Houston County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 70.00 Miles

**Use support summary:** Available data indicate that the aquatic life use is supported. Other uses were not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

### Monitoring sites used in the assessment

Station	Station Description
10530	Pine Creek at FM 2262, 4.5 mi. NE of Groveton
16081	Pine Creek at FM 1987, 3 mi. NE of Corrigan
16095	Pine Creek at recreation trail near the end of USFS Road 545, 6.5 mi. south of Kennard
16096	Pine Creek at FM 358, 6 mi. east of Pennington

# Neches River Basin

## Segment 0605 - Lake Palestine

**Water body description:** From Blackburn Crossing Dam in Anderson/Cherokee County to a point 6.7 km (4.2 miles) downstream of FM 279 in Henderson/Smith County, up to the normal pool elevation of 345 feet (impounds Neches River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 25,560 Acres

**Use support summary:** Available data indicate that all uses are supported.

**Water quality concerns summary:** Nitrite + nitrate nitrogen is a concern.

### Monitoring sites used in the assessment

Station	Station Description
10593	Lake Palestine mid-lake at SH155
10594	Lake Palestine at north end of Big Eddy Bay in Neches River Channel
10595	Lake Palestine at SH 31 northeast of Chandler
16159	Lake Palestine at dam equidistant from east and west shorelines

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	4
Domestic	17
Industrial	5

# Neches River Basin

## Segment 0605A - Kickapoo Creek (unclassified water body)

**Water body description:** From the confluence of Lake Palestine east of Brownsboro in Henderson County to the upstream perennial portion of the stream northeast of Murchinson in Henderson County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 31.00 Miles

**Use support summary:** The contact recreation use is not supported through the lower 25 miles due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

**Additional information:** A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10517	Kickapoo Creek at FM 314 near Brownsboro

## Neches River Basin

### Segment 0606 - Neches River Above Lake Palestine

**Water body description:** From a point 6.7 km (4.2 miles) downstream of FM 279 in Henderson/Smith County to Rhines Lake Dam in Van Zandt County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 27.00 Miles

**Use support summary:** General uses are not supported through the entire segment due to elevated average sulfate and total dissolved solids concentrations. Through the lower 8.5 miles, the aquatic life use is not supported because the mean dissolved zinc concentration exceeds the chronic criterion, and is only partially supported because instantaneous dissolved zinc concentrations occasionally exceed the acute criterion. The public water supply and fish consumption uses are supported.

**Water quality concerns summary:** Arsenic, manganese, selenium, and mercury in sediment are concerns throughout the entire segment. Nitrite + nitrate nitrogen is a concern through the lower 2 miles.

**Additional information:** A wasteload evaluation (WLE) for dissolved oxygen was approved in 1991 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

Projects are scheduled for total dissolved solids and zinc to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

**Additional information,  
continued:**

Data associated with the current proposal to revise the Texas Surface Water Quality Standards indicate that the appropriate criterion for evaluating the average concentration of sulfate in this segment is 50 mg/L. Although the average concentration of sulfate exceeds the current criterion, it does not exceed the revised, more appropriate criterion. Consequently, the TNRCC has not placed sulfate on the 2000 303(d) List.

**Monitoring sites used in the assessment**

Station	Station Description
10596	Neches River at FM 279 west of Tyler and NE of Chandler
10597	Neches River at SH 64 west of Tyler
10598	Neches River at county road at river km 53.4

**Published studies**

Publication	Date	Author
IS 2 Neches River	Aug. 1977	Woodard, J. (Region 5)
IS 47 Neches River	March 1982	Ottmers, D.

**Wastewater dischargers**

Permit type	Number of outfalls
Domestic	15
Industrial	2

**Historical fish kills**

Start date	Location	Fish killed	Suspected cause
04/11/1995	Black Fork Creek inside of Loop 323 in Tyler, TX	2	Low Dissolved Oxygen
07/17/1995	Trib of Black Fork Creek, 1 mi NW of intersection of Hwy 31 and Loop 323; TX Eastman	100	Organic compound
10/25/1995	Black Fork Creek on La Gloria Oil and Gas refinery	250	Organic compound

# Neches River Basin

## Segment 0606A - Prairie Creek (unclassified water body)

**Water body description:** From the confluence of the Neches River west of Tyler in Smith County to the upstream perennial portion of the stream south of Lindale in Smith County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 13.00 Miles

**Use support summary:** The aquatic life use is not supported through the entire length of the creek because the mean dissolved zinc concentration exceeds the chronic criterion. All other uses are supported.

**Water quality concerns summary:** Nitrite + nitrate nitrogen is a concern.

**Additional information:** A project is scheduled for zinc to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10518	Prairie Creek at SH 64 east of Tyler
10520	Prairie Creek at county road northwest of Tyler stream km 7.0

## Neches River Basin

### Segment 0607 - Pine Island Bayou

**Water body description:** From the confluence with the Neches River in Hardin/Jefferson County to FM 787 in Hardin County.

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 81.00 Miles

**Use support summary:** The aquatic life use is not supported through the upper 75 miles, and only partially supported through the lower 6 miles, due to depressed dissolved oxygen concentrations. The contact recreation use is not supported through the middle 25 miles due to elevated fecal coliform densities. General uses are only partially supported through the lower 43 miles due to low pH values. The public water supply use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A fish kill of undetermined magnitude occurred through an unspecified 1-mile reach in the segment in October, 1995, the cause of which was unknown.

Projects are scheduled for dissolved oxygen, pH, and bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10599	Pine Island Bayou at LNVA lower pump station 6.6 km upstream of Neches River confluence
10602	Pine Island Bayou at US 69 /US 96/US 287 at VOTH
10606	Pine Island Bayou at SH 105, 8 mi. east of Sour Lake
10607	Pine Island Bayou at old Sour Lake Road 5.1 SE of Sour Lake
10608	Pine Island Bayou at SH 326
15367	Pine Island Bayou at FM 770/SH 105 near Batson

### Published studies

Publication	Date	Author
IMS 75 Pine Island Bayou	Oct. 1975	Adsit/Hagen (Region 10)

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	9

# Neches River Basin

## Segment 0607A - Boggy Creek (unclassified water body)

**Water body description:** From the confluence of Pine Island Bayou south of Lumberton in Hardin County to the upstream perennial portion of the stream west of Lumberton in Hardin County.

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 12.00 Miles

**Use support summary:** The aquatic life use is only partially supported due to depressed dissolved oxygen concentrations. The contact recreation and fish consumption uses were not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

**Additional information:** A project is scheduled for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
16127	Boggy Creek at FM 421, 1.1mi west of US 69 near Lumberton

# Neches River Basin

## Segment 0607B - Little Pine Island Bayou (unclassified water body)

**Water body description:** From the confluence of Pine Island Bayou southwest of Lumberton in Hardin County to the upstream perennial portion of the stream west of Kountze in Hardin County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 50.00 Miles

**Use support summary:** The aquatic life use is not supported through the lower 25 miles due to depressed dissolved oxygen concentrations. The contact recreation use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is scheduled for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
15346	Little Pine Island Bayou at FM 326 north of Sour Lake
15545	Little Pine Island Bayou at Old White Oak Rd, 0.8 mi. SE of Thicket

# Neches River Basin

## Segment 0607C - Willow Creek (unclassified water body)

**Water body description:** From the confluence of Pine Island Bayou north of Nome in Jefferson County to the upstream perennial portion of the stream east of Devers in Liberty County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 15.00 Miles

**Use support summary:** The aquatic life use is not supported due to depressed dissolved oxygen concentrations. The contact recreation use is not supported due to elevated fecal coliform densities. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** Projects are scheduled for dissolved oxygen and fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
15345	Willow Creek at unnamed Rd North of Nome, 4.3 km upstream of Pine Island Bayou

# Neches River Basin

## Segment 0608 - Village Creek

**Water body description:** From the confluence with the Neches River in Hardin County to Lake Kimble Dam in Hardin County.

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 53.00 Miles

**Use support summary:** General uses are not supported through the upper 33 miles due to low pH values. The aquatic life, contact recreation, and public water supply uses are supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is scheduled for pH to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10609	Village Creek at US 96 south of Silsbee
13625	Village Creek at FM 418, 3.4 mi. NE of Kountze

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	10
Industrial	11

## Neches River Basin

### Segment 0608A - Beech Creek (unclassified water body)

**Water body description:** From the confluence of Village Creek northeast of Kountze in Hardin County to the upstream perennial portion of the stream southeast of Woodville in Tyler County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 39.00 Miles

**Use support summary:** The aquatic life use is only partially supported due to depressed dissolved oxygen concentrations. The contact recreation use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is scheduled for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

#### Monitoring sites used in the assessment

Station	Station Description
10529	Beech Creek at FM 1013 west of Spurger
15355	Beech Creek at FM 1943, west of Fred

# Neches River Basin

## Segment 0608B - Big Sandy Creek (unclassified water body)

**Water body description:** From the confluence of Village Creek northwest of Kountze in Hardin County to the upstream perennial portion of the stream northeast of Livingston in Polk County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 41.00 Miles

**Use support summary:** The contact recreation use is not supported through the upper 25 miles due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
15353	Big Sandy Creek at US 190 in Alabama Coushatta Indian Reservation

# Neches River Basin

## Segment 0608C - Cypress Creek (unclassified water body)

**Water body description:** From the confluence of Village Creek east of Kountze in Hardin County to the upstream perennial portion of the stream northwest of Kountze in Hardin County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 24.00 Miles

**Use support summary:** The aquatic life use is not supported due to depressed dissolved oxygen concentrations. The contact recreation use is not supported due to elevated fecal coliform densities. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** Projects are scheduled for dissolved oxygen and fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
15352	Cypress Creek at US 69 (US 287) SE of Kountze

# Neches River Basin

## Segment 0608D - Hickory Creek (unclassified water body)

**Water body description:** From the confluence of Village Creek north of Kountze in Hardin County to the upstream perennial portion of the stream south of Woodville in Tyler County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 24.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
15349	Hickory Creek at US 69 south of Warren

# Neches River Basin

## Segment 0608E - Mill Creek (unclassified water body)

**Water body description:** From the confluence of Village Creek southwest of Silsbee in Hardin County to the upstream perennial portion of the stream northwest of Silsbee in Hardin County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 8.00 Miles

**Use support summary:** Available data indicate that the aquatic life use is supported. The contact recreation and fish consumption uses were not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

### Monitoring sites used in the assessment

Station	Station Description
16126	Mill Creek at FM 418, 2.7mi west of Silsbee

# Neches River Basin

## Segment 0608F - Turkey Creek (unclassified water body)

**Water body description:** From the confluence of Village Creek north of Kountze in Hardin County to the upstream perennial portion of the stream southeast of Woodville in Tyler County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 29.00 Miles

**Use support summary:** The contact recreation use is not supported through the upper 25 miles due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
15356	Turkey Creek at FM 1013, east of Hillister

## Neches River Basin

### Segment 0608G - Lake Kimball (unclassified water body)

**Water body description:** From Kimble Creek Dam northwest of Kountze in Hardin County to normal pool elevation in Tyler County (impounds Kimble and Village Creeks)

**Water body classification:** Unclassified

**Water body type:** Reservoir

**Water body length / area:** 3,584 Acres

**Use support summary:** The fish consumption use is only partially supported because of a restricted-consumption advisory issued in April 1999 by the Texas Department of Health due to elevated levels of mercury in fish tissue. Other uses were not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

**Additional information:** A project is underway for mercury in fish tissue to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

# Neches River Basin

## Segment 0609 - Angelina River Below Sam Rayburn Reservoir

**Water body description:** From a point immediately upstream of the confluence of Indian Creek in Jasper County to Sam Rayburn Dam in Jasper County.

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 18.00 Miles

**Use support summary:** Available data indicate that all uses are supported.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

### Monitoring sites used in the assessment

Station	Station Description
10610	Angelina River at SH 63 north of Jasper

### Published studies

Publication	Date	Author
IS 3 Angelina River	May 1977	Adsit/Hagen (Region 10)

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	2

## Neches River Basin

### Segment 0610 - Sam Rayburn Reservoir

**Water body description:** From Sam Rayburn Dam in Jasper County to the aqueduct crossing 1.0 km (0.6 miles) upstream of the confluence of Paper Mill Creek on the Angelina River Arm in Angelina/Nacogdoches County and to a point 3.9 km (2.4 miles) downstream of Curry Creek on the Attoyac Bayou Arm in Nacogdoches/San Augustine County, up to the normal pool elevation of 164 feet (impounds Angelina River).

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 114,500 Acres

**Use support summary:** The aquatic life use is not supported in 5,120 acres at the upper end of the Angelina River arm downstream of Papermill Creek, and partially supported in five other areas, due to depressed dissolved oxygen concentrations (3 acres at the extreme upper end of Angelina River arm upstream of Papermill Creek, and 5,120 acres in each of the following areas: middle portion of the Angelina River arm near SH 103; lower portion of the Angelina River arm midway between SH 103 and SH 147; lower portion of Attoyac Bayou arm; and upper portion of Ayish Bayou arm). In 3 acres at the extreme upper end of the Angelina River arm upstream of Papermill Creek, the aquatic life use is not supported because of suboptimal fish community characteristics. The aquatic life use is partially supported in 5,120 acres in the middle portion of the Angelina River arm near SH 103 because dissolved aluminum concentrations exceed the acute aquatic life criterion at a 25% frequency.

**Use support summary  
(continued):**

The fish consumption use is partially supported throughout the reservoir because of a restricted-consumption advisory issued by the Texas Department of Health in November 1995 due to elevated levels of mercury in fish tissue. General uses are partially supported in the main body of the reservoir near SH 147 because pH values are outside the criterion range (less than and greater than the range at different times). The public water supply use is supported.

**Water quality concerns  
summary:**

Dissolved oxygen is an aquatic life concern in the Attoyac Bayou arm near SH 103. Oil and grease, arsenic, manganese, and nickel in sediment are concerns at numerous locations throughout the reservoir. Ammonia nitrogen and orthophosphorus are concerns at several locations throughout the reservoir. In the upper end of the Angelina River arm, water color and odor are concerns.

**Additional information:**

A project is underway for mercury in fish tissue to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program.

Projects are scheduled for aluminum, dissolved oxygen, and pH to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program.

For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

**Monitoring sites used in the assessment**

<b>Station</b>	<b>Station Description</b>
10612	Sam Rayburn Reservoir at SH 147 Bridge SW of Broaddus and NE of Zavalla
10613	Sam Rayburn Reservoir at SH 103, 2.3 mi. west of Etoile
10614	Sam Rayburn Reservoir at SH 103, 6.5 mi. east of Etoile
10619	Sam Rayburn Reservoir downstream, 2.0 km from Paper Mill Creek confluence.

### Monitoring sites, continued

Station	Station Description
10621	Sam Rayburn Reservoir Angelina River 0.7 km downstream of confluence with Paper Mill Creek lower channel
10623	Sam Rayburn Reservoir 0.75km upstream of confluence. of Paper Mill Creek
14906	Sam Rayburn Reservoir at main pool approximately 0.94 km north of the power plant intake
14907	Sam Rayburn Reservoir at FM 83 Bridge crossing approximately 14.5 km west of Pineland
15666	Sam Rayburn Reservoir USGS site NC
15667	Sam Rayburn Reservoir USGS site IC
15668	Sam Rayburn Reservoir USGS site KC
15669	Sam Rayburn Reservoir USGS site JC
15670	Sam Rayburn Reservoir USGS site GC
15671	Sam Rayburn Reservoir USGS site FC
15672	Sam Rayburn Reservoir USGS site CC
15673	Sam Rayburn Reservoir USGS site AC
15674	Sam Rayburn Reservoir USGS site LC
15675	Sam Rayburn Reservoir USGS site MC

### Published studies

Publication	Date	Author
IMS 12 Sam Rayburn Reservoir	Nov. 1973	Kirkpatrick, J.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	16
Industrial	13

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
07/03/1998	Sam Rayburn Reservoir- main pool below SH 147 - 1.5 miles NW of R255 @ FM 1007	1,771	Unknown

# Neches River Basin

## Segment 0610A - Ayish Bayou (unclassified water body)

**Water body description:** From the confluence of Sam Rayburn Reservoir south of San Augustine in San Augustine County to the upstream perennial portion of the stream north of San Augustine in San Augustine County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 32.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is underway for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
15361	Ayish Bayou at SH 103, 0.8 km east of FM 705
15364	Ayish Bayou at SH 147, 0.2 km south of San Augustine
15365	Ayish Bayou at FM 3230, 3.0 km north of San Augustine

## Neches River Basin

### Segment 0610B - Papermill Creek (unclassified water body)

**Water body description:** From the confluence of Sam Rayburn Reservoir (Angelina River Arm) northeast of Lufkin in Angelina County to the upstream perennial portion of the stream in Lufkin in Angelina County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 9.00 Miles

**Use support summary:** Available data indicate that all uses are supported.

**Water quality concerns summary:** Ammonia nitrogen, water color, and water odor are concerns.

#### Monitoring sites used in the assessment

Station	Station Description
10502	Paper Mill Creek upper bifurcation channel, just upstream of Angelina River confluence

# Neches River Basin

## Segment 0611 - Angelina River Above Sam Rayburn Reservoir

**Water body description:** From the aqueduct crossing 1.0 km (0.6 miles) upstream of the confluence of Paper Mill Creek in Angelina/ Nacogdoches County to the confluence of Barnhardt Creek and Mill Creek at FM 225 in Rusk County.

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 104.00 Miles

**Use support summary:** The contact recreation use is not supported through the middle 16 miles due to elevated fecal coliform densities. All other uses are supported.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10627	Angelina River Bridge on US 59 north of Lufkin
10630	Angelina River at SH 21 east of Alto
10633	Angelina River at SH 204 west of Cushing
14470	Angelina River at US 84 east of Reklaw

**Published studies**

<b>Publication</b>	<b>Date</b>	<b>Author</b>
IMS 81 Angelina River	Sept. 1977	Rathburn, D.
IS 76 Angelina River	Sept. 1984	Davis, J.
LP 88-07 West Mud Creek	Aug. 1988	Weber, T. (Region 5)

**Wastewater dischargers**

<b>Permit type</b>	<b>Number of outfalls</b>
Agriculture	6
Domestic	20
Industrial	12

## Neches River Basin

### Segment 0611A - East Fork Angelina River (unclassified water body)

**Water body description:** From the confluence of the Angelina River at the Rusk/Nacogdoches county line to the upstream perennial portion of the stream west of Mount Enterprise in Rusk County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 30.00 Miles

**Use support summary:** The aquatic life use is not supported because the average dissolved lead concentration exceeds the chronic criterion. The fish consumption use is not supported due to exceedance of the human health criterion by the average lead concentration. The contact recreation use is supported.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is scheduled for lead to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

#### Monitoring sites used in the assessment

Station	Station Description
10551	East Fork Angelina River at lowermost county rd crossing, near Angelina River confluence
10552	East Fork Angelina River at FM 225
13788	East Fork Angelina River approximately 5 mi SW of Mount Enterprise at CR 3218

**Monitoring sites, continued**

<b>Station</b>	<b>Station Description</b>
16290	East Fork Angelina River at Rusk CR 3216, 1.9mi. Downstream of US 84, SW of Henderson
16304	East Fork Angelina River at Nacogdoches CR 3230, 2.3km north of Happy Valley

# Neches River Basin

## Segment 0611B - La Nana Bayou (unclassified water body)

**Water body description:** From the confluence of the Angelina River south of Nacogdoches in Nacogdoches County to the upstream perennial portion of the stream north of Nacogdoches in Nacogdoches County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 32.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life and fish consumption uses are supported.

**Water quality concerns summary:** Ammonia nitrogen is a concern.

**Additional information:** A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10474	La Nana Bayou at Nacogdoches CR 526, 6.9 mi. south of Nacogdoches between FM 2863 and FM 1275
10475	La Nana Bayou at Loop 224 south of Nacogdoches
16301	La Nana Bayou at Loop 224 north in the City of Nacogdoches

# Neches River Basin

## Segment 0611C - Mud Creek (unclassified water body)

**Water body description:** From the confluence of the Angelina River east of Rusk in Cherokee County to the upstream perennial portion of the stream west of Troup in Smith County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 51.00 Miles

**Use support summary:** The contact recreation use is not supported through the lower 35 miles due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

**Additional information:** A project is underway for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10532	Mud Creek at US 84 SW of Reklaw
14477	Mud Creek at US 79 between Jacksonville and New Summerfield

## Neches River Basin

### Segment 0611D - West Mud Creek (unclassified water body)

**Water body description:** From the confluence of Mud Creek southwest of Troup in Cherokee County to the upstream perennial portion of the stream south of Tyler in Smith County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 23.00 Miles

**Use support summary:** Available data indicate that all uses are supported.

**Water quality concerns summary:** Nitrite + nitrate nitrogen is a concern.

#### Monitoring sites used in the assessment

Station	Station Description
10539	West Mud Creek at FM 344 NE of Bullard
10540	West Mud Creek at FM 346 south of Tyler
10542	West Mud Creek immediately upstream from Tyler southside STP outfall (permit# WQ001653-002), 10.2km upstream of FM 2813

# Neches River Basin

## Segment 0612 - Attoyac Bayou

**Water body description:** From a point 3.9 km (2.4 miles) downstream of Curry Creek in Nacogdoches/San Augustine County to FM 95 in Rusk County.

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 121.00 Miles

**Use support summary:** The aquatic life use is not supported through the lower 37 miles because mean dissolved cadmium and lead concentrations exceed the chronic criteria. The fish consumption, public water supply and general uses are supported. The contact recreation use was not assessed due to insufficient data.

**Water quality concerns summary:** Fecal coliform is a concern through the upper 84 miles.

**Additional information:** Projects are scheduled for cadmium and lead to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10636	Attoyac Bayou at SH 21 East of Chireno
15253	Attoyac Bayou at SH 7 approximately 1.75 km NE of Martinsville
16076	Attoyac Bayou at US 59 NE of Garrison

**Wastewater dischargers**

<b>Permit type</b>	<b>Number of outfalls</b>
Domestic	4
Industrial	2

## Neches River Basin

### Segment 0612A - Terrapin Creek (unclassified water body)

**Water body description:** From the confluence of Attoyac Bayou east of Martinsville in Nacogdoches County to the upstream perennial portion of the stream northwest of Martinsville in Nacogdoches County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 8.50 Miles

**Use support summary:** Available data indicate that the aquatic life and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

#### Monitoring sites used in the assessment

Station	Station Description
16082	Terrapin Creek at Nacogdoches CR 234, 5 mi. NW of Martinsville
16084	Terrapin Creek at SH 95, 1 mi. south of Martinsville

# Neches River Basin

## Segment 0612B - Waffelow Creek (unclassified water body)

**Water body description:** From the confluence of Attoyac Bayou north of Martinsville in Nacogdoches to the upstream perennial portion of the stream northeast of Nacogdoches in Nacogdoches County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 10.50 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

**Additional information:** A project is underway for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
16083	Waffelow Creek at SH 95, 4 mi. north of Martinsville
16085	Waffelow Creek at FM 1878, 8.5 mi. NE of Loop 224 in Nacogdoches

# Neches River Basin

## Segment 0613 - Lake Tyler/Lake Tyler East

**Water body description:** From Whitehouse Dam and Mud Creek Dam in Smith County up to the normal pool elevation of 375.38 feet (impounds Prairie Creek and Mud Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 4,880 Acres

**Use support summary:** General uses are not supported throughout the reservoir due to low pH values. The aquatic life, public water supply, fish consumption, and contact recreation uses are supported.

**Water quality concerns summary:** Oil and grease, arsenic, nickel, barium, and manganese in sediment are concerns.

**Additional information:** A fish kill occurred in the Omen Cove area in October, 1996, the cause of which was unknown.

A project is scheduled for pH to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
10637	Lake Tyler midlake at dam in Spillway Bay equidistant from all shorelines
10638	Lake Tyler east midlake near dam
14230	Lake Tyler in Gilley Creek arm near FM 848

**Monitoring sites, continued**

<b>Station</b>	<b>Station Description</b>
14235	Lake Tyler east at SH 64 in upper lake
15210	Lake Tyler at Langley Island approximately 100 meters west of City of Tyler's water intake structure

**Wastewater dischargers**

<b>Permit type</b>	<b>Number of outfalls</b>
Domestic	5

**Historical fish kills**

<b>Start date</b>	<b>Location</b>	<b>Fish killed</b>	<b>Suspected cause</b>
10/13/1996	Lake Tyler - Omen Cove boat ramp at East side	23	Unknown

# Neches River Basin

## Segment 0614 - Lake Jacksonville

**Water body description:** From Buckner Dam in Cherokee County up to the normal pool elevation of 422 feet (impounds Gum Creek).

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 1,320 Acres

**Use support summary:** Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no water quality concerns.

### Monitoring sites used in the assessment

Station	Station Description
10639	Lake Jacksonville approx 100m upstream of dam and equidistant from both shorelines

### Wastewater dischargers

Permit type	Number of outfalls
Industrial	1