Segment ID: 0606 **Water body name:** Neches River Above Lake Palestine

Freshwater Stream | Neches River Basin | Total size: 27 Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Aquatic Life Use						
Dissolved Oxygen grab average	No Concern	Lower boundary to Prairie Creek	3.8	19	0	
Dissolved Oxygen grab average	Use Concern	Prairie Creek to river mile 7.0	3.2	12	2	
Dissolved Oxygen grab average	Not Assessed	River mile 7.0 to headwaters	20	4	0	
Dissolved Oxygen grab minimum	Fully Supporting	Lower boundary to Prairie Creek	3.8	19	0	
Dissolved Oxygen grab minimum	Use Concern	Prairie Creek to river mile 7.0	3.2	12	2	
Dissolved Oxygen grab minimum	No Concern-Limited Data	River mile 7.0 to headwaters	20	4	0	
Dissolved Oxygen 24hr average	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	8	0	
Dissolved Oxygen 24hr average	Use Concern-Limited Data	Prairie Creek to river mile 7.0	3.2	4	4	
Dissolved Oxygen 24hr average	Not Assessed	River mile 7.0 to headwaters	20	3	2	
Dissolved Oxygen 24hr minimum	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	8	0	
Dissolved Oxygen 24hr minimum	Use Concern-Limited Data	Prairie Creek to river mile 7.0	3.2	4	4	
Dissolved Oxygen 24hr minimum	Not Assessed	River mile 7.0 to headwaters	20	3	1	
Acute Metals in water	Fully Supporting	Lower boundary to Prairie Creek	3.8	14	0	
Acute Metals in water Zinc	Not Supporting	Prairie Creek to river mile 7.0	3.2	15	5	
Acute Metals in water Zinc	Use Concern-Limited Data	River mile 7.0 to headwaters	20	4	2	
Chronic Metals in water	Fully Supporting	Lower boundary to Prairie Creek	3.8	14		
Chronic Metals in water Zinc	Not Supporting	Prairie Creek to river mile 7.0	3.2	15		72.6
Chronic Metals in water Zinc	Use Concern-Limited Data	River mile 7.0 to headwaters	20	4		85.3
Chronic Toxicity tests in water	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	4	0	
Habitat	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	1	0	20
Habitat	No Concern-Limited Data	River mile 7.0 to headwaters	20	1	0	24
Macrobenthos Community	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	1	0	26

Segment ID: 0606 **Water body name:** Neches River Above Lake Palestine

Freshwater Stream | Neches River Basin | Total size: 27 Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Aquatic Life Use (continued)						
Macrobenthos Community	Use Concern-Limited Data	Prairie Creek to river mile 7.0	3.2	1	0	20
Macrobenthos Community	Fully Supporting	River mile 7.0 to headwaters	20	2	0	27
Fish Community	No Concern-Limited Data	Lower boundary to Prairie Creek	3.8	1	0	45
Fish Community	Fully Supporting	Prairie Creek to river mile 7.0	3.2	2	0	45
Fish Community	Fully Supporting	River mile 7.0 to headwaters	20	2	0	50
Overall Aquatic Life Use	Fully Supporting	Lower boundary to Prairie Creek	3.8			
Overall Aquatic Life Use	Not Supporting	Prairie Creek to river mile 7.0	3.2			
Overall Aquatic Life Use	Fully Supporting	River mile 7.0 to headwaters	20			
Contact Recreation Use						
E. coli single sample	Not Assessed	Lower boundary to Prairie Creek	3.8	1	0	
E. coli single sample	Not Assessed	Prairie Creek to river mile 7.0	3.2	1	0	
E. coli single sample	Not Assessed	River mile 7.0 to headwaters	20	0		
E. coli geometric mean	Not Assessed	Lower boundary to Prairie Creek	3.8	1		5
E. coli geometric mean	Not Assessed	Prairie Creek to river mile 7.0	3.2	1		5
E. coli geometric mean	Not Assessed	River mile 7.0 to headwaters	20	0		
Fecal coliform single sample	Fully Supporting	Lower boundary to Prairie Creek	3.8	16	0	
Fecal coliform single sample	Fully Supporting	Prairie Creek to river mile 7.0	3.2	11	0	
Fecal coliform single sample	No Concern-Limited Data	River mile 7.0 to headwaters	20	4	0	
Fecal coliform geometric mean	Fully Supporting	Lower boundary to Prairie Creek	3.8	16		96
Fecal coliform geometric mean	Fully Supporting	Prairie Creek to river mile 7.0	3.2	11		
Fecal coliform geometric mean	No Concern-Limited Data	River mile 7.0 to headwaters	20	4		
Overall Recreation Use	Fully Supporting	Lower boundary to Prairie Creek	3.8			
Overall Recreation Use	Fully Supporting	Prairie Creek to river mile 7.0	3.2			

Segment ID: 0606 **Water body name:** Neches River Above Lake Palestine

Freshwater Stream | Neches River Basin | Total size: 27 Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Contact Recreation Use (continued)						
Overall Recreation Use	Not Assessed	River mile 7.0 to headwaters	20			
General Use						
Water Temperature	Fully Supporting	Lower boundary to Prairie Creek	3.8	21	0	
Water Temperature	Fully Supporting	Prairie Creek to river mile 7.0	3.2	12	0	
Water Temperature	No Concern-Limited Data	River mile 7.0 to headwaters	20	4	0	
pH	Fully Supporting	Lower boundary to Prairie Creek	3.8	21	0	
pH	Partially Supporting	Prairie Creek to river mile 7.0	3.2	15	3	
pH	Use Concern-Limited Data	River mile 7.0 to headwaters	20	4	2	
Chloride	Fully Supporting	Lower boundary to Prairie Creek	3.8	39		40.8
Chloride	Fully Supporting	Prairie Creek to river mile 7.0	3.2	39		40.8
Chloride	Fully Supporting	River mile 7.0 to headwaters	20	39		40.8
Sulfate	Fully Supporting	Lower boundary to Prairie Creek	3.8	39		46.1
Sulfate	Fully Supporting	Prairie Creek to river mile 7.0	3.2	39		46.1
Sulfate	Fully Supporting	River mile 7.0 to headwaters	20	39		46.1
Total Dissolved Solids	Fully Supporting	Lower boundary to Prairie Creek	3.8	42		233
Total Dissolved Solids	Fully Supporting	Prairie Creek to river mile 7.0	3.2	42		233
Total Dissolved Solids	Fully Supporting	River mile 7.0 to headwaters	20	42		233
Overall General Use	Fully Supporting	Lower boundary to Prairie Creek	3.8			
Overall General Use	Partially Supporting	Prairie Creek to river mile 7.0	3.2			
Overall General Use	Fully Supporting	River mile 7.0 to headwaters	20			
Fish Consumption Use						
Human Health Criteria Metals	Fully Supporting	Lower boundary to Prairie Creek	3.8	14		

Segment ID: 0606 **Water body name:** Neches River Above Lake Palestine

Freshwater Stream | Neches River Basin | Total size: 27 Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Fish Consumption Use (continued)						
Human Health Criteria Metals	Fully Supporting	Prairie Creek to river mile 7.0	3.2	12		
Human Health Criteria Metals	No Concern-Limited Data	River mile 7.0 to headwaters	20	4		
Overall Fish Consumption Use	Fully Supporting	Lower boundary to Prairie Creek	3.8			
Overall Fish Consumption Use	Fully Supporting	Prairie Creek to river mile 7.0	3.2			
Overall Fish Consumption Use	Not Assessed	River mile 7.0 to headwaters	20			
Public Water Supply Use						
Finished Water: Running Avg	Fully Supporting	Lower boundary to Prairie Creek	3.8			
Finished Water: Running Avg	Fully Supporting	Prairie Creek to river mile 7.0	3.2			
Finished Water: Running Avg	Fully Supporting	River mile 7.0 to headwaters	20			
Surface Water: Long-term average Metals	Fully Supporting	Lower boundary to Prairie Creek	3.8	14		
Surface Water: Long-term average Metals	Fully Supporting	Prairie Creek to river mile 7.0	3.2	12		
Surface Water: Long-term average Metals	No Concern-Limited Data	River mile 7.0 to headwaters	20	4		
Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Lower boundary to Prairie Creek	3.8	18		5.21
Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Prairie Creek to river mile 7.0	3.2	14		0.044
Surface Water: Long-term average Nitrate+Nitrite Nitrogen	No Concern-Limited Data	River mile 7.0 to headwaters	20	6		0.052
Surface Water: Running average Metals	Fully Supporting	Lower boundary to Prairie Creek	3.8	14	0	
Surface Water: Running average Metals	Fully Supporting	Prairie Creek to river mile 7.0	3.2	12	0	
Surface Water: Running average Metals	No Concern-Limited Data	River mile 7.0 to headwaters	20	4		
Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Lower boundary to Prairie Creek	3.8	18	0	

Segment ID: 0606 **Water body name:** Neches River Above Lake Palestine

Freshwater Stream | Neches River Basin | Total size: 27 Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Public Water Supply Use (continued)						
Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Prairie Creek to river mile 7.0	3.2	14	0	
Surface Water: Running average Nitrate+Nitrite Nitrogen	No Concern-Limited Data	River mile 7.0 to headwaters	20	6	0	
Overall Public Water Supply Use	Fully Supporting	Lower boundary to Prairie Creek	3.8			
Overall Public Water Supply Use	Fully Supporting	Prairie Creek to river mile 7.0	3.2			
Overall Public Water Supply Use	Fully Supporting	River mile 7.0 to headwaters	20			
Overall Use Support						
	Fully Supporting	Lower boundary to Prairie Creek	3.8			
	Not Supporting	Prairie Creek to river mile 7.0	3.2			
	Fully Supporting	River mile 7.0 to headwaters	20			
Nutrient Enrichment Concern						
Ammonia Nitrogen	No Concern	Lower boundary to Prairie Creek	3.8	18	1	
Ammonia Nitrogen	No Concern	Prairie Creek to river mile 7.0	3.2	12	0	
Ammonia Nitrogen	Not Assessed	River mile 7.0 to headwaters	20	4	0	
Nitrite + Nitrate Nitrogen	Concern	Lower boundary to Prairie Creek	3.8	18	15	
Nitrite + Nitrate Nitrogen	No Concern	Prairie Creek to river mile 7.0	3.2	12	0	
Nitrite + Nitrate Nitrogen	Not Assessed	River mile 7.0 to headwaters	20	4	0	
Orthophosphorus	No Concern	Lower boundary to Prairie Creek	3.8	17	1	
Orthophosphorus	No Concern	Prairie Creek to river mile 7.0	3.2	12	2	
Orthophosphorus	Not Assessed	River mile 7.0 to headwaters	20	4	0	
Total Phosphorus	No Concern	Lower boundary to Prairie Creek	3.8	18	0	
Total Phosphorus	No Concern	Prairie Creek to river mile 7.0	3.2	12	1	
Total Phosphorus	Not Assessed	River mile 7.0 to headwaters	20	4	0	

Segment ID: 0606 **Water body name:** Neches River Above Lake Palestine

Freshwater Stream | Neches River Basin | Total size: 27 Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Nutrient Enrichment Concern (continued)						
Overall Nutrient Enrichment Concerns	Concern	Lower boundary to Prairie Creek	3.8			
Overall Nutrient Enrichment Concerns	No Concern	Prairie Creek to river mile 7.0	3.2			
Overall Nutrient Enrichment Concerns	Not Assessed	River mile 7.0 to headwaters	20			
Algal Growth Concern						
Chlorophyll a	No Concern	Lower boundary to Prairie Creek	3.8	18	0	
Chlorophyll a	No Concern	Prairie Creek to river mile 7.0	3.2	12	0	
Chlorophyll a	Not Assessed	River mile 7.0 to headwaters	20	4	0	
Sediment Contaminants Concern						
85% Metals in sediment Manganese	Not Assessed	Lower boundary to Prairie Creek	3.8	3	1	
Metals in sediment	Not Assessed	River mile 7.0 to headwaters	20	1	0	
Overall Sediment Contaminant Concerns	Not Assessed	Lower boundary to Prairie Creek	3.8			
Overall Sediment Contaminant Concerns	Not Assessed	Prairie Creek to river mile 7.0	3.2			
Overall Sediment Contaminant Concerns	Not Assessed	River mile 7.0 to headwaters	20			
Fish Tissue Contaminants Concern						
Overall Fish Tissue Contaminant Concerns	Not Assessed	Lower boundary to Prairie Creek	3.8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Prairie Creek to river mile 7.0	3.2			
Overall Fish Tissue Contaminant Concerns	Not Assessed	River mile 7.0 to headwaters	20			
Public Water Supply Concern						
Finished Water: Chloride	No Concern	Lower boundary to Prairie Creek	3.8			

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Freshwater Stream | Neches River Basin | Total size: 27 Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Public Water Supply Concern (continued)						
Finished Water: Chloride	No Concern	Prairie Creek to river mile 7.0	3.2			
Finished Water: Chloride	No Concern	River mile 7.0 to headwaters	20			
Finished Water: Sulfate	No Concern	Lower boundary to Prairie Creek	3.8			
Finished Water: Sulfate	No Concern	Prairie Creek to river mile 7.0	3.2			
Finished Water: Sulfate	No Concern	River mile 7.0 to headwaters	20			
Finished Water: Total Dissolved Solids	No Concern	Lower boundary to Prairie Creek	3.8			
Finished Water: Total Dissolved Solids	No Concern	Prairie Creek to river mile 7.0	3.2			
Finished Water: Total Dissolved Solids	No Concern	River mile 7.0 to headwaters	20			
Finished Water: MTBE	No Concern	Lower boundary to Prairie Creek	3.8			
Finished Water: MTBE	No Concern	Prairie Creek to river mile 7.0	3.2			
Finished Water: MTBE	No Concern	River mile 7.0 to headwaters	20			
Finished Water: Perchlorate	Not Assessed	Lower boundary to Prairie Creek	3.8			
Finished Water: Perchlorate	Not Assessed	Prairie Creek to river mile 7.0	3.2			
Finished Water: Perchlorate	Not Assessed	River mile 7.0 to headwaters	20			
Finished Water: Overall	No Concern	Lower boundary to Prairie Creek	3.8			
Finished Water: Overall	No Concern	Prairie Creek to river mile 7.0	3.2			
Finished Water: Overall	No Concern	River mile 7.0 to headwaters	20			
Surface Water: Chloride	No Concern	Lower boundary to Prairie Creek	3.8	39		40.8
Surface Water: Chloride	No Concern	Prairie Creek to river mile 7.0	3.2	39		40.8
Surface Water: Chloride	No Concern	River mile 7.0 to headwaters	20	39		40.8
Surface Water: Sulfate	No Concern	Lower boundary to Prairie Creek	3.8	39		46.1
Surface Water: Sulfate	No Concern	Prairie Creek to river mile 7.0	3.2	39		46.1
Surface Water: Sulfate	No Concern	River mile 7.0 to headwaters	20	39		46.1

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Freshwater Stream | Neches River Basin | Total size: 27 Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Public Water Supply Concern (continued)						
Surface Water: Total Dissolved Solids	No Concern	Lower boundary to Prairie Creek	3.8	42		233
Surface Water: Total Dissolved Solids	No Concern	Prairie Creek to river mile 7.0	3.2	42		233
Surface Water: Total Dissolved Solids	No Concern	River mile 7.0 to headwaters	20	42		233
Surface Water: Overall	No Concern	Lower boundary to Prairie Creek	3.8			
Surface Water: Overall	No Concern	Prairie Creek to river mile 7.0	3.2			
Surface Water: Overall	No Concern	River mile 7.0 to headwaters	20			
Overall Public Water Supply Concerns	No Concern	Lower boundary to Prairie Creek	3.8			
Overall Public Water Supply Concerns	No Concern	Prairie Creek to river mile 7.0	3.2			
Overall Public Water Supply Concerns	No Concern	River mile 7.0 to headwaters	20			
Narrative Criteria Concern						
Overall Narrative Criteria Concerns	No Concern	Lower boundary to Prairie Creek	3.8			
Overall Narrative Criteria Concerns	No Concern	Prairie Creek to river mile 7.0	3.2			
Overall Narrative Criteria Concerns	No Concern	River mile 7.0 to headwaters	20			
Overall Secondary Concern						
	Concern	Lower boundary to Prairie Creek	3.8			
	No Concern	Prairie Creek to river mile 7.0	3.2			
	No Concern	River mile 7.0 to headwaters	20			