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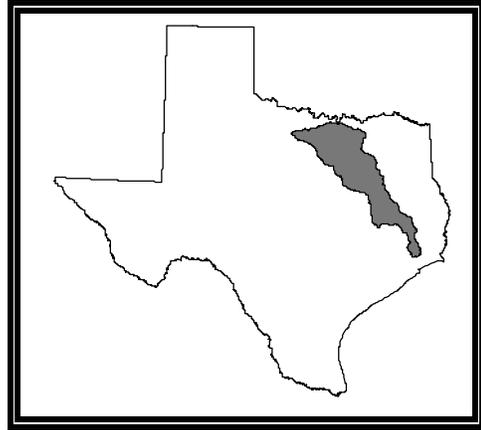
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# Basin 08

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## Trinity River



## Trinity River Basin Narrative Summary

Four forks of the Trinity River drain a large portion of north central Texas before merging into a single stream that flows south-southeastward and discharges into Trinity Bay on the Texas coast. The longest fork, the West Fork, originates in southeastern Archer County and flows across Jack, Wise, and Tarrant counties before joining the main stem in Dallas County. The Clear Fork originates in Parker County and flows southeastward, merging with the West Fork in Tarrant County. The Elm Fork originates near the Montague County line and flows across Cooke and Denton counties, converging with the West Fork in Dallas County. The river is called the Trinity downstream of the West Fork/Elm Fork confluence. The East Fork originates in Cooke County and flows southward through Collin and Kaufman counties, joining the main stem at the Kaufman/Ellis county line. The total drainage area of the system is 17,969 square miles and includes parts of 34 counties. The Trinity River Basin has the largest population of any river basin in Texas, the Dallas/Fort Worth metropolitan area alone containing more than three million people.

Major reservoirs in the basin include Lake Bridgeport, Eagle Mountain Lake, and Lake Worth on the West Fork; Lake Weatherford and Benbrook Lake on the Clear Fork; Ray Roberts Lake and Lewisville Lake on the Elm Fork; Lavon Lake and Lake Ray Hubbard on the East Fork; and Lake Livingston on the main stem. In addition, 11 major reservoirs exist on smaller tributaries, mostly in the Dallas/Fort Worth area.

The Trinity River Basin has been divided into 41 classified segments, including 20 stream segments encompassing 857 stream miles and 21 reservoirs encompassing 319,013 acres. In addition, six unclassified water bodies were evaluated for the year 2000 assessment, including two stream segments encompassing 54 stream miles and four reservoirs encompassing 2,748 acres. There are 93 active monitoring stations in the Trinity River Basin.

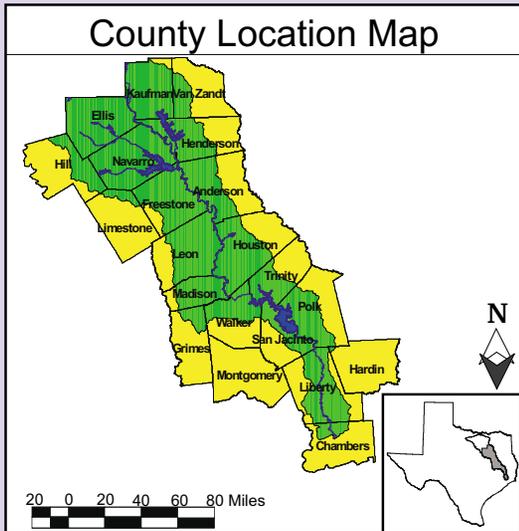
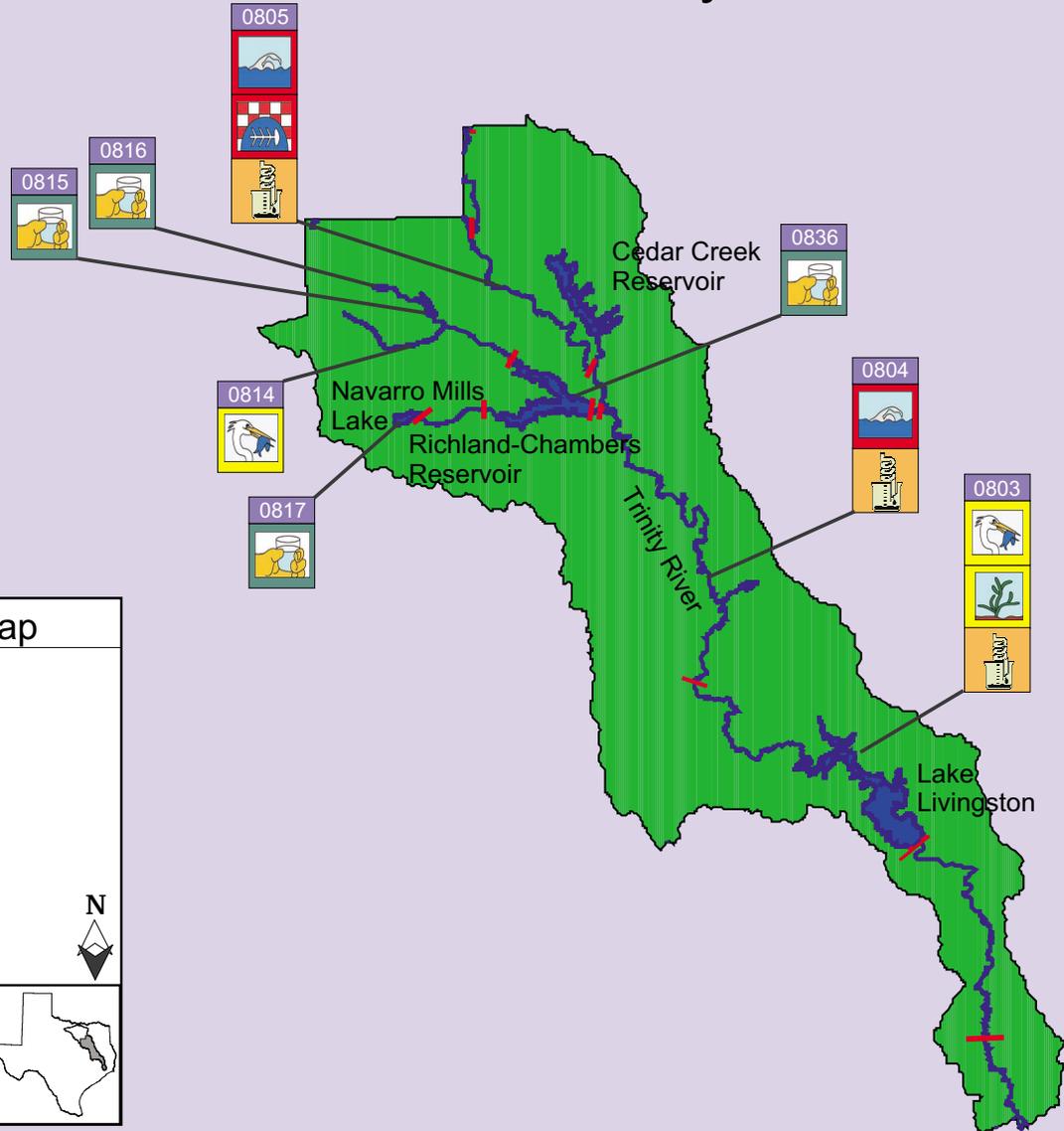
Water quality in the Trinity River is affected by effluents from a number of large municipal wastewater treatment plants in the Dallas/Fort Worth area, as well as stormwater runoff from urbanized areas. In the past, water quality in portions of the upper Trinity River system, especially the East Fork, was among the poorest in the state. More efficient wastewater treatment and heightened public awareness have resulted in improved water quality and aquatic life enhancement. However, certain problems still exist, mainly during dry weather, when streamflow is effluent-dominated.

Low dissolved oxygen concentrations occur in four classified segments. pH values that do not conform to the criteria range occur in one classified segment. Elevated fecal coliform levels occur in six classified segments.

General uses are not supported in two classified segments due to elevated dissolved solids concentrations. The public water supply use is not supported in six classified segments due to elevated atrazine concentrations. The Texas Department of Health has issued fish consumption advisories for four classified segments due to elevated levels of chlordane in fish tissue, and for four unclassified reservoirs due to elevated levels of pesticides in fish tissue. Concerns exist for nutrients in eight classified segments.

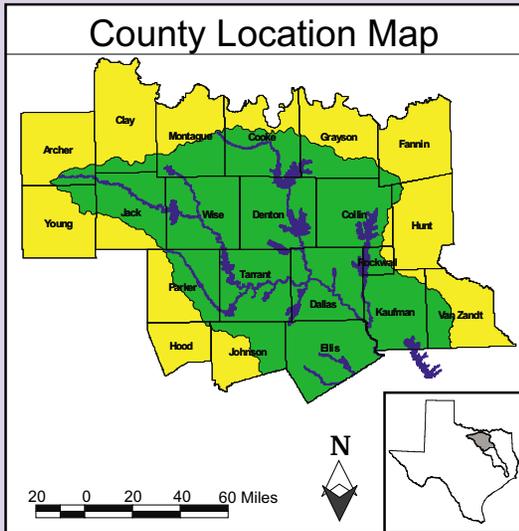
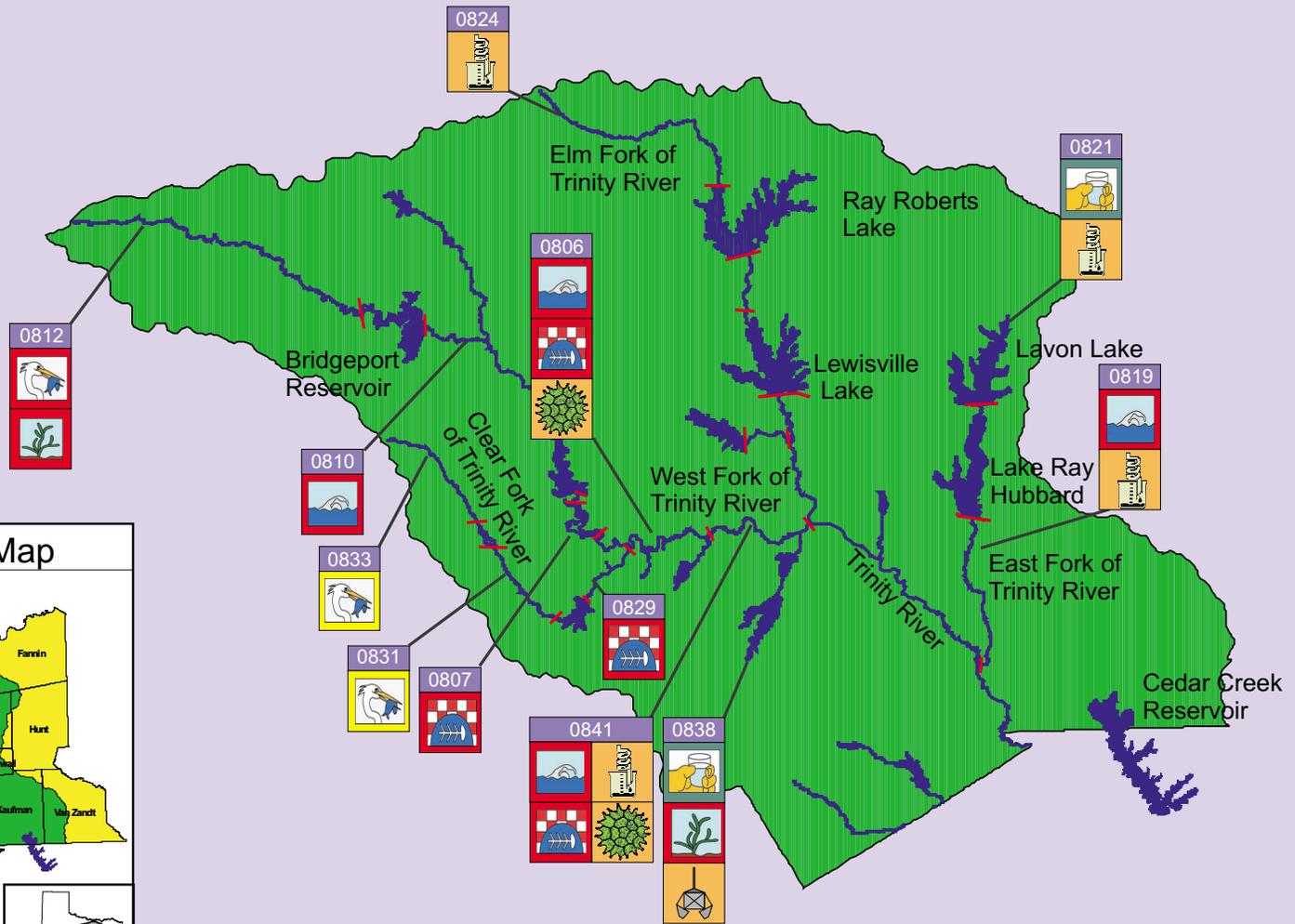


# Lower Trinity River Basin Identified Water Quality Issues





# UpperTrinity River Basin Identified Water Quality Issues



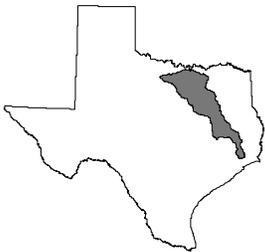


# Trinity River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 0801 Trinity River Tidal	Segment 0802 Trinity River Below Lake Livingston	Segment 0803 Lake Livingston	Segment 0803A Harmon Creek	Segment 0803B White Rock Creek	Segment 0804 Trinity River Above Lake Livingston	Segment 0805 Upper Trinity River	Segment 0806 W. F. Trinity River Below Lake Worth	Segment 0806A Fosdic Lake	Segment 0806B Echo Lake
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	S	S	NA	NA	NA	N	N	N	NA	NA
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	S	S	X	X	X	X	S	X	X
<b>Fish Consumption</b>										
Human Health	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Advisories/Closures	NA	NA	S	NA	NA	NA	N	N	N	N
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	S	S	P	S	NA	S	S	S	NA	NA
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	S	NA	S	S	S	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	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	S	S	S	X	X	S	S	S	X	X
pH	S	S	P	X	X	S	S	S	X	X
Chloride	X	S	S	X	X	S	S	S	X	X
Sulfate	X	S	S	X	X	S	S	S	X	X
Total Dissolved Solids	X	S	S	X	X	S	S	S	X	X

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

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

Basin Map	Water Bodies									
	Segment 0801 Trinity River Tidal	Segment 0802 Trinity River Below Lake Livingston	Segment 0803 Lake Livingston	Segment 0803A Harmon Creek	Segment 0803B White Rock Creek	Segment 0804 Trinity River Above Lake Livingston	Segment 0805 Upper Trinity River	Segment 0806 W. F. Trinity River Below Lake Worth	Segment 0806A Fosdic Lake	Segment 0806B Echo Lake
										
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	X	X	X	NA	NA	X	X	NA	NA	NA
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	NC	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NC	NC	NA	NC	NA	NC	NC	NC	NA	NA
Nitrite + Nitrate Nitrogen	NC	NC	NA	NC	NA	C	C	NC	NA	NA
Orthophosphorus	NC	NC	C	C	NA	NC	NC	NC	NA	NA
Total Phosphorus	NC	NC	NA	NA	NA	NC	NC	NC	NA	NA
Chlorophyll <i>a</i>	NC	NC	NA	NA	NA	NC	NC	C	NA	NA
<b>Public Water Supply</b>										
Finished Water Chloride	X	NC	NC	X	X	X	X	NC	X	X
Finished Water Sulfate	X	NC	NC	X	X	X	X	NC	X	X
Finished Water TDS	X	NC	NC	X	X	X	X	NC	X	X
Surface Water Chloride	X	NC	NC	X	X	X	X	NC	X	X
Surface Water Sulfate	X	NC	NC	X	X	X	X	NC	X	X
Surface Water TDS	X	NC	NC	X	X	X	X	NC	X	X
<b>Aquatic Life</b>										
Dissolved Oxygen	X	X	X	X	NA	X	X	X	NA	NA
Metals in Water	NA	X	NA	X	NA	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

# Trinity River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 0807 Lake Worth	Segment 0808 W. F. Trinity River Below Eagle Mountain L.	Segment 0809 Eagle Mountain Lake	Segment 0810 W. F. Trinity River Below Bridgeport Res.	Segment 0811 Bridgeport Reservoir	Segment 0812 W. F. Trinity Above Bridgeport Res.	Segment 0813 Houston County Lake	Segment 0814 Chambers Creek Above Richland-Chambers Res.	Segment 0815 Bardwell Reservoir	Segment 0816 Lake Waxahachie
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	NA	NA	NA	N	NA	NA	NA	NA	NA	NA
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	S	S	S	S	S	S	S	S	T	T
<b>Fish Consumption</b>										
Human Health	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Advisories/Closures	N	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	NA	NA	NA	S	NA	N	NA	P	NA	NA
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	NA	NA	NA	S	NA	NA	NA	S	NA	NA
pH	NA	NA	NA	S	NA	NA	NA	S	NA	NA
Chloride	NA	NA	NA	S	NA	N	NA	S	NA	NA
Sulfate	NA	NA	NA	S	NA	S	NA	S	NA	NA
Total Dissolved Solids	NA	NA	NA	S	NA	N	NA	S	NA	NA

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

Basin Map	Water Bodies									
	Segment 0807 Lake Worth	Segment 0808 W. F. Trinity River Below Eagle Mountain L.	Segment 0809 Eagle Mountain Lake	Segment 0810 W. F. Trinity River Below Bridgeport Res.	Segment 0811 Bridgeport Reservoir	Segment 0812 W. F. Trinity Above Bridgeport Res.	Segment 0813 Houston County Lake	Segment 0814 Chambers Creek Above Richland-Chambers Res.	Segment 0815 Bardwell Reservoir	Segment 0816 Lake Waxahachie
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	NA	NA	NA	X	NA	NA	NA	NA	NA	NA
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	NC	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NA	NA	NA	NC	NA	NC	NA	NA	NA	NA
Nitrite + Nitrate Nitrogen	NA	NA	NA	NC	NA	NC	NA	NA	NA	NA
Orthophosphorus	NA	NA	NA	NC	NA	NC	NA	NC	NA	NA
Total Phosphorus	NA	NA	NA	NC	NA	NC	NA	NC	NA	NA
Chlorophyll <i>a</i>	NA	NA	NA	NC	NA	NC	NA	NA	NA	NA
<b>Public Water Supply</b>										
Finished Water Chloride	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Finished Water Sulfate	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Finished Water TDS	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Surface Water Chloride	NA	NA	NA	NC	NA	NC	NA	NC	NA	NA
Surface Water Sulfate	NA	NA	NA	NC	NA	NC	NA	NC	NA	NA
Surface Water TDS	NA	NA	NA	NC	NA	NC	NA	NC	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen	NA	NA	NA	X	NA	X	NA	X	NA	NA
Metals in Water	NA	NA	NA	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

# Trinity River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 0817 Navarro Mills Lake	Segment 0818 Cedar Creek Reservoir	Segment 0819 East Fork Trinity River	Segment 0820 Lake Ray Hubbard	Segment 0821 Lake Lavon	Segment 0822 Elm Fork Trinity River Below Lewisville Lake	Segment 0823 Lewisville Lake	Segment 0824 Elm Fork Trinity River Above Ray Roberts Lake	Segment 0825 Denton Creek	Segment 0826 Grapevine Lake
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	NA	NA	N	NA	S	S	NA	S	NA	NA
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	T	S	X	S	T	S	S	S	S	S
<b>Fish Consumption</b>										
Human Health	NA	NA	NA	NA	NA	S	NA	NA	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	NA	NA	S	NA	S	S	S	S	NA	NA
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	NA	NA	S	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	NA	NA	NA	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	NA	NA	S	NA	S	S	S	S	NA	NA
pH	NA	NA	S	NA	S	S	S	S	NA	NA
Chloride	NA	NA	S	NA	S	S	S	S	NA	NA
Sulfate	NA	NA	S	NA	S	S	S	S	NA	NA
Total Dissolved Solids	NA	NA	S	NA	S	S	NA	S	NA	NA

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

Basin Map	Water Bodies									
	Segment 0817 Navarro Mills Lake	Segment 0818 Cedar Creek Reservoir	Segment 0819 East Fork Trinity River	Segment 0820 Lake Ray Hubbard	Segment 0821 Lake Lavon	Segment 0822 Elm Fork Trinity River Below Lewisville Lake	Segment 0823 Lewisville Lake	Segment 0824 Elm Fork Trinity River Above Ray Roberts Lake	Segment 0825 Denton Creek	Segment 0826 Grapevine Lake
										
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	NA	NA	X	NA	X	X	NA	X	NA	NA
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	NC	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NA	NA	C	NA	NC	NC	NA	NC	NA	NA
Nitrite + Nitrate Nitrogen	NA	NA	C	NA	C	NC	NA	C	NA	NA
Orthophosphorus	NA	NA	C	NA	NC	NC	NC	C	NA	NA
Total Phosphorus	NA	NA	C	NA	NC	NC	NA	NC	NA	NA
Chlorophyll <i>a</i>	NA	NA	NC	NA	NC	NC	NA	NC	NA	NA
<b>Public Water Supply</b>										
Finished Water Chloride	NC	NC	X	NC	NC	NC	NC	NC	NC	NC
Finished Water Sulfate	NC	NC	X	NC	NC	NC	NC	NC	NC	NC
Finished Water TDS	NC	NC	X	NC	NC	NC	NC	NC	NC	NC
Surface Water Chloride	NA	NA	X	NA	NC	NC	NA	NC	NA	NA
Surface Water Sulfate	NA	NA	X	NA	NC	NC	NA	NC	NA	NA
Surface Water TDS	NA	NA	X	NA	NC	NC	NA	NC	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen	NA	NA	X	NA	X	X	X	X	NA	NA
Metals in Water	NA	NA	NA	NA	NA	X	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

# Trinity River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 0827 White Rock Lake	Segment 0828 Lake Arlington	Segment 0829 Clear Fk. Trinity River Below Benbrook L.	Segment 0829A Lake Como	Segment 0830 Benbrook Lake	Segment 0831 Clear Fk. Trinity River Below L. Weatherford	Segment 0832 Lake Weatherford	Segment 0833 Clear Fk. Trinity River Above L. Weatherford	Segment 0834 Lake Amon G. Carter	Segment 0835 Richland Creek Below Richland-Chambers Res.
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	NA	NA	S	NA	NA	S	NA	S	NA	NA
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	S	S	X	S	S	S	X	S	S
<b>Fish Consumption</b>										
Human Health	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Advisories/Closures	NA	NA	N	N	NA	NA	NA	NA	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	NA	S	S	NA	S	P	NA	P	NA	NA
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	NA	NA	S	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	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	NA	S	S	X	S	S	NA	S	NA	NA
pH	NA	S	S	X	S	S	NA	S	NA	NA
Chloride	NA	S	S	X	S	S	NA	S	NA	NA
Sulfate	NA	S	S	X	S	S	NA	S	NA	NA
Total Dissolved Solids	NA	NA	S	X	NA	S	NA	S	NA	NA

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 NA = Not Assessed; X = Not Applicable

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

Basin Map	Water Bodies									
	Segment 0827 White Rock Lake	Segment 0828 Lake Arlington	Segment 0829 Clear Fk. Trinity River Below Benbrook L.	Segment 0829A Lake Como	Segment 0830 Benbrook Lake	Segment 0831 Clear Fk. Trinity River Below L. Weatherford	Segment 0832 Lake Weatherford	Segment 0833 Clear Fk. Trinity River Above L. Weatherford	Segment 0834 Lake Amon G. Carter	Segment 0835 Richland Creek Below Richland-Chambers Res.
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	NA	NA	X	NA	NA	X	NA	X	NA	NA
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	NC	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NA	NA	NC	NA	NA	NC	NA	NC	NA	NA
Nitrite + Nitrate Nitrogen	NA	NA	NC	NA	NA	NC	NA	NC	NA	NA
Orthophosphorus	NA	NC	NC	NA	NA	NC	NA	NC	NA	NA
Total Phosphorus	NA	NA	NC	NA	NA	NC	NA	NC	NA	NA
Chlorophyll <i>a</i>	NA	NA	NC	NA	NA	NC	NA	NC	NA	NA
<b>Public Water Supply</b>										
Finished Water Chloride	X	NC	NC	X	NC	NC	NC	NC	NC	NC
Finished Water Sulfate	X	NC	NC	X	NC	NC	NC	NC	NC	NC
Finished Water TDS	X	NC	NC	X	NC	NC	NC	NC	NC	NC
Surface Water Chloride	X	NC	NC	X	NC	NC	NA	NC	NA	NA
Surface Water Sulfate	X	NC	NC	X	NC	NC	NA	NC	NA	NA
Surface Water TDS	X	NA	NC	X	NA	NC	NA	NC	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen	NA	X	X	NA	X	X	NA	X	NA	NA
Metals in Water	NA	NA	NA	NA	NA	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

# Trinity River Basin Graphical Summary

Basin Map	Water Bodies										
	Segment 0836 Richland-Chambers Reservoir	Segment 0837 Richland Creek Above Richland-Chambers R.	Segment 0838 Joe Pool Lake	Segment 0839 Elm F. Trinity River Below Ray Roberts L.	Segment 0840 Ray Roberts Lake	Segment 0841 West Fork Trinity River	Segment 0841A Mountain Creek Lake				
<b>DESIGNATED USE SUPPORT</b>											
Contact Recreation	NA	NA	S	NA	NA	N	NA				
Noncontact Recreation	X	X	X	X	X	X	X				
Public Water Supply	T	S	T	S	S	X	X				
<b>Fish Consumption</b>											
Human Health	NA	NA	NA	NA	NA	NA	NA				
Advisories/Closures	NA	NA	NA	NA	NA	N	N				
<b>Aquatic Life</b>											
Dissolved Oxygen (Grab)	NA	NA	S	NA	S	S	NA				
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA				
Metals in Water	NA	NA	NA	NA	NA	NA	NA				
Organics in Water	NA	NA	NA	NA	NA	NA	NA				
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA				
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA				
Macrobenthos	NA	NA	NA	NA	NA	NA	NA				
Fish	NA	NA	NA	NA	NA	NA	NA				
<b>GENERAL USE SUPPORT</b>											
Water Temperature	NA	NA	S	NA	S	S	X				
pH	NA	NA	S	NA	S	S	X				
Chloride	NA	NA	S	NA	S	S	X				
Sulfate	NA	NA	N	NA	S	S	X				
Total Dissolved Solids	NA	NA	N	NA	NA	S	X				

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

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

Basin Map	Water Bodies										
	Segment 0836 Richland-Chambers Reservoir	Segment 0837 Richland Creek Above Richland-Chambers R.	Segment 0838 Joe Pool Lake	Segment 0839 Elm F. Trinity River Below Ray Roberts L.	Segment 0840 Ray Roberts Lake	Segment 0841 West Fork Trinity River	Segment 0841A Mountain Creek Lake				
<b>WATER QUALITY CONCERNS</b>											
Contact Recreation	NA	NA	X	NA	NA	X	NA				
Noncontact Recreation	X	X	X	X	X	X	X				
Fish Tissue	NA	NA	NA	NA	NA	NA	NA				
Sediment	NA	NA	C	NA	NA	NA	NA				
Narrative	NC	NC	NC	NC	NC	NC	NC				
<b>Nutrient Enrichment</b>											
Ammonia Nitrogen	NA	NA	NC	NA	NA	NC	NA				
Nitrite + Nitrate Nitrogen	NA	NA	NC	NA	NA	C	NA				
Orthophosphorus	NA	NA	NC	NA	NC	NC	NA				
Total Phosphorus	NA	NA	NC	NA	NA	C	NA				
Chlorophyll <i>a</i>	NA	NA	NC	NA	NA	C	NA				
<b>Public Water Supply</b>											
Finished Water Chloride	NC	NC	NC	NC	NC	X	X				
Finished Water Sulfate	NC	NC	NC	NC	NC	X	X				
Finished Water TDS	NC	NC	NC	NC	NC	X	X				
Surface Water Chloride	NA	NA	NC	NA	NA	X	X				
Surface Water Sulfate	NA	NA	NC	NA	NA	X	X				
Surface Water TDS	NA	NA	NC	NA	NA	X	X				
<b>Aquatic Life</b>											
Dissolved Oxygen	NA	NA	X	NA	X	X	NA				
Metals in Water	NA	NA	NA	NA	NA	NA	NA				
Organics in Water	NA	NA	NA	NA	NA	NA	NA				
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA				
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA				

# Trinity River Basin

## Segment 0801 - Trinity River Tidal

**Water body description:** From the confluence with Anahuac Channel in Chambers County to a point 3.1 km (1.9 miles) downstream of US 90 in Liberty County

**Water body classification:** Classified

**Water body type:** Tidal Stream

**Water body length / area:** 37.00 Miles

**Use support summary:** Available data indicate that the aquatic life, contact recreation, and general uses are supported in a 25 mile reach at IH 10 near the City of Liberty. 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
10892	Trinity River tidal at IH 10 near Liberty TRA #35

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	9
Industrial	1

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
05/02/1996	Tributary to Lake Anahuac	546	Unknown

# Trinity River Basin

## Segment 0802 - Trinity River Below Lake Livingston

**Water body description:** From a point 3.1 km (1.9 miles) downstream of US 90 in Liberty County to Livingston Dam in Polk/San Jacinto County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 84.00 Miles

**Use support summary:** The aquatic life, contact recreation, public water supply, and general 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
10894	Trinity River at US 90 in Liberty TRA #33
10896	Trinity River at FM 787 near Romayor
10897	Trinity River at US 59 south of Goodrich TRA #30
10898	Trinity River at Lake Livingston discharge below dam TRA #1

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	14
Industrial	3

# Trinity River Basin

## Segment 0803 - Lake Livingston

**Water body description:** From Livingston Dam in Polk/San Jacinto County to a point 1.8 km (1.1 miles) upstream of Boggy Creek in Houston/Leon County, up to normal pool elevation of 131 feet (impounds Trinity River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 82,600 Acres

**Use support summary:** The aquatic life use is partially supported in six areas of the reservoir due to depressed dissolved oxygen. These include the dam area, lower midlake, midlake area, mouth of Kickapoo Creek cove area, mouth of White Rock Creek cove area, and upper portion of the lake at SH 19. Each area represents 5,120 acres. General water quality uses are partially supported in 5,120 acres near the mouth of Kickapoo Creek cove due to elevated pH values. The public water supply use is supported. The contact recreation and fish consumption uses were not assessed due to insufficient data.

**Water quality concerns summary:** Orthophosphorus is a concern in 5,120 acres of the reservoir.

**Additional information:** Projects are scheduled for 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

Station	Station Description
10899	Lake Livingston in main pool near dam at TRA buoy #2
10909	Lake Livingston in Kickapoo Creek Bay channel TRA #12
10911	Lake Livingston at US 190 west of Onalaska
10913	Lake Livingston in main channel near mouth of White Rock Creek Bay TRA #6
10914	Lake Livingston at SH 19 south of Trinity
10917	Lake Livingston headwaters at SH 21 northeast of Midway TRA #97

### Published studies

Publication	Date	Author
IMS 9 Lake Livingston	Nov. 1973	Bohmfalk, C.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	58
Domestic	71
Industrial	5

## Trinity River Basin

### Segment 0803A - Harmon Creek (unclassified water body)

**Water body description:** From the confluence of Lake Livingston northeast of Huntsville in Walker County to the upstream perennial portion of the stream east of Huntsville in Walker County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 16.00 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:** Orthophosphorus is a concern.

#### Monitoring sites used in the assessment

Station	Station Description
10698	Harmon Creek at end of county road east of FM 980 and 7.6 miles northeast of Huntsville

## Trinity River Basin

### Segment 0803B - White Rock Creek (unclassified water body)

**Water body description:** From the confluence of Lake Livingston northeast of Trinity in Trinity County to the upstream perennial portion of the stream east of Lovelady in Houston County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 38.00 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
10696	White rock Creek at SH 94 northeast of Trinity TRA #21

# Trinity River Basin

## Segment 0804 - Trinity River Above Lake Livingston

**Water body description:** From a point 1.8 km (1.1 miles) upstream of Boggy Creek in Houston/Leon County to a point immediately upstream of the confluence of the Cedar Creek Reservoir discharge canal in Henderson/Navarro County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 160.00 Miles

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

**Water quality concerns summary:** Nitrite + nitrate nitrogen is a concern through a 25-mile reach centering on US 79.

**Additional information:** A wasteload evaluation (WLE) for dissolved oxygen was approved in 1985 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

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
10919	Trinity River at US 79 NE of Oakwood
10920	Trinity River at US 287 west of Cayuga

### Monitoring sites, continued

Station	Station Description
10921	Trinity River at TP&L Co. Station, 0.9 mi downstream from SH 31 and 0.5 mi downstream from St. Louis Southwestern RR Bridge
13690	Trinity River 1000 ft. upstream from SH 7, 11.9 mi. west of Crockett

### Published studies

Publication	Date	Author
IMS 57 Trinity River	July 1974	Bohmfolk, C.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	26
Domestic	41
Industrial	20

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
06/20/1994	Warm water pond at Fairfield Reservoir	60	Temperature
06/08/1995	Lake Fairfield - at Big Brown Steam Electric Power Plant discharge canal	100	Temperature
05/24/1996	Carrol Slough - on Richland WMA, North Unit	652	Inorganic compound
10/23/1996	Lake Fairfield	175	Disease
06/20/1997	Lake Fairfield - at power plant hot pond	100	Temperature
06/26/1997	Lake Fairfield - at hot pond of power plant	300	Temperature
07/14/1997	Lake Fairfield - Hot pond area of discharge canal at plant	50	Temperature

# Trinity River Basin

## Segment 0805 - Upper Trinity River

**Water body description:** From a point immediately upstream of the confluence of the Cedar Creek Reservoir discharge canal in Henderson/Navarro County to a point immediately upstream of the confluence of Elm Fork Trinity River in Dallas County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 100.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The Texas Department of Health issued an aquatic life closure in January 1990 due to elevated concentrations of chlordane in fish tissue, causing nonsupport of the fish consumption use. The affected reach extends 19 miles from the upper limit of the segment to IH 20 downstream of Dallas. The aquatic life and general uses are supported.

**Water quality concerns summary:** Nitrite + nitrate nitrogen is a concern in the lower 90 miles of the segment.

**Additional information:** A wasteload evaluation (WLE) for dissolved oxygen was approved in 1985 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

A total maximum daily load (TMDL) to evaluate the causes and sources of chlordane in fish tissue and allocate the allowable loading has been completed and approved by the Commission.

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.

**Additional information,  
continued:**

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
10924	Trinity River at FM 85 west of Seven Points
10925	Trinity River at SH 34 NE of Ennis
10934	Trinity River at South Loop SH 12 below Dallas

**Published studies**

Publication	Date	Author
IS 67 Trinity River	July, 1983	Davis, J.

**Wastewater dischargers**

Permit type	Number of outfalls
Domestic	14
Industrial	13

**Historical fish kills**

Start date	Location	Fish killed	Suspected cause
02/13/1995	Midlothian area at lady's birdfeeder	12	Disease
10/13/1995	Trinity River - at SH635 and Northwest Highway in Dallas/ Garland boundary.	200	Low Dissolved Oxygen
10/20/1997	White Rock Creek - Cottonwood Creek Subdivision in Dallas, Texas	25	Organic compound
11/22/1997	Floyd Branch Creek - 13500 N. Central Expressway in Dallas, Texas	2	Inorganic compound
04/02/1998	King Creek - bridge at Highway 175 in Dallas, Texas	20	Physical Damage/Trauma

## Trinity River Basin

### Segment 0806 - West Fork Trinity River Below Lake Worth

**Water body description:** From a point immediately upstream of the confluence of Village Creek in Tarrant County to Lake Worth Dam in Tarrant County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 33.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities through a 17-mile reach extending for 5 miles upstream to 12 miles downstream of Beach Street. The Texas Department of Health issued an aquatic life closure in January 1990, due to elevated concentrations of chlordane in fish tissue, causing nonsupport of the fish consumption use. The lower 22 miles of the segment are included in the closure. The aquatic life, public water supply, and general uses are supported.

**Water quality concerns summary:**

Chlorophyll *a* is a concern in the upper 17 miles.

**Additional information:**

A wasteload evaluation (WLE) for dissolved oxygen was approved in 1985 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

A total maximum daily load (TMDL) to evaluate the causes and sources of chlordane in fish tissue and allocate the allowable loading has been completed and approved by the Commission.

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.

**Additional information,  
continued:**

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
10938	West Fork Trinity River at Beach Street in Fort Worth
10940	West Fork Trinity River at University Drive in Ft. Worth

**Published studies**

Publication	Date	Author
LP 87-02 Analysis of Fish Kills in the Trinity River	April 1987	Davis, J.

**Wastewater dischargers**

Permit type	Number of outfalls
Industrial	10

**Historical fish kills**

Start date	Location	Fish killed	Suspected cause
03/24/1995	Sycamore Creek - @ Vander Vorts Dairy Food Co. at 900 S. Main, Ft. Worth, TX	15	Inorganic compound
06/09/1995	Sycamore Creek - in Sycamore Park on Vickery Blvd. in Ft. Worth, TX	100	Organic compound
07/14/1995	unnamed creek - @ 3700 University and Turtle Creek near McFarland, TX	200	Low Dissolved Oxygen
08/09/1996	Beach Street and downstream	18	Low Dissolved Oxygen
09/05/1997	Fosdic Lake - Oakland Park in Fort Worth, Texas	960	Disease
09/15/1997	Rush Creek - tributary at 4608 S. Cooper Street in Arlington, Texas	196	Inorganic compound
07/07/1998	Trib. West Fork Trinity River - Colleyville at Center Park Road in Lakewood Estates	237	Other
07/11/1998	Little Fossil Creek - At intersection of Long and Broadway in Fort Worth, Texas	7047	Inorganic compound

## Trinity River Basin

### Segment 0806A - Fosdic Lake (unclassified water body)

**Water body description:** From Fosdic Lake Dam to the reservoir headwaters in Oakland Lake Park, in Tarrant County

**Water body classification:** Unclassified

**Water body type:** Reservoir

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

**Use support summary:** The fish consumption use is not supported through the entire reservoir, based on an aquatic life closure issued by the Texas Department of Health in April 1995 due to elevated concentrations of chlordane, dieldrin, DDE, and PCBs in fish tissue. Although the levels of dieldrin alone are not enough to result in an advisory, dieldrin levels in fish tissue contribute to the overall health risk for consumers. 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:** This water body was listed in 1996 in the description of segment 0806.

Total maximum daily loads (TMDLs) to evaluate the causes and sources of chlordane, DDE, dieldrin, and PCBs in fish tissue and allocate the allowable loading have been completed and approved by the Commission. 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/).

## Trinity River Basin

### Segment 0806B - Echo Lake (unclassified water body)

**Water body description:** From Echo Lake Dam to the reservoirs headwaters in Tarrant County

**Water body classification:** Unclassified

**Water body type:** Reservoir

**Water body length / area:** 17.00 Acres

**Use support summary:** The fish consumption use is not supported through the entire reservoir, based on an aquatic life closure issued by the Texas Department of Health in December 1995 due to elevated concentrations of PCBs 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:** This water body was listed in 1996 in the description of segment 0806.

A total maximum daily load (TMDL) to evaluate the causes and sources of PCBs in fish tissue and allocate the allowable loading has been completed and approved by the Commission. 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/).

# Trinity River Basin

## Segment 0807 - Lake Worth

**Water body description:** From Lake Worth Dam in Tarrant County to a point 4.0 km (2.5 miles) downstream of Eagle Mountain Dam in Tarrant County, up to normal pool elevation of 594.3 feet (impounds West Fork Trinity River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 3,560 Acres

**Use support summary:** The fish consumption use is not supported through the entire segment, based on a no-consumption advisory issued by the Texas Department of Health in April 2000, due to elevated levels of PCBs in fish tissue. This segment, however, is not on the 2000 303(d) list because the advisory was issued after the public comment period for the 2000 303(d) list. 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.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	4
Domestic	11
Industrial	3

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
08/01/1995	Lake Worth - at Silver Creek Bridge	100	Disease
01/15/1998	Lake Worth - Marina near Highway 199 in Fort Worth, Texas	20	Physical Damage/Trauma

## Trinity River Basin

### Segment 0808 - West Fork Trinity River Below Eagle Mountain Reservoir

**Water body description:** From a point 4.0 km (2.5 miles) downstream of Eagle Mountain Dam in Tarrant County to Eagle Mountain Dam in Tarrant County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 2.00 Miles

**Use support summary:** Available data indicate 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.

# Trinity River Basin

## Segment 0809 - Eagle Mountain Reservoir

**Water body description:** From Eagle Mountain Dam in Tarrant County to a point 0.6 km (0.4 miles) downstream of the confluence of Oates Branch in Wise County up to normal pool elevation of 649.1 feet (impounds West Fork Trinity River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 9,200 Acres

**Use support summary:** 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
10945	Eagle Mountain Reservoir mid lake near dam

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	5
Domestic	22
Industrial	3

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
11/01/1995	Eagle Mountain Lake	10000	Temperature
07/28/1997	Eagle Mountain Lake - from Dam to backwaters	200	Disease

## Trinity River Basin

### Segment 0810 - West Fork Trinity River Below Bridgeport Reservoir

**Water body description:** From a point 0.6 km (0.4 miles) downstream of the confluence of Oates Branch in Wise County to Bridgeport Dam in Wise County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 36.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities through the lower 25 miles. The aquatic life, public water supply, and general 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 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
10969	West Fork Trinity River at FM 730 NE of Boyd
14246	West Fork Trinity River at Wise CR 3390, 2.2 mi. SE of Paradise off Hwy 51

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	4
Domestic	19
Industrial	7

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
04/11/1996	Turkey Creek - near Bridgeport, TX at Intersection of FM 380 and 101	50	Organic compound

# Trinity River Basin

## Segment 0811 - Bridgeport Reservoir

**Water body description:** From Bridgeport Dam in Wise County to a point immediately upstream of the confluence of Bear Hollow in Jack County, up to normal pool elevation of 836 feet (impounds West Fork Trinity River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 13,000 Acres

**Use support summary:** 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.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	4

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
02/18/1996	Private SCS lake - receiving waters from Jacksboro sewage plant discharge	200	Low Dissolved Oxygen
05/09/1997	Stilling Basin - Bridgeport Reservoir and downstream	10000	Low Dissolved Oxygen

## Trinity River Basin

### Segment 0812 - West Fork Trinity River Above Bridgeport Reservoir

**Water body description:** From a point immediately upstream of the confluence of Bear Hollow in Jack County to SH 79 in Archer County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 85.00 Miles

**Use support summary:** The aquatic life use is not supported in the lower 25 miles due to depressed dissolved oxygen concentrations. In the same reach, general uses are not supported due to elevated average chloride and total dissolved solids concentrations. The contact recreation and fish consumption uses were not assessed due to insufficient data.

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

**Additional information:** Conditions in the water body reflect influences by unidentified nonpoint sources and also appear to result in part from seasonally intermittent flow.

Projects are scheduled for dissolved oxygen, chloride, and total dissolved solids 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
10972	West Fork Trinity River at SH 59 NE of Jacksboro

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	4
Domestic	2

## Trinity River Basin

### Segment 0813 - Houston County Lake

**Water body description:** From Houston County Dam in Houston County up to the normal pool elevation of 260 feet (impounds Little Elkhart Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 1,282 Acres

**Use support summary:** Available data indicate the public water supply 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.

# Trinity River Basin

## Segment 0814 - Chambers Creek Above Richland–Chambers Reservoir

**Water body description:** From a point 4.0 km (2.5 miles) downstream of Tupelo Branch in Navarro County to the confluence of North Fork Chambers Creek and South Fork Chambers Creek

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 49.00 Miles

**Use support summary:** The aquatic life use is partially supported due to depressed dissolved oxygen concentrations in the middle 16.5 miles of the segment. The public water supply and general uses are supported. The fish consumption 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 wasteload evaluation (WLE) for dissolved oxygen was approved in 1998 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

### Monitoring sites used in the assessment

Station	Station Description
10977	Chambers Creek at FM 1126

### Published studies

Publication	Date	Author
IMS 78 Richland/Chambers Creeks	June 1977	Pettit, J. (Region 4)
IS 73 Chambers Creek	July 1983	Petrack, D.
IS 90-04 Chambers Creek	Dec. 1990	Petrack D.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	5
Domestic	22

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
02/09/1996	Grassy Creek - below City of Venus sewage plant	3	Low Dissolved Oxygen

# Trinity River Basin

## Segment 0815 - Bardwell Reservoir

**Water body description:** From Bardwell Dam in Ellis County up to the normal pool elevation of 421 feet (impounds Waxahachie Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 3,570 Acres

**Use support summary:** All water quality measurements currently support use as a public water supply. However, atrazine concentrations in finished drinking water exceed 50% of the maximum contaminant level, indicating the use is threatened. 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 underway for atrazine 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/).

### Published studies

Publication	Date	Author
IMS 4 Bardwell Reservoir	March 1974	Twidwell, S.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	5
Industrial	3

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
04/26/1995	Bardwell Reservoir from back-water areas then windblown all over lake.	3000	Disease

# Trinity River Basin

## Segment 0816 - Lake Waxahachie

**Water body description:** From South Prong Dam in Ellis County up to normal pool elevation of 531.5 feet (impounds South Prong Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 690 Acres

**Use support summary:** All water quality measurements currently support use as a public water supply. However, atrazine concentrations in finished drinking water exceed 50% of the maximum contaminant level, indicating the use is threatened. 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 underway for atrazine 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
Agriculture	4

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
06/05/1995	Lake Waxahachie from I-35 bridge into lake and over to dam	1000	Disease

# Trinity River Basin

## Segment 0817 - Navarro Mills Lake

**Water body description:** From Navarro Mills Dam in Navarro County up to normal pool elevation of 424.5 feet (impounds Richland Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 5,070 Acres

**Use support summary:** All water quality measurements currently support use as a public water supply. However, atrazine concentrations in finished drinking water exceed 50% of the maximum contaminant level, indicating the use is threatened. 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 atrazine 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	4

# Trinity River Basin

## Segment 0818 - Cedar Creek Reservoir

**Water body description:** From Joe B. Hoggsett Dam in Henderson County up to normal pool elevation of 322 feet (impounds Cedar Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 33,750 Acres

**Use support summary:** Available data indicate 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.

### Published studies

Publication	Date	Author
IMS 22 Cedar Creek Reservoir	March 1974	Bohmfolk, C.
SR 92-04 Streams of Kaufman County	April 1990	Mummert/Fergusson/Howell
SR 92-06 Streams of Kaufman County	August 1991	Mummert/Fergusson/Howell

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	32
Industrial	13

# Trinity River Basin

## Segment 0819 - East Fork Trinity River

**Water body description:** From the confluence with the Trinity River in Kaufman County in Rockwall-Forney Dam in Kaufman County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

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

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities in the lower 14 miles. The aquatic life and general uses are 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 in the lower 14 miles.

**Additional information:** A wasteload evaluation (WLE) for dissolved oxygen was approved in 1998 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

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
10991	East Fork Trinity River at US 175 NW of Crandall, River 20.3 km

### Published studies

<b>Publication</b>	<b>Date</b>	<b>Author</b>
IS 43 East Fork Trinity River	Sept. 1981	Twidwell, S.
IS 54 East Fork Trinity River	Sept. 1982	Twidwell, S.
IS 58 East Fork Trinity River	April 1983	Twidwell, S.

### Wastewater dischargers

<b>Permit type</b>	<b>Number of outfalls</b>
Domestic	16
Industrial	1

# Trinity River Basin

## Segment 0820 - Lake Ray Hubbard

**Water body description:** From Rockwall-Forney Dam in Kaufman County to Lavon Dam in Collin County, up to normal pool elevation of 435.5 feet (impounds East Fork Trinity River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 22,745 Acres

**Use support summary:** Available data indicate 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.

### Published studies

Publication	Date	Author
IMS 8 Lake Ray Hubbard	Jan. 1974	Cearley, J.
IS 25 Rowlett Creek	Jan. 1981	Twidwell, S.
IS 71 Lake Ray Hubbard and Rowlett C	April 1984	Twidwell, S.
IS 89-06 Lake Ray Hubbard and Rowlett C	July 1988	Ottmers, D.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	7
Industrial	6

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
06/16/1994	Lake Ray Hubbard - old Highway 30 bridge	1000	Physical Damage/Trauma
10/01/1994	Canyon Creek Country Club at Lookout in Richardson, TX	200	Low Dissolved Oxygen
03/08/1995	City of Plano - residential area with 3 ponds which recirculate water	700	Organic compound
04/24/1995	Unnamed creek - now a drainage ditch due to development	40	Organic compound
04/28/1995	Manhole at intersection of Pleasant Valley and Naman School Road in Garland, TX	30	Organic compound
07/21/1995	Lake Ray Hubbard - @ Old Highway 66 bridge	20	Physical Damage/Trauma
10/09/1995	Spring Creek - at 503 N. Central Expressway	500	Organic compound
10/29/1996	Los Rios Golf Course in Plano, TX	502	Physical Damage/Trauma
03/03/1997	Cottonwood Creek - tributary through Los Rios Country Club Golf Course, Plano	2	Organic compound
02/09/1998	Hutton Branch - Carrollton, Texas	109	Inorganic compound
03/30/1998	Kings Creek - City of Allen, Texas	95	Inorganic compound
07/14/1998	Lake Ray Hubbard - Zion Road Boat Ramp off I-30	12	Physical Damage/Trauma

# Trinity River Basin

## Segment 0821 - Lake Lavon

**Water body description:** From Lavon Dam in Collin County, up to normal pool elevation of 492 feet (impounds East Fork Trinity River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 21,400 Acres

**Use support summary:** All water quality measurements currently support use as a public water supply. However, atrazine concentrations in finished drinking water exceed 50% of the maximum contaminant level, indicating the use is threatened. The aquatic life, contact recreation, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Nitrite + nitrate nitrogen is a concern in 5,120 acres in the East Fork arm.

**Additional information:** A project is underway for atrazine 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
11020	Lake Lavon, mid-lake near dam
11021	Lake Lavon, east fork arm
11022	Lake Lavon, Pilot Grove arm
14249	Lake Lavon, 1.2 mi. south of US 380 and north of Elm Creek Park
15684	Lavon Lake USGS site AL
15685	Lavon Lake USGS site AC
15686	Lavon Lake USGS site EC
15687	Lavon Lake USGS site BC

### Published studies

Publication	Date	Author
IMS 6 Lake Lavon	Jan. 1974	Cearley, J.
IS 41 Wilson Creek	Jan. 1981	Ezell, C.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1
Domestic	23
Industrial	1

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
01/06/1995	El Dorado Golf Course in McKinney, TX	60	Temperature

## Trinity River Basin

### Segment 0822 - Elm Fork Trinity River Below Lewisville Lake

**Water body description:** From the confluence with the West Fork Trinity River in Dallas County to Lewisville Dam in Denton County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 30.00 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
11023	Elm Fork Trinity River at SH 356 in Dallas
13615	Elm Fork Trinity River at SH 121 1.8 mi east of Lewisville, 1.9 mi downstream from Lewisville Lake
16436	Elm Fork Trinity River 100m upstream of Frasier Dam, 0.8km downstream of SH 482 in Dallas, TX
16437	Elm Fork Trinity River, 0.5km downstream of Lake Lewisville Spillway near City of Lewisville, TX

#### Published studies

Publication	Date	Author
AS 24 Analysis of Fish Kills in the Trinity River	July 1994	Davis, J.
LP 90-03 Analysis of Fish Kills in the Trinity River	Feb. 1990	Davis, J.
LP 91-03 Analysis of Fish Kills in the Trinity River	Jan. 1991	Davis, J.
LP 91-12 Analysis of Fish Kills in the Trinity River	Sept. 1991	Davis, J.

## Wastewater dischargers

Permit type	Number of outfalls
Domestic	13
Industrial	4

## Historical fish kills

Start date	Location	Fish killed	Suspected cause
04/06/1995	Beaver Creek leaving Las Calinas Golf Course in Dallas, Texas	100	Organic compound
09/23/1995	Quail Lake at Las Calinas Country Club	500	Organic compound
02/10/1996	Lake Lewisville dam - downstream of Hebron Road	500	Low Dissolved Oxygen
09/27/1996	Hackberry Creek County Club in Irving, TX	100	Inorganic compound
12/08/1996	Trinity River- at Indian Creek Golf Course between IH-35 and Hwy 121	5	Organic compound
02/05/1998	Hutton Branch - between Beltline and Marsh Lane in Carrollton, TX	65	Inorganic compound

# Trinity River Basin

## Segment 0823 - Lewisville Lake

**Water body description:** From Lewisville Dam in Denton County to a point 100 meters (110 yards) upstream of US 380 in Denton County, up to normal pool elevation of 515 feet (impounds Elm Fork Trinity River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 23,280 Acres

**Use support summary:** Available data indicate the aquatic life, public water supply, and general uses are supported. The contact recreation and fish consumption uses are 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
13995	Lewisville Lake USGS site AL
13996	Lewisville Lake USGS site AC
13997	Lewisville Lake USGS site BC
13998	Lewisville Lake USGS site CC
13999	Lewisville Lake USGS site FC
14000	Lewisville Lake USGS site DC
14001	Lewisville Lake USGS site GC
14002	Lewisville Lake USGS site EC

### Published studies

Publication	Date	Author
IMS 5 Lake Lewisville	Jan. 1974	Twidwell, S.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1
Domestic	44
Industrial	9

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
08/28/1996	Lake Lewisville	10000	Disease

## Trinity River Basin

### Segment 0824 - Elm Fork Trinity River Above Ray Roberts Lake

**Water body description:** From a point 9.5 km (5.9 miles) downstream of the confluence of Pecan Creek in Cooke County to US 82 in Montague County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 86.00 Miles

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

**Water quality concerns summary:** Nitrite + nitrate nitrogen and orthophosphorus are concerns in the lower 8 miles.

**Additional information:** A wasteload evaluation (WLE) for dissolved oxygen was approved in 1984 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

#### Monitoring sites used in the assessment

Station	Station Description
11031	Elm Fork Trinity River at FM 2071, south of Gainesville
11033	Elm Fork Trinity River at unmarked county road, 1.38 km downstream of Gainesville WWTP
16432	Elm Fork Trinity River at FM 3108, 1.2km south of intersection of FM 3108 and SH 82 in Lindsay, TX

### Published studies

<b>Publication</b>	<b>Date</b>	<b>Author</b>
AS 105/SR Elm Fork Trinity River	July 1994	Mummert/McGinn
IMS 73 Elm Fork Trinity River	July 1977	Petrick, D.
IS 22 Elm Fork Trinity River	June 1980	Kirkpatrick, J.

### Wastewater dischargers

<b>Permit type</b>	<b>Number of outfalls</b>
Domestic	4
Industrial	1

# Trinity River Basin

## Segment 0825 - Denton Creek

**Water body description:** From the confluence with the Elm Fork Trinity River in Dallas County to Grapevine Dam in Tarrant County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

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

**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
11034	Denton Creek at SH 121 south of Lewisville

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	3

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
06/09/1994	Kay Branch at Trinity River Authority - Denton Creek STP discharge	20	Organic compound

# Trinity River Basin

## Segment 0826 - Grapevine Lake

**Water body description:** From Grapevine Dam in Tarrant County up to normal pool elevation of 535 feet (impounds Denton Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 7,380 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.

### Published studies

Publication	Date	Author
IMS 23 Grapevine Reservoir	March 1975	Brazier, F.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	26

# Trinity River Basin

## Segment 0827 - White Rock Lake

**Water body description:** From White Rock Dam in Dallas County up to the normal pool elevation of 458 feet (impounds White Rock Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 1,119 Acres

**Use support summary:** Uses were not assessed due to insufficient data.

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

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	1

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
06/16/1995	White Rock Lake - Intersection of Floyd Road and Loop 635 in Dallas, Texas	300	Organic compound
08/14/1995	White Rock creek - Coyt Road and L.B.J. in Dallas, TX	20	Organic compound
12/01/1995	White Rock Lake downstream of the spillway	2000	Disease

# Trinity River Basin

## Segment 0828 - Lake Arlington

**Water body description:** From Arlington Dam in Tarrant County up to the normal pool elevation of 550 feet (impounds Village Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 2,275 Acres

**Use support summary:** Available data indicate the aquatic life, public water supply, and general uses are supported. The fish consumption 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.

### Monitoring sites used in the assessment

Station	Station Description
11040	Lake Arlington mid lake near dam
13897	Lake Arlington USGS site FC
13898	Lake Arlington USGS site EL
13899	Lake Arlington USGS site EC
13900	Lake Arlington USGS site DC
13901	Lake Arlington USGS site BC
13902	Lake Arlington USGS site CC
13903	Lake Arlington USGS site BL
13904	Lake Arlington USGS site AC
13905	Lake Arlington USGS site AL

### Published studies

Publication	Date	Author
IMS 19 Lake Arlington	Jan. 1974	Kirkpatrick, J.
SR 92-07 Deer Creek	Jan-Feb 1990	Howell, C./J. Mummert

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	10
Industrial	7

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
06/27/1994	Lake Arlington - Hot Pond of the Handley Plant for T.U. Electric	250	Temperature
07/14/1995	Lake Arlington - in the T. U. Electric Plant hot pond	800	Temperature
05/23/1997	Valley Branch - west of FM496 & south of FM1187 near County line	2	Inorganic compound
07/25/1997	Lake Arlington - Handley Plant hot pond	50	Temperature

## Trinity River Basin

### Segment 0829 - Clear Fork Trinity River Below Benbrook Lake

**Water body description:** From the confluence with the West Fork Trinity River in Tarrant County to Benbrook Dam in Tarrant County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 14.00 Miles

**Use support summary:** The fish consumption use is not supported through the lower mile, based on an aquatic life closure issued by the Texas Department of Health in January 1990 due to elevated concentrations of chlordane in fish tissue. Available data indicate the aquatic life, contact recreation, public water supply, and general uses are supported.

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

**Additional information:** A total maximum daily load (TMDL) to evaluate the causes and sources of chlordane and allocate the allowable loading has been completed and approved by the Commission. 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
11045	Clear Fork Trinity River at Bryant-Irvin St. in Ft. Worth
13623	Clear Fork Trinity River 1.5 mi. downstream of Benbrook dam, 1.7 mi. SE of Benbrook, 2.9 mi. upstream from Marys Creek

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
10/12/1994	Echo Lake in Ft. Worth	35	Low Dissolved Oxygen
06/12/1995	Unnammed water body - on Richland Country Club in Ft. Worth, TX	200	Organic compound
01/19/1997	Kings Creek - at Kings Creek Golf Course in Southwest Fort Worth	72	Organic compound

## Trinity River Basin

### Segment 0829A - Lake Como (unclassified water body)

**Water body description:** From Lake Como Dam to the reservoir headwaters in Lake Como Park in Tarrant County

**Water body classification:** Unclassified

**Water body type:** Reservoir

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

**Use support summary:** The fish consumption use is not supported through the entire reservoir, based on an aquatic life closure issued by the Texas Department of Health in April 1995 due to elevated concentrations of chlordane, dieldrin, DDE, and PCBs in fish tissue. Although dieldrin alone is not enough to result in an advisory, dieldrin levels in fish tissue contribute to the overall health risk for consumers. 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:** This water body was listed in 1996 in the description of segment 0829.

Total maximum daily loads (TMDLs) to evaluate the causes and sources of chlordane, DDE, dieldrin, and PCBs in fish tissue and allocate the allowable loading have been completed and approved by the Commission. 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/).

# Trinity River Basin

## Segment 0830 - Benbrook Lake

**Water body description:** From Benbrook Dam in Tarrant County to a point 200 meters (220 yards) downstream of US 377 in Tarrant County, up to normal pool elevation of 694 feet (impounds Clear Fork Trinity River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 3,770 Acres

**Use support summary:** Available data indicate that the aquatic life, public water supply and general uses are 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
13829	Benbrook Lake USGS site AC
13830	Benbrook Lake USGS site AL
13831	Benbrook Lake USGS site BC
13832	Benbrook Lake USGS site CR
13833	Benbrook Lake USGS site CL
13834	Benbrook Lake USGS site DC

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	3

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
03/29/1996	Benbrook Lake - at the drinking water plant	300	Inorganic compound

# Trinity River Basin

## Segment 0831 - Clear Fork Trinity River Below Lake Weatherford

**Water body description:** From a point 200 meters (220 yards) downstream of US 377 in Tarrant County to Weatherford Dam in Parker County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 19.00 Miles

**Use support summary:** The aquatic life use is partially supported due to depressed dissolved oxygen concentrations through the upper 15.7 miles. Available data indicate the contact recreation, public water supply, and general 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 underway 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
11060	Clear Fork Trinity River at IH 20 east of Weatherford
13691	Clear Fork Trinity River on US 377, 1/4 mi. SW of FM 2376, 1/4 mi. NE of FM 1187, 6.5 mi. SW of Benbrook near Aledo, TX

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	9
Industrial	1

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/22/1997	Silver Creek - R. J. Smelley Dairy at FM730 out of Weatherford, Texas	2000	Organic compound

# Trinity River Basin

## Segment 0832 - Lake Weatherford

**Water body description:** From Weatherford Dam in Parker County to a point 3.1 km (1.9 miles) upstream of FM 1707 in Parker County, up to the normal pool elevation of 896 feet (impounds Clear Fork Trinity River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 1,210 Acres

**Use support summary:** Available data indicate 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.

### Wastewater dischargers

Permit type	Number of outfalls
Industrial	3

## Trinity River Basin

### Segment 0833 - Clear Fork Trinity River Above Lake Weatherford

**Water body description:** From a point 3.1 km (1.9 miles) upstream of FM 1707 in Parker County, to FM 3107 in Parker County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

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

**Use support summary:** The aquatic life use is partially supported due to depressed dissolved oxygen concentrations. The contact recreation, public water supply, and general 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 underway 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
11062	Clear Fork Trinity River above Lake Weatherford at FM 51 NE of Weatherford

#### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	4

# Trinity River Basin

## Segment 0834 - Lake Amon G. Carter

**Water body description:** From Amon G. Carter Dam in Montague County up to the normal pool elevation of 920 feet (impounds Big Sandy Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 1,540 Acres

**Use support summary:** Available data indicate 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.

### Published studies

Publication	Date	Author
IMS 52 Lake Amon G. Carter	March 1976	Dick, M. (Region 4)

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1

## Trinity River Basin

### Segment 0835 - Richland Creek Below Richland–Chambers Reservoir

**Water body description:** From the confluence with the Trinity River in Freestone County to Richland–Chambers Dam in Freestone County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 5.00 Miles

**Use support summary:** Available data indicate 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.

#### Published studies

Publication	Date	Author
IMS 78 Richland Creek	June 1977	Pettit, J. (Region 4)
IS 73 Richland Creek	July 1983	Petrick, D.

# Trinity River Basin

## Segment 0836 - Richland–Chambers Reservoir

**Water body description:** From Richland–Chambers Dam in Freestone County to the confluence of Pin Oak Creek on the Richland Creek Arm in Navarro County and to a point 4.0 km (2.5 miles) downstream of Tupelo Branch on the Chambers Creek Arm in Navarro County, up to normal pool elevation of 315 feet (impounds Richland and Chambers Creeks)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 44,752 Acres

**Use support summary:** All water quality measurements currently support use as a public water supply. However, atrazine concentrations in finished drinking water exceed 50% of the maximum contaminant level, indicating the use is threatened. 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 underway for atrazine 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	29
Industrial	3

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/05/1995	Richland–Chambers Reservoir, near dam	909000	Low Dissolved Oxygen

# Trinity River Basin

## Segment 0837 - Richland Creek Above Richland–Chambers Reservoir

**Water body description:** From the confluence of Pin Oak Creek in Navarro County to Navarro Mills Dam in Navarro County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

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

**Use support summary:** Available data indicate 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.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	7

# Trinity River Basin

## Segment 0838 - Joe Pool Lake

**Water body description:** From Joe Pool Dam in Dallas County up to the normal pool elevation of 522 feet (impounds Mountain Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 7,470 Acres

**Use support summary:** All water quality measurements currently support use as a public water supply. However, atrazine concentrations in finished drinking water exceed 50% of the maximum contaminant level, indicating the use is threatened. General uses are not supported due to elevated average sulfate and total dissolved solids concentrations. The aquatic life and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:**

Cadmium and chromium in sediment are concerns in the Mountain Creek arm (2,988 acres). Nickel in sediment is a concern in the Mountain Creek arm and the main body of the reservoir (5,976 acres).

**Additional information:**

A project is underway for atrazine 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.

A project is scheduled for sulfate and total dissolved solids 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
11071	Joe Pool Lake, Mountain Creek arm at Lake Ridge Parkway (Mansfield Road)
11072	Joe Pool Lake, Walnut Creek Arm at Lake Ridge Parkway (Lynn Road)
11073	Joe Pool Lake mid-lake at dam
13890	Joe Pool Lake USGS site AR
13891	Joe Pool Lake USGS site AC
13892	Joe Pool Lake USGS site BC
13893	Joe Pool Lake USGS site CR
13894	Joe Pool Lake USGS site CC
13895	Joe Pool Lake USGS site DC
13896	Joe Pool Lake USGS site EC

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	7
Industrial	3

## Trinity River Basin

### Segment 0839 - Elm Fork Trinity River Below Ray Roberts Lake

**Water body description:** From a point 100 meters (110 yards) upstream of US 380 in Denton County to Ray Roberts Dam in Denton County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

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

**Use support summary:** Available data indicate 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.

#### Wastewater dischargers

Permit type	Number of outfalls
Domestic	2

#### Historical fish kills

Start date	Location	Fish killed	Suspected cause
11/18/1995	Pecan Creek - at IH-35, five miles north of the city of Denton, TX	150	Organic compound

# Trinity River Basin

## Segment 0840 - Ray Roberts Lake

**Water body description:** From Ray Roberts Dam in Denton County to a point 9.5 km (5.9 miles) upstream of the confluence of Pecan Creek in Cooke County, up to the normal pool elevation of 632.5 feet (impounds Elm Fork Trinity River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 29,350 Acres

**Use support summary:** Available data indicate the aquatic life, public water supply, and general uses are supported. The fish consumption 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.

### Monitoring sites used in the assessment

Station	Station Description
14039	Ray Roberts Lake USGS site AC
14040	Ray Roberts Lake USGS site AL
14041	Ray Roberts Lake USGS site BC
14042	Ray Roberts Lake USGS site CC
14043	Ray Roberts Lake USGS site DC
14044	Ray Roberts Lake USGS site EC
14045	Ray Roberts Lake USGS site GC
14046	Ray Roberts Lake USGS site FC

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	12

# Trinity River Basin

## Segment 0841 - Lower West Fork Trinity River

**Water body description:** From a point immediately upstream of the confluence of the Elm Fork Trinity River in Dallas County to a point immediately upstream of the confluence of Village Creek in Tarrant County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

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

**Use support summary:** The contact recreation use is not supported through the lower 21 miles due to elevated fecal coliform densities. The fish consumption use is not supported through the entire segment, based on an aquatic life closure issued by the Texas Department of Health in January 1990, due to elevated concentrations of chlordane in fish tissue. The aquatic life and general uses are supported.

**Water quality concerns summary:** Nitrite + nitrate nitrogen, total phosphorus and chlorophyll *a*, are concerns in the lower 21 miles.

**Additional information:** A wasteload evaluation (WLE) for dissolved oxygen was approved in 1985 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

A total maximum daily load (TMDL) to evaluate the causes and sources of chlordane in fish tissue and allocate the allowable loading has been completed and approved by the Commission.

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
11081	Lower West Fork Trinity River at Belt Line Rd in Grand Prairie
11084	Lower West Fork Trinity River at SH 360 in Grand Prairie

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	13
Industrial	11

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
02/16/1995	1714 Valley View Lane in Irving, Texas	100	Low Dissolved Oxygen
03/08/1995	Interturbine in Grand Prairie, TX and Johnson Creek directly behind plant	80	Inorganic compound
04/01/1995	Hurricane Branch Drainage	40	Low Dissolved Oxygen
05/19/1995	City View Lake #1 off Overton Park Blvd. in Ft. Worth, TX	300	Organic compound
05/21/1995	Stilling basin of Lake Arlington	2000	Low Dissolved Oxygen
02/14/1996	Johnson Creek - across Ballpark Way in Arlington, TX	400	Temperature
07/23/1997	Johnson Creek - High School Baseball Stadium in Arlington, TX	100	Low Dissolved Oxygen
07/24/1997	Lakewood Addition - Arlington, TX	600	Low Dissolved Oxygen
03/24/1998	Rock Branch - South Collin Court, Arlington, TX	200	Inorganic compound

## Trinity River Basin

### Segment 0841A - Mountain Creek Lake (unclassified water body south of Grand Prairie in Dallas County)

**Water body description:** From Mountain Creek Lake Dam to the reservoir headwater at the confluence of Mountain and Fish Creeks, in Dallas County (impounds Mountain Creek)

**Water body classification:** Unclassified

**Water body type:** Reservoir

**Water body length / area:** 2,710 Acres

**Use support summary:** The fish consumption use is not supported through the entire reservoir, based on an aquatic life closure issued by the Texas Department of Health in April 1996 due to elevated concentrations of PCBs 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:** Total maximum daily loads (TMDLs) to evaluate the causes and sources of chlordane, DDD, DDE, DDT, dieldrin, heptachlor epoxide, and PCBs and allocate the allowable loading have been completed and approved by the Commission. 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/).

