SABINE RIVER AUTHORITY OF TEXAS

TO: INTERESTED PARTIES

FROM: ENVIRONMENTAL SERVICES DIVISION

RE: NOVEMBER 2018 MONTHLY WATER QUALITY REPORT

The Environmental Services Field Offices conducted water quality monitoring in the Sabine Basin from November 5th through the 8th. The results of field monitoring are presented in this report[1] and additional data can be found using the Texas Commission on Environmental Quality (TCEQ) Clean Rivers Program Data Tool .

Sabine Basin Tidal (Including Tributaries)

Weather – Air temperatures in the tidal basin were cool with highs in the upper 60s to low 80s. Low temperatures were in the upper 40s to low 70s. The tidal stations received 2.96 inches of rainfall in the seven days prior to the sampling event.
Tidal Conditions – Surface salinity values were not greater than 2 ppt at any of the six tidal stations. The highest salinity value of 1.3 ppt was recorded at station 15654 (BB1) throughout the water column.

Lower Sabine Basin (Toledo Bend Reservoir and the Sabine River downstream to Tidal)

Weather – Air temperatures in the lower basin were cool with highs in the mid 60s to low 80s. Low temperatures ranged in the upper 40s to low 60s. Toledo Bend received 2.89 inches of rainfall during the seven days prior to the sampling event.
Lake Level - The level of Toledo Bend was 168.6 feet with a daily average discharge of 13,140 cfs on the day of sampling. Toledo Bend has a conservation pool level of 172 feet msl. Reservoir profiles indicated a mixed water column in the upper and mid areas of the reservoir and stratification of the water column near the dam.

Upper Sabine Basin (Lake Tawakoni, Lake Fork Reservoir, and the Sabine River upstream of Toledo Bend)

Weather - Air temperatures in the upper basin were cool with highs in the upper 50s to upper 70s. Low temperatures were in the lower 40s to mid 50s. Lake Fork and Lake Tawakoni received 2.37 and 2.57 inches of rainfall, respectively, during the seven days prior to the sampling event.
Lake Level - The level of Lake Tawakoni was 438.87 feet msl with a release of 2,530 cfs on the day of sampling. The level of Lake Fork was 403.25 feet msl with a 711 cfs release on the day of sampling. Lake Tawakoni and Lake Fork have conservation pool levels of 437.5 feet msl and 403 feet msl, respectively. Reservoir profiles at Lake Tawakoni and Lake Fork indicated a mixed water column.

This report and additional links to data for these monitoring stations are available at the Sabine River Authority of Texas web site. If you have any questions or comments concerning this report, please contact:

- Debra Malus, Environmental Services Division Manager
  409-746-3284 (dmalus@sratx.org)
- *Lower and Tidal Sabine Basin*
  Jerry Wiegreffe, Lower Basin Field Office Coordinator
  409-746-3284 (jwiegreffe@sratx.org)
- *Upper Sabine Basin*
  Terry Wilson, Upper Basin Field Office Coordinator
  903-878-2420 (twilson@sratx.org)

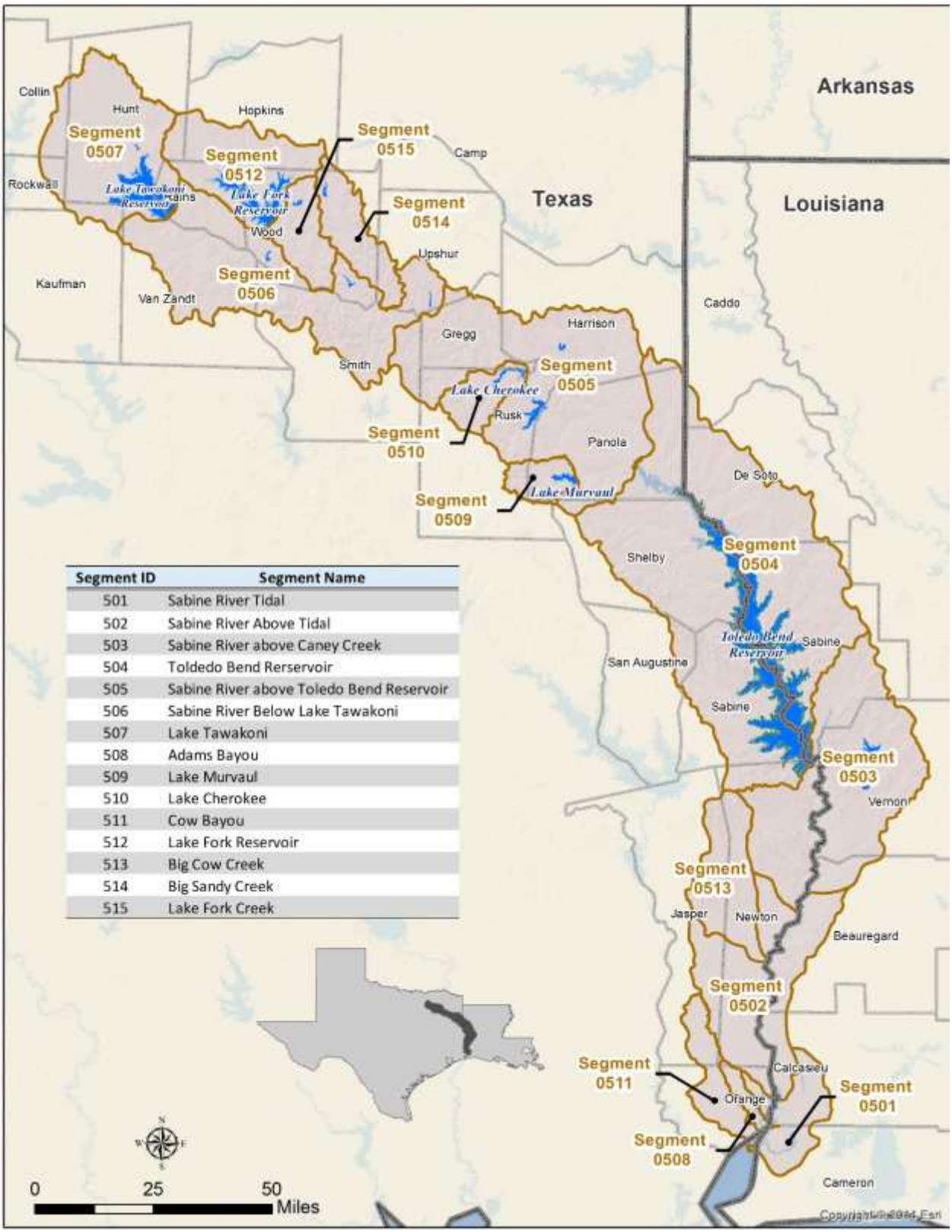
[1] Data in this report is considered preliminary until it is available in TCEQ's Surface Water Quality Monitoring Information System database.

SABINE RIVER AUTHORITY OF TEXAS
Monthly Water Quality Report

Table of Contents

Table of Figures

Sabine Basin Map



Segment ID	Segment Name
501	Sabine River Tidal
502	Sabine River Above Tidal
503	Sabine River above Caney Creek
504	Toldedo Bend Rerservoir
505	Sabine River above Toledo Bend Reservoir
506	Sabine River Below Lake Tawakoni
507	Lake Tawakoni
508	Adams Bayou
509	Lake Murvaul
510	Lake Cherokee
511	Cow Bayou
512	Lake Fork Reservoir
513	Big Cow Creek
514	Big Sandy Creek
515	Lake Fork Creek

Current Fixed Monitoring Stations

Segment	Station TCEQ ID (SRA-TX ID)	Location
501	10391 (SRT1)	SABINE RIVER AT CHANNEL CAN 3
501	15654 (BB1)	BLACK BAYOU IN CAMERON PARISH
511	10449 (CB1)	COW BAYOU AT ROUNDBUNCH ROAD
508	10441 (AB2)	ADAMS BAYOU AT FM 1006
501	15653 (ICW1)	INTERCOASTAL WATERWAY AT PERRY RIDGE
501	10394 (SRT2)	SABINE RIVER AT IH 10
502	10395 (SR1)	SABINE RIVER 12.00 KM UPSTREAM OF IH 10
502	10397 (SR2)	SABINE RIVER AT SH 12 NORTH OF DEWEYVILLE TX.
513	10465 (BCC1)	BIG COW CREEK AT FM 1416 SOUTH OF BON WIER
503	10398 (SR3)	SABINE RIVER AT US 190 EAST OF BON WIER TX.
503	10340 (BA4)	ANACOCO BAYOU AT LOUISIANA HWY 111 CROSSING SOUTHWEST OF KNIGHT LA
503	10399 (SR5)	SABINE RIVER AT SH 63 EAST OF BURKEVILLE TX.
503	10401 (TB6S)	SABINE RIVER BELOW TOLEDO BEND RESERVOIR AT RIGHT ABUTMENT OF SPILLWAY FOR DAM
503	15660 (BT1)	BAYOU TORO AT LA SH 392 IN SABINE PARISH SW OF HORNBECK LA
504	10404 (TB6A)	TOLEDO BEND RESERVOIR MAIN LAKE ABOVE THE DAM AT THE OLD RIVER CHANNEL
504	10406 (TB6C)	TOLEDO BEND RESERVOIR IN SIX MILE BOAT LANE 0.8KM EAST OF SH 87
504	18054 (TB6Q)	TOLEDO BEND RESERVOIR IN NEGREET BAYOU
504	10411 (TB6F)	TOLEDO BEND RESERVOIR IN SUNSHINE BAY NEAR FM 3121 BRIDGE
504	10402 (TB6H)	TOLEDO BEND RESERVOIR AT SH 21 NORTHEAST OF MILAM
504	15659 (TB6K)	TOLEDO BEND RESERVOIR IN LANANA BAYOU AT LOUISIANA SH 191 IN SABINE PARISH LOUISIANA WEST OF MANY
504	15655 (TB6J)	TOLEDO BEND RESERVOIR PATROON BAYOU BRANCH AT FM 276
504	18053 (TB6LN)	TOLEDO BEND RESERVOIR SAN MIGUEL ARM BOAT LANE
504	18052 (TB6R)	TOLEDO BEND RESERVOIR AT RAGTOWN
505	10415 (SR10)	SABINE RIVER AT FM 2517
505	13628 (SR11)	SABINE RIVER AT US 59
505	10427 (SR16)	SABINE RIVER AT SH 42
506	10428 (SR17)	SABINE RIVER AT US 271
506	10429 (SR19)	SABINE RIVER AT SH 14 S. OF HAWKINS
506	10430 (SR21)	SABINE RIVER AT US 69
514	10468 (BS1)	BIG SANDY CREEK AT SH 155
515	10469 (LF20)	LAKE FORK CREEK AT US 80
512	10458 (LF2)	LAKE FORK RESERVOIR NEAR DAM IN CREEK CHANNEL
512	10462 (LF4)	LAKE FORK RESERVOIR MID-COVE IN LAKE FORK CREEK ARM AT FM 515
512	10461 (LF3)	LAKE FORK RESERVOIR MID-ARM IN CANEY CREEK ARM AT FM 515
507	10434 (LT23A)	LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM
507	21173 (LT23DN)	LAKE TAWAKONI IN WACO BAY EQUIDISTANT FROM FINGER AND SPRING POINTS 1.17KM BEARING 18.61 DEGREES FROM IRON BRIDGE PUMPING STATION.
507	10437 (LT23B)	LAKE TAWAKONI AT SH 276

Segment 0501 – Sabine River Tidal

Description: The designated segment includes the Sabine River from the confluence with Sabine Lake in Orange County to West Bluff in Orange County. Although some areas are quite rural, this part of the Sabine Basin has two cities with populations greater than 5,000 and a variety of industries.

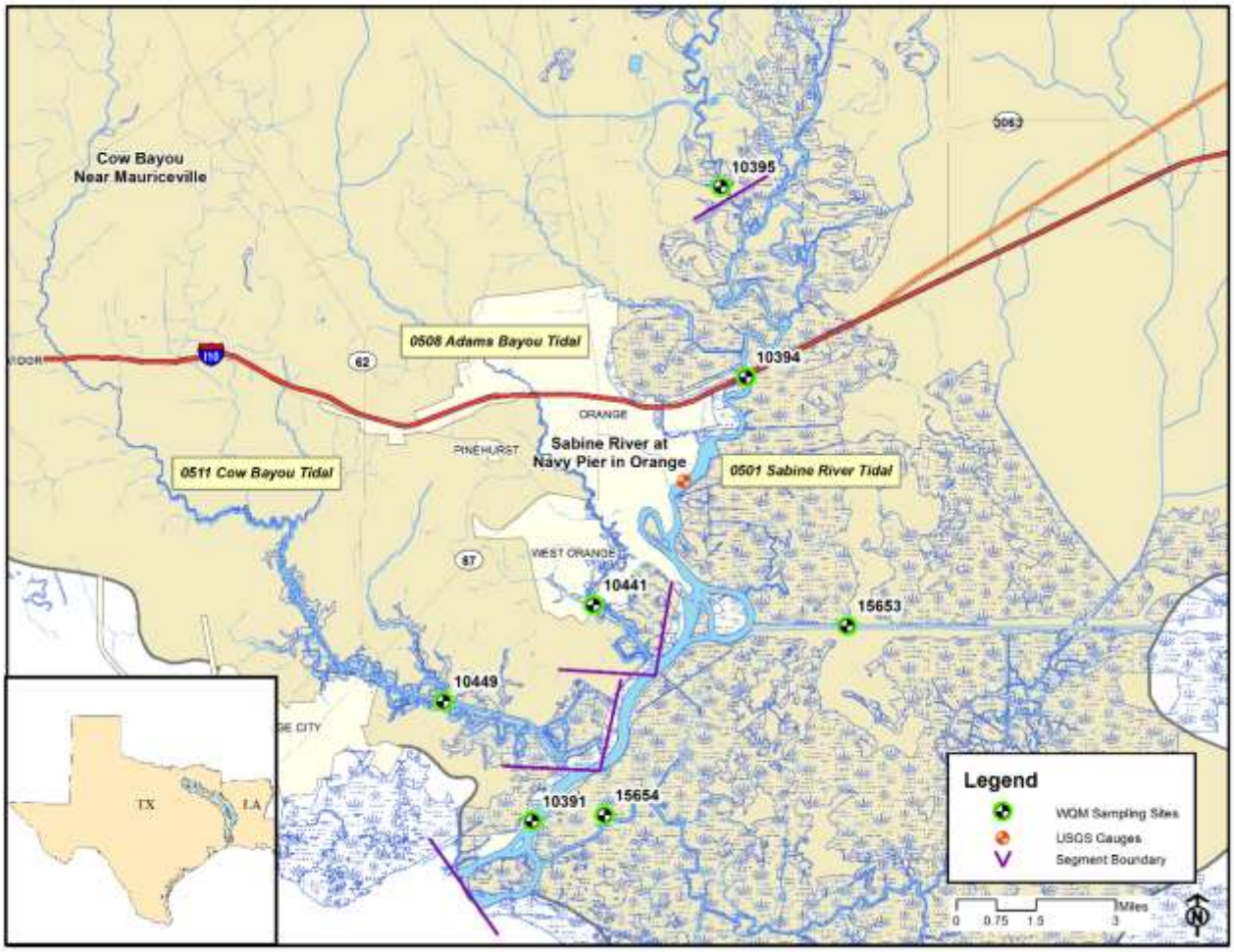
Segment 0508 – Adams Bayou Tidal. The segment reaches from the confluence with the Sabine River in Orange County to a point 1.1 kilometers (0.7 miles) upstream of IH-10 in Orange County.

Segment 0511 – Cow Bayou Tidal. The segment reaches from the confluence with the Sabine River in Orange County to a point 4.8 kilometers (3.0 miles) upstream of IH-10 in Orange County.

Segment 0501 Water Quality

Date and Time	*Station*	*Depth* *meters*	*Temp* *°C*	*pH* *SU*	*DO* *mg/L*	*% Sat*	*Cond* *µS/cm*	*TDS* *mg/L*	*Salinity* *ppt*	*Secchi* *meters*	*Turbidity* *NTU*	*Enterococcus* mpn/ 100mL
11/8/18 09:48	10391(SRT1)	0.3	20.7	6.4	5.7	64	163	104	0.1	0.40	32.8	1,720
		3.0	20.7	6.2	5.8	65	161	103	0.1			
		6.0	20.7	6.2	5.8	65	159	102	0.1			
		9.0	20.7	6.2	5.9	66	159	102	0.1			
11/8/18 09:36	15654(BB1)	0.3	22.2	6.8	5.4	63	2,427	1,548	1.3	0.72	12.5	1,670
		1.5	22.2	6.7	5.3	61	2,374	1,515	1.3			
		3.0	22.2	6.7	5.3	61	2,378	1,519	1.3			
Segment 0511												
11/8/18 09:17	10449(CB1)	0.3	21.1	5.9	4.5	51	107	68	<0.1	0.26	51.3	8,160
		2.0	21.1	5.8	4.5	50	108	67	<0.1			
		4.0	21.1	5.8	4.5	50	105	67	<0.1			
Segment 0508												
11/8/18 10:05	10441(AB2)	0.3	21.0	6.5	2.4	27	236	151	0.1	0.30	43.3	2,990
		2.0	21.0	6.4	2.3	26	237	151	0.1			
		4.0	21.0	6.3	2.2	25	234	150	0.1			
11/8/18 10:22	15653(ICW1)	0.3	20.7	6.5	6.2	69	164	105	0.1	0.66	17.4	40
		3.0	20.7	6.3	6.2	69	164	105	0.1			
		6.0	20.7	6.3	6.2	69	164	105	0.1			
11/8/18 10:50	10394(SRT2)	0.3	20.9	6.5	6.1	68	120	77	<0.1	0.76	22.1	250
		3.0	20.9	6.3	6.0	67	120	77	<0.1			
		6.0	20.9	6.3	6.0	67	120	77	<0.1			
		8.0	20.9	6.3	6.0	67	120	77	<0.1			

Segments 0501, 0508 & 0511



Segment 0502 - Sabine River Above Tidal

Description: The designated segment includes the Sabine River from West Bluff in Orange County to the confluence with Caney Creek in Newton County. The largest tributary is Big Cow Creek (Segment 0513). This is largely a rural area with no major industries or cities.

Segment 0513 – Big Cow Creek from the confluence with the Sabine River in Newton County to a point 4.6 kilometers (2.9 miles) upstream of CR 255 in Newton County.

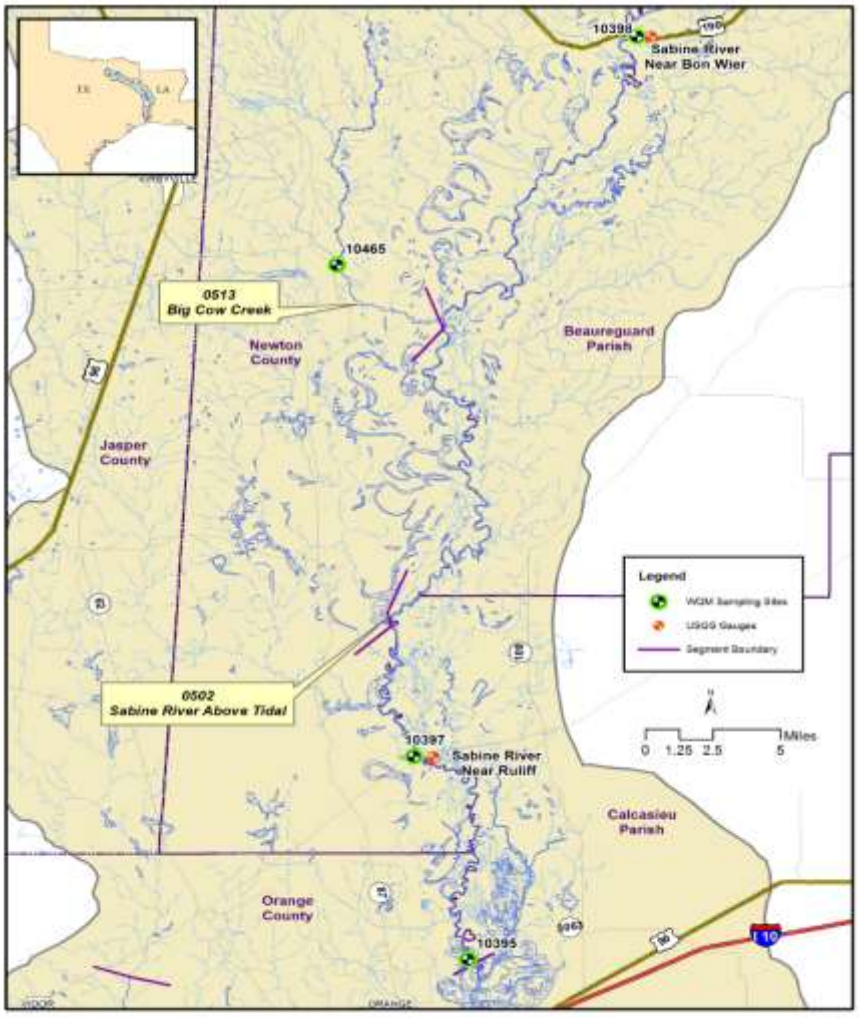
Segment 0502 USGS- Recorded Flows

Date and Time	Station	USGS Station #	Location	Flow (cfs)
11/7/18 08:45	10397(SR2)	08030500	Sabine River near Ruliff, TX	13,300

Segment 0502 Water Quality

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
11/8/18 11:20	10395(SR1)	0.3	20.8	6.5	6.5	73	133	85	0.40	29.8	365
11/7/18 08:45	10397(SR2)	0.3	20.5	6.3	7.0	78	119	76	0.71	30.6	86
Segment 0513											
11/7/18 09:26	10465(BCC1)	0.3	18.9	5.6	8.1	87	43	27	0.37	29.1	112

Segments 0502 & 0513



Segment 0503 - Sabine River Above Caney Creek

Description: The designated segment includes the Sabine River from a point immediately upstream of the confluence with Caney Creek in Newton County up to Toledo Bend Dam in Newton County. This is largely a rural area with one major city with a population greater than 5,000 and few industries. Two major tributaries that flow from Louisiana include Bayou Anacoco and Bayou Toro.

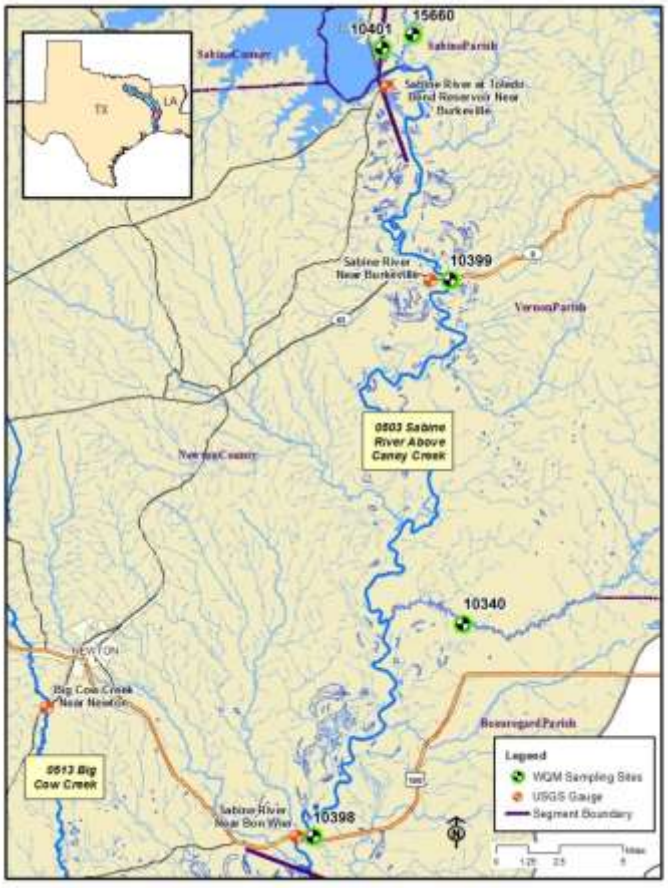
Segment 0503 USGS- Recorded Flows

Date and Time	Station	USGS Station #	Location	Flow (cfs)
11/7/18 11:20	10398(SR3)	08028500	Sabine River near Bon Wier, TX	15,400
11/7/18 10:25	10399(SR5)	08026000	Sabine River near Burkeville, TX	14,300

Segment 0503 Water Quality

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
11/7/18 11:20	10398(SR3)	0.3	20.9	6.9	7.8	87	138	89	0.39	16.8	16
11/7/18 11:00	10340(BA4)	0.3	20.9	6.9	7.8	87	276	176	0.25	36.0	118
11/7/18 10:25	10399(SR5)	0.3	20.3	6.8	7.3	80	135	87	>1.2	3.88	3
11/5/18 12:50	10401(TB6S)	0.3	20.4	7.3	9.2	102	137	88	0.80	7.83	4
11/5/18 12:36	15660(BT1)	0.3	16.3	6.3	9.2	93	65	42	0.68	76.0	1,550

Segment 0503



Segment 0504 – Toledo Bend Reservoir

Description: The designated segment includes the Sabine River from Toledo Bend Dam in Newton County to a point immediately upstream of the confluence of Murvaul Creek in Panola County. Although this area is largely rural, it includes two cities with populations greater than 5,000. Murvaul Creek is a major tributary that enters upstream of the reservoir.

Segment 0504 Water Quality

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
11/6/18 14:20	10404(TB6A)	0.3	21.3	7.2	7.4	83	136	87	1.6	2.06	<1
		1.0	20.7	7.0	7.2	80	137	87			
		2.0	20.3	6.9	7.0	77	137	87			
		3.0	20.3	6.9	6.9	76	136	87			
		4.0	20.2	6.9	6.9	76	136	87			
		5.0	20.2	6.9	6.8	76	136	87			
		6.0	20.2	6.8	6.8	75	136	87			
		7.0	20.2	6.8	6.7	74	136	87			
		10.0	20.1	6.8	6.7	74	136	87			
		13.0	20.1	6.8	6.7	74	136	87			
		16.0	20.1	6.8	6.6	73	137	88			
		19.0	19.8	6.6	2.7	29	142	91			
		22.0	19.1	6.5	0.5	6	156	99			
		25.0	17.1	6.6	0.4	4	159	101			
11/6/18 08:27	10406(TB6C)	0.3	20.0	7.2	8.6	95	126	81	1.1	5.70	1
		1.0	20.0	7.0	8.6	95	127	81			
		2.0	19.9	7.0	8.6	94	127	81			
		3.0	19.7	6.9	8.2	89	127	81			
11/6/18 13:15	18054(TB6Q)	0.3	21.4	7.5	8.8	100	142	91	1.2	3.20	1
		1.0	21.2	7.5	8.8	100	142	91			
		2.0	21.0	7.4	8.8	100	142	91			
		3.0	20.6	7.3	8.7	96	142	91			
		4.0	20.4	7.2	8.4	92	143	92			
		5.0	20.4	7.2	8.2	91	143	92			
		6.0	20.4	7.2	8.2	91	143	92			
		7.0	20.3	7.2	8.2	91	143	92			
		8.0	20.3	7.1	8.2	90	143	92			

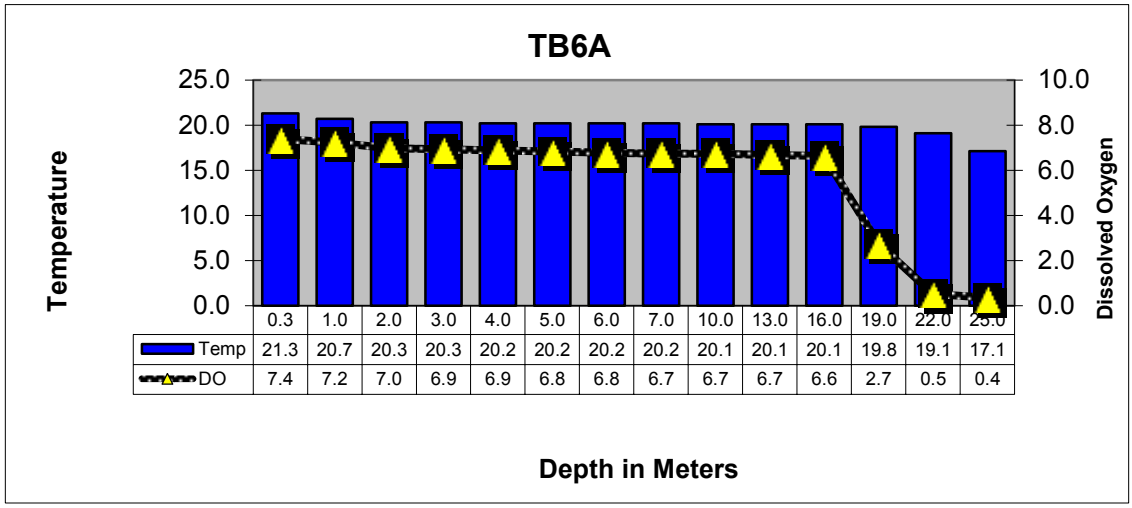
Segment 0504 Water Quality Continued

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
11/5/18 10:48	10411(TB6F)	0.3	19.2	7.2	8.6	93	123	79	0.61	8.00	7
		1.0	19.2	7.1	8.5	92	124	80			
		2.0	19.0	6.9	8.4	90	123	79			
		3.0	19.0	6.9	8.0	86	122	78			
		4.0	18.9	6.8	8.0	86	122	78			
11/6/18 11:01	10402(TB6H)	0.3	19.9	7.3	8.9	98	149	95	1.5	3.31	1
		1.0	19.8	7.3	8.9	97	149	95			
		2.0	19.7	7.3	8.9	97	149	95			
		3.0	19.6	7.2	8.6	94	148	95			
		4.0	19.5	7.1	8.3	90	149	95			
		5.0	19.4	7.0	8.1	88	149	95			
		6.0	19.3	7.0	7.8	84	149	95			
		7.0	19.3	7.0	7.8	84	149	95			
		10.0	19.3	7.0	7.8	84	149	95			
		13.0	19.2	6.9	7.6	82	149	95			
		16.0	19.2	6.9	7.5	82	149	96			
		19.0	19.1	6.9	7.6	82	149	96			
		20.0	19.1	6.9	7.6	82	149	96			
11/5/18 11:12	15659(TB6K)	0.3	19.8	7.8	9.4	102	148	95	0.72	6.58	19
		1.0	19.6	7.6	9.4	102	148	95			
		2.0	19.5	7.4	8.8	95	148	95			
		3.0	19.4	7.3	8.7	94	148	95			
		4.0	19.4	7.2	8.5	93	148	95			
		5.0	19.3	7.2	8.4	91	148	95			
		6.0	19.3	7.1	8.2	89	148	95			
		7.0	19.3	7.1	8.2	88	148	95			
		8.0	19.3	7.0	8.1	88	148	95			
11/5/18 10:23	15655(TB6J)	0.3	18.6	6.9	8.0	86	123	78	0.65	29.4	81
		1.0	18.6	6.8	8.0	85	121	78			
		2.0	18.4	6.7	7.8	82	121	77			
		3.0	18.3	6.6	7.5	80	118	76			
		4.0	18.3	6.6	7.2	77	116	74			

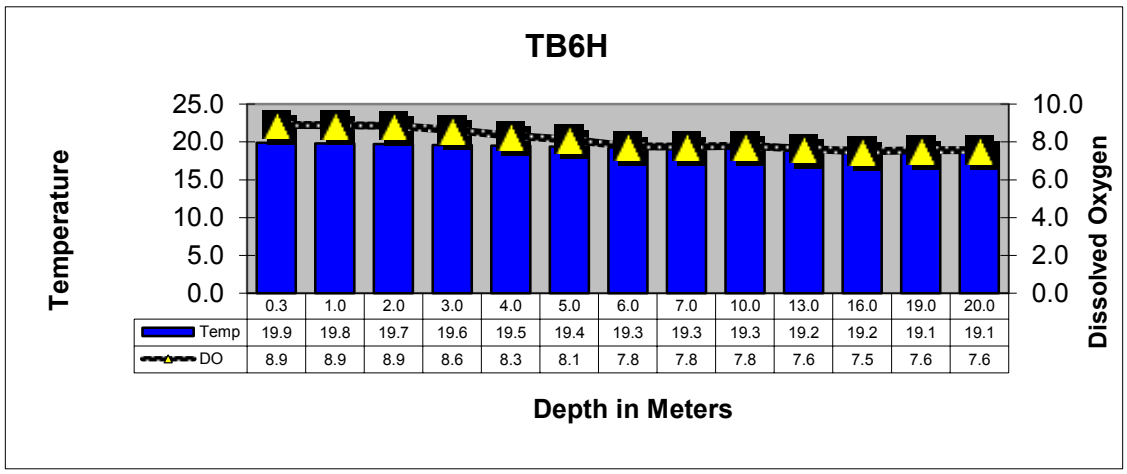
Segment 0504 Water Quality Continued

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
11/6/18 12:30	18053(TB6LN)	0.3	20.5	7.9	9.6	106	146	93	0.91	4.63	2
		1.0	20.3	7.9	9.5	105	146	93			
		2.0	20.1	7.7	9.5	104	146	93			
		3.0	19.9	7.6	9.2	100	146	93			
		4.0	19.8	7.4	8.7	95	146	93			
		5.0	19.7	7.3	8.2	89	146	93			
11/6/18 09:47	18052(TB6R)	0.3	19.0	7.4	9.0	97	179	115	0.50	17.3	2
		1.0	18.9	7.2	9.0	97	180	115			
		2.0	18.8	7.2	8.9	94	180	115			
		3.0	18.6	7.1	8.4	90	180	115			
		4.0	18.5	7.0	8.2	87	180	115			
		5.0	18.4	7.0	8.1	86	180	115			
		6.0	18.4	7.0	8.1	86	180	115			
		7.0	18.4	7.0	8.0	85	181	116			
		8.0	18.4	7.0	8.0	85	181	116			
		9.0	18.4	6.9	7.9	94	181	116			
		10.0	18.4	6.9	7.9	94	181	116			
		11.0	18.3	6.9	7.8	83	182	116			
		12.0	18.3	6.9	7.8	83	182	116			
		13.0	18.3	6.9	7.8	83	182	116			
		14.0	18.3	6.9	7.7	82	182	116			

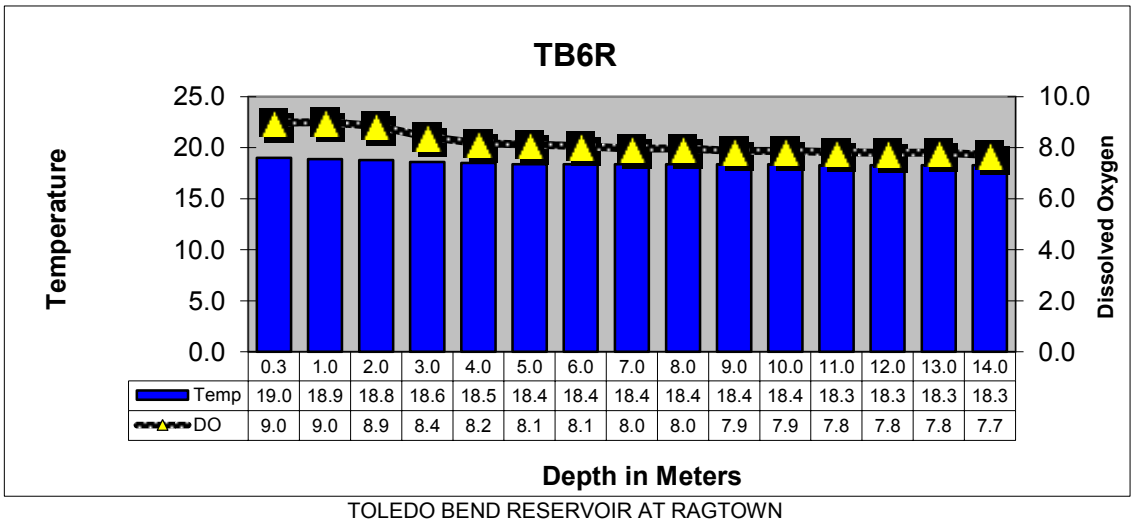
Toledo Bend Reservoir Profiles



TOLEDO BEND RESERVOIR MAIN LAKE ABOVE THE DAM AT THE OLD RIVER CHANNEL

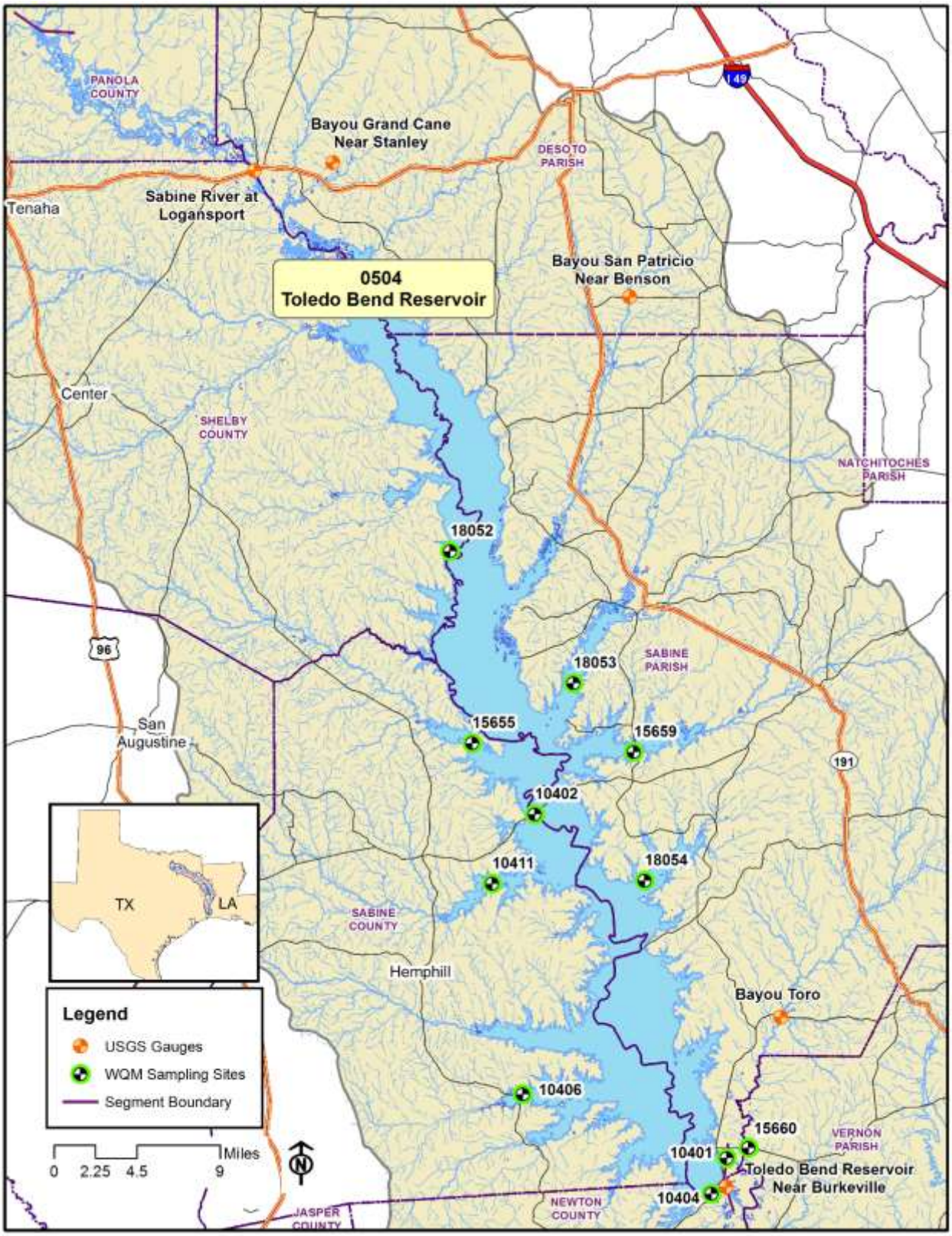


TOLEDO BEND RESERVOIR AT SH 21 NORTHEAST OF MILAM



TOLEDO BEND RESERVOIR AT RAGTOWN

Segment 0504



Segment 0505 - Sabine River Above Toledo Bend Reservoir

Description: The designated segment includes the Sabine River from a point immediately upstream of the confluence of Murvaul Creek in Panola County to a point 100 meters (110 yards) downstream of US 271 in Gregg County. Segment 0505 is used extensively for water supply and contains the highest concentration of population in the Sabine Basin with eight cities having populations greater than 5,000. Segment 0505 includes a large section of the East Texas Oilfield as well as numerous industries.

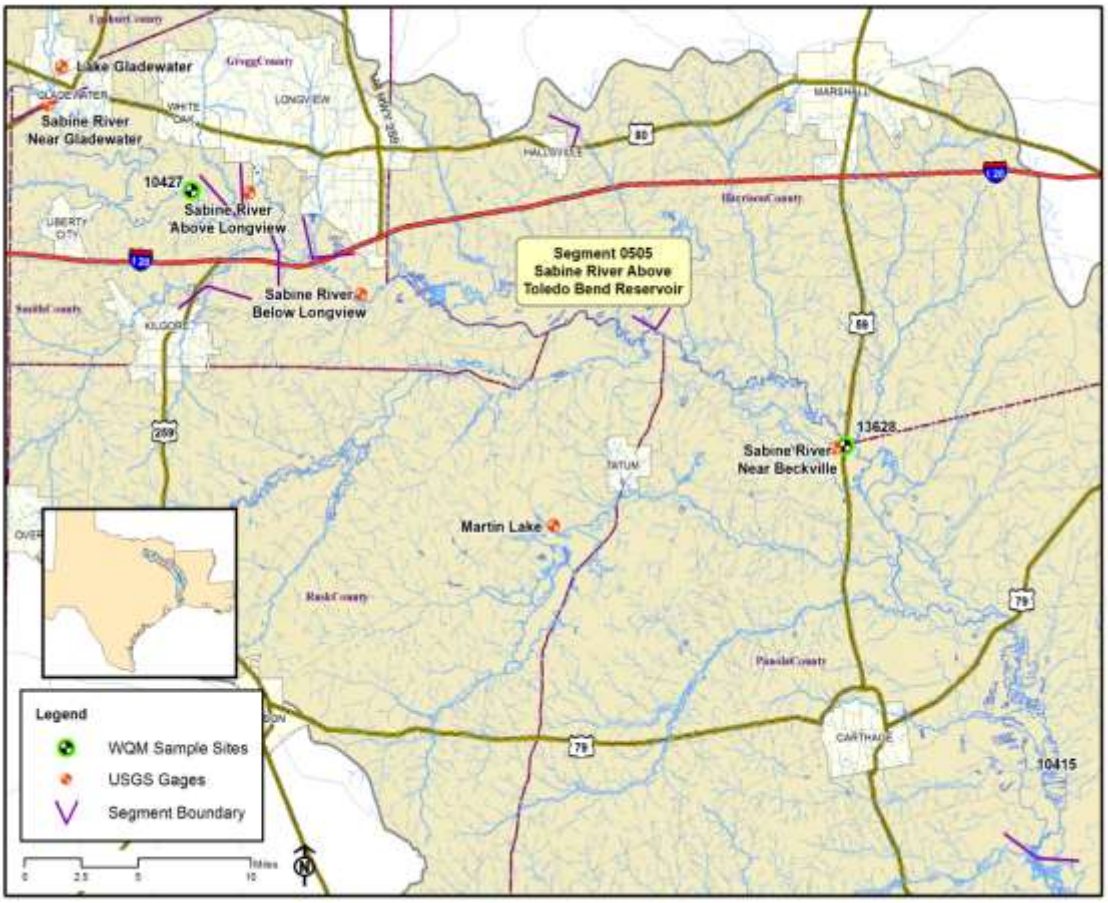
Segment 0505 USGS- Recorded Flows

Date and Time	Station	USGS Station #	Location	Flow (cfs)
11/7/18 09:30	13628(SR11)	08022040	Sabine River near Beckville, TX	6,980

Segment 0505 Water Quality

Date and Time	Station	Depth meters	Temp ˚C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
11/7/18 09:57	10415(SR10)	0.3	17.1	6.4	7.0	74	138	88	0.16	51.5	36
11/7/18 09:30	13628(SR11)	0.3	16.8	6.3	7.0	73	141	90	0.18	44.5	64
11/7/18 08:25	10427(SR16)	0.3	16.4	6.1	6.3	65	135	86	0.46	16.8	38

Segment 0505



Segment 0506 - Sabine River Below Lake Tawakoni

Description: The designated segment includes the Sabine River from a point 100 meters (110 yards) downstream of US 271 in Gregg County to Iron Bridge Dam in Rains County. This is largely a rural area with no cities having a population greater than 5,000. Oilfield activities, rural housing developments, and agriculture are in the watershed. The major tributaries include:

Segment 0514 - Big Sandy Creek from the confluence with the Sabine River in Upshur County to a point 2.6 kilometers (1.6 miles) upstream of SH 11 in Hopkins County.

Segment 0515 - Lake Fork Creek from the confluence with the Sabine River in Wood County to Lake Fork Dam in Wood County.

Segment 0512 - Lake Fork Reservoir from Lake Fork Dam in Wood County up to the normal pool elevation of 403 feet.

Segment 0506 USGS- Recorded Flows

Date and Time	Station	USGS Station #	Location	Flow (cfs)
11/7/2018 07:50	10428(SR17)	08020000	Sabine River near Gladewater,TX	6,760
11/7/2018 07:00	10429(SR19)	08019200	Sabine River near Hawkins,TX	6,700
11/6/2018 13:08	10430(SR21)	08018500	Sabine River near Mineola,TX	4,900
Segment 0514				
11/7/2018 07:25	10468(BS1)	08019500	Big Sandy Creek near Big Sandy, TX	231

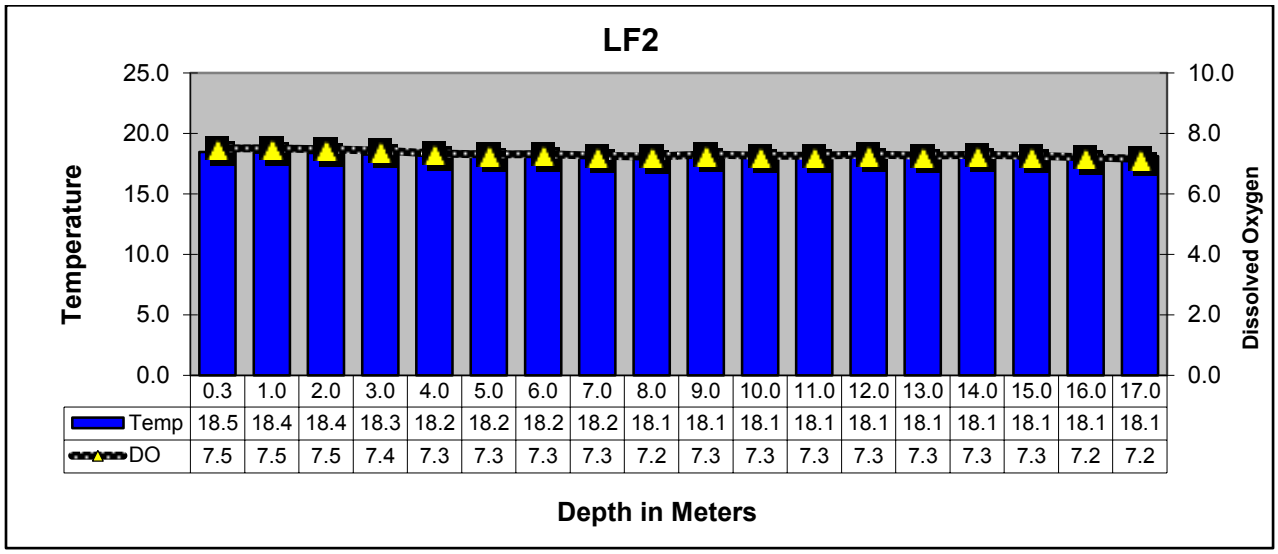
Segment 0506 Water Quality

Date and Time	**Station**	**Depth meters**	**Temp ˚C**	**pH SU**	**DO mg/L**	**% Sat**	**Cond µS/cm**	**TDS mg/L**	**Secchi meters**	**Turbidity NTU**	***E.coli* mpn/100mL**
11/7/2018 07:50	10428(SR17)	0.3	16.4	6.4	6.4	63	132	85	0.62	13.1	66
11/7/2018 07:00	10429(SR19)	0.3	16.7	7.1	6.0	62	124	80	0.71	9.2	62
11/6/2018 13:08	10430(SR21)	0.3	16.4	6.7	6.4	66	142	91	0.82	19.9	53
Segment 0514											
11/7/2018 07:25	10468(BS1)	0.3	16.7	6.3	7.4	77	96	61	0.64	13.8	135
Segment 0515											
11/6/2018 13:35	10469(LF20)	0.3	17.0	6.6	7.2	75	125	80	0.54	42.7	79

Segment 0506 Water Quality Continued

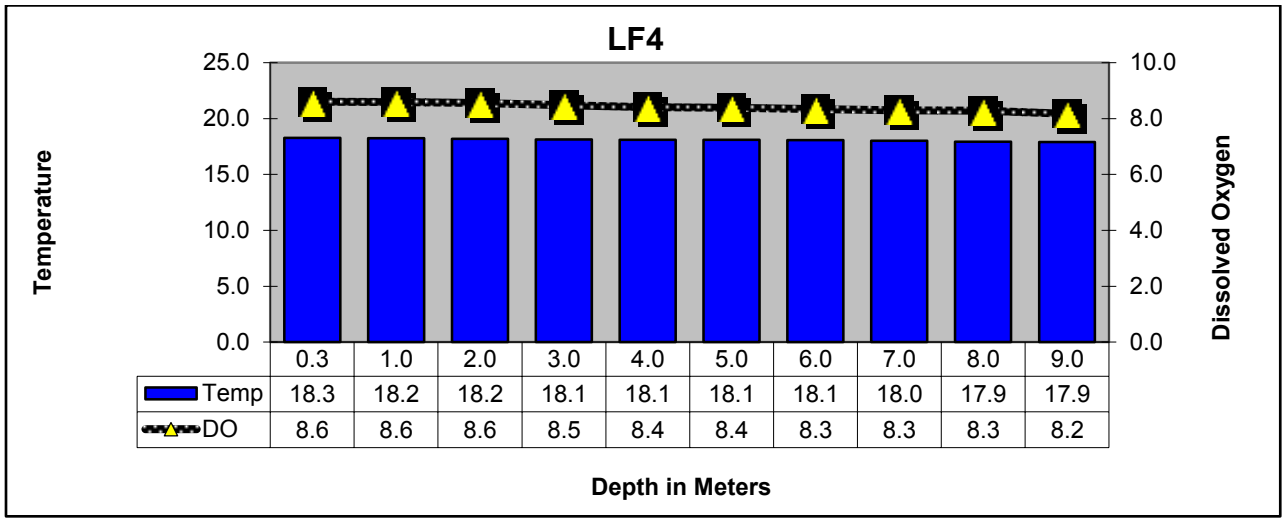
Date and Time	Station	Depth meters	Temp ˚C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E. coli* mpn/100mL
Segment 0512											
11/6/18 11:48	10458(LF2)	0.3	18.5	7.1	7.5	81	119	76	1.09	6.11	3
		1.0	18.4	7.1	7.5	81	119	76			
		2.0	18.4	7.1	7.5	80	119	76			
		3.0	18.3	7.1	7.4	80	119	76			
		4.0	18.2	7.1	7.3	79	119	76			
		5.0	18.2	7.1	7.3	78	119	76			
		6.0	18.2	7.1	7.3	78	118	76			
		7.0	18.2	7.0	7.3	78	118	76			
		8.0	18.1	7.0	7.2	78	118	76			
		9.0	18.1	7.0	7.3	78	118	75			
		10.0	18.1	7.0	7.3	78	118	76			
		11.0	18.1	7.0	7.3	78	118	76			
		12.0	18.1	7.0	7.3	78	118	76			
		13.0	18.1	7.0	7.3	78	118	76			
		14.0	18.1	7.0	7.3	78	118	76			
		15.0	18.1	7.0	7.3	78	118	76			
		16.0	18.1	7.0	7.2	77	118	76			
		17.0	18.1	7.0	7.2	76	119	76			
11/6/18 11:05	10462(LF4)	0.3	18.3	6.9	8.6	92	119	76	0.75	6.16	2
		1.0	18.2	7.1	8.6	92	119	76			
		2.0	18.2	7.2	8.6	92	119	76			
		3.0	18.1	7.2	8.5	91	119	76			
		4.0	18.1	7.2	8.4	90	118	76			
		5.0	18.1	7.2	8.4	90	119	76			
		6.0	18.1	7.2	8.3	90	119	76			
		7.0	18.0	7.2	8.3	89	119	76			
		8.0	17.9	7.2	8.3	88	119	76			
		9.0	17.9	7.2	8.2	87	119	76			
11/6/18 10:45	10461(LF3)	0.3	18.1	6.8	8.5	90	114	73	0.72	7.42	4
		1.0	18.1	7.2	8.4	90	114	73			
		2.0	18.1	7.2	8.4	90	114	73			
		3.0	18.1	7.2	8.4	90	114	73			
		4.0	18.1	7.2	8.4	90	114	73			
		5.0	18.0	7.3	8.4	89	114	73			
		6.0	18.0	7.2	8.4	89	114	73			
		7.0	18.0	7.2	8.3	89	114	73			
		8.0	18.0	7.2	8.4	89	114	73			
		9.0	18.0	7.2	8.4	89	114	73			
		10.0	18.0	7.2	8.3	88	113	73			
		11.0	18.0	7.2	8.3	88	113	73			

Lake Fork Reservoir Profiles



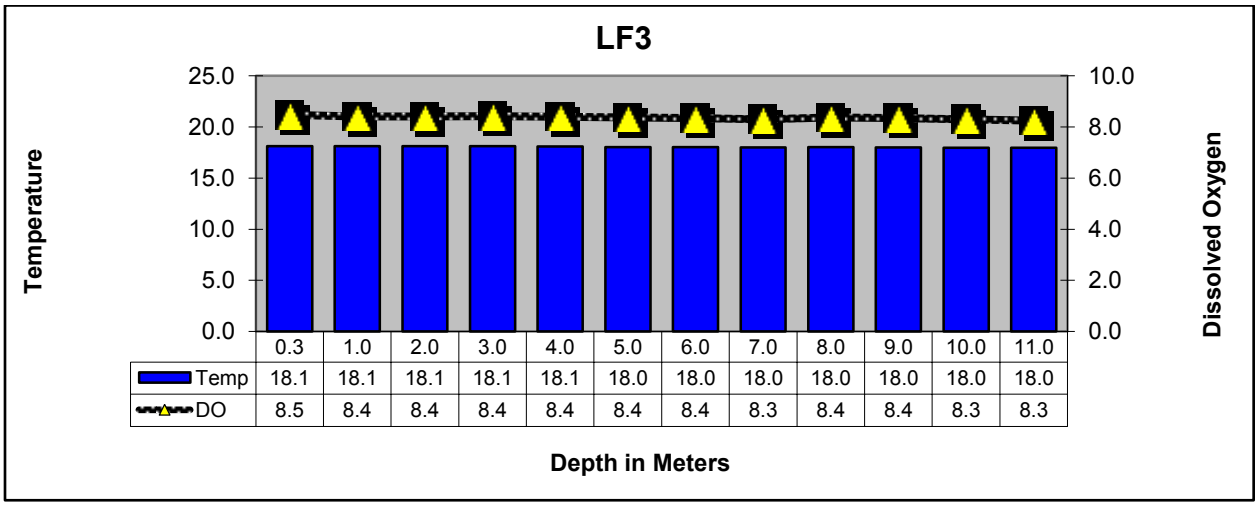
	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
Temp	18.5	18.4	18.4	18.3	18.2	18.2	18.2	18.2	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
DO	7.5	7.5	7.5	7.4	7.3	7.3	7.3	7.3	7.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.2

LAKE FORK RESERVOIR NEAR DAM IN CREEK CHANNEL



	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
Temp	18.3	18.2	18.2	18.1	18.1	18.1	18.1	18.0	17.9	17.9
DO	8.6	8.6	8.6	8.5	8.4	8.4	8.3	8.3	8.3	8.2

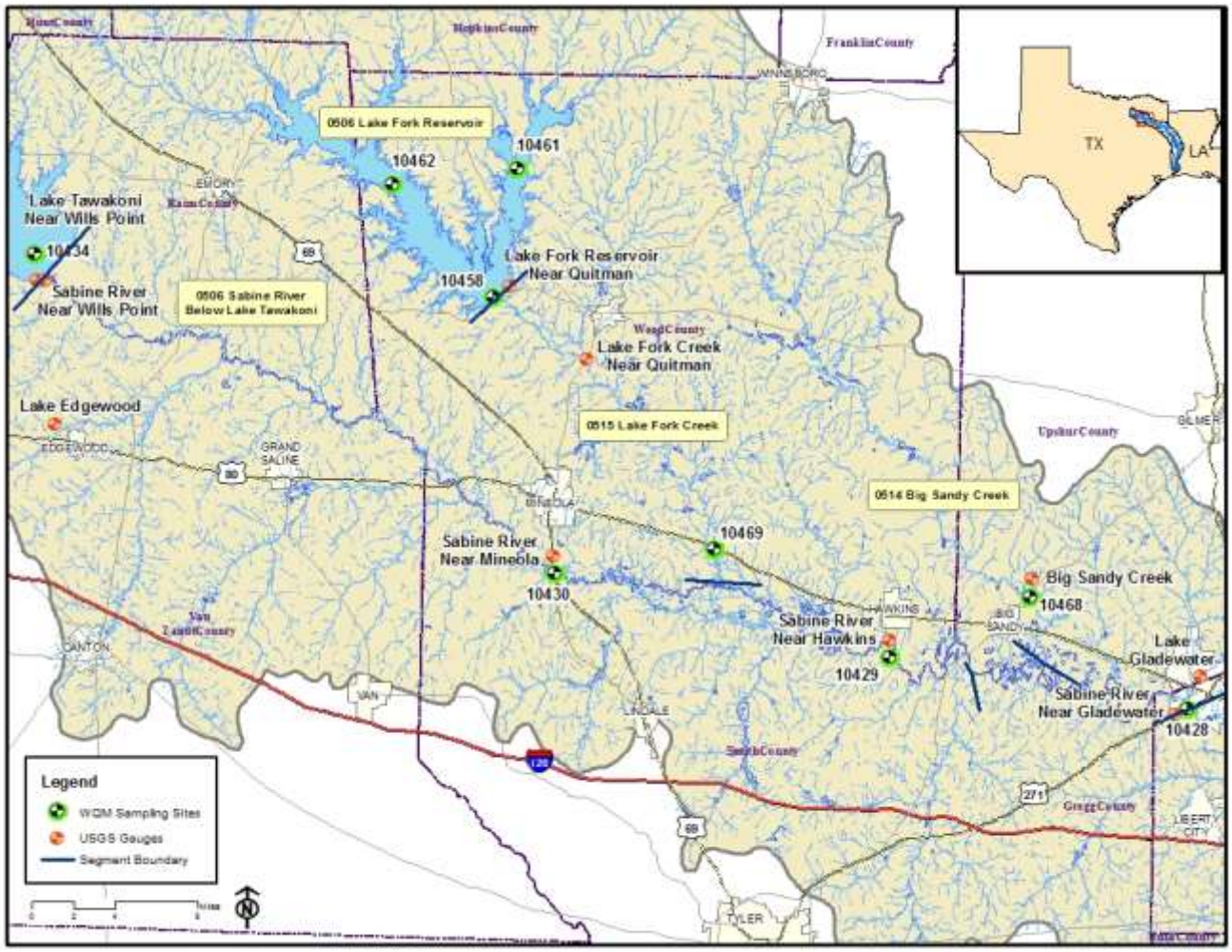
LAKE FORK RESERVOIR MID-COVE IN LAKE FORK CREEK ARM AT FM515



	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
Temp	18.1	18.1	18.1	18.1	18.1	18.0	18.0	18.0	18.0	18.0	18.0	18.0
DO	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.4	8.4	8.3	8.3

LAKE FORK RESERVOIR MID-ARM IN CANEY CREEK ARM AT FM515

Segments 0506, 0512, 0514 & 0515



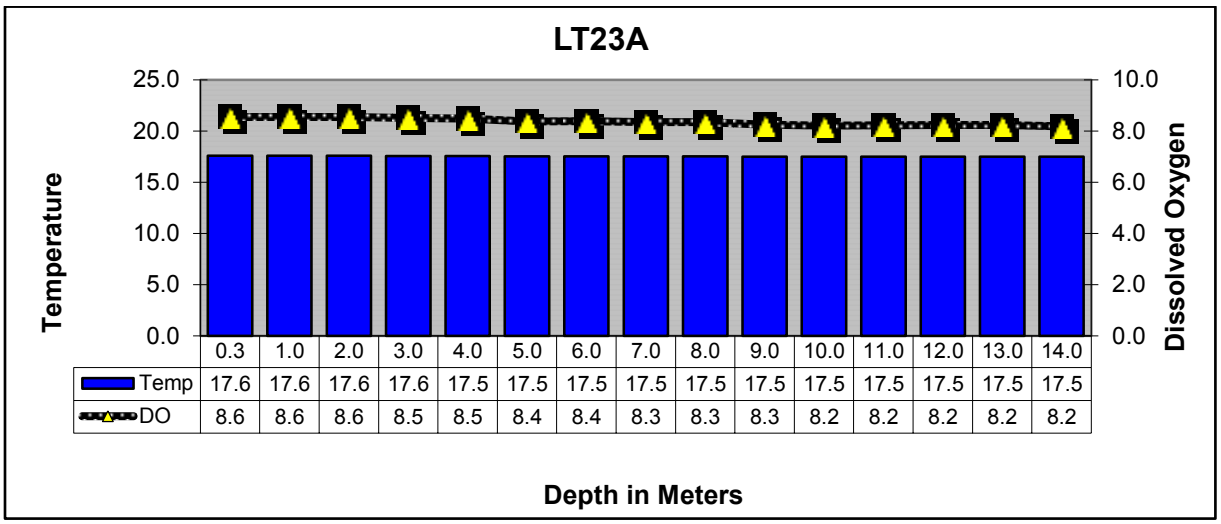
Segment 0507 - Lake Tawakoni

Description: The designated segment includes the impounded Sabine River from Iron Bridge Dam in Rains County up to the normal pool elevation of 437.5 feet. Although much of this segment is rural, it contains two cities with populations greater than 5,000, and one of the four largest cities in the Sabine Basin.

Segment 0507 Water Quality

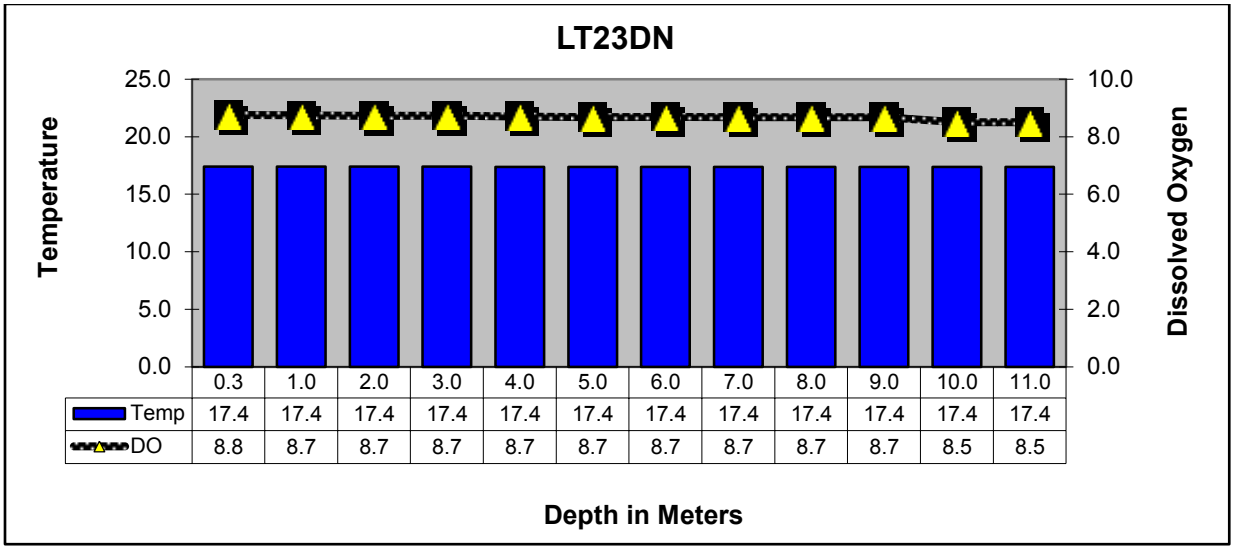
Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
11/6/18 09:40	10434(LT23A)	0.3	17.6	6.8	8.6	91	149	95	0.60	7.57	1
		1.0	17.6	7.3	8.6	91	149	95			
		2.0	17.6	7.3	8.6	91	149	95			
		3.0	17.6	7.4	8.5	91	149	95			
		4.0	17.5	7.5	8.5	90	149	95			
		5.0	17.5	7.5	8.4	89	149	95			
		6.0	17.5	7.6	8.4	89	149	95			
		7.0	17.5	7.6	8.3	88	149	95			
		8.0	17.5	7.6	8.3	88	149	95			
		9.0	17.5	7.6	8.3	87	149	95			
		10.0	17.5	7.6	8.2	87	149	95			
		11.0	17.5	7.6	8.2	87	149	95			
		12.0	17.5	7.6	8.2	87	149	95			
		13.0	17.5	7.6	8.2	87	149	95			
		14.0	17.5	7.6	8.2	86	149	95			
		15.0	17.5	7.6	8.2	86	149	95			
11/6/18 09:25	21173(LT23DN)	0.3	17.4	7.9	8.8	92	149	95	0.54	10.4	<1
		1.0	17.4	7.9	8.7	92	149	95			
		2.0	17.4	7.9	8.7	92	149	95			
		3.0	17.4	7.9	8.7	92	149	95			
		4.0	17.4	7.9	8.7	92	149	95			
		5.0	17.4	7.8	8.7	92	149	95			
		6.0	17.4	7.8	8.7	92	149	95			
		7.0	17.4	7.8	8.7	92	149	94			
		8.0	17.4	7.8	8.7	92	149	95			
		9.0	17.4	7.8	8.7	92	149	95			
		10.0	17.4	7.8	8.5	92	149	95			
		11.0	17.4	7.8	8.5	90	149	95			
11/6/18 09:04	10437(LT23B)	0.3	17.4	8.1	8.9	93	149	95	0.51	12.5	1
		1.0	17.3	8.1	8.8	93	149	95			
		2.0	17.3	8.0	8.8	93	149	95			
		3.0	17.4	8.0	8.8	92	149	95			
		4.0	17.3	8.0	8.7	92	149	95			
		5.0	17.3	8.0	8.7	92	149	95			
		6.0	17.3	8.0	8.7	92	149	95			
		7.0	17.3	8.0	8.7	92	149	95			
		8.0	17.3	8.0	8.6	91	149	95			
		9.0	17.3	7.9	7.7	82	149	95			

Lake Tawakoni Reservoir Profiles



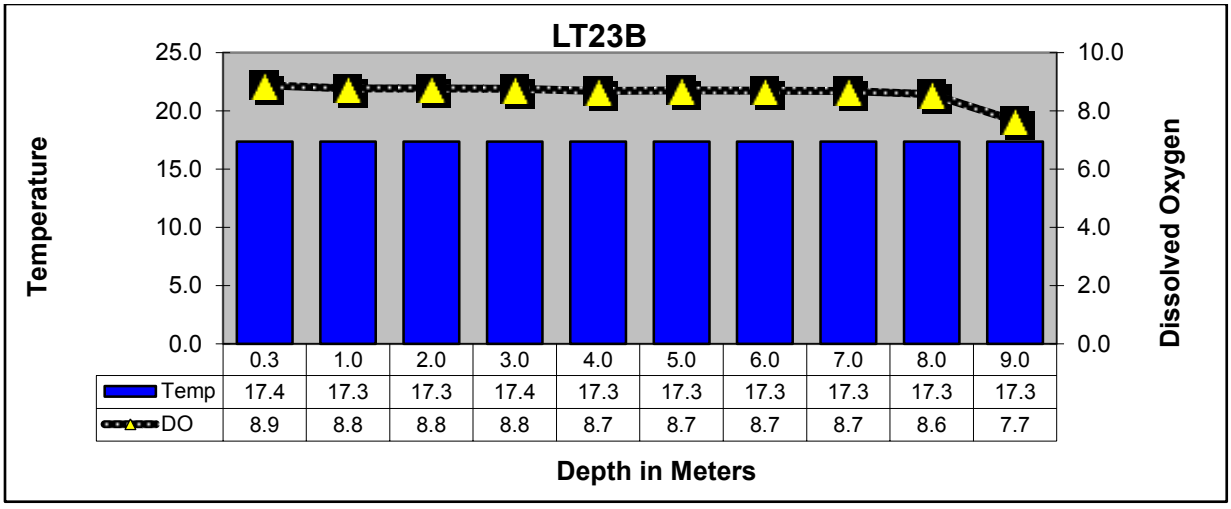
	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0
Temp	17.6	17.6	17.6	17.6	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
DO	8.6	8.6	8.6	8.5	8.5	8.4	8.4	8.3	8.3	8.3	8.2	8.2	8.2	8.2	8.2

LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM



	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
Temp	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
DO	8.8	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.5	8.5

LAKE TAWAKONI IN WACO BAY EQUIDISTANT FROM FINGER AND SPRING POINTS



	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
Temp	17.4	17.3	17.3	17.4	17.3	17.3	17.3	17.3	17.3	17.3
DO	8.9	8.8	8.8	8.8	8.7	8.7	8.7	8.7	8.6	7.7

LAKE TAWAKONI AT SH276

Segment 0507