

## 6.0 APPENDICES

### APPENDIX A

### ANRA Clean Rivers Program Steering Committee Members

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David Wallace

Nolan Alders

Roland Adams

Ray Mize

Kevin Isom

Worth Whitehead

Wendy Ledbetter

Richard Donovan

Walter West

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## APPENDIX B

ANRA Data Analysis Results

Data Review Summary Tables  
Trend Analysis Results

### Segment 604

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite, Tot	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.											
Station 10478																								
CEDAR CREEK AT FM 2497 NORTH OF DIBOLL																								
COUNT	19	19	19	16	16	15	13	17	17	12	17													
MIN	6.7	7.8	5.1	0.02	0.20	0.0	0.01	35.0	26.4	58	256													
MAX	8.0	29.5	11.7	0.56	10.70	15.9	6.00	105.0	176.0	980	709													
MEAN	7.4	20.3	8.0	0.19	5.13	2.9	1.62	74.8	94.7	214	525													
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200													
DATA REVIEW	FS	0.0%	FS	0.0%	C	31.3%	C	68.8%	C	66.7%	C	69.2%	NS	74.8	NS	94.7	NS	214/8.3%	NS	525				
TREND		-1.7																						
Station 10492																								
JACK CREEK AT FM 2497 SOUTHWEST OF LUFKIN																								
COUNT	19	19	18	15	14	13	11	15	15	12	15													
MIN	6.7	5.7	2.6	0.01	0.50	0.0	0.0	33.5	19.1	13	206													
MAX	8.2	28.0	11.4	1.49	10.36	11.4	3.8	174.0	184.9	1540	868													
MEAN	7.4	18.4	7.6	0.28	3.22	2.0	1.0	94.3	68.3	148	516													
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200													
DATA REVIEW	FS	0.0%	FS	0.0%	FS	5.6%	C	46.7%	C	57.1%	C	53.8%	C	5.6%	63.6%	NS	94.3	NS	68.3	NS	148/8.3%	NS	516	
TREND						2.7														(FECAL)=	-1.6			
Station 10499																								
BILOXI CREEK AT ANGELINA CR216, SE OF LUFKIN, 1.4KM DOWNSTREAM OF US69																								
COUNT	12	12	12	12	12	12	11	12	12	12	12													
MIN	6.0	5.5	2.8	0.01	0.40	0.2	0.09	16.5	20.6	28	68													
MAX	7.7	26.0	11.0	1.14	2.40	1.6	0.96	179.9	228.5	2420	645													
MEAN	7.0	17.1	6.6	0.28	1.13	0.7	0.32	67.5	105.3	186	328													
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200													
DATA REVIEW	FS	0.0%	FS	0.0%	FS	8.3%	C	41.7%	NC	0.0%	NC	25.0%	NC	9.1%	NS	67.5	NS	105.3	NS	186/25%	NS	328		
TREND																								
Station 10585																								
NECHES RIVER AT US 69, 1.5 MI. NW OF ROCKLAND IN TYLER COUNTY																								
COUNT	23	23	23	22	21	20	19	23	23		10													
MIN	6.0	9.0	5.9	0.02	0.05	0.03	0.01	4.0	5.8		108													
MAX	7.8	34.0	10.5	0.13	0.32	0.19	0.16	34.0	36.1		161													
MEAN	6.8	22.5	7.6	0.04	0.14	0.06	0.03	23.4	22.7		135													
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0		200													
DATA REVIEW	FS	0.0%	FS	4.3%	FS	0.0%	NC	0.0%	NC	0.0%	NC	0.0%	NC	0.0%	FS	23.4	FS	22.7			FS	135		
TREND																								
Station 10586																								
NECHES RIVER AT US 59 SOUTH OF DIBOLL																								
COUNT	16	16	16	16	13	16	16	16	16	6	16													
MIN	6.3	7.7	5.5	0.05	0.05	0.1	0.06	15.0	18.0	51	98													
MAX	7.7	30.4	10.6	0.27	0.36	0.2	0.06	31.0	52.0	4838	200													
MEAN	7.0	19.8	7.7	0.07	0.21	0.1	0.06	21.6	24.3	239	145													
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200													
DATA REVIEW	FS	0.0%	FS	0.0%	FS	0.0%	NC	6.3%	NC	0.0%	NC	0.0%	NC	0.0%	FS	21.6	FS	24.3	PC	239/33.3%	FS	145	NC	12.5%
TREND																								
Station 10591																								
NECHES RIVER AT US 175 EAST OF FRANKSTON																								
COUNT	11	11	11	12	10	12	12	12	12	10	12													
MIN	6.6	8.1	3.5	0.05	0.08	0.05	0.06	11.00	14.00	8	73													
MAX	7.2	27.9	11.4	0.38	0.50	0.07	0.06	23.00	22.00	93	130													
MEAN	6.9	18.6	7.5	0.14	0.25	0.06	0.06	17.83	19.42	26	108													
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200													
DATA REVIEW	FS	0.0%	FS	0.0%	NC	25.0%	NC	0.0%	NC	0.0%	NC	0.0%	NC	0.0%	FS	17.8	FS	19.4	FS	26/0.0%	FS	108	C	50.0%
TREND																								
Station 13529																								
HURRICANE CREEK AT SH 324, 1MI SOUTH OF LUFKIN																								
COUNT	31	31	31	17	17	15	14	30	17	12	16													
MIN	6.8	5.4	0.2	0.01	0.10	0.10	0.05	6.00	12.9	54	224													
MAX	7.7	27.4	12.6	0.39	2.65	1.89	1.81	750.00	168.0	3110	666													
MEAN	7.2	19.7	7.0	0.13	0.88	0.50	0.27	69.07	83.1	281	381													
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200													
DATA REVIEW	FS	0.0%	FS	0.0%	FS	3.2%	C	29.4%	NC	0.0%	NC	6.7%	NC	7.1%	NS	69.1	NS	83.1	NS	281/50%	NS	381		
TREND						1.9																		

FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting  
 NC - No Concern, C - Concern, PC - Primary Concern

**Segment 604 continued**

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite,Total	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.
Station 13627 NECHES RIVER AT US 79, 4.4 MI. NORTH OF NECHES													
COUNT	42	45	42	16	35	16	40	40	40	10	16	16	16
MIN	6.0	8.0	5.2	0.05	0.05	0.0	0.01	14.0	14.1	16	91	1.0	1.0
MAX	8.7	32.0	10.9	0.17	0.51	0.1	0.06	27.0	25.7	210	310	12.0	12.0
MEAN	6.9	20.9	7.7	0.07	0.17	0.1	0.03	20.0	18.8	61	130	5.5	5.5
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200	11.6	11.6
DATA REVIEW	FS 2.4%	FS 0.0%	FS 0.0%	NC 0.0%	NC 0.0%	NC 0.0%	NC 0.0%	FS 20.0	FS 18.8	FS 61.0/0.0%	FS 130	NC 6.3%	6.3%
TREND				2.3			-1.8	-1.9					
Station 14794 NECHES RIVER AT SH 294 SOUTHWEST OF RUSK IN ANDERSON COUNTY													
COUNT	12	12	12	12	10	12	12	12	12	10	12	12	12
MIN	6.7	9.2	6.3	0.05	0.05	0.1	0.06	17.0	14.0	1	83	1.0	1.0
MAX	7.4	30.1	11.1	0.08	0.38	0.1	0.06	26.0	23.0	200	136	23.9	23.9
MEAN	6.9	19.6	8.2	0.05	0.21	0.1	0.06	20.3	18.1	39	115	6.4	6.4
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200	11.6	11.6
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC 0.0%	NC 0.0%	NC 0.0%	NC 0.0%	FS 20.3	FS 18.1	FS 39.0/0.0%	FS 115	NC 16.7%	16.7%
TREND													
Station 16081 PINEY CREEK AT FM1987, 3 MI. NE OF CORRIGAN													
COUNT	20	20	20	18	17	16	13	18	18	12	18	18	6
MIN	5.4	5.7	1.6	0.01	0.20	0.1	0.04	8.0	0.5	29	92	0.1	0.1
MAX	7.5	27.4	10.6	0.31	2.00	4.0	0.59	46.5	140.5	1990	282	4.0	4.0
MEAN	6.4	18.1	5.9	0.11	0.87	0.6	0.13	25.8	50.9	113	181	2.2	2.2
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200	5.0	5.0
DATA REVIEW	PS 15.0%	FS 0.0%	PS 25.0%	C 27.8%	NC 0.0%	NC 18.8%	NC 7.7%	FS 25.8	NS 50.9	FS 113/16.7%	FS 181	PC 100.0%	100.0%
TREND			2.1	1.9				1.7			(TSS) = -2.4		
Station 16097 BILOXI CREEK AT FM1818, 9 MI. EAST OF DIBOLL													
COUNT	20	20	20	18	17	16	13	18	18	12	18	18	6
MIN	6.1	4.8	3.0	0.01	0.10	0.04	0.01	15.0	28.1	22	154	2.9	2.9
MAX	7.4	27.2	12.2	0.21	1.69	3.40	0.24	110.0	204.8	2420	541	6.7	6.7
MEAN	6.8	17.6	7.9	0.08	0.80	0.54	0.11	45.4	89.9	249	287	5.1	5.1
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200	5.0	5.0
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC 11.1%	NC 0.0%	NC 18.8%	NC 0.0%	FS 45.4	NS 89.9	NS 249/41.7%	NS 287	PC 33.3%	33.3%
TREND													
Station 16098 BUCK CREEK AT FM1818, 11 MI. EAST OF DIBOLL													
COUNT	19	19	19	16	16	15	12	17	17	11	17	17	6
MIN	6.1	4.3	4.3	0.01	0.10	0.04	0.01	17.2	36.1	17	156	1.0	1.0
MAX	7.3	27.3	13.0	0.33	2.59	2.25	0.75	171.4	233.1	1200	752	10.8	10.8
MEAN	6.8	17.6	8.4	0.10	0.84	0.46	0.16	56.3	89.7	114	342	3.7	3.7
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200	11.6	11.6
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC 12.5%	NC 0.0%	NC 20.0%	NC 8.3%	NS 56.3	NS 89.7	FS 114/9.1%	NS 342	NC 0.0%	0.0%
TREND													
Station 17067 NECHES RIVER AT SH7, WEST OF LUFKIN													
COUNT	12	12	12	12	9	11	12	12	12	7	11	12	12
MIN	6.4	8.4	5.9	0.05	0.05	0.05	0.06	15.0	13.0	10	99	1.0	1.0
MAX	8.0	30.7	10.7	0.08	0.28	0.13	0.06	25.0	29.0	2827	143	10.8	10.8
MEAN	7.1	19.7	7.9	0.06	0.19	0.09	0.06	19.7	19.8	119	127	3.7	3.7
CRITERIA	6.0-8.5	32.8	3.0	0.17	2.76	0.8	0.5	50.0	50.0	126/394	200	11.6	11.6
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC 0.0%	NC 0.0%	NC 0.0%	NC 0.0%	FS 19.7	FS 19.8	PC 119/28.6%	FS 127.0	NC 0.0%	0.0%
TREND													

FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting  
 NC - No Concern, C - Concern, PC - Primary Concern

**Segment 605**

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite, Total	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.											
Station 10517 KICKAPOO CREEK AT FM 314 NEAR BROWNSBORO																								
COUNT	19	19	18	19	19	16	15	19	19	11	18		8											
MIN	5.8	7.7	1.9	0.010	0.2	0.008	0.001	9.9	19.4	18.7	97		0.6											
MAX	7.7	31	10.5	9.130	6.1	9.1	2.22	65	73.7	1160	436		5.07											
MEAN	6.8	18.8	5.8	1.356	1.3	1.0	0.43	33.0	41.2	189.5	214.2		2.8											
CRITERIA	6.0-8.5	32.2	3.0	0.170	2.76	0.80	0.50	50.0	50.0	126/394	200		5.0											
DATA REVIEW	FS	5.3%	FS	0.0%	PS	22.2%	C	63.2%	NC	5.3%	NC	18.8%	NC	20.0%	FS	33.0	FS	41.2	NS	189.5/18%	NS	214.2	PC	87.5%
TREND											(Cond.) =	2.0												
Station 10595 LAKE PALESTINE AT SH 31 NORTHEAST OF CHANDLER																								
COUNT	19	19	19	19	16	17	15	19	19	11	19	12												
MIN	6.1	6.1	3.8	0.030	0.52	0.02	0.04	17.7	14.9	20	112	1												
MAX	8.1	28.5	11	0.340	9.04	1.27	0.57	103	63.1	520	412	34.2												
MEAN	7.1	19.3	7.1	0.115	3.3	0.34	0.21	44.2	36.0	111.1	232.5	4.6												
CRITERIA	6.0-8.5	32.2	3.0	0.106	0.32	0.18	0.05	50.0	50.0	126/394	200	21.4												
DATA REVIEW	FS	0.0%	FS	0.0%	FS	0.0%	C	42.1%	C	100.0%	C	58.8%	C	53.3%	FS	44.2	FS	36.0	FS	111.1/9.1%	NS	232.5	NC	8.3%
TREND													-2.0											
Station 16345 LAKE PALESTINE UPPER LAKE AT THE MOUTH OF INDIAN CREEK IN THE OLD NECHES RIVER CHANNEL																								
COUNT	16	16	16	17	13	17	17	18	18	11	18	18												
MIN	6.5	6.1	2.9	0.050	0.48	0.05	0.06	17.0	16.0	16	117	1.0												
MAX	8	28.4	10.4	0.220	10.1	0.54	0.45	84.0	80.0	340	416	89.0												
MEAN	7.1	19.7	7.0	0.112	3.3	0.2	0.1	45.6	36.8	52.1	234.6	8.4												
CRITERIA	6.0-8.5	32.2	3.0	0.106	0.32	0.18	0.05	50.0	50.0	126/394	200	21.4												
DATA REVIEW	FS	0.0%	FS	0.0%	FS	6.3%	C	58.8%	C	100.0%	C	70.6%	C	41.2%	FS	45.6	FS	36.8	FS	52.1/0.0%	NS	234.6	NC	5.6%
TREND																								
Station 16159 LAKE PALESTINE AT DAM EQUIDISTANT FROM EAST AND WEST SHORELINES																								
COUNT	24	24	24	21	17	21	23	23	23	12	23	22												
MIN	6.5	6.8	3.8	0.050	0.05	0.02	0.06	12.0	9	1	85	1.0												
MAX	8.7	29.9	11.4	0.340	0.42	0.07	0.06	26.0	26	20	136	237.0												
MEAN	7.3	19.7	8.3	0.087	0.1	0.05	0.1	19.3	20.1	2.0	110.7	20.3												
CRITERIA	6.0-8.5	32.2	3.0	0.106	0.32	0.18	0.05	50.0	50.0	126/394	200	21.4												
DATA REVIEW	FS	8.3%	FS	0.0%	FS	0.0%	NC	19.0%	NC	11.8%	NC	0.0%	NC	0.0%	FS	19.3	FS	20.1	FS	2.0/0.0%	FS	110.7	NC	9.1%
TREND													1.91											
Station 16346 LAKE PALESTINE AT THE CITY OF TYLER RAW WATER INTAKE STRUCTURE																								
COUNT	20	20	20	17	14	17	17	17	17	13	17	17												
MIN	6.6	6.9	4.9	0.050	0.05	0.05	0.06	11.0	10	1	74	1												
MAX	9.4	30.6	11.4	0.050	0.25	0.34	0.06	27.0	32	9	136	78												
MEAN	7.6	22.2	8.7	0.050	0.1	0.1	0.1	19.6	21.0	2.1	115.8	20.7												
CRITERIA	6.0-8.5	32.2	3.0	0.106	0.32	0.18	0.05	50.0	50.0	126/394	200	21.4												
DATA REVIEW	PS	25.0%	FS	0.0%	FS	0.0%	NC	0.0%	NC	0.0%	NC	5.9%	NC	0.0%	FS	19.6	FS	21.0	FS	2.1/0.0%	FS	115.8	C	35.3%
TREND																								
FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting NC - No Concern, C - Concern, PC - Primary Concern																								



**Segment 606**

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite, Tot	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.											
Station 10596																								
NECHES RIVER AT FM 279 WEST OF TYLER AND NE OF CHANDLER																								
COUNT	2.0	20	2.0	2.0	17	2.0	2.0	21	21	10	20	20	3											
MIN	5.9	8.7	5.1	0.05	0.05	0.07	0.06	24.0	20.0	68	166	1	4.9											
MAX	7.4	27.4	10.5	0.32	11.00	0.69	0.62	93.0	66.0	214	400	3.46	6.8											
MEAN	6.9	18.36	7.6	0.10	4.49	0.32	0.22	52.7	39.2	135.1	255.6	1.57	5.6											
CRITERIA	6.0-8.5	35.0	3.0	0.17	2.76	0.8	0.5	100.0	50.0	126/394	300	11.6	4.0											
DATA REVIEW	FS	5.0%	FS	0.0%	FS	0.0%	NC	5.0%	FS	52.7	FS	255.6	NC	0.0%	NA	0.0%								
TREND		1.9	-5.4	2.3		-2.4		3.4																
Station 10597																								
NECHES RIVER AT SH 64 WEST OF TYLER																								
COUNT	2.0	20	2.0	2.1	18	2.1	2.1	20	20	10	20	20	5											
MIN	5.0	8.8	0.4	0.05	0.05	0.05	0.06	19	2	2	118	1	0.2											
MAX	7.1	27.2	9.7	2.54	0.80	2.25	0.27	52	166	276	385	26.7	7.6											
MEAN	6.5	17.5	4.4	0.28	0.11	0.28	0.07	29.9	34.3	67.2	205.0	5.5	2.5											
CRITERIA	6.0-8.5	35.0	3.0	0.17	2.76	0.8	0.5	100.0	50.0	126/394	300	11.6	4.0											
DATA REVIEW	PS	15.0%	FS	0.0%	NS	40.0%	NC	23.8%	NC	0.0%	NC	4.8%	NC	0.0%	FS	67.2/0.0%	FS	205.0	NC	15.0%	PC	80.0%		
TREND								-2.0					2.4											
Station 10598																								
NECHES RIVER AT COUNTY ROAD AT RIVER KM 53.4																								
COUNT	1.0	10	1.0	1.0	10	1.0	1.0	10	10	5	10	10	5											
MIN	5.4	12.7	1.6	0.05	0.05	0.05	0.06	15	6	52	97	1	3.7											
MAX	6.9	24.6	6.8	0.22	0.22	0.26	0.06	68	214	146	446	12.5	8											
MEAN	6.3	17.36	5.0	0.091	0.08	0.16	0.06	35.9	55.1	100.6	208.8	4.3	4.8											
CRITERIA	6.0-8.5	35.0	3.0	0.17	2.76	0.8	0.5	100.0	50.0	126/394	300	11.6	4.0											
DATA REVIEW	NS	30.0%	FS	0.0%	FS	10.0%	NC	10.0%	NC	0.0%	NC	0.0%	FS	35.9	NS	55.1	NA	100.6/0.0%	FS	208.8	NC	10.0%	PC	40.0%
TREND																								

FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting  
 NC - No Concern, C - Concern, PC - Primary Concern  
 NA - Not Assessed

### Segment 610

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite, Total	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.				
Station 10612																	
SAM RAYBURN RESERVOIR AT SH 147 BRIDGE SW OF BROADDUS AND NE OF ZAVALLA																	
COUNT	4.4	4.4	4.4	4.4	4.0	4.4	4.3	21	21	30	23	20					
MIN	4.9	7.4	2.7	0.010	0.02	0.01	0.001	10	15.2	1	69	1					
MAX	8.8	32.8	11.7	0.407	2.11	0.83	0.54	23	30	88	140	23.1					
MEAN	7.5	22.4	8.5	0.074	0.37	0.13	0.06	14.9	19.5	1.90	98.39	9.05					
CRITERIA	6.0-8.5	33.9	3.0	0.106	0.32	0.18	0.05	100.0	100.0	126/394	400	21.4					
DATA REVIEW	FS 6.8%	FS 0.0%	FS 2.3%	NC	22.7% C	40.0%	NC	13.6%	NC	9.3%	FS 14.9	FS 19.5	FS 1.9/0.0%	FS 98.4	NC	5.0%	
TREND			-1.8		3.3			3.1		-1.8			-2.4			2.21	
Station 10613																	
SAM RAYBURN RESERVOIR AT SH 103, 2.3 MI. WEST OF ETOILE																	
COUNT	2.0	2.0	2.0	2.0	1.7	2.1	2.1	21	21	6	21	20					
MIN	6.4	7.6	4.5	0.020	0.03	0.04	0.01	7	11	2	79	1					
MAX	8.4	32.0	10.8	0.200	0.27	0.52	0.06	149	88	125	512	16					
MEAN	7.3	20.4	8.00	0.061	0.10	0.14	0.06	30.6	30.8	5.69	169.0	5.48					
CRITERIA	6.0-8.5	33.9	3.0	0.106	0.32	0.18	0.05	100.0	100.0	126/394	400	21.4					
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC	10.0%	NC	0.0%	NC	19.0%	NC	0.0%	FS 30.6	FS 30.8	FS 5.7/0.0%	FS 169.0	NC	0.0%
TREND													-2.0				
Station 10614																	
SAM RAYBURN RESERVOIR AT SH 103, 6.5 MI. EAST OF ETOILE																	
COUNT	1.6	1.6	1.6	1.6	1.3	1.7	1.7	17	17	7	17	17					
MIN	6.4	6.3	6.3	0.020	0.05	0.02	0.01	6	8	2	71	0.767					
MAX	8.1	32.2	10.1	0.190	0.47	0.17	0.06	15	33	290	232	60.1					
MEAN	7.08	19.4	8.10	0.058	0.24	0.09	0.05	9.6	15.2	18.71	100.7	9.79					
CRITERIA	6.0-8.5	33.9	3.0	0.106	0.32	0.18	0.05	100.0	100.0	126/394	400	21.4					
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC	6.3%	C	30.8%	NC	0.0%	NC	0.0%	FS 9.6	FS 15.2	FS 18.7/0.0%	FS 100.7	NC	11.8%
TREND																	
Station 14906																	
SAM RAYBURN RESERVOIR AT MAIN POOL APPROXIMATELY 0.94 KM NORTH OF THE POWER PLANT INTAKE																	
COUNT	4.1	4.3	4.4	4.4	4.0	4.4	4.6	23	23	29	23	22					
MIN	6.5	8.0	6.2	0.010	0.02	0.01	0.001	11	16	1	71	1					
MAX	8.4	32.1	11.8	0.670	1.90	0.77	0.256	19	23	4	114	8.01					
MEAN	7.29	22.1	8.55	0.079	0.34	0.10	0.05	13.7	18.3	1.42	88.2	2.90					
CRITERIA	6.0-8.5	33.9	3.0	0.106	0.32	0.18	0.05	100.0	100.0	126/394	400	21.4					
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC	22.7%	C	42.5%	NC	9.1%	NC	6.5%	FS 13.7	FS 18.3	FS 1.4/0.0%	FS 88.2	NC	0.0%
TREND					1.8			-3.3									
Station 14907																	
SAM RAYBURN RESERVOIR AT FM 83 BRIDGE CROSSING APPROXIMATELY 14.5 KM WEST OF PINELAND																	
COUNT	1.7	1.7	1.7	1.7	1.3	1.7	1.7	17	17	6	17	16					
MIN	6.5	6.5	5.0	0.020	0.02	0.02	0.01	7.72	11	2	74	1					
MAX	7.8	30.8	10.9	0.140	0.17	0.12	0.06	19	25	240	188	19.8					
MEAN	7.0	19.5	7.4	0.061	0.07	0.06	0.05	11.4	16.2	8.74	102.9	6.85					
CRITERIA	6.0-8.5	33.9	3.0	0.106	0.32	0.18	0.05	100.0	100.0	126/394	400	21.4					
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC	17.6%	NC	0.0%	NC	0.0%	NC	0.0%	FS 11.4	FS 16.2	FS 8.7/0.0%	FS 102.9	NC	0.0%
TREND																	
Station 15361																	
AYISH BAYOU AT SH 103, 0.8 KM EAST OF FM 705																	
COUNT	2.1	2.1	2.0	1.1	1.1	9	7	11	11	10	11	2					
MIN	6.4	8.6	4.8	0.010	0.10	0.04	0.024	8.5	10	62.7	94	4.62					
MAX	7.7	27.2	11.9	0.080	3.20	1.05	0.582	16.5	45.9	416	4106	6.37					
MEAN	7.0	18.3	8.18	0.044	0.98	0.36	0.22	12.7	24.6	132.78	472.2	5.50					
CRITERIA	6.0-8.5	33.9	3.0	0.170	2.76	0.80	0.50	100.0	100.0	126/394	400	5.0					
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC	0.0%	NC	18.2%	NA	22.2%	NA	14.3%	FS 12.7	FS 24.6	NS 133/10.0%	NS 472.2	NA	50.0%
TREND														(Cond.) =		-1.8	

FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting,  
 NC - No Concern, C - Concern, PC - Primary Concern  
 NA - Not Assessed

**Segment 610 - continued**

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite, Total	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.	
Station 15522														
SAM RAYBURN RESERVOIR NEAR VEACH BASIN IN THE ANGELINA RIVER CHANNEL														
COUNT	23	24	24	24	24	24	23			24				
MIN	6.6	10.7	6.9	0.010	0.02	0.01	0.001			1				
MAX	8.4	30.6	11.7	0.390	2.20	1.65	0.31			2				
MEAN	7.4	24.1	8.62	0.084	0.51	0.21	0.05			1.09				
CRITERIA	6.0-8.5	33.9	3.0	0.106	0.32	0.18	0.05			126/394				
DATA REVIEW	FS	0.0%	FS	0.0%	C	37.5%	C	54.2%	NC	20.8%	NC	8.7%	FS	1.1/0.0%
TREND														
Station 15523														
SAM RAYBURN RESERVOIR ADJACENT TO ALLIGATOR COVE IN THE ATTOYAC RIVER CHANNEL														
COUNT	24	24	24	24	24	24	24			24				
MIN	6.4	11.5	6.8	0.010	0.10	0.04	0.001			1				
MAX	8.8	31.6	13.2	0.348	2.00	4.50	0.84			21.1				
MEAN	7.5	24.3	8.50	0.098	0.61	0.37	0.11			1.61				
CRITERIA	6.0-8.5	33.9	3.0	0.106	0.32	0.18	0.05			126/394				
DATA REVIEW	FS	8.3%	FS	0.0%	FS	0.0%	C	45.8%	C	79.2%	C	37.5%	NC	16.7%
TREND													FS	1.6/0.0%
Station 15524														
SAM RAYBURN RESERVOIR NEAR SHIRLEY CREEK IN THE ANGELINA RIVER CHANNEL														
COUNT	24	24	24	23	24	24	24			24				
MIN	6.5	11.2	6.8	0.010	0.10	0.04	0.012			1				
MAX	8.7	31.9	10.4	0.210	2.00	3.90	0.54			30.5				
MEAN	7.4	24.4	8.44	0.087	0.60	0.32	0.07			2.29				
CRITERIA	6.0-8.5	33.9	3.0	0.106	0.32	0.18	0.05			126/394				
DATA REVIEW	FS	8.3%	FS	0.0%	FS	0.0%	C	43.5%	C	75.0%	C	33.3%	NC	16.7%
TREND													FS	2.3/0.0%
Station 15526														
SAM RAYBURN RESERVOIR BETWEEN NEEDMORE POINT AND POWELL PARK IN THE AYISH BAYOU CHANNEL														
COUNT	23	24	24	24	24	24	23			24				
MIN	6.6	12.5	6.8	0.010	0.02	0.06	0.001			1				
MAX	8.5	30.3	11.4	0.840	2.20	0.60	0.195			5.2				
MEAN	7.4	24.1	8.55	0.101	0.53	0.15	0.04			1.17				
CRITERIA	6.0-8.5	33.9	3.0	0.106	0.32	0.18	0.05			126/394				
DATA REVIEW	FS	0.0%	FS	0.0%	FS	0.0%	C	29.2%	C	58.3%	NC	20.8%	NC	21.7%
TREND													FS	1.2/0.0%
Station 15527														
SAM RAYBURN RESERVOIR NEAR MILL CREEK PARK IN THE BEAR CREEK CHANNEL														
COUNT	23	24	24	23	24	24	23			24				
MIN	6.6	12.7	6.8	0.010	0.02	0.02	0.001			1				
MAX	8.3	31.0	10.8	0.640	2.20	0.74	0.11			7.4				
MEAN	7.38	24.3	8.46	0.095	0.50	0.14	0.04			1.64				
CRITERIA	6.0-8.5	33.9	3.0	0.106	0.32	0.18	0.05			126/394				
DATA REVIEW	FS	0.0%	FS	0.0%	FS	0.0%	C	30.4%	C	58.3%	NC	20.8%	NC	13.0%
TREND													FS	1.6/0.0%

FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting,  
 NC - No Concern, C - Concern, PC - Primary Concern  
 NA - Not Assessed



### Segment 611

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite, Total	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.												
Station 10474																									
LA NANA BAYOU AT NACOGDOCHES CR 526, 6.9 MI. SOUTH OF NACOGDOCHES BETWEEN FM 2863 AND FM 1275																									
COUNT	19	19	19	17	19	17	13	18	19	12	19														
MIN	6.2	4.2	2.8	0.01	0.85	0.043	0.151	11	22.3	29.8	87														
MAX	7.4	27.6	13.4	0.34	3.80	7.3	4.12	100	108	2420	340														
MEAN	7.1	18.7	7.8	0.16	1.54	2.1	1.1	41.8	39.5	264.1	200.2														
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	125.0	50.0	126/394	250														
DATA REVIEW	FS	0.0%	FS	0.0%	FS	10.5%	C	47.1%	NC	10.5%	C	70.6%	C	61.5%	FS	41.8	FS	39.5	NS	264/25.0%	FS	200.2			
TREND																									
Station 10475																									
LA NANA BAYOU AT LOOP 224 S OF NACOGDOCHES																									
COUNT	19	19	19	17	19	17	13	19	20	12	19														
MIN	6.9	2.7	5	0.01	0.30	0.013	0.03	8	11.6	19.9	68														
MAX	7.8	28	14.4	0.18	1.70	2.55	0.209	40	35.8	3970	340														
MEAN	7.3	18.5	9.7	0.09	0.94	0.3	0.1	14.0	22.4	562.0	125.8														
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	125.0	50.0	126/394	250														
DATA REVIEW	FS	0.0%	FS	0.0%	NC	5.9%	NC	0.0%	FS	14.0	FS	125.8													
TREND																									
Station 10532																									
MUD CREEK AT US 84 SW OF REKLAW																									
COUNT	18	19	19	19	19	17	15	19	19	12	19														
MIN	6.1	6.5	4.3	0.01	0.10	0.071	0.04	9.5	10.7	35	82														
MAX	7.9	28.4	13.4	0.41	9.00	1.5	0.83	35.9	80	727	320														
MEAN	7.0	16.8	8.4	0.10	1.84	0.4	0.16	19.3	44.7	146.8	168.2														
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	125.0	50.0	126/394	250														
DATA REVIEW	FS	0.0%	FS	0.0%	NC	15.8%	NC	10.5%	NC	17.6%	NC	6.7%	FS	19.3	FS	44.7	NS	147/8.3%	FS	168.2					
TREND																									
Station 10540																									
WEST MUD CREEK AT FM 346 SOUTH OF TYLER																									
COUNT	18	19	19	19	19	17	15	19	19	12	19														
MIN	6.6	9.8	4.8	0.01	0.8	0.09	0.02	17.5	4.18	23.1	126.7														
MAX	7.5	27.9	12	0.60	13.4	5.6	2.01	49	49.6	429	376														
MEAN	7.1	19.3	7.8	0.18	3.9	1.7	0.86	36.3	39.0	124.7	235.4														
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	125.0	50.0	126/394	250														
DATA REVIEW	FS	0.0%	FS	0.0%	C	31.6%	C	68.4%	C	58.8%	C	73.3%	FS	36.3	FS	39.0	FS	125/8.3%	FS	235.4					
TREND																									
Station 10552																									
EAST FORK ANGELINA RIVER AT FM 225																									
COUNT	18	18	18	16	13	13	10	16	16	10	16	10													
MIN	5.5	6.8	6.2	0.03	0.07	0.05	0.06	6	4	35	63.3	1													
MAX	7.3	25.8	11.8	0.40	0.50	1.3	0.06	142.4	24	550	119	5.34													
MEAN	6.7	16.9	8.6	0.08	0.27	0.2	0.06	18.6	12.5	94.2	84.6	1.7													
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	125.0	50.0	126/394	250	11.6													
DATA REVIEW	FS	5.6%	FS	0.0%	FS	0.0%	NC	12.5%	NC	0.0%	NC	7.7%	NC	0.0%	FS	18.6	FS	12.5	FS	94/10.0%	FS	84.6	NC	0.0%	
TREND																									

FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting  
 NC - No Concern, C - Concern, PC - Primary Concern

**Segment 611 - continued**

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite, Total	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.		
Station 10627															
ANGELINA RIVER BRIDGE ON US 59 NORTH OF LUFKIN															
COUNT	25	25	25	18	20	18	22	23	23	6	20	18			
MIN	6.2	7.2	4.8	0.05	0.05	0.06	0.01	8	14	40	93	1			
MAX	7.4	30.6	10.5	0.09	0.76	0.18	0.06	30.6	63	1842	256	3.61			
MEAN	6.8	20.7	7.1	0.05	0.3	0.1	0.05	17.4	24.1	253.5	138.5	1.6			
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	125.0	50.0	126/394	250	11.6			
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC	0.0%	NC	0.0%	NC	0.0%	FS 17.4	FS 24.1	PC 253/33.3%	FS 138.5	NC 0.0%	
TREND		2.9		3.3			(O-PO4) = -4.1				(Cond.) = 1.6				
Station 10630															
ANGELINA RIVER AT SH 21 EAST OF ALTO															
COUNT	20	22	20	21	18	21	21	21	21	9	21	21			
MIN	6.2	8.6	5.4	0.05	0.05	0.05	0.06	8	8	20	58	1			
MAX	7.5	30.2	10.4	0.24	1.09	0.24	0.06	35	43	122	374	18.7			
MEAN	6.9	19.1	7.7	0.07	0.3	0.12	0.06	18.0	26.4	50.3	160.2	2.3			
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	125.0	50.0	126/394	250	11.6			
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC	4.8%	NC	0.0%	NC	0.0%	FS 18.0	FS 26.4	FS 50/0.0%	FS 160.2	NC 4.8%	
TREND						1.8									
Station 10633															
ANGELINA RIVER AT SH 204 WEST OF CUSHING															
COUNT	17	18	18	18	18	16	14	18	18	11	18		6		
MIN	5.5	6.6	3.8	0.01	0.10	0.083	0.02	12.9	9.7	38.8	56		4.6		
MAX	8.0	28.3	13.6	0.23	2.65	1.6	0.95	39	49.3	651	218		6.6		
MEAN	6.8	17.3	8.0	0.06	0.98	0.5	0.18	22.3	28.6	133.3	124.6		5.7		
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	125.0	50.0	126/394	250		5.0		
DATA REVIEW	FS 11.8%	FS 0.0%	FS 0.0%	NC	5.6%	NC	0.0%	NC	25.0%	NC 14.3%	FS 22.3	NS 133/18.2%	FS 124.6	PC 16.7%	
TREND										(FECAL) = -3.1					
Station 10635															
ANGELINA RIVER AT FM 1798 WEST OF LANEVILLE															
COUNT	11	11	11	11	8	11	11	11	11	9	11	11			
MIN	6.5	7.9	5.6	0.05	0.24	0.09	0.06	13	8	36	97	1			
MAX	7.3	27.5	11.1	0.09	0.76	0.88	0.50	26	22	272	162	3.56			
MEAN	6.9	16.1	8.6	0.06	0.41	0.30	0.16	16.3	14.4	82.7	118.1	1.4			
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	125.0	50.0	126/394	250	11.6			
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC	0.0%	NC	0.0%	NC	9.1%	NC 0.0%	FS 16.3	FS 14.4	FS 83/0.0%	FS 118.1	NC 0.0%
TREND															
Station 14477															
MUD CREEK AT US 79 BETWEEN JACKSONVILLE AND NEW SUMMERFIELD															
COUNT	11	12	12	12	12	12	12	11	11	12	12		4		
MIN	6.5	6.6	4.9	0.01	0.10	0.08	0.04	13.5	18.39	14.8	106		4.9		
MAX	7.7	27.7	13.2	0.262	3.66	2.00	1.48	32	49.5	1120	184		5.6		
MEAN	7.0	16.4	8.1	0.09	1.67	0.64	0.26	24.5	32.4	62.5	150.4		5.2		
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	125.0	50.0	126/394	250		5.0		
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC	16.7%	NC	25.0%	C 33.3%	NC 8.3%	FS 24.5	FS 32.4	FS 62.5/8.3%	FS 150.4	PC 50.0%	
TREND															

FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting  
NC - No Concern, C - Concern, PC - Primary Concern

### Segment 612

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite, Tot	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.
Station 10636													
ATTOYAC BAYOU AT SH 21 EAST OF CHIRENO													
COUNT	27	27	27	25	16	19	22	26	26	13	24	5	2
MIN	5.7	6.1	5.2	0.01	0.3	0.1	0.01	7.5	5.7	32.4	58.0	0.995	6.1
MAX	8.9	29.0	11.6	0.13	5.4	1.6	0.71	44.0	162.5	1373.0	140.0	2.67	7.1
MEAN	7.1	19.5	8.0	0.05	1.6	0.3	0.08	12.0	25.6	195.4	98.7	1.52	6.6
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	75.0	50.0	126/394	200	11.6	5.0
DATA REVIEW	FS 7.4%	FS 0.0%	FS 0.0%	NC 0.0%	NC 18.8%	NC 10.5%	NC 4.5%	FS 12.0	FS 25.6	NS 195/30.8%	FS 98.7	NA 0.0%	NA 0.0%
TREND	2.2							2.3					
Station 16076													
ATTOYAC BAYOU AT US 59 NE OF GARRISON													
COUNT	19	19	19	19	19	16	14	18	19	12	19		
MIN	5.8	2.2	5.0	0.0	0.1	0.0	0.0	9.0	4.0	95.9	44.0		
MAX	7.8	26.4	13.2	0.2	3.9	0.9	0.9	40.0	47.6	548.0	147.0		
MEAN	6.9	17.3	8.5	0.1	1.1	0.2	0.1	13.6	18.8	259.0	89.1		
CRITERIA	6.0-8.5	32.2	3.0	0.17	2.76	0.8	0.5	75.0	50.0	126/394	200		
DATA REVIEW	FS 5.3%	FS 0.0%	FS 0.0%	NC 5.3%	NC 5.3%	NC 6.3%	NC 7.1%	FS 13.6	FS 18.8	NS 259/25.0%	FS 89.1		
TREND				-2.1			1.7						

FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting  
 NC - No Concern, C - Concern, PC - Primary Concern  
 NA - Not Assessed

### Segment 613

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite, Tot	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.
Station 10637													
LAKE TYLER MIDLAKE AT DAM IN SPILLWAY BAY EQUIDISTANT FROM ALL SHORELINES													
COUNT	21	21	21	20	16	19	20	20	20	11	20	20	
MIN	6.8	6.2	6.4	0.05	0.05	0.02	0.06	8	7	1	10	1.0	
MAX	8.4	32.2	11.9	0.12	0.18	0.09	0.06	11	12	19	92	18.4	
MEAN	7.4	20.3	8.6	0.1	0.09	0.05	0.06	9.5	9.5	1.7	68.8	6.3	
CRITERIA	6.5-9.0	33.9	3.0	0.106	0.32	0.18	0.05	50.0	50.0	126/394	200	21.4	
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC 10.0%	NC 0.0%	NC 0.0%	NC 0.0%	FS 9.5	FS 9.5	FS 1.7/0.0%	FS 68.8	NC 0.0%	
TREND													
Station 10638													
LAKE TYLER EAST MIDLAKE NEAR DAM													
COUNT	22	22	22	21	17	20	23	23	23	11	23	23	
MIN	6.5	6.5	6.2	0.05	0.05	0.03	0.06	9	5	1	10	1	
MAX	8.4	32.5	12.1	0.19	0.12	0.05	0.06	14	12	35	83	19.4	
MEAN	7.2	19.8	8.4	0.08	0.1	0.05	0.06	11.0	7.7	2.0	65.2	6.5	
CRITERIA	6.5-9.0	33.9	3.0	0.106	0.32	0.18	0.05	50.0	50.0	126/394	200	21.4	
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC 23.8%	NC 0.0%	NC 0.0%	NC 0.0%	FS 11.0	FS 7.7	FS 2.0/0.0%	FS 65.2	NC 0.0%	
TREND				2.5									
Station 14235													
LAKE TYLER EAST AT SH 64 IN UPPER LAKE													
COUNT	19	20	20	21	18	20	21	21	21	10	21	21	
MIN	6.4	6.2	6.0	0.05	0.05	0.01	0.06	7	6	1	55	1	
MAX	7.9	32.6	10.6	0.16	0.17	0.08	0.06	18	15	490	92	20.5	
MEAN	7.1	21.0	8.4	0.1	0.1	0.06	0.06	12.7	8.1	6.5	75.1	7.9	
CRITERIA	6.5-9.0	33.9	3.0	0.106	0.32	0.18	0.05	50.0	50.0	126/394	200	21.4	
DATA REVIEW	FS 5.3%	FS 0.0%	FS 0.0%	NC 9.5%	NC 0.0%	NC 0.0%	NC 0.0%	FS 12.7	FS 8.1	FS 6.5/10.0%	FS 75.1	NC 0.0%	
TREND				1.7									2.87
Station 15210													
LAKE TYLER AT LANGLEY ISLAND APPROXIMATELY 100 METERS WEST OF CITY OF TYLER'S WATER INTAKE STRUCTURE													
COUNT	21	21	21	21	17	20	21	21	21	11	21	21	
MIN	6.4	6.7	6.6	0.050	0.05	0.01	0.06	8	6	1	44	1.0	
MAX	8.6	31.7	12.1	0.110	0.24	0.08	0.06	11	12	16	90	24.0	
MEAN	7.3	20.6	8.9	0.056	0.09	0.0	0.06	9.4	9.3	2.6	72.0	6.9	
CRITERIA	6.5-9.0	33.9	3.0	0.106	0.32	0.18	0.05	50.0	50.0	126/394	200	21.4	
DATA REVIEW	FS 4.8%	FS 0.0%	FS 0.0%	NC 4.8%	NC 0.0%	NC 0.0%	NC 0.0%	FS 9.4	FS 9.3	FS 2.6/0.0%	FS 72.0	NC 4.8%	
TREND							-4.3						2.71

FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting,  
 NC - No Concern, C - Concern, PC - Primary Concern

### Segment 614

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite, Total	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.
Station 10639													
LAKE JACKSONVILLE APPROX 100M UPSTREAM OF DAM AND EQUIDISTANT FROM BOTH SHORELINES													
COUNT	19	19	19	18	15	18	18	18	18	12	18	17	
MIN	6.6	7.9	6.5	0.05	0.05	0.01	0.06	6	5	1	18	1	
MAX	7.9	31	10.7	0.09	0.19	0.05	0.06	10	6	17	71	5.51	
MEAN	7.3	21.8	8.2	0.05	0.08	0.05	0.06	7.1	5.6	1.6	59.3	2.1	
CRITERIA	6.5-9.0	33.9	3.0	0.106	0.32	0.18	0.05	50.0	75.0	126/394	750	21.4	
DATA REVIEW	FS 0.0%	FS 0.0%	FS 0.0%	NC 0.0%	NC 0.0%	NC 0.0%	NC 0.0%	FS 7.1	FS 5.6	FS 1.6/0.0%	FS 59.3	NC 0.0%	
TREND													
Station 16535													
LAKE JACKSONVILLE UPPER LAKE NEAR RAW WATER INTAKE STRUCTURE													
COUNT	18	18	18	17	14	17	17	17	17	12	17	16	
MIN	7.0	7.4	6.0	0.050	0.05	0.01	0.06	6.0	5.0	1.0	35.0	1.0	
MAX	9.1	32.2	10.5	0.060	0.13	0.05	0.06	9.0	6.0	291.0	75.0	10.3	
MEAN	7.6	21.9	8.6	0.051	0.07	0.05	0.06	7.0	5.6	2.8	60.1	2.4	
CRITERIA	6.5-9.0	33.9	3.0	0.106	0.32	0.18	0.05	50.0	75.0	126/394	750	21.4	
DATA REVIEW	FS 5.6%	FS 0.0%	FS 0.0%	NC 0.0%	NC 0.0%	NC 0.0%	NC 0.0%	FS 7.0	FS 5.6	FS 2.8/0.0%	FS 60.1	NC 0.0%	
TREND													

FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting  
 NC - No Concern, C - Concern, PC - Primary Concern

### Segment 615

	pH	Temp.	DO	Ammonia-Nitrogen	Nitrate+Nitrite, Total	Phosphorus, Total	Phosphorus, Ortho	Chloride	Sulfate	E. coli	TDS	Chlorophyll a	24 Hour DO Avg.
Station 10502													
PAPER MILL CREEK UPPER BIFURCATION CHANNEL, JUST UPSTREAM OF ANGELINA RIVER CONFLUENCE													
COUNT	18	18	18	21	17	20	21	21	21	5	21	21	6
MIN	6.6	7.0	2.0	0.050	0.05	0.05	0.06	8.0	1.0	90.0	86.0	1.0	2.3
MAX	8.2	32.4	9.7	3.400	8.63	7.17	0.90	592.0	646.0	2407.0	2380.0	28.0	7.3
MEAN	7.5	22.5	4.8	0.939	1.53	0.87	0.31	250.2	273.1	461.2	1153.2	2.5	4.2
CRITERIA	6.5-9.0	33.9	3.0	0.170	0.80	0.80	0.50	150.0	100.0	126/394	500	21.4	5.0
DATA REVIEW	FS 0.0%	FS 0.0%	NS 27.8%	C 61.9%	NC 11.8%	C 30.0%	NC 19.0%	NS 250.2	NS 273.1	PC 126/394	NS 1153.2	NC 21.4	PC 66.7%
TREND													
Station 10621													
SAM RAYBURN RESERVOIR ANGELINA RIVER 0.7 KM DOWNSTREAM OF CONFLUENCE WITH PAPER MILL CREEK LOWER CHANNEL													
COUNT	19	19	19	21	17	20	20	21	21	6	21	21	8
MIN	6.5	7.3	2.9	0.050	0.05	0.07	0.1	8.0	16.0	40.0	122.0	1.0	2.8
MAX	7.6	31.2	10.0	0.920	1.81	0.75	0.5	186.0	205.0	2599.0	842.0	10.3	6.6
MEAN	7.0	20.3	6.1	0.193	0.55	0.23	0.1	60.5	75.7	275.4	353.9	2.4	4.6
CRITERIA	6.5-9.0	33.9	3.0	0.106	0.32	0.18	0.05	150.0	100.0	126/394	500	21.4	5.0
DATA REVIEW	FS 0.0%	FS 0.0%	FS 5.3%	C 33.3%	C 58.8%	C 60.0%	C 30.0%	FS 60.5	FS 75.7	PC 126/394	FS 353.9	NC 0.0%	PC 75.0%
TREND													
Station 10623													
SAM RAYBURN RESERVOIR AT CONFL. OF ANGELINA RIVER, 0.75KM NW OF PAPER MILL CREEK													
COUNT	20	20	20	22	18	20	21	22	22	5	22	22	5
MIN	6.3	6.9	4.1	0.050	0.05	0.06	0.06	8.0	11.0	10.0	97.0	1.0	3.6
MAX	7.3	31.1	10.2	0.100	1.14	0.73	0.45	38.0	68.0	1961.0	300.0	11.6	9.2
MEAN	6.8	19.9	6.8	0.055	0.33	0.16	0.08	18.4	24.7	123.6	142.4	2.6	6.2
CRITERIA	6.5-9.0	33.9	3.0	0.106	0.32	0.18	0.05	150.0	100.0	126/394	500	21.4	5.0
DATA REVIEW	FS 5.0%	FS 0.0%	FS 0.0%	NC 0.0%	C 44.4%	NC 10.0%	NC 4.8%	FS 18.4	FS 24.7	NA 123.6/20.0	FS 142.4	NC 0.0%	PC 20.0%
TREND											(Cond.) = 1.9		

FS - Fully Supporting, PS - Partially Supporting, NS - Not Supporting  
 NC - No Concern, C - Concern, PC - Primary Concern  
 NA - Not Assessed

## Segment 604

Parameter	Storet	Station ID	Location	Data Points	R-squared	t-ratio	P-value
Flow (Winter)	00061	10585	Neches River at US 69 (Rockland)	29	0.17	-2.34	0.030
Orthophosphorus	70507	13627	Neches River at US 79	28	0.11	-1.81	0.080
Chloride	00940	13627	Neches River at US 79	90	0.04	-1.89	0.060
pH	00400	10478	Cedar Creek at FM 2497	31	0.09	-1.69	0.100
TSS	00530	16081	Piney Creek at FM 1987	21	0.23	-2.37	0.030
Fecal Coliform	31616	10492	Jack Creek at FM 2497	26	0.10	-1.64	0.110
Flow (Winter)	00061	13529	Hurricane Creek at SH 324	25	0.11	-1.71	0.100
Ammonia-Nitrogen	00610	16081	Piney Creek at FM 1987	21	0.16	1.89	0.070
Ammonia-Nitrogen	00610	13627	Neches River at US 79	31	0.15	2.27	0.030
Sulfate	00945	16081	Piney Creek at FM 1987	20	0.13	1.67	0.110
DO Deficit	00300	16081	Piney Creek at FM 1987	23	0.17	2.09	0.050
DO Deficit	00300	13529	Hurricane Creek at SH 324	41	0.09	1.91	0.060
DO Deficit (Winter)	00300	10492	Jack Creek at FM 2497	17	0.33	2.71	0.020
DO Deficit (Winter)	00300	13529	Hurricane Creek at SH 324	24	0.12	1.75	0.090

Decreasing Trend  
Increasing Trend

## Segment 605

Parameter	Storet	Station ID	Location	Data Points	R-squared	t-ratio	P-value
Ammonia-Nitrogen	00610	10595	Lake Palestine at SH 31	23	0.15	-1.96	0.060
TSS	00530	10517	Kickapoo Creek at FM 314	22	0.13	1.70	0.100
Conductivity	00094	10517	Kickapoo Creek at FM 314	31	0.12	2.02	0.050
Chlorophyll-a	32211	16159	Lake Palestine at Dam	22	0.15	1.91	0.070

## Segment 606

Parameter	Storet	Station ID	Location	Data Points	R-squared	t-ratio	P-value
Orthophosphorus	70507	10597	Neches River at SH 64	24	0.16	-2.02	0.060
DO Deficit	00300	10596	Neches River at FM 279	47	0.39	-5.37	0.000
Total Phosphorus	00665	10596	Neches River at FM 279	37	0.14	-2.40	0.020
DO Deficit (Winter)	00300	10596	Neches River at FM 279	35	0.50	-5.80	0.000
Water Temp.	00010	10596	Neches River at FM 279	49	0.07	1.90	0.060
Chlorophyll-a	32211	10597	Neches River at SH 64	24	0.21	2.40	0.020
Chloride	00940	10596	Neches River at FM 279	50	0.19	3.38	0.001
Ammonia-Nitrogen	00610	10596	Neches River at FM 279	37	0.14	2.30	0.020

### Segment 610

Parameter	Storet	Station ID	Location	Data Points	R-squared	t-ratio	P-value
Chloride	00940	10612	Lake Sam Rayburn at SH 147 Bridge	35	0.09	-1.83	0.080
Chloride	00940	14906	Lake Sam Rayburn at Main Pool	27	0.31	-3.34	0.003
TDS	70300	10612	Lake Sam Rayburn at SH 147 Bridge	32	0.17	-2.44	0.020
TDS	70300	14906	Lake Sam Rayburn at Main Pool	27	0.29	-3.16	0.004
TDS	70300	10613	Lake Sam Rayburn at SH 103	35	0.11	-2.01	0.050
DO Deficit (Winter)	00300	10612	Lake Sam Rayburn at SH 147 Bridge	30	0.11	-1.82	0.080
Conductivity	00094	15361	Ayish Bayou at SH 103	30	0.10	-1.77	0.090
Conductivity	00094	10612	Lake Sam Rayburn at SH 147 Bridge	54	0.06	-1.79	0.080
Conductivity	00094	14906	Lake Sam Rayburn at Main Pool	44	0.18	-3.09	0.003
Ammonia-Nitrogen	00610	10612	Lake Sam Rayburn at SH 147 Bridge	56	0.17	3.27	0.002
Ammonia-Nitrogen	00610	14906	Lake Sam Rayburn at Main Pool	45	0.07	1.77	0.080
Chlorophyll-a	32211	10612	Lake Sam Rayburn at SH 147 Bridge	34	0.13	2.21	0.030
Total Phosphorus	00665	10612	Lake Sam Rayburn at SH 147 Bridge	56	0.15	3.13	0.003

### Segment 611

Parameter	Storet	Station ID	Location	Data Points	R-squared	t-ratio	P-value
DO Deficit	00300	10475	La Nana Bayou at Loop 224	29	0.23	-2.85	0.008
Orthophosphorus	00671	10627	Angelina River at US 59 Bridge	41	0.30	-4.08	0.000
Fecal Coliform	31616	10532	Mud Creek at US 84	28	0.27	-3.07	0.005
Fecal Coliform	31616	10474	La Nana Bayou at CR 526	26	0.17	-2.25	0.030
Fecal Coliform	31616	10633	Angelina River at SH 204	27	0.28	-3.13	0.004
DO Deficit (Winter)	00300	10475	La Nana Bayou at Loop 224	19	0.27	-2.51	0.020
Sulfate	00945	10474	La Nana Bayou at CR 526	23	0.12	1.70	0.100
Chloride	00940	10475	La Nana Bayou at Loop 224	23	0.17	2.04	0.050
Chloride	00940	10474	La Nana Bayou at CR 526	22	0.11	1.56	0.130
Conductivity	00094	10474	La Nana Bayou at CR 526	30	0.10	1.78	0.090
Conductivity	00094	10532	Mud Creek at US 84	33	0.08	1.65	0.110
Conductivity	00094	10627	Angelina River at US 59 Bridge	39	0.07	1.63	0.110
Ammonia-Nitrogen	00610	10627	Angelina River at US 59 Bridge	28	0.29	3.29	0.003
TSS	00530	10474	La Nana Bayou at CR 526	22	0.15	1.88	0.070
TSS	00530	10475	La Nana Bayou at Loop 224	24	0.12	1.70	0.100
pH	00400	10475	La Nana Bayou at Loop 224	31	0.26	3.22	0.003
Total Phosphorus	00665	10630	Angelina River at SH 21	25	0.13	1.82	0.080
Water Temp. (Summer)	00010	10627	Angelina River at US 59 Bridge	35	0.20	2.88	0.007



## Segment 612

Parameter	Storet	Station ID	Location	Data Points	R-squared	t-ratio	P-value
Ammonia-Nitrogen	00610	16076	Attoyac Bayou at US 59	22	0.18	-2.13	0.050
Chloride	00940	10636	Attoyac Bayou at SH 21	59	0.09	2.31	0.020
Chloride	00940	16076	Attoyac Bayou at US 59	21	0.14	1.73	0.100
pH	00400	10636	Attoyac Bayou at SH 21	61	0.07	2.16	0.030

## Segment 613

Parameter	Storet	Station ID	Location	Data Points	R-squared	t-ratio	P-value
Chloride	00940	15210	Lake Tyler at Langley Island	26	0.44	-4.32	0.000
Ammonia-Nitrogen	00610	10638	Lake Tyler East Midlake Near Dam	28	0.20	2.53	0.020
Ammonia-Nitrogen	00610	14235	Lake Tyler East at SH 64	23	0.12	1.71	0.100
Chlorophyll-a	32211	15210	Lake Tyler at Langley Island	26	0.23	2.71	0.010
Chlorophyll-a	32211	14235	Lake Tyler East at SH 64	23	0.28	2.87	0.009

## Segment 615

Parameter	Storet	Station ID	Location	Data Points	R-squared	t-ratio	P-value
DO Deficit	00300	10502	Paper Mill Creek, Upper Channel	41	0.10	-2.12	0.040
Chloride	00940	10502	Paper Mill Creek, Upper Channel	36	0.15	-2.46	0.020
Chloride	00940	10621	Sam Rayburn/Angelina River below Confl.	41	0.12	-2.35	0.020
Chlorophyll-a	32211	10621	Sam Rayburn/Angelina River below Confl.	41	0.10	-2.05	0.050
Water Temp.	00010	10502	Paper Mill Creek, Upper Channel	41	0.07	-1.75	0.090
Secchi Depth (Clarity)	00078	10502	Paper Mill Creek, Upper Channel	35	0.11	2.06	0.050
Conductivity	00094	10623	Sam Rayburn at Confl. of Angelina River	48	0.07	1.91	0.060
DO Deficit	00300	10623	Sam Rayburn at Confl. of Angelina River	48	0.05	1.63	0.110
DO Deficit (Winter)	00300	10623	Sam Rayburn at Confl. of Angelina River	31	0.16	2.37	0.020





**Angelina & Neches River Authority**

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