
SABINE RIVER AUTHORITY OF TEXAS

TO: INTERESTED PARTIES
FROM: ENVIRONMENTAL SERVICES DIVISION
RE: MARCH 2022 MONTHLY WATER QUALITY REPORT

The Environmental Services Field Offices conducted water quality monitoring in the Sabine Basin from March 7th through the 10th. The results of field monitoring are presented in this report¹ 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 variable with highs in the upper 50s to low 80s. Low temperatures were in the upper 30s to low 70s. The tidal stations received 0.34 inches of rainfall in the seven days prior to the sampling event.

Tidal Conditions – Surface salinity values were greater than 1 ppt at five of the seven tidal stations. The highest salinity value of 8.9 ppt was recorded at station 15653 (ICW1) at a depth of 6.0 meters.

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

Weather – Air temperatures in the lower basin were variable with highs in the low 60s to low 80s. Low temperatures were in the low 40s. Toledo Bend received 0.11 inches of rainfall during the seven days prior to the sampling event.

Lake Level - The level of Toledo Bend was 169.40 feet with a daily average discharge of 360 cfs on the day of sampling. Toledo Bend has a conservation pool level of 172 feet msl. Reservoir profiles indicate a mixed water column.

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

Weather - Air temperatures in the upper basin were variable with highs in the high 70s to low 60s. Low temperatures were in the mid 20s to low 60s. Lake Fork and Lake Tawakoni received 0.03 and 0.05 inches of rainfall during the seven days prior to sampling, respectively.

Lake Level - The level of Lake Tawakoni was 435.10 feet msl with a release of 6 cfs on the day of sampling. The level of Lake Fork was 396.61 feet msl with a 10 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 Fork and Lake Tawakoni 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 website](#). If you have any questions or comments concerning this report, please contact:

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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

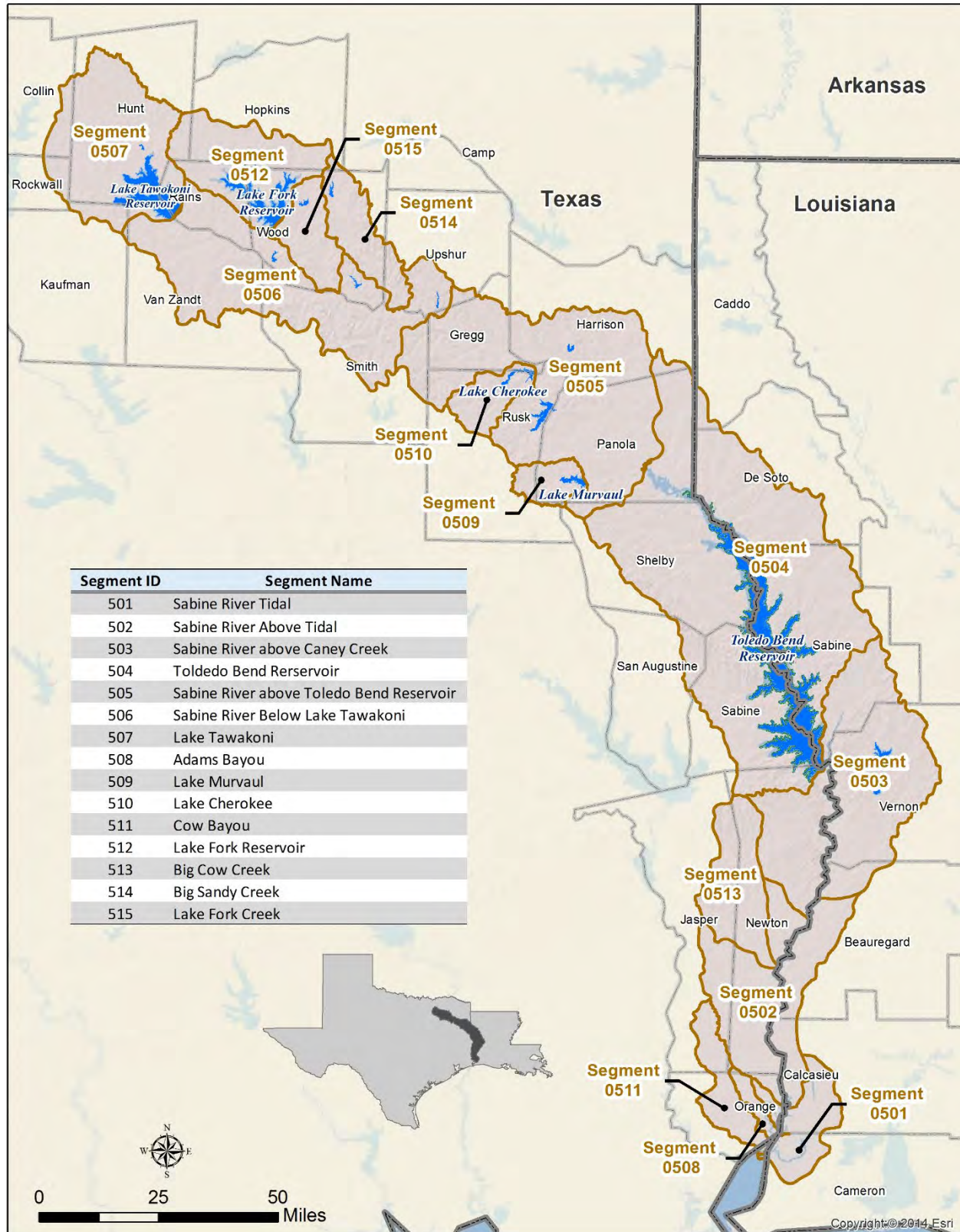
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Sabine Basin Map



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 ROUND BUNCH 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
501	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.

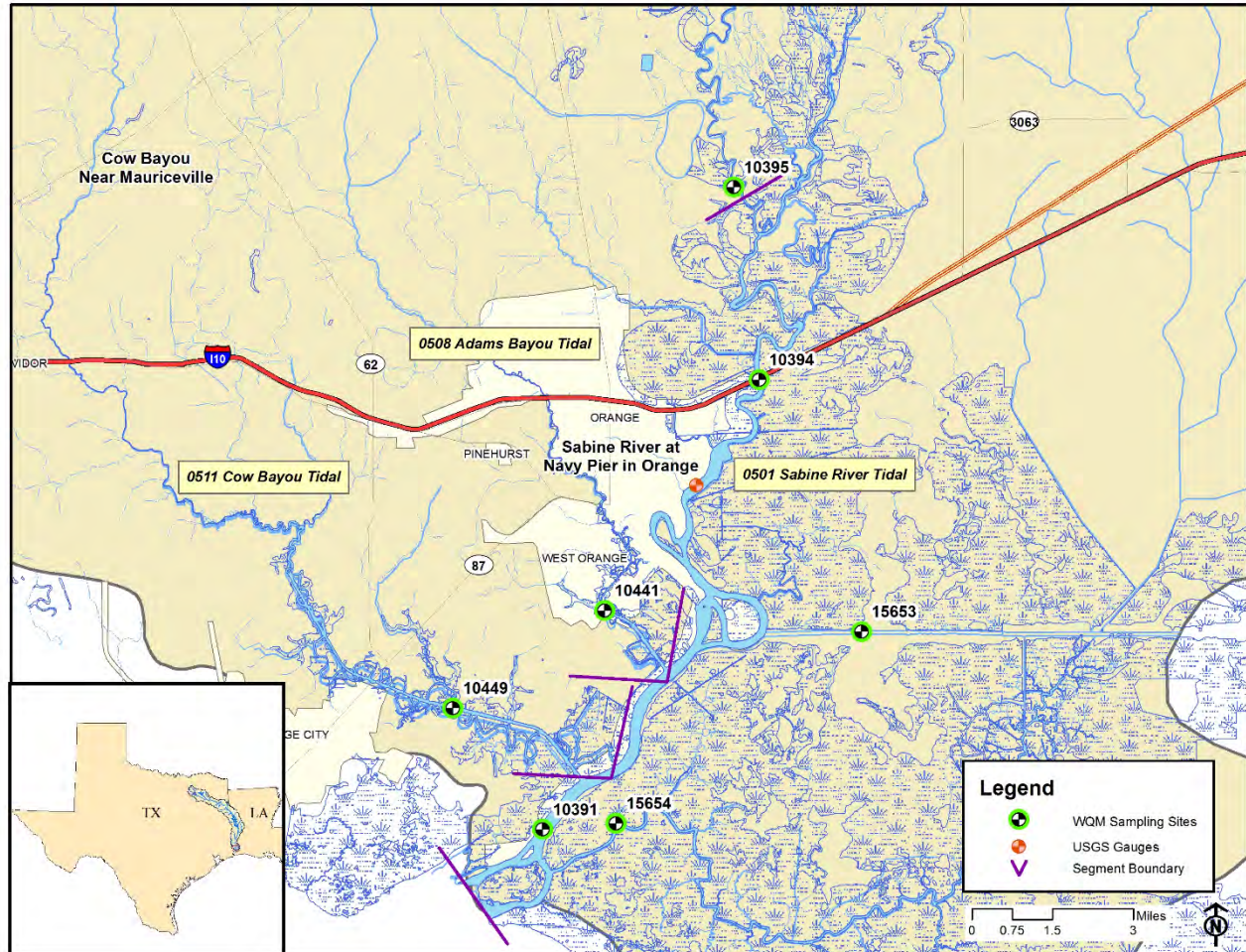
Segment 0508 – Adams Bayou Tidal. The segment reaches from the confluence with the Sabine River in Orange County to a point 1.1 kilometers (0.7 miles) upstream of IH-10 in Orange County.

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	Temp	pH	DO	% Sat	Cond	TDS	Salinity	Secchi	Turbidity	Enterococcus
		meters	°C	SU	mg/L		µS/cm	mg/L	ppt	meters	NTU	mpn/100mL
3/10/2022 09:21	10391 (SRT1)	0.3	15.4	7.5	8.7	91	13,400	8,590	7.8	0.64	9.46	10
		3.0	15.5	7.8	8.6	90	13,900	8,870	8.0			
		6.0	15.9	7.9	8.5	90	13,700	8,800	7.9			
		9.0	16.3	8.0	3.0	32	13,600	8,730	7.9			
3/10/2022 09:05	15654 (BB1)	0.3	13.6	7.5	8.7	88	13,300	8,510	7.7	0.52	12.6	20
		1.5	13.6	7.7	8.7	87	13,300	8,500	7.6			
		3.0	13.6	7.6	8.7	87	13,300	8,510	7.6			
Segment 0511												
3/10/2022 08:42	10449 (CB1)	0.3	15.6	7.4	9.0	94	10,100	6,440	5.7	0.75	9.07	60
		2.0	15.7	7.6	8.6	89	10,200	6,540	5.8			
		4.0	15.6	7.5	8.6	89	10,400	6,630	5.9			
Segment 0508												
3/10/2022 09:42	10441 (AB2)	0.3	15.9	7.7	10.1	105	8,920	5,710	5.0	0.70	6.59	10
		2.0	15.3	7.6	9.0	93	9,150	5,850	5.1			
		4.0	16.0	7.4	7.4	78	10,900	7,000	6.2			
3/10/2022 10:01	15653 (ICW1)	0.3	14.9	7.5	8.6	90	14,100	9,040	8.1	0.52	15.2	20
		2.0	14.8	7.6	8.5	88	14,500	9,270	8.4			
		4.0	14.7	7.6	8.5	88	14,700	9,480	8.6			
		6.0	14.7	7.6	8.3	87	15,300	9,830	8.9			
3/10/2022 10:57	10394 (SRT2)	0.3	17.6	7.5	8.4	89	1,660	1,060	0.9	0.45	15.2	<10
		3.0	16.4	7.6	7.4	77	2,230	1,430	1.2			
		6.0	14.7	7.1	5.4	56	13,600	8,710	7.8			
		9.0	14.6	7.1	5.5	57	13,800	8,850	8.0			
3/10/2022 11:28	10395 (SR1)	0.3	16.8	7.4	8.8	92	240	154	0.1	0.32	23.0	<10

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. The segment reaches 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.

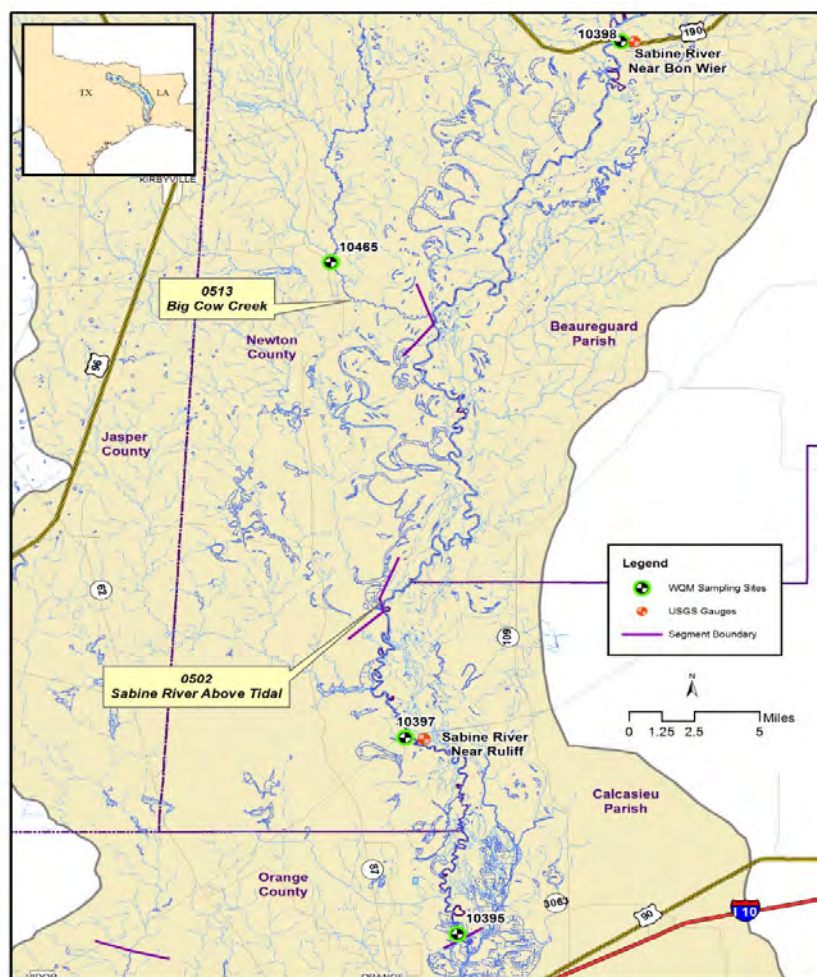
Segment 0502 USGS Recorded Flows

Date and Time	Station	USGS Station #	Location	Flow (cfs)
3/8/2022 07:55	10397(SR2)	08030500	Sabine River near Ruliff, TX	1,700

Segments 0502 and 0513 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	<i>E.coli</i> mpn/100mL
3/8/2022 07:55	10397 (SR2)	0.3	18.2	7.0	9.0	95	148	95	0.25	28.0	7
Segment 0513											
3/8/2022 08:55	10465 (BCC1)	0.3	15.0	6.2	9.4	93	41	27	0.26	24.6	291

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, including 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.

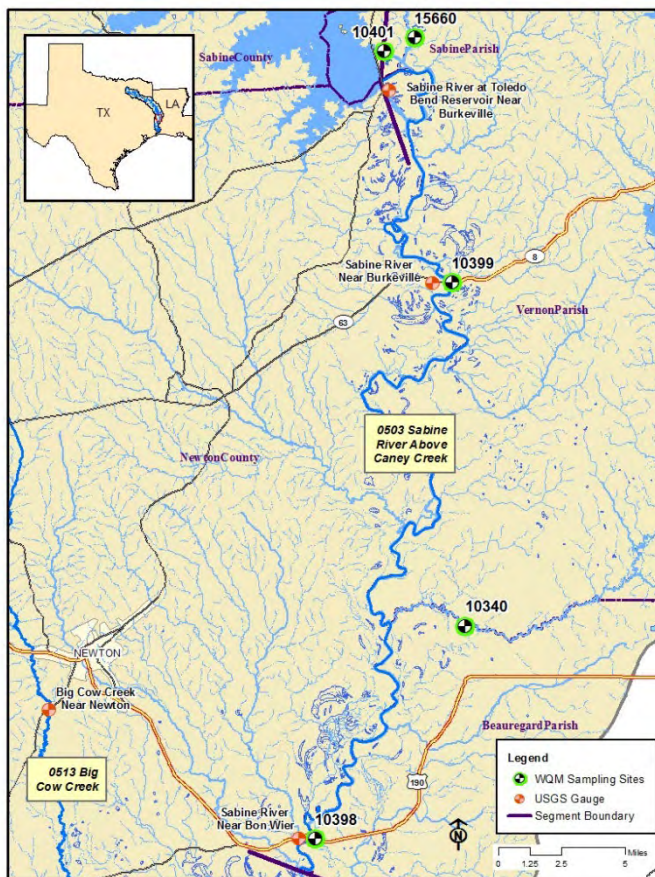
Segment 0503 USGS Recorded Flows

Date and Time	Station	USGS Station #	Location	Flow (cfs)
3/8/2022 11:22	10398(SR3)	08028500	Sabine River near Bon Wier, TX	1,440
3/8/2022 10:15	10399(SR5)	08026000	Sabine River near Burkeville, TX	552

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	<i>E.coli</i> mpn/100mL
3/8/2022 11:22	10398 (SR3)	0.3	15.9	7.2	9.5	95	171	110	0.29	23.4	61
3/8/2022 10:55	10340 (BA4)	0.3	15.7	7.3	8.2	82	411	262	0.22	32.8	125
3/8/2022 10:15	10399 (SR5)	0.3	13.9	7.2	9.8	94	136	87	0.38	14.7	6
3/7/2022 12:25	10401 (TB6S)	0.3	12.2	7.4	10.8	101	142	91	>1.2	3.70	7
3/7/2022 12:04	15660 (BT1)	0.3	18.7	7.1	8.6	92	125	80	0.48	18.9	17

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
3/9/2022 14:15	10404 (TB6A)										
3/9/2022 07:55	10406 (TB6C)	0.3	14.0	7.1	9.0	87	141	90	0.50	18.0	82
		1.0	14.0	6.9	9.0	88	141	90			
		2.0	14.0	6.8	9.0	87	141	90			
		3.0	14.1	6.8	9.0	87	141	90			
		4.0	14.1	6.7	9.0	86	141	90			
3/9/2022 12:55	18054 (TB6Q)	0.3	13.4	7.4	10.0	95	148	94	1.5	3.22	<1
		1.0	13.3	7.4	9.9	95	147	94			
		2.0	13.2	7.3	9.9	94	147	94			
		3.0	13.2	7.2	9.8	93	147	94			
		4.0	13.0	7.2	9.6	90	147	94			
		5.0	12.9	7.1	9.4	89	147	94			
		6.0	12.8	7.0	9.2	87	147	94			
		7.0	12.0	6.9	8.3	77	149	96			
		8.0	11.9	6.9	8.1	75	150	96			

Segment 0504 Water Quality Continued

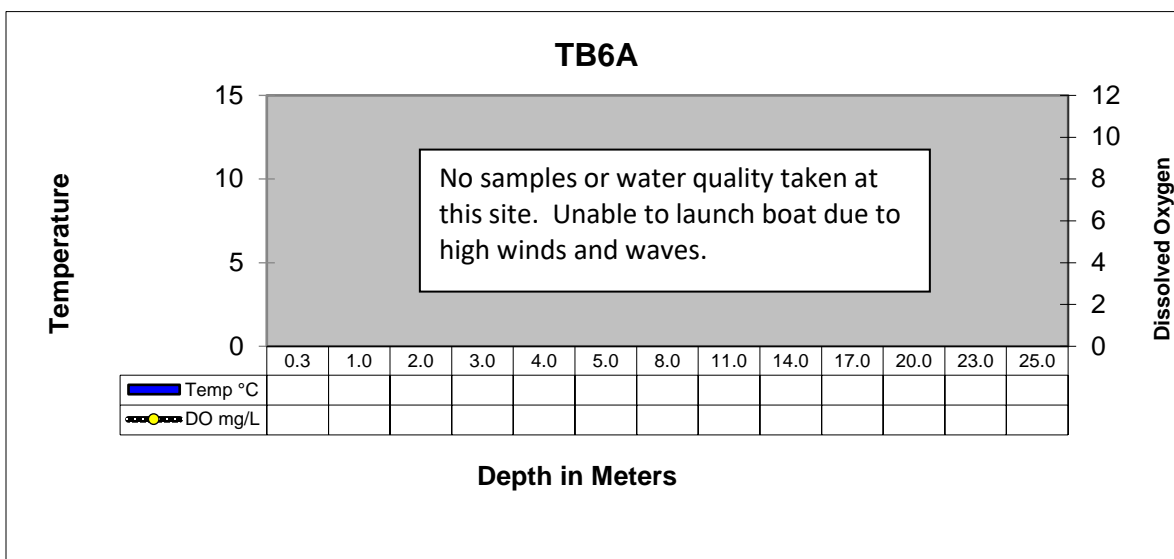
Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	<i>E.coli</i> mpn/100mL
3/7/2022 10:01	10411 (TB6F)	0.3	16.7	7.1	9.6	99	122	78	0.65	9.24	4
		1.0	16.7	7.0	9.6	99	122	78			
		2.0	16.7	6.9	9.6	98	122	78			
		3.0	16.7	6.8	9.6	98	121	78			
		4.0	14.2	6.7	8.8	85	121	78			
		5.0	13.0	6.6	7.3	69	120	77			
3/9/2022 10:35	10402 (TB6H)										
			No samples or water quality taken at this site. Unable to launch boat due to high winds and waves.								
3/7/2022 10:33	15659 (TB6K)	0.3	16.1	7.6	10.2	103	162	104	0.66	6.03	21
		1.0	16.1	7.5	10.2	103	163	104			
		2.0	16.1	7.4	10.2	103	166	106			
		3.0	16.1	7.4	10.1	103	169	108			
		4.0	16.1	7.3	10.1	102	167	107			
		5.0	16.0	7.2	10.0	102	169	108			
		6.0	15.7	7.2	10.1	100	169	109			
		7.0	15.1	7.1	9.5	94	168	107			
		8.0	14.9	7.0	9.4	93	166	107			
		9.0	14.7	6.9	9.4	92	166	107			
3/7/2022 09:27	15655 (TB6J)	0.3	16.5	7.6	10.0	103	164	105	0.65	8.03	3
		1.0	16.5	7.5	10.1	103	167	105			
		2.0	16.5	7.4	10.1	103	165	105			
		3.0	16.5	7.3	10.0	103	164	105			
		4.0	16.5	7.2	10.0	102	165	105			

Segment 0504 Water Quality Continued

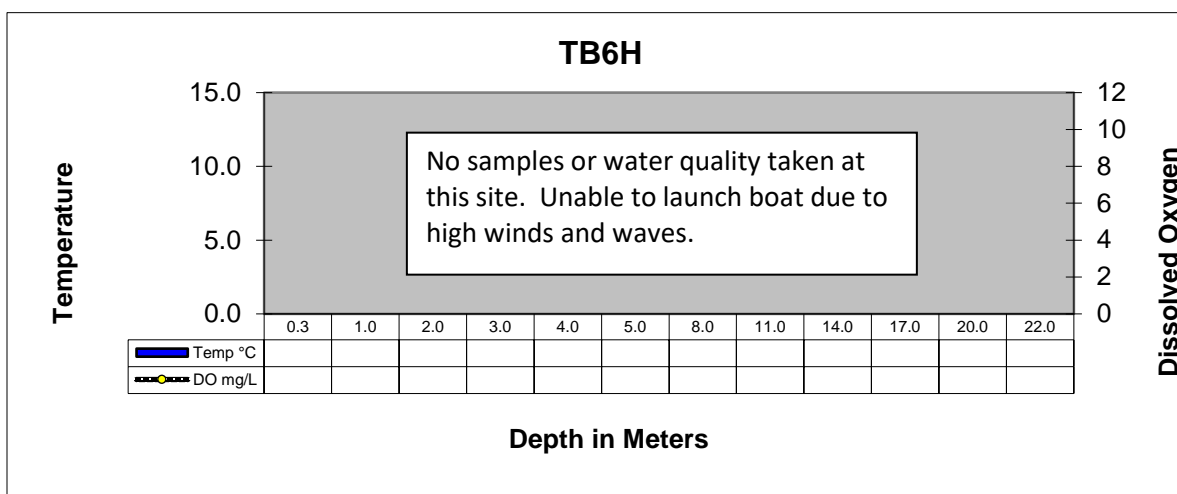
Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	<i>E.coli</i> mpn/100mL
3/9/2022 11:13	18053 (TB6LN)	0.3	13.8	7.4	9.4	91	154	98	0.97	6.93	3
		1.0	13.8	7.3	9.4	91	154	98			
		2.0	13.8	7.2	9.4	90	153	98			
		3.0	13.8	7.1	9.3	90	153	98			
		4.0	13.8	7.1	9.2	89	153	98			
		5.0	13.8	7.0	9.2	88	154	98			
		6.0	13.8	7.0	9.1	88	153	98			
3/9/2022 09:30	18052 (TB6R)	0.3	11.8	7.5	7.4	10.3	95	126	NR	8.87	5
			No water quality profiles taken at this site. Unable to tie to buoy or remain stationary due to high winds and rough water.								

NR = No Result

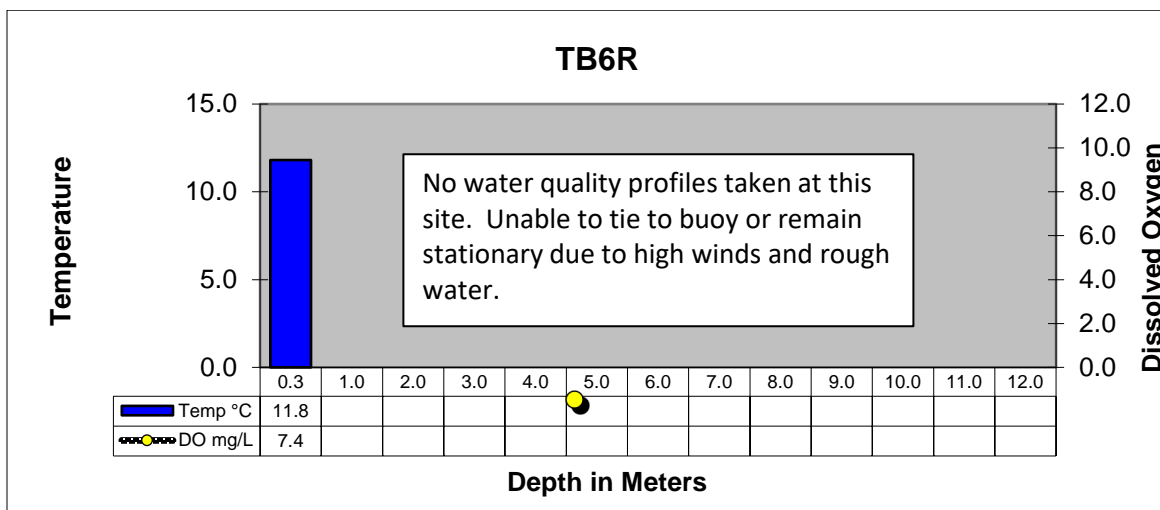
Toledo Bend Reservoir Profiles



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

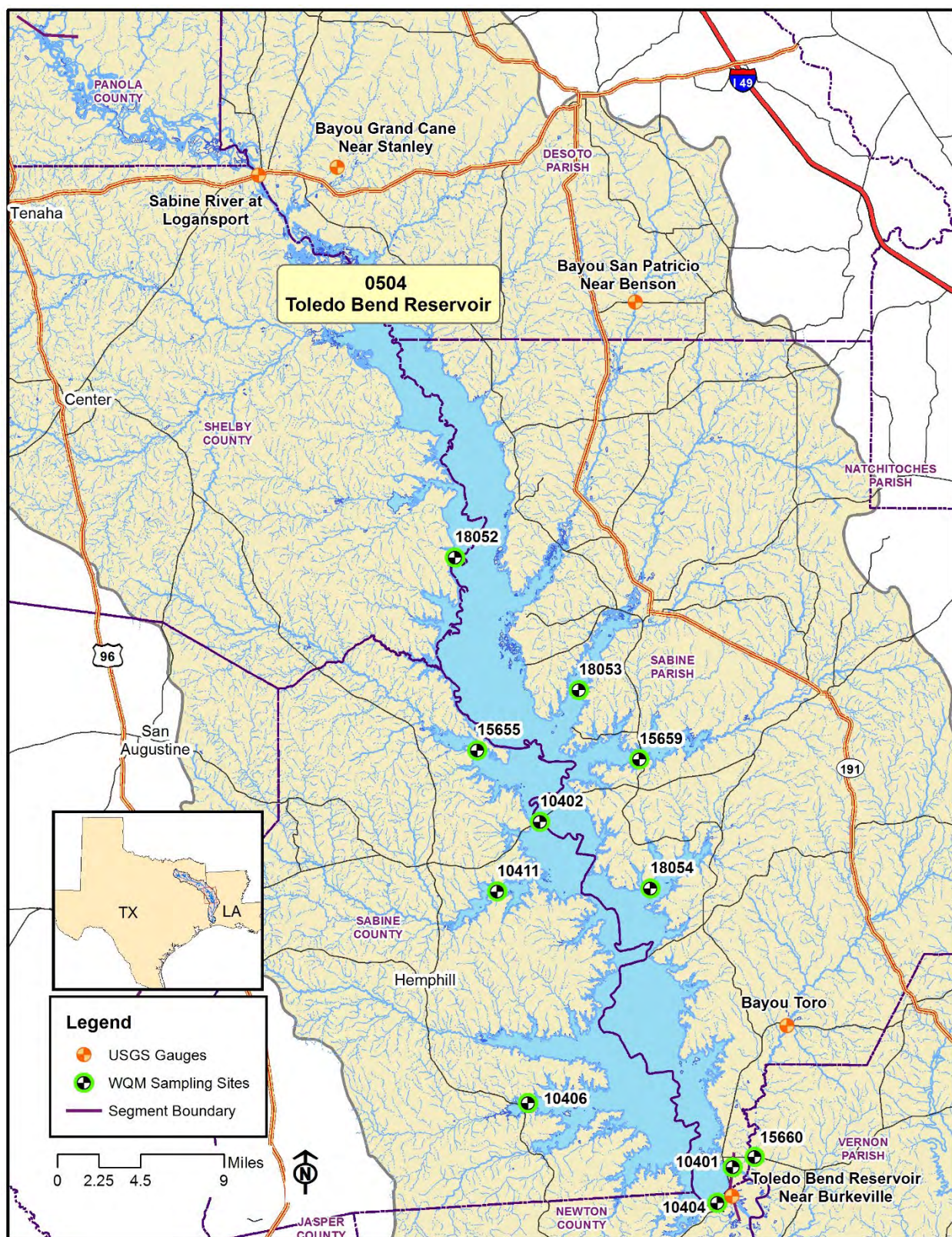


TOLEDO BEND RESERVOIR AT SH 21 NORTHEAST OF MILAM



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.

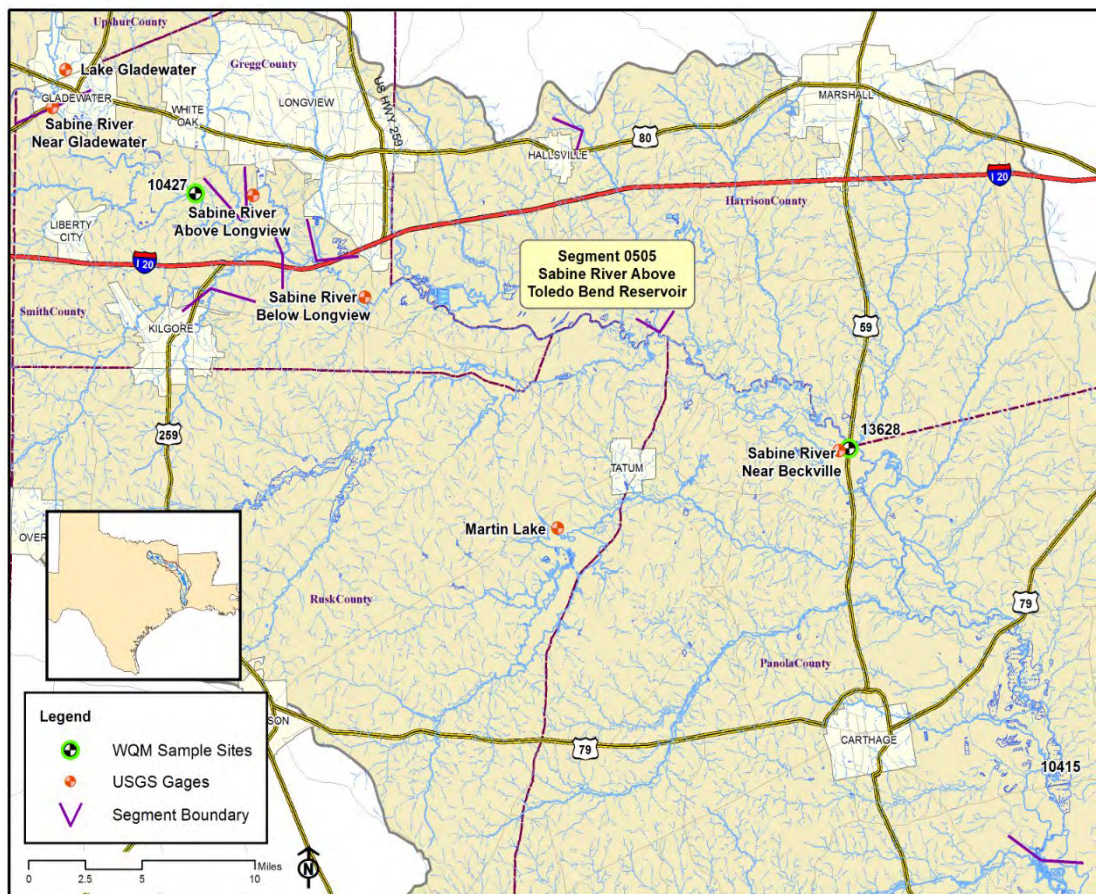
Segment 0505 USGS Recorded Flows

Date and Time	Station	USGS Station #	Location	Flow (cfs)
3/9/22 10:04	13628(SR11)	08022040	Sabine River near Beckville, TX	664

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	<i>E. coli</i> mpn/100mL
3/9/22 10:35	10415(SR10)	0.3	12.5	7.1	10.3	97	292	187	0.26	32.8	249
3/9/22 10:04	13628(SR11)	0.3	12.0	7.1	10.1	95	291	186	0.27	43.8	68
3/9/22 08:18	10427(SR16)	0.3	11.6	7.2	9.7	91	266	170	0.21	41.9	35

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. The segment reaches 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. The segment reaches from the confluence with the Sabine River in Wood County to Lake Fork Dam in Wood County.

Segment 0512 - Lake Fork Reservoir. The segment reaches 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)
3/9/22 08:05	10428(SR17)	08020000	Sabine River near Gladewater, TX	317
3/9/22 06:48	10429(SR19)	08019200	Sabine River near Hawkins, TX	130
3/8/22 15:30	10430(SR21)	08018500	Sabine River near Mineola, TX	40
Segment 0514				
3/9/22 07:01	10468(BS1)	08019500	Big Sandy Creek near Big Sandy, TX	68

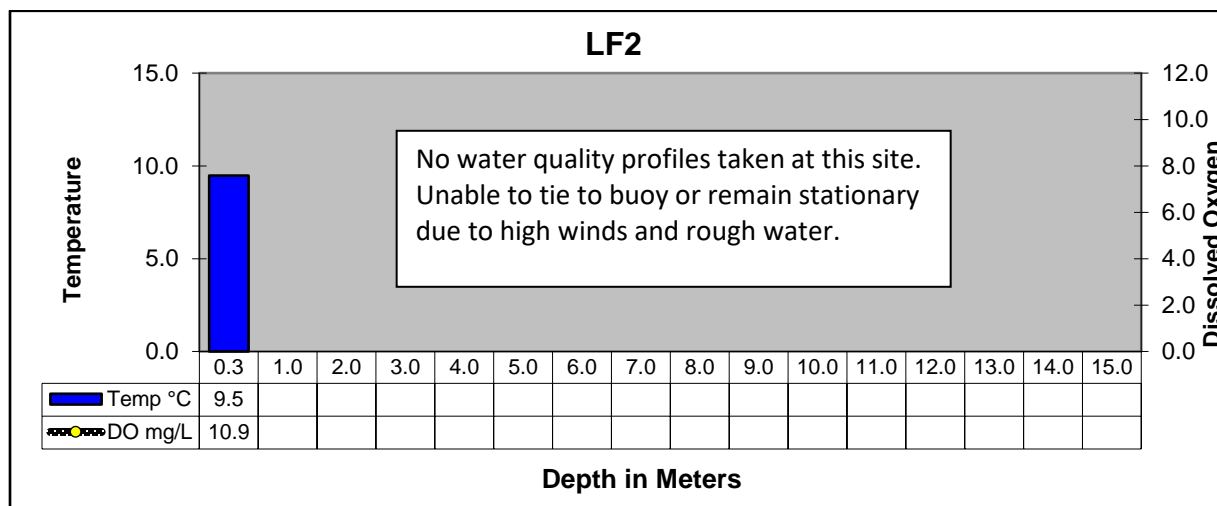
Segment 0506 Water Quality

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	<i>E. coli</i> mpn/100mL
3/9/22 08:05	10428(SR17)	0.3	11.4	6.8	9.7	90	314	200	0.50	29.3	39
3/9/22 06:48	10429(SR19)	0.3	10.3	6.9	9.1	89	318	214	0.39	26.6	138
3/8/22 15:30	10430(SR21)	0.3	11.4	6.8	9.4	87	639	444	0.26	30.9	131
Segment 0514											
3/9/22 07:01	10468(BS1)	0.3	6.5	7.1	11.1	92	148	96	0.71	8.32	248
Segment 0515											
3/8/22 15:52	10469(LF20)	0.3	11.7	6.9	10.0	93	253	162	0.52	20.8	98

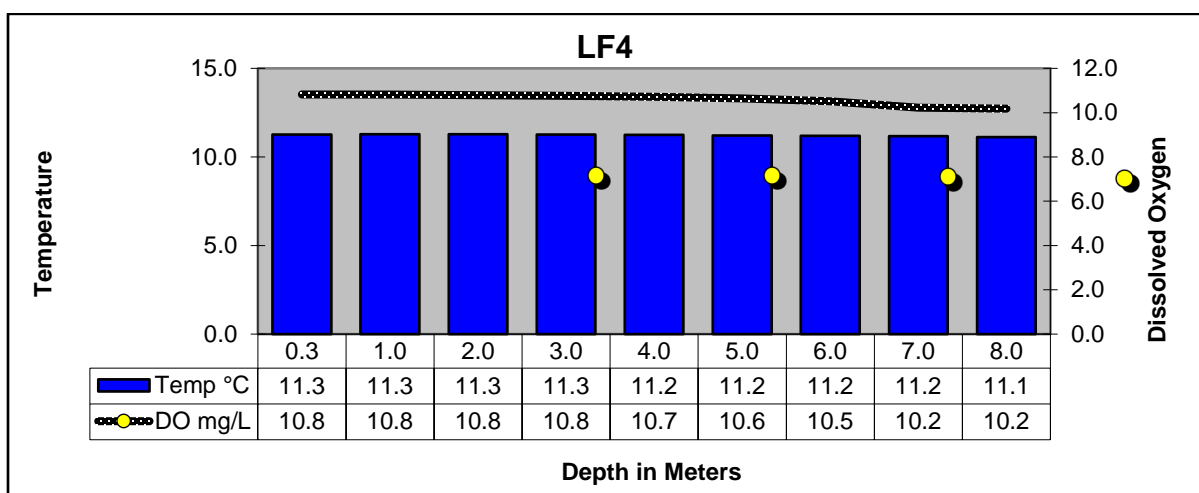
Segment 0506 Water Quality Continued

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	<i>E. coli</i> mpn/100mL
Segment 0512											
3/8/22 14:35	10458(LF2)	0.3	9.5	7.2	10.9	96	152	98	0.74	6.25	12
			No water quality profiles taken at this site. Unable to tie to buoy or remain stationary due to high winds and rough water.								
3/8/22 15:41	10462(LF4)	0.3	11.3	7.5	10.8	100	155	99	0.57	8.90	8
		1.0	11.3	7.4	10.8	100	155	99			
		2.0	11.3	7.4	10.8	100	155	99			
		3.0	11.3	7.4	10.8	100	155	99			
		4.0	11.2	7.4	10.7	99	155	99			
		5.0	11.2	7.2	10.6	97	155	99			
		6.0	11.2	7.2	10.5	96	155	99			
		7.0	11.2	7.2	10.2	95	155	99			
		8.0	11.1	7.2	10.2	95	155	99			
		9.0	11.1	7.2	10.1	93	155	99			
3/8/22 14:00	10461(LF3)	0.3	12.0	7.1	10.1	95	155	99	0.48	13.3	<1
		1.0	12.0	7.1	10.1	94	155	99			
		2.0	11.7	7.1	9.9	92	155	99			
		3.0	11.7	7.1	9.8	90	155	99			
		4.0	11.6	7.0	9.5	87	155	99			
		5.0	11.5	7.0	9.1	83	155	99			
		6.0	11.3	7.0	8.9	81	155	99			
		7.0	11.0	7.0	8.8	79	155	99			

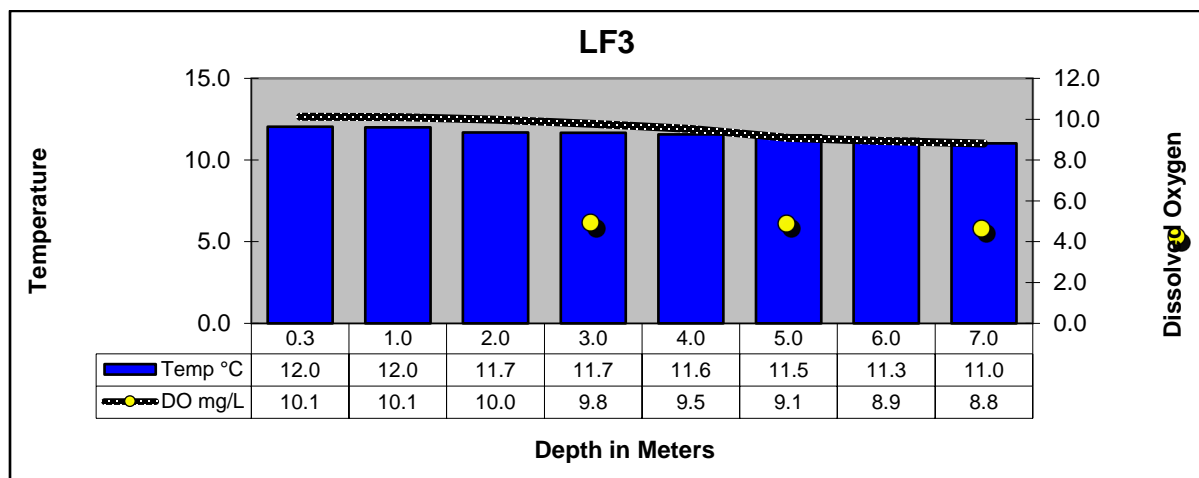
Lake Fork Reservoir Profiles



LAKE FORK RESERVOIR NEAR DAM IN CREEK CHANNEL

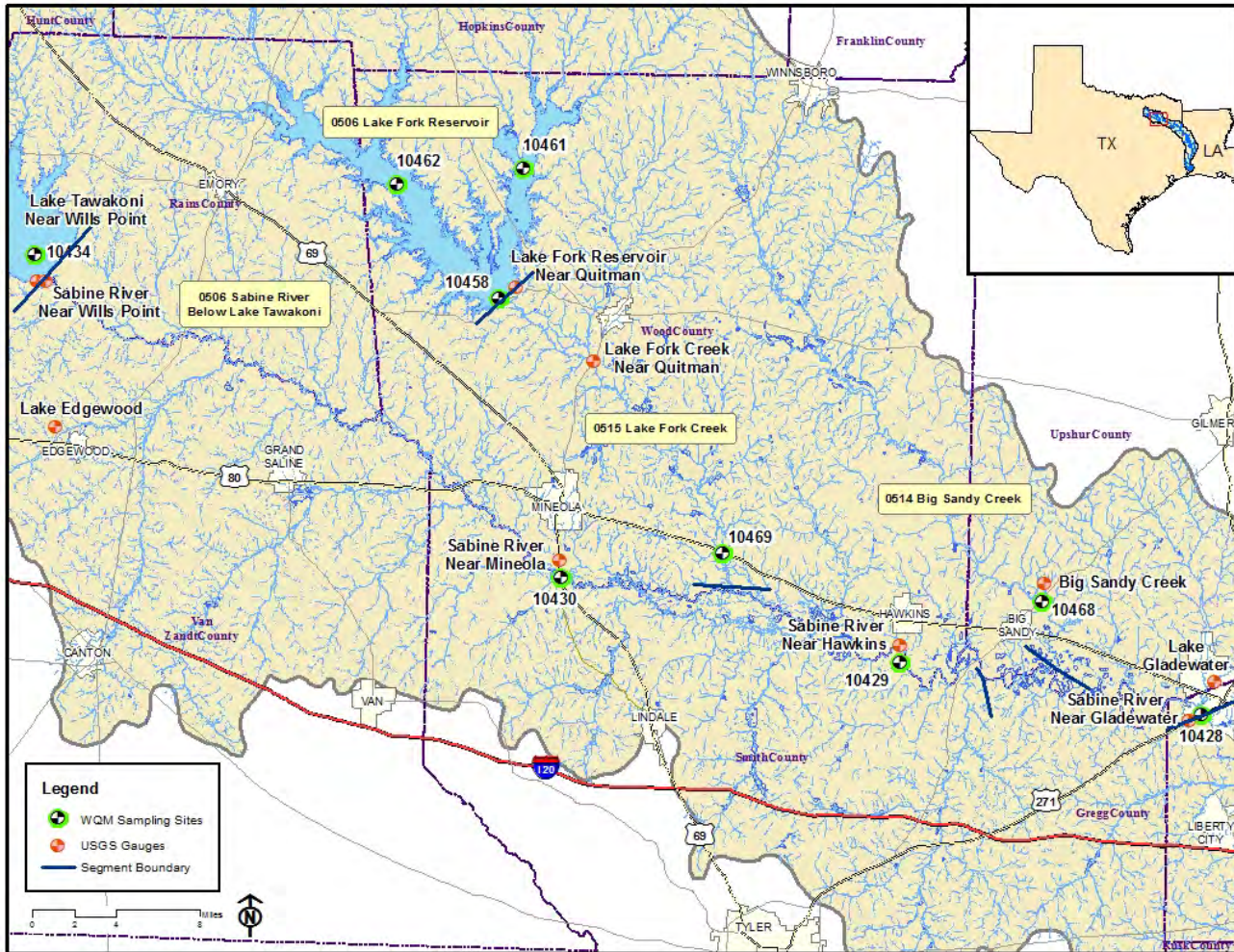


LAKE FORK RESERVOIR MID-COVE IN LAKE FORK CREEK ARM AT FM515



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

Segments 0506, 0512, 0514 & 0515



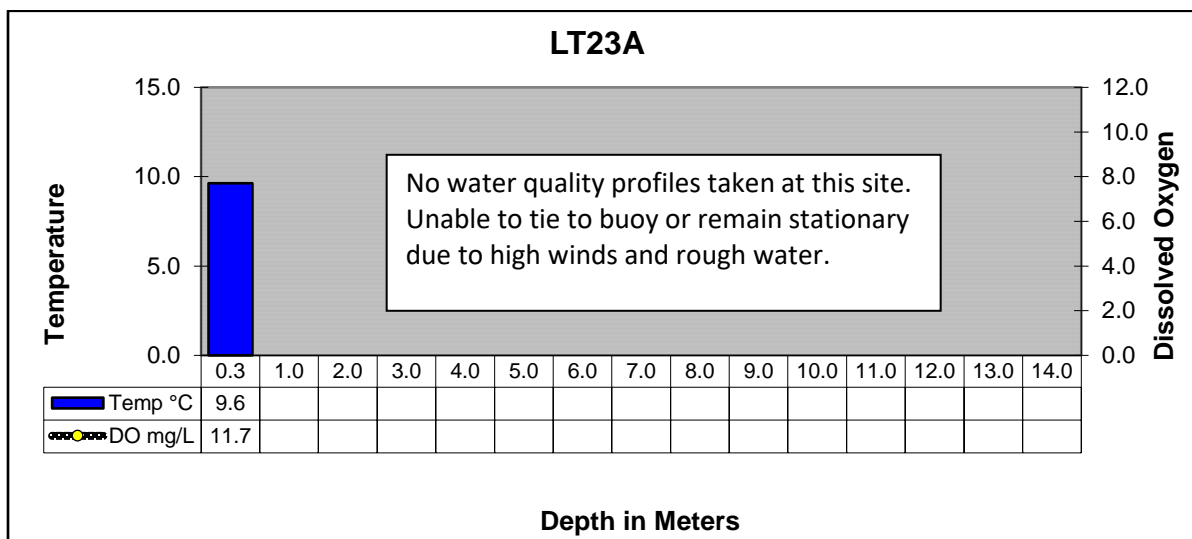
Segment 0507 - Lake Tawakoni

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.

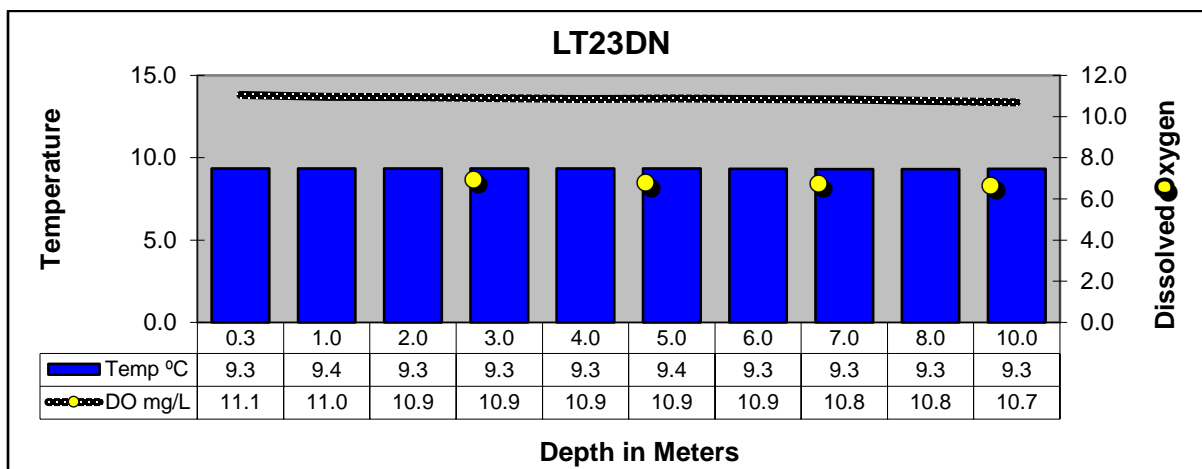
Segment 0507 Water Quality

[illegible]

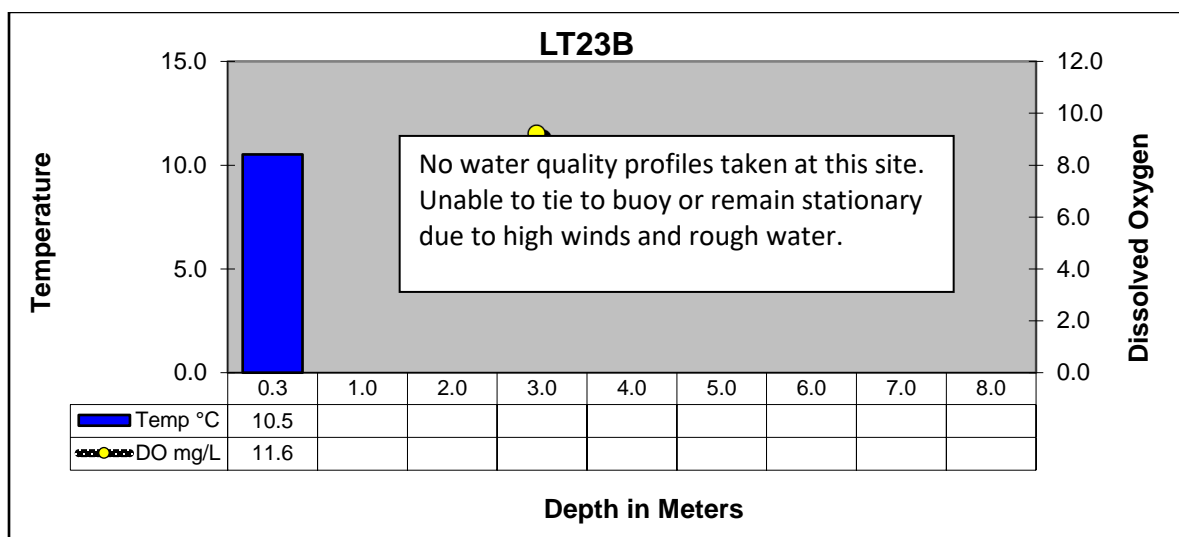
Lake Tawakoni Reservoir Profiles



LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM



LAKE TAWAKONI IN WACO BAY EQUIDISTANT FROM FINGER AND SPRING POINTS



LAKE TAWAKONI AT SH276

Segment 0507

