

Segment ID: 0702A **Water body name: Alligator Bayou (unclassified water body)**

Freshwater Stream

Neches-Trinity Coastal Basin

Total size:

7.11 Miles

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Aquatic Life Use

2004	Dissolved Oxygen grab average	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Dissolved Oxygen grab average	No Concern	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	17	1	
2004	Dissolved Oxygen grab average	Not Assess-Not Represent	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	9		
2004	Dissolved Oxygen grab minimum	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Dissolved Oxygen grab minimum	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	17	0	
2004	Dissolved Oxygen grab minimum	Not Assess-Not Represent	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	9		
2004	Dissolved Oxygen 24hr average	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Dissolved Oxygen 24hr average	No Concern-Limited Data	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	4	0	
2004	Dissolved Oxygen 24hr average	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	0		
2004	Dissolved Oxygen 24hr minimum	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Dissolved Oxygen 24hr minimum	No Concern-Limited Data	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	4	0	
2004	Dissolved Oxygen 24hr minimum	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	0		
2004	Acute Metals in water	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36			
2004	Acute Metals in water	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4			

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Aquatic Life Use (continued)

2004	Acute Metals in water Aluminum	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Acute Metals in water Arsenic	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Acute Metals in water Cadmium	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Acute Metals in water Chromium	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Acute Metals in water Copper	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Acute Metals in water Lead	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Acute Metals in water Nickel	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Acute Metals in water Selenium	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	5	0	
2004	Acute Metals in water Silver	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Acute Metals in water Zinc	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Chronic Metals in water	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36			
2004	Chronic Metals in water	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4			
2004	Chronic Metals in water Arsenic	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Chronic Metals in water Cadmium	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Chronic Metals in water Copper	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	

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Aquatic Life Use (continued)

2004	Chronic Metals in water Lead	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Chronic Metals in water Nickel	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Chronic Metals in water Selenium	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	5	0	
2004	Chronic Metals in water Zinc	Fully Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	10	0	
2004	Acute Organics in water	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36			
2004	Acute Organics in water	No Concern-Limited Data	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	4	0	
2004	Acute Organics in water	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4			
2004	Chronic Organics in water	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36			
2004	Chronic Organics in water	No Concern-Limited Data	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	4	0	
2004	Chronic Organics in water	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4			
2004	Acute Toxicity tests in water	Partially Supporting	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	9	3	
2004	Acute Toxicity tests in water	No Concern-Limited Data	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	9	1	
2004	Acute Toxicity tests in water	Partially Supporting	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	9	4	
2004	Chronic Toxicity tests in water	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		

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Aquatic Life Use (continued)

2004	Chronic Toxicity tests in water	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	0	0	
2004	Chronic Toxicity tests in water	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4			
2004	Acute Toxicity tests in sediment	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Acute Toxicity tests in sediment	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	0	0	
2004	Acute Toxicity tests in sediment	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4			
2004	Chronic Toxicity tests in sediment	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	1	1	
2004	Chronic Toxicity tests in sediment	Not Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	4	4	
2004	Chronic Toxicity tests in sediment	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	1	1	
2004	Habitat	Use Concern-Limited Data	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	1	1	13
2004	Habitat	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	0		
2004	Macrobenthos Community	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	0	0	
2004	Macrobenthos Community	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	0		
2004	Fish Community	Not Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	2	1	35
2004	Fish Community	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	0		

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Aquatic Life Use (continued)

2004	Overall Aquatic Life Use	Partially Supporting	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36			
2004	Overall Aquatic Life Use	Not Supporting	Lower portion from SH82 to its confluence with Taylor Bayou	1.35			
2004	Overall Aquatic Life Use	Partially Supporting	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4			

Contact Recreation Use

2004	E. coli single sample	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	E. coli single sample	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	0	0	
2004	E. coli single sample	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	0		
2004	E. coli geometric mean	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	E. coli geometric mean	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	0	0	
2004	E. coli geometric mean	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	0		
2004	Fecal coliform single sample	No Concern-Limited Data	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	8	2	
2004	Fecal coliform single sample	No Concern-Limited Data	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	8	2	
2004	Fecal coliform single sample	No Concern-Limited Data	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	8	2	
2004	Fecal coliform geometric mean	No Concern-Limited Data	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	8		149

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Nutrient Enrichment Concern

2004	Ammonia Nitrogen	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Ammonia Nitrogen	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	8	0	
2004	Ammonia Nitrogen	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	0		
2004	Nitrite + Nitrate Nitrogen	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Nitrite + Nitrate Nitrogen	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	8	1	
2004	Nitrite + Nitrate Nitrogen	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	0		
2004	Orthophosphorus	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Orthophosphorus	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	8	0	
2004	Orthophosphorus	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	0		
2004	Total Phosphorus	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Total Phosphorus	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	8	0	
2004	Total Phosphorus	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4	0		
2004	Overall Nutrient Enrichment Concerns	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36			
2004	Overall Nutrient Enrichment Concerns	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35			

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Nutrient Enrichment Concern (continued)

2004	Overall Nutrient Enrichment Concerns	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4			
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Algal Growth Concern

2004	Chlorophyll a	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Chlorophyll a	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	8	7	
2004	Chlorophyll a	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4			

Sediment Contaminants Concern

2004	PEL Metals in sediment Chromium	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	1	
2004	PEL Metals in sediment Lead	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	6	
2004	PEL Metals in sediment Zinc	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	2	
2004	85% Metals in sediment Arsenic	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	1	
2004	85% Metals in sediment Barium	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	4	
2004	85% Metals in sediment Cadmium	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	3	
2004	85% Metals in sediment Chromium	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	5	
2004	85% Metals in sediment Copper	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	6	
2004	85% Metals in sediment Lead	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	6	

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Sediment Contaminants Concern (continued)

2004	85% Metals in sediment Manganese	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	3	2	
2004	85% Metals in sediment Mercury	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	4	
2004	85% Metals in sediment Nickel	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	5	
2004	85% Metals in sediment Selenium	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	2	
2004	85% Metals in sediment Zinc	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	6	
2004	Metals in sediment	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Metals in sediment	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35			
2004	Metals in sediment	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4			
2004	PEL Organics in sediment Benzo(a)anthracene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	3	
2004	PEL Organics in sediment Benzo(a)pyrene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	1	
2004	PEL Organics in sediment Chrysene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	3	
2004	PEL Organics in sediment Fluoranthene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	2	
2004	PEL Organics in sediment Phenanthrene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	3	
2004	PEL Organics in sediment Pyrene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	3	

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Sediment Contaminants Concern (continued)

2004	85% Organics in sediment Anthracene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	2	
2004	85% Organics in sediment Benzo(a)anthracene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	3	
2004	85% Organics in sediment Benzo(a)pyrene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	2	
2004	85% Organics in sediment Benzo(b)fluoranthene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	1	
2004	85% Organics in sediment Benzo(ghi)perylene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	2	
2004	85% Organics in sediment Chrysene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	3	
2004	85% Organics in sediment Fluoranthene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	3	
2004	85% Organics in sediment Naphthalene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	3	1	
2004	85% Organics in sediment Phenanthrene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	3	
2004	85% Organics in sediment Pyrene	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	3	
2004	85% Organics in sediment bis(2ethylhexyl)phthalate	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35	7	1	
2004	Organics in sediment	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36	0		
2004	Organics in sediment	Not Assessed	Lower portion from SH82 to its confluence with Taylor Bayou	1.35			
2004	Organics in sediment	Not Assessed	Upper portion from its headwaters at the Port Arthur Canal to SH82	2.4			
2004	Overall Sediment Contaminant Concerns	Not Assessed	Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82	3.36			

