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**SABINE RIVER AUTHORITY OF TEXAS**

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**TO:** INTERESTED PARTIES  
**FROM:** WATER RESOURCES BRANCH  
**RE:** SEPTEMBER 2004 MONTHLY WATER QUALITY REPORT

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This is the Sabine River Authority Water Quality Report for September 2004. Water quality sampling was performed September 13<sup>th</sup> through September 16<sup>th</sup>. Recent weather (previous seven days) in the Sabine River Basin was warm, with daytime high air temperatures from the low 80s to the mid 90s at Lake Tawakoni and at Lake Fork. Toledo Bend Reservoir and Orange had daytime highs from the low 80s to the mid 90s. Lows ranged from the mid 50s to the upper 60s at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the low 60s to the mid 70s. Lake Tawakoni and Lake Fork exhibited thermal stratification. During the 28 days prior to the September sample run, the Upper Basin received 2.42 and 2.11 inches of rainfall as recorded at Lake Tawakoni and Lake Fork, respectively. The week prior to the sample run, Lake Tawakoni and Lake Fork did not receive any rain. Toledo Bend and Orange received 1.02 and 3.11 inches, respectively, during the 28 days preceding the sample run.

**UPPER SABINE BASIN ABOVE TOLEDO BEND INCLUDING LAKE FORK AND LAKE TAWAKONI**

For the September sample run, most water quality parameter measurements at Upper Basin sites were consistent with water of high quality. The level of Lake Fork was recorded at 401.73 feet msl with 64 cfs releases and the level of Lake Tawakoni was recorded at 436.61 feet msl with 5 cfs releases at the time of sampling. LT23D, LT23C and SR11 did not meet the stream standards numeric criteria for pH. These sites along with LF3 had high levels of dissolved oxygen with greater than 100 percent dissolved oxygen saturation. Chlorophyll *a* values at LT23A, LT23D, LT23C LF3 and LF4 were above the screening levels for reservoir sites. Elevated chlorophyll *a* levels and high dissolved oxygen with greater than 100 percent dissolved oxygen saturation indicate algal bloom conditions. These conditions may also lead to elevated pH levels. SR16 exceeded the stream standards numeric criteria for *E. coli*.

### **LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF**

The September monthly sampling results were indicative of water of high quality at most sites. No rainfall was measured during the seven days prior to sampling. The level of Toledo Bend Reservoir was recorded at 168.43 feet msl with 204 cfs discharge at the time of sampling. All reservoir stations were stratified, with pH and dissolved oxygen differences throughout the water column. Anoxic conditions were found at the deepest depths at most of the lake stations. pH values exceeded stream standards at stations TB7A, TB6R, and TB6K. Stations TB8, TB7A, TB6R, and TB6K had a dissolved oxygen percent saturation value above 100%. These factors together indicate an algal bloom on the northern sections of Toledo Bend. A chlorophyll *a* value above the screening criteria was also found at station TB6F.

### **TIDAL SECTION OF THE SABINE BASIN BELOW MORGAN BLUFF**

Most sites sampled in the tidal portion of the Sabine Basin had values that are consistent with water of high quality. The tidal stations received 0.42 inches of rainfall the day prior to the sample run. All of the sites in this section of the Basin showed some stratification, but no anoxic conditions were found. Surface salinities were found at all tidal stations with the highest value of 10 ppt found at station BB1. The overall greatest salinity value of 20 ppt was found at station SRT1 at a depth of 10.6 meters. All but one of the tidal stations recorded *Enterococcus* results that were above the stream standard criteria. This is most likely a result of the rain the day prior to sampling that was preceded by over a week with dry conditions.

This Report and additional data for these monitoring stations are available on our World Wide Web site ([www.sra.dst.tx.us](http://www.sra.dst.tx.us)). If you have any questions or comments concerning this report, please contact:

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# SABINE RIVER AUTHORITY OF TEXAS

## Monthly Water Quality Report

September 2004

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## FY 2005 Fixed Monitoring Stations

### Upper Sabine Basin

SW	Segment	Station	Location
7.00	0507	10440 (LT23C)	LAKE TAWAKONI NEAR WIND POINT PARK
7.00	0507	10435 (LT23D)	LAKE TAWAKONI IN KITSEE INLET NEAR WHITE POINT CAUSEWAY
7.00	0507	10434 (LT23A)	LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM
6.12	0512	10461 (LF3)	LAKE FORK RESERVOIR MID-ARM IN CANEY CREEK ARM AT FM 515
6.12	0512	10462 (LF4)	LAKE FORK RESERVOIR MID-COVE IN LAKE FORK CREEK ARM AT FM 515
6.12	0512	10458 (LF2)	LAKE FORK RESERVOIR NEAR DAM IN CREEK CHANNEL
6.10	0515	10469 (LF20)	LAKE FORK CREEK AT US 80
6.02	0514	16011 (BS9)	BIG SANDY CREEK AT WHITE OAK ROAD
6.00	0506	17065 (SR22)	SABINE RIVER AT FM 17
6.00	0506	10430 (SR21)	SABINE RIVER AT US 69
6.00	0506	10429 (SR19)	SABINE RIVER AT SH 14 S. OF HAWKINS
5.00	0506	10428 (SR17)	SABINE RIVER AT US 271
5.00	0505	10427 (SR16)	SABINE RIVER AT SH 42
5.00	0505	10426 (SR15)	SABINE RIVER AT US 259
5.00	0505	10423 (SR14)	SABINE RIVER AT SH 149
5.00	0505	13628 (SR11)	SABINE RIVER AT US 59
5.00	0505	10415 (SR10)	SABINE RIVER AT FM 2517

**SABINE RIVER AUTHORITY OF TEXAS**

Upper Sabine Basin Report

September 2004

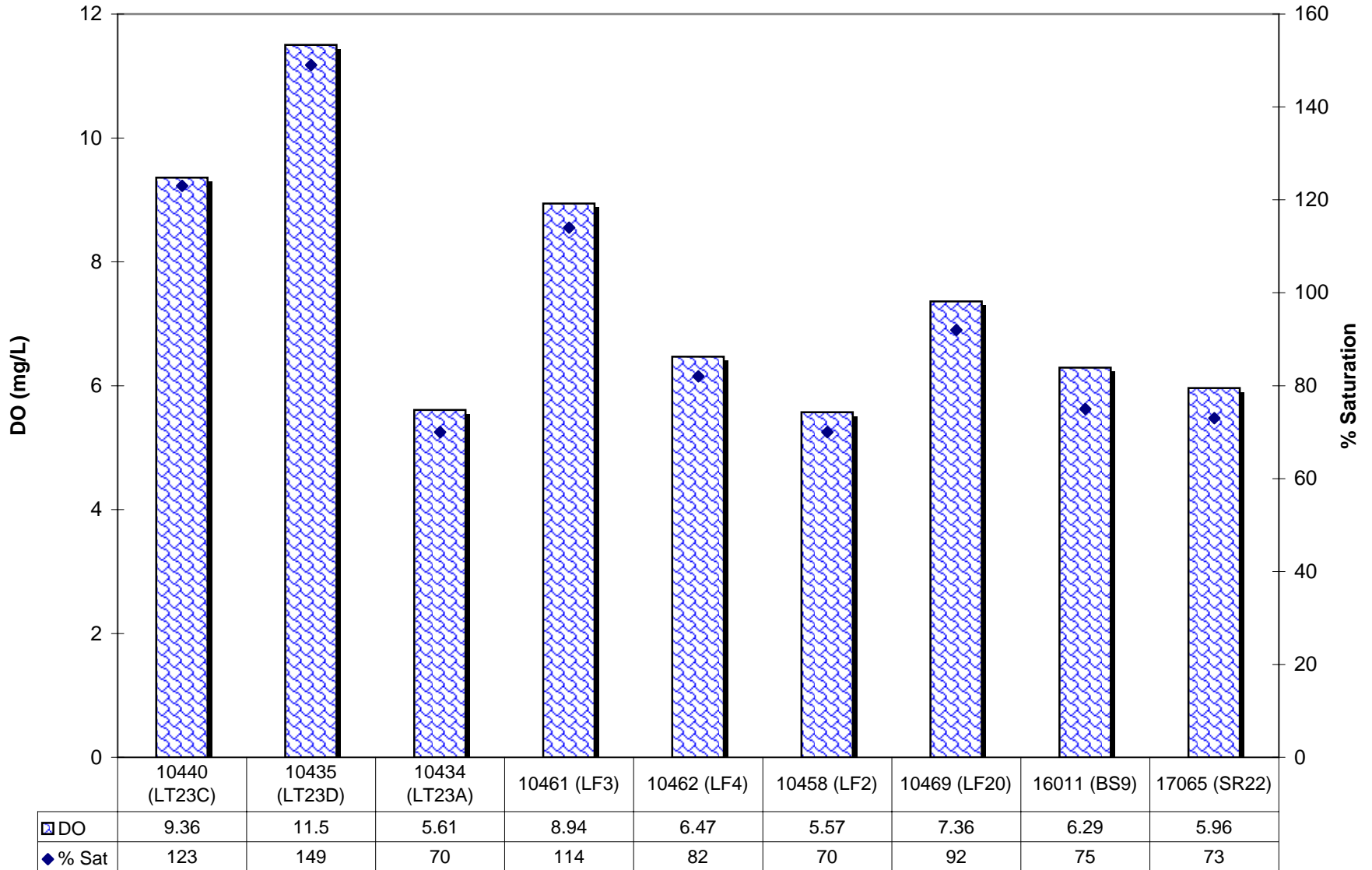
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	E. coli mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
9/14/04 11:17 AM	7.00	10440 (LT23C)	28.9	9.16	9.36	123	168	*	0.48	17.2	1	59	< 0.02	< 0.02	< 0.04	7	60	60	< 10	< 10
9/14/04 10:30 AM	7.00	10435 (LT23D)	27.9	9.3	11.5	149	172	*	0.65	6.35	< 1	96	< 0.02	< 0.02	< 0.04	7	60	60	< 10	< 10
9/14/04 9:40 AM	7.00	10434 (LT23A)	25.9	7.89	5.61	70	195	*	0.9	3.62	1	65	< 0.02	0.05	< 0.04	6	70	68	< 10	< 10
9/14/04 8:30 AM	6.12	10461 (LF3)	27.1	8.99	8.94	114	174	*	1.09	2.22	2	24	< 0.02	< 0.02	< 0.04	6	30	44	13	16
9/14/04 8:50 AM	6.12	10462 (LF4)	26.7	7.58	6.47	82	171	*	1.03	2.89	< 1	22	< 0.02	0.02	< 0.04	6	30	44	13	16
9/14/04 7:55 AM	6.12	10458 (LF2)	26	7.27	5.57	70	171	*	2.09	1.3	1	12	< 0.02	< 0.02	< 0.04	6	30	40	13	17
9/14/04 1:28 PM	6.10	10469 (LF20)	25.5	7.38	7.36	92	183	*	0.42	22.3	33	*	< 0.02	0.02	< 0.04	5	30	72	15	18
9/15/04 6:45 AM	6.02	16011 (BS9)	23.5	6.68	6.29	75	117	*	0.43	12.5	276	*	< 0.02	0.16	< 0.04	4	20	40	12	< 10
9/14/04 12:28 PM	6.00	17065 (SR22)	24.7	7.51	5.96	73	243	*	0.31	36.4	63	*	< 0.02	< 0.02	< 0.04	6	80	80	11	15
9/14/04 1:02 PM	6.00	10430 (SR21)	24.6	7.42	5.91	72	377	*	0.21	55.4	25	*	< 0.02	< 0.02	< 0.04	6	80	104	40	32
9/14/04 1:54 PM	6.00	10429 (SR19)	26.5	7.65	7.81	99	313	*	0.34	32.5	4	*	< 0.02	< 0.02	< 0.04	6	50	76	40	30
9/15/04 7:15 AM	5.00	10428 (SR17)	26.6	7.36	6.81	86	272	*	0.29	40.4	36	*	< 0.02	< 0.02	< 0.04	5	40	64	35	24
9/15/04 7:50 AM	5.00	10427 (SR16)	26.3	7.16	6.34	80	304	*	0.21	77.3	1730	*	< 0.02	0.19	< 0.04	6	40	72	45	22
9/15/04 8:17 AM	5.00	10426 (SR15)	26.7	7.23	6.18	79	391	*	0.37	24.3	43	*	< 0.02	0.04	< 0.04	6	40	72	70	26
9/15/04 8:45 AM	5.00	10423 (SR14)	27	7.35	6.74	86	361	*	0.36	22.2	20	*	< 0.02	2.13	0.27	6	40	76	52	28
9/15/04 10:20 AM	5.00	13628 (SR11)	27.3	8.96	8.73	112	828	*	0.41	19.1	4	*	< 0.02	< 0.02	< 0.04	11	100	72	149	75
9/15/04 11:03 AM	5.00	10415 (SR10)	27.9	8.18	7.4	96	565	*	0.4	20.1	1	*	< 0.02	< 0.02	< 0.04	10	100	112	72	61

\*: Not sampled on this run

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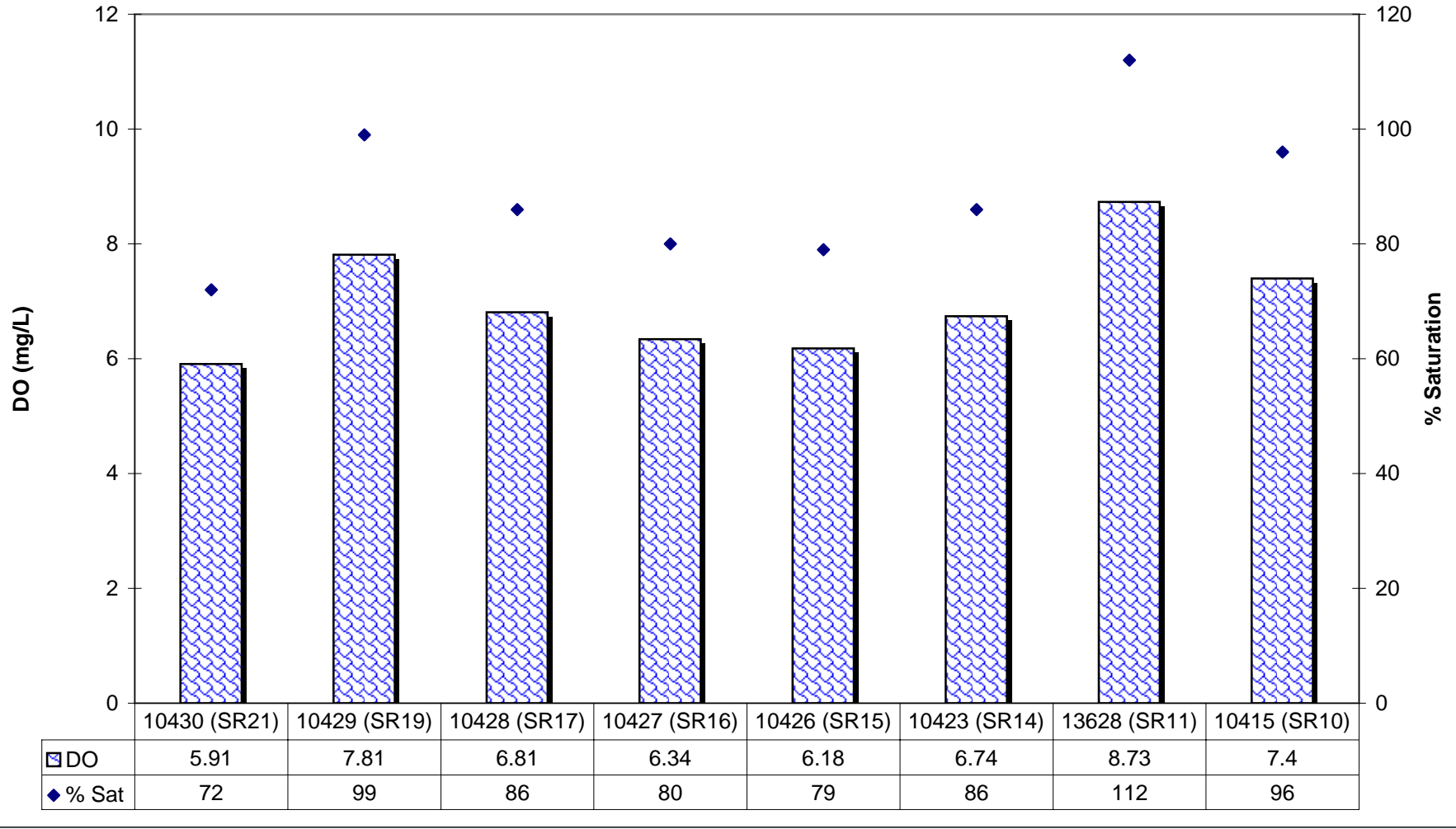
## Upper Sabine Basin DO / % Saturation (1 of 2)



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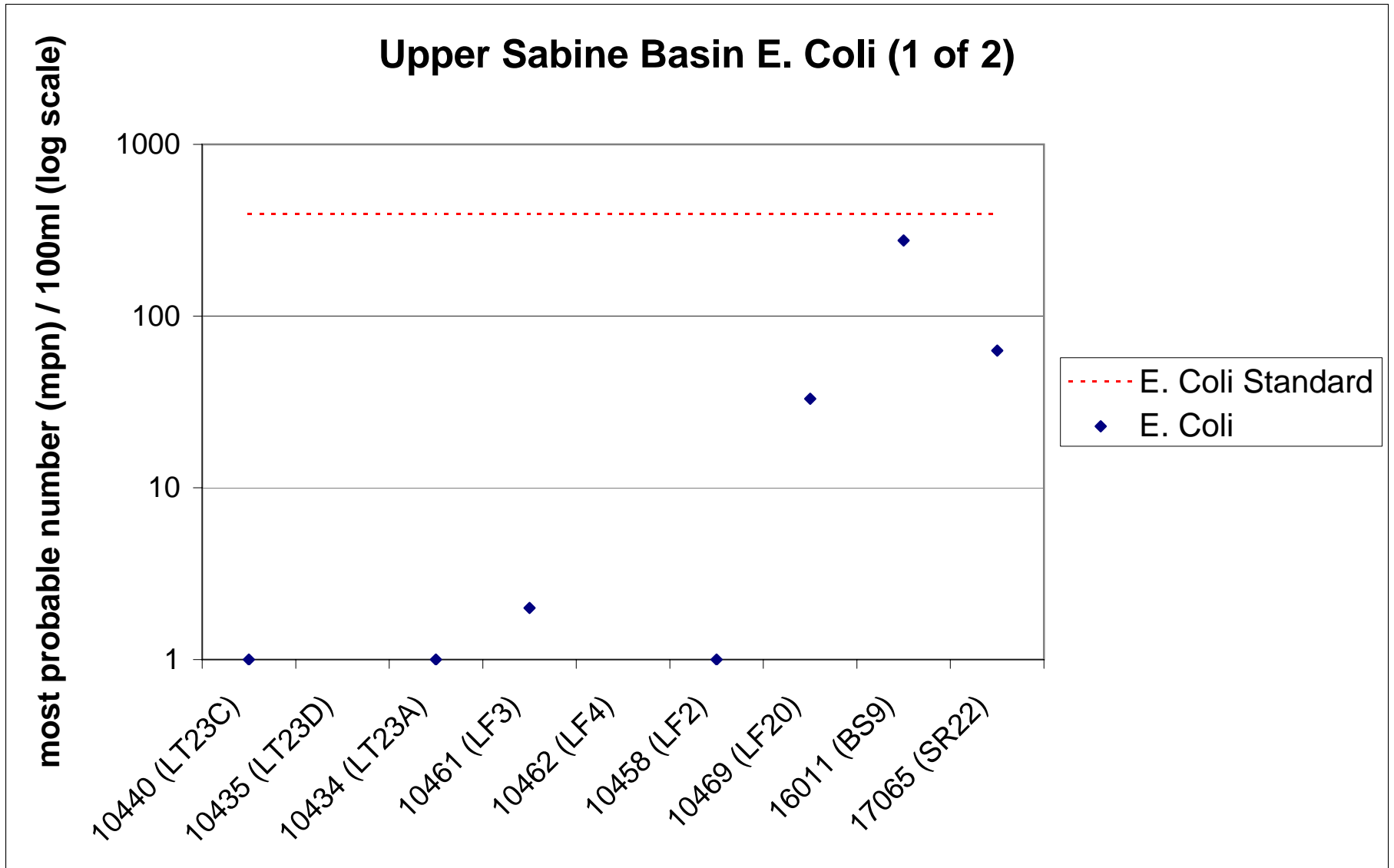
September 2004

## Upper Sabine Basin DO / % Saturation (2 of 2)



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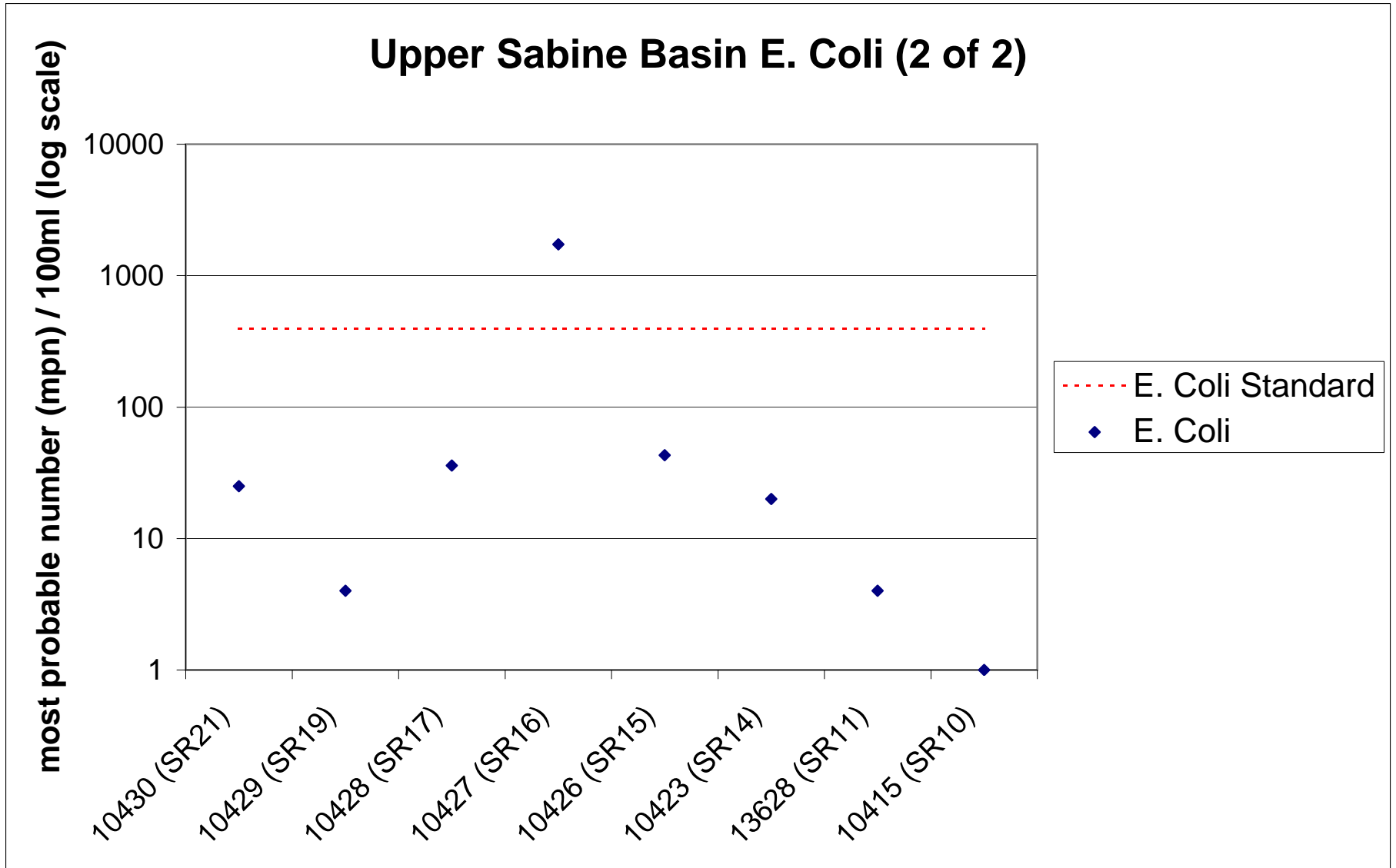
September 2004



Stations without values were below detection limit on this run (see page 2)

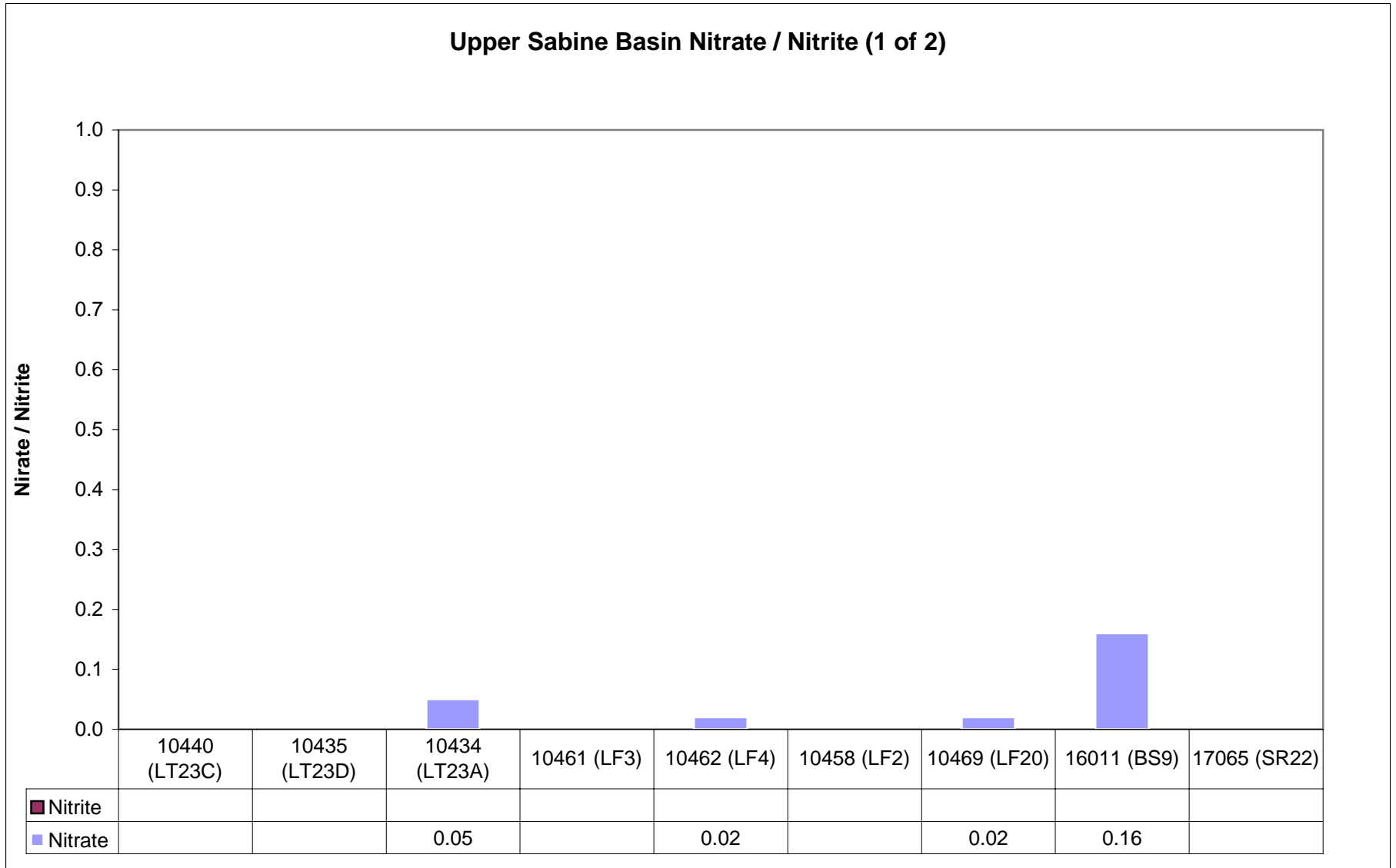
# SABINE RIVER AUTHORITY OF TEXAS

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September 2004

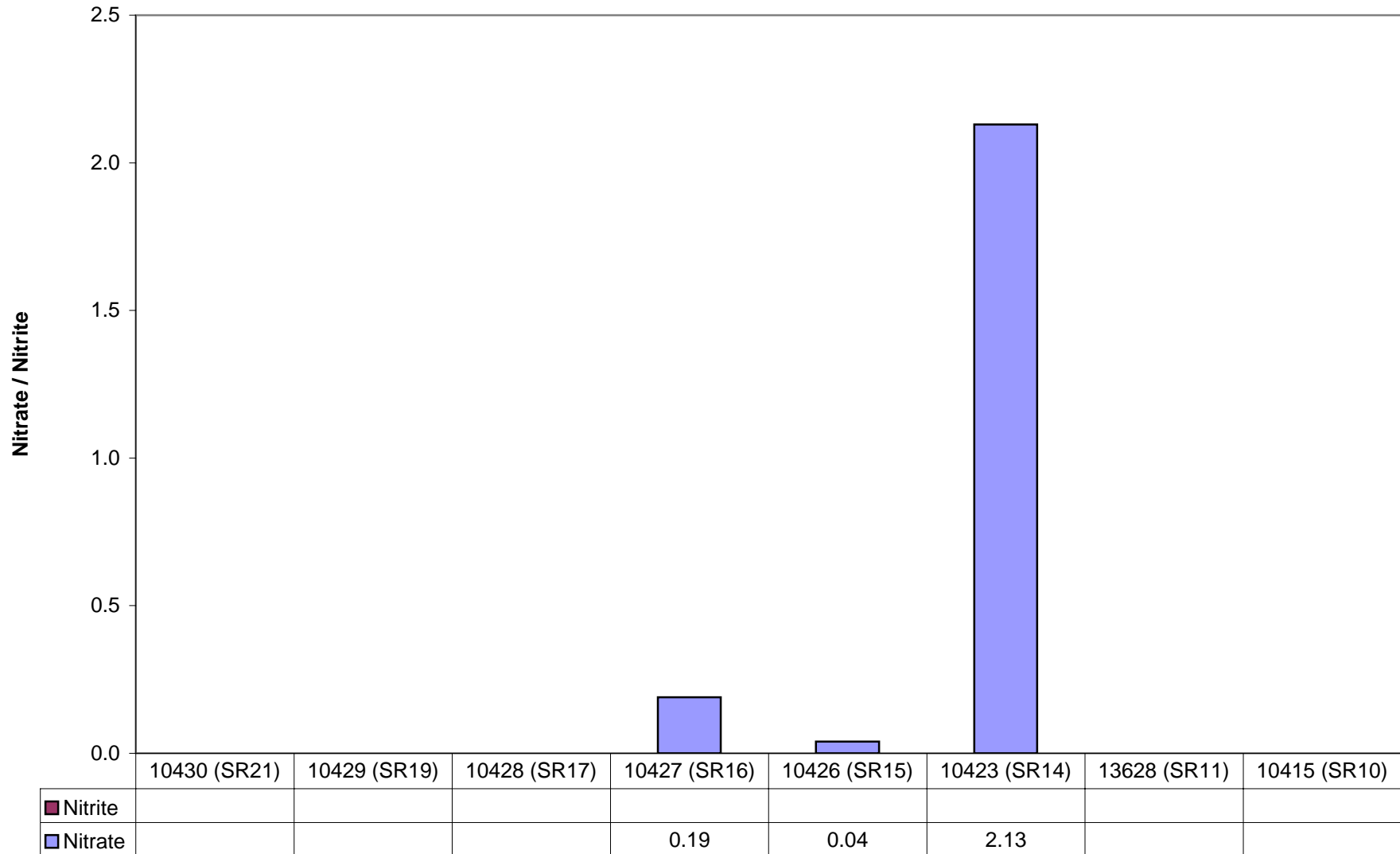


Stations without values below detection limit (< 0.02 mg/L) on this run (see page 2)

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## Upper Sabine Basin Nitrate / Nitrite (2 of 2)



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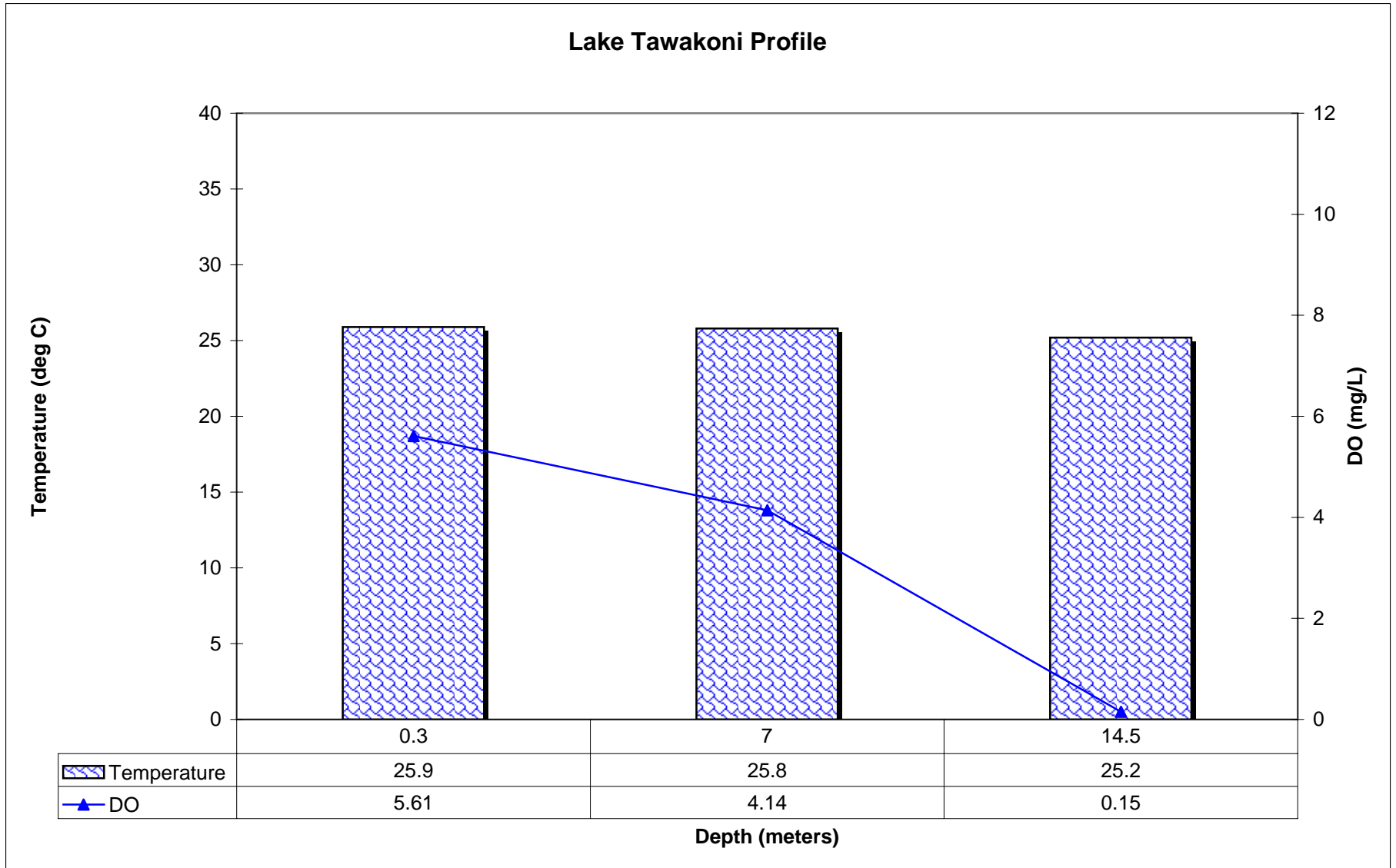
## Upper Basin Profiles

September 2004

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
9/14/04 11:17 AM	7.00	10440 (LT23C)	0.3	28.9	9.16	9.36	123	168
			2	28.6	9.18	8.8	115	168
			3.3	28.5	8.98	7.63	100	172
9/14/04 10:30 AM	7.00	10435 (LT23D)	0.3	27.9	9.3	11.5	149	172
			4	26.2	7.71	3.15	40	205
			8	25.8	7.34	0.17	2	210
9/14/04 9:40 AM	7.00	10434 (LT23A)	0.3	25.9	7.89	5.61	70	195
			7	25.8	7.57	4.14	52	198
			14.5	25.2	7.18	0.15	2	211
9/14/04 8:30 AM	6.12	10461 (LF3)	0.3	27.1	8.99	8.94	114	174
			5	26.2	7.04	3.92	49	177
			9	25.9	6.82	0.2	3	175
9/14/04 8:50 AM	6.12	10462 (LF4)	0.3	26.7	7.58	6.47	82	171
			5	26.7	7.44	6	77	173
			10	26.3	6.99	2.45	30	180
9/14/04 7:55 AM	6.12	10458 (LF2)	0.3	26	7.27	5.57	70	171
			7	25.9	7.03	3.97	50	169
			17	15.7	6.86	0.17	2	220

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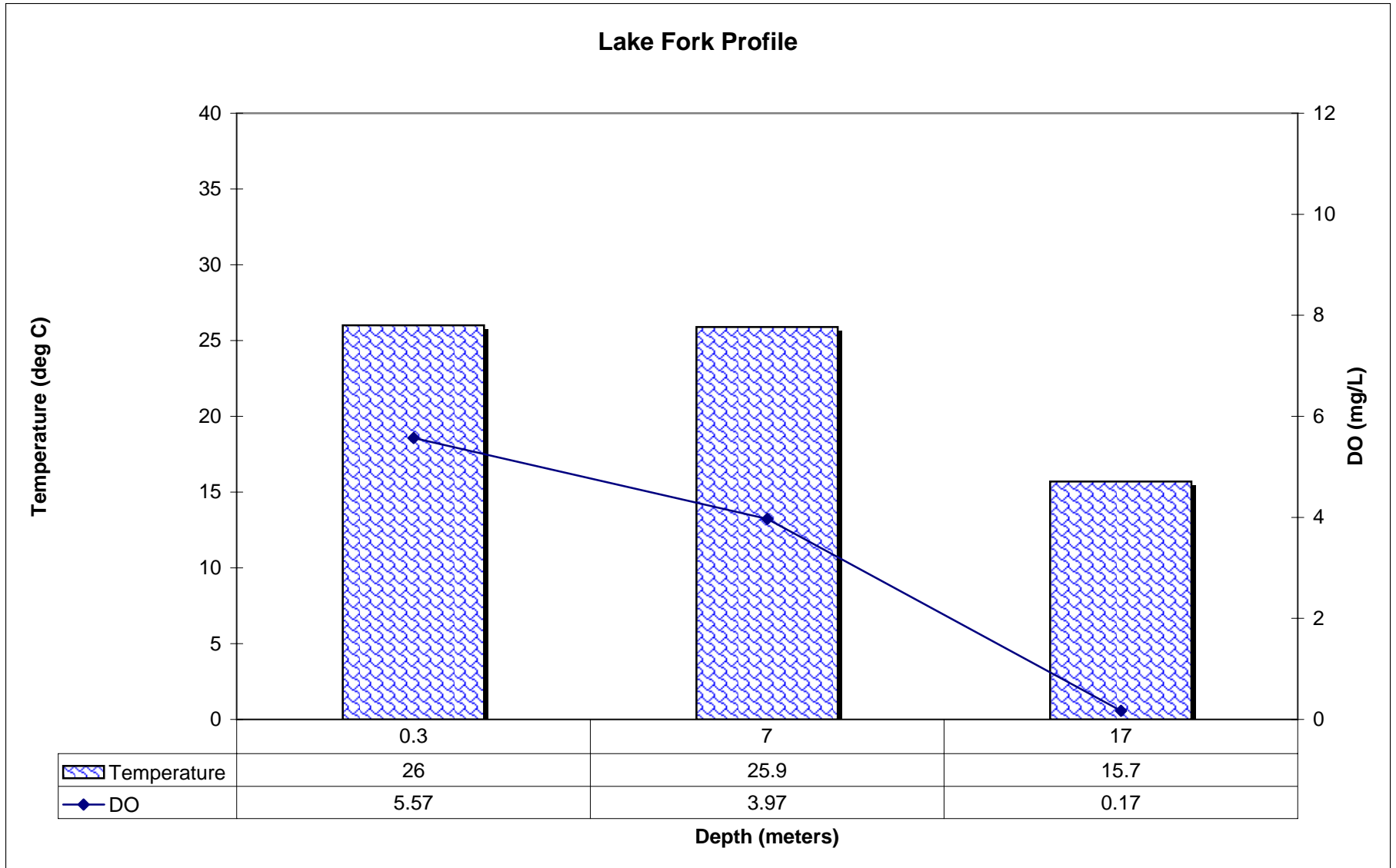
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For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

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## Lake Tawakoni Weather and Reservoir Data

September 2004

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
9/1/2004	436.89	(0.61)	5	85	65	0.00	0.30
9/2/2004	436.86	(0.64)	5	85	65	0.00	0.25
9/3/2004	436.83	(0.67)	5	86	63	0.00	0.26
9/4/2004	436.82	(0.68)	5	86	68	0.00	0.06
9/5/2004	436.81	(0.69)	5	88	72	0.00	0.29
9/6/2004	436.80	(0.70)	5	88	72	0.00	0.20
9/7/2004	436.80	(0.70)	5	82	66	0.02	0.30
9/8/2004	436.75	(0.75)	5	83	59	0.00	0.33
9/9/2004	436.71	(0.79)	5	83	56	0.00	0.29
9/10/2004	436.68	(0.82)	5	85	58	0.00	0.29
9/11/2004	436.66	(0.84)	5	88	60	0.00	0.28
9/12/2004	436.65	(0.85)	5	88	66	0.00	0.26
9/13/2004	436.62	(0.88)	5	90	68	0.00	0.29
9/14/2004	436.61	(0.89)	5	90	69	0.00	0.26
9/15/2004	436.78	(0.72)	5	89	72	0.44	0.24
9/16/2004	436.78	(0.72)	5	89	72	0.00	0.19
9/17/2004	436.76	(0.74)	5	92	72	0.00	0.26
9/18/2004	436.74	(0.76)	5	94	71	0.00	0.39
9/19/2004	436.71	(0.79)	5	92	66	0.00	0.35
9/20/2004	436.68	(0.82)	5	90	67	0.00	0.39
9/21/2004	436.64	(0.86)	5	87	66	0.00	0.34
9/22/2004	436.61	(0.89)	5	86	66	0.00	0.29
9/23/2004	436.60	(0.90)	5	86	66	0.00	0.29
9/24/2004	436.59	(0.91)	5	87	64	0.00	0.31
9/25/2004	436.57	(0.93)	5	81	68	0.00	0.12
9/26/2004	436.54	(0.96)	5	81	66	0.00	0.25
9/27/2004	436.52	(0.98)	5	86	63	0.00	0.34
9/28/2004	436.51	(0.99)	5	85	62	0.00	0.28
9/29/2004	436.47	(1.03)	5	82	56	0.00	0.17
9/30/2004	436.45	(1.05)	5	84	57	0.00	0.23
<b>Avg or Tot</b>	436.68	(0.82)	5	87	65	0.46	8.10

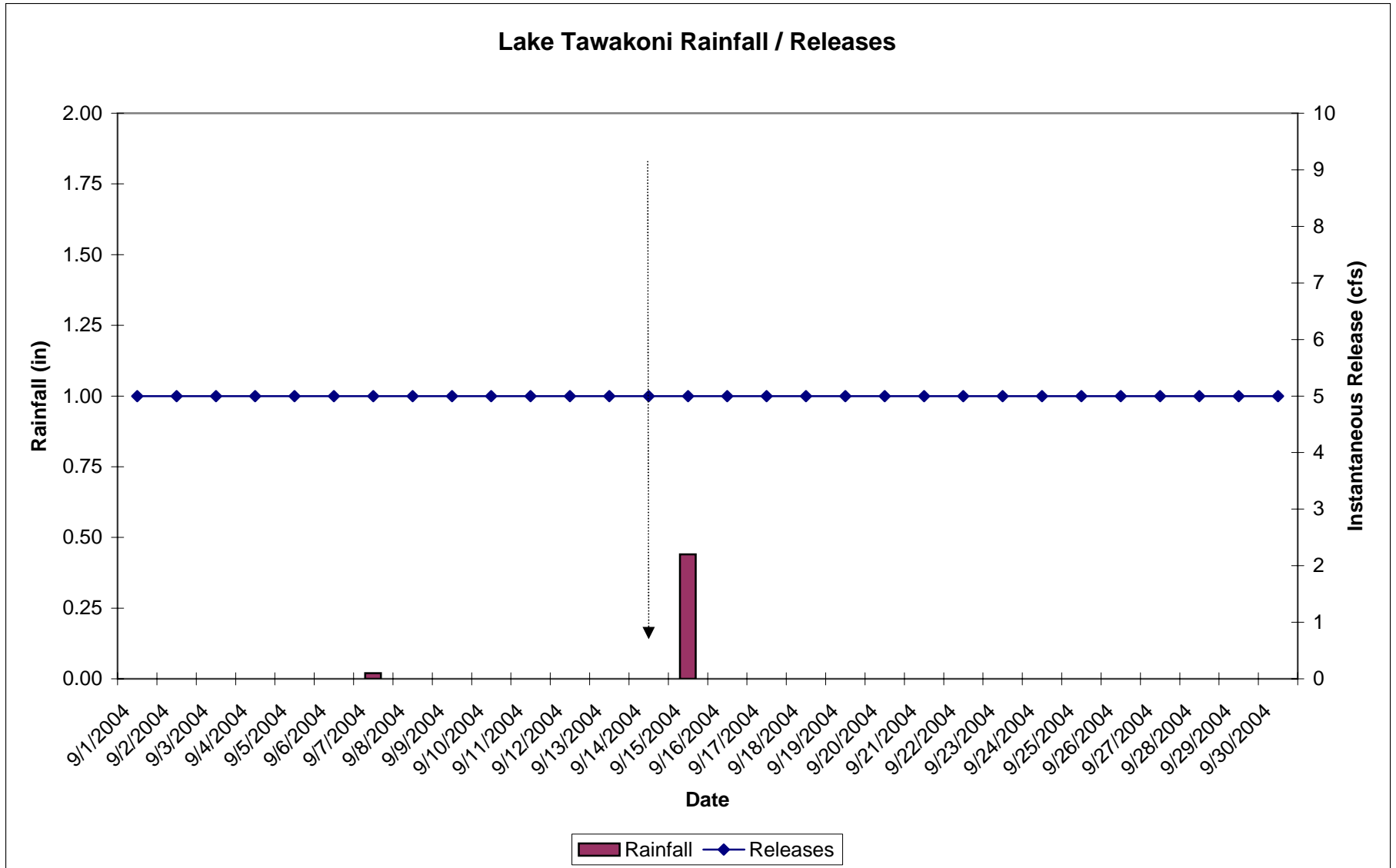
	Avg	Avg	Avg	Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	Deg F	Deg F	Inches	Inches
			Instantaneous				
			appx. 8 a.m.				

TOP: Top of Pool = 437.5 Feet M.S.L.

Lake Tawakoni Sampled on 9/14/2004

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September 2004



Please Note : Lake Tawakoni has an uncontrolled spillway.

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## Lake Fork Weather and Reservoir Data

September 2004

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
9/1/2004	402.04	(0.96)	64	64	88	64	0.00	0.30
9/2/2004	402.00	(1.00)	64	64	90	62	0.00	0.21
9/3/2004	401.98	(1.02)	64	64	90	64	0.00	0.21
9/4/2004	401.96	(1.04)	64	64	90	66	0.00	0.20
9/5/2004	401.94	(1.06)	64	64	92	68	0.00	0.40
9/6/2004	401.92	(1.08)	64	64	92	70	0.03	0.15
9/7/2004	401.91	(1.09)	64	64	88	66	0.00	0.27
9/8/2004	401.89	(1.11)	64	64	92	58	0.00	0.34
9/9/2004	401.84	(1.16)	64	64	90	54	0.00	0.31
9/10/2004	401.80	(1.20)	64	64	90	66	0.00	0.26
9/11/2004	401.78	(1.22)	64	64	92	60	0.00	0.29
9/12/2004	401.77	(1.23)	64	64	94	66	0.00	0.30
9/13/2004	401.75	(1.25)	64	64	94	64	0.00	0.25
9/14/2004	401.73	(1.27)	64	64	96	64	0.00	0.33
9/15/2004	401.77	(1.23)	64	64	94	70	0.45	0.33
9/16/2004	401.77	(1.23)	64	64	94	68	0.00	0.28
9/17/2004	401.75	(1.25)	64	64	98	68	0.00	0.25
9/18/2004	401.74	(1.26)	64	64	98	70	0.00	0.31
9/19/2004	401.72	(1.28)	64	64	98	66	0.00	0.39
9/20/2004	401.71	(1.29)	64	64	94	62	0.00	0.44
9/21/2004	401.65	(1.35)	64	64	90	62	0.00	0.09
9/22/2004	401.62	(1.38)	64	64	92	64	0.00	0.24
9/23/2004	401.60	(1.40)	64	64	90	62	0.00	0.40
9/24/2004	401.58	(1.42)	64	64	92	64	0.00	0.25
9/25/2004	401.57	(1.43)	64	64	82	64	0.00	0.14
9/26/2004	401.54	(1.46)	64	64	86	66	0.00	0.18
9/27/2004	401.51	(1.49)	64	64	90	58	0.00	0.28
9/28/2004	401.49	(1.51)	64	64	90	59	0.00	0.27
9/29/2004	401.47	(1.53)	64	64	88	54	0.00	0.08
9/30/2004	401.43	(1.57)	64	64	90	56	0.00	0.35
<b>Avg or Tot</b>	401.74	(1.26)	64	64	91	64	0.48	8.10

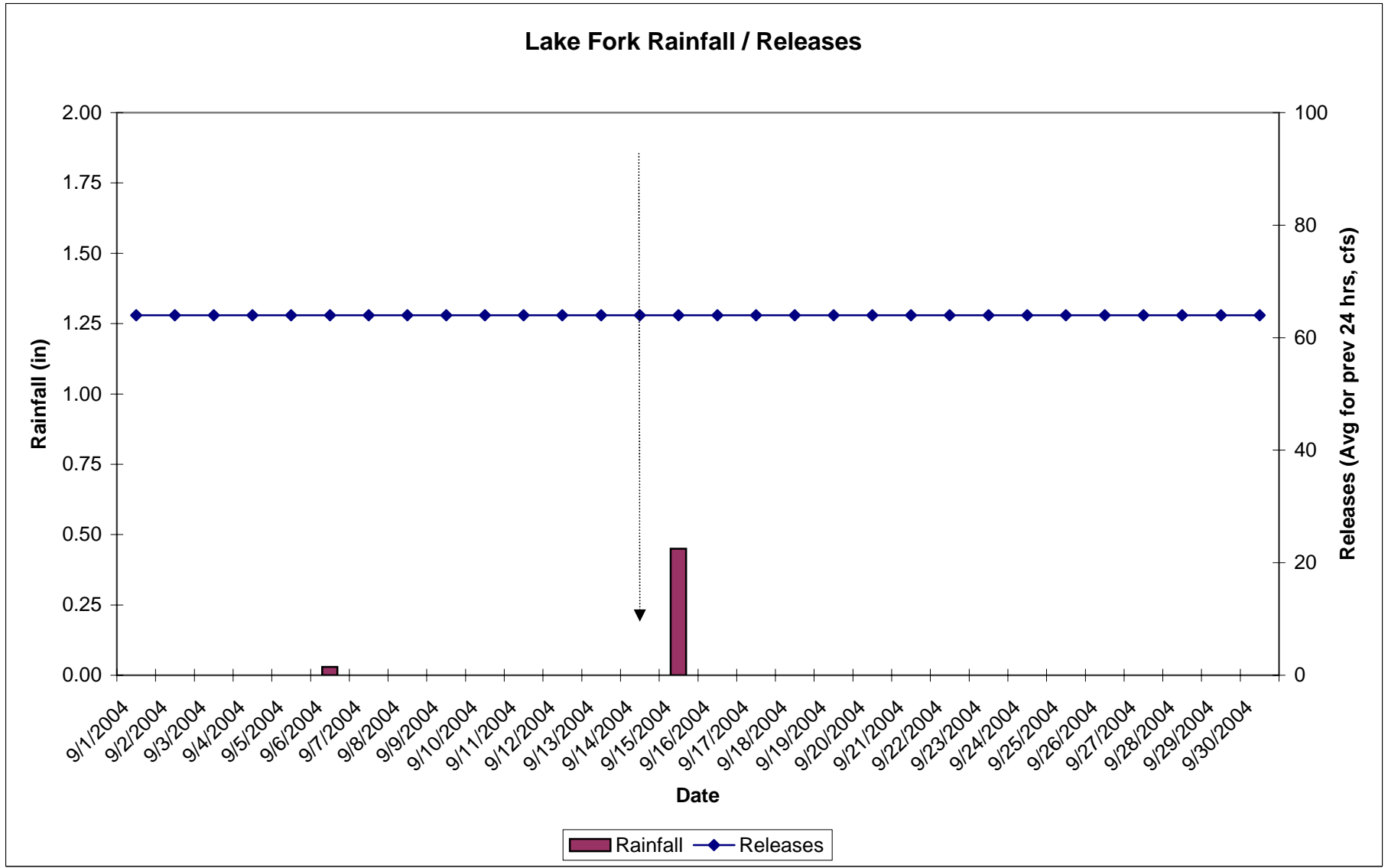
Units	Avg Feet M.S.L.	Avg Feet	Avg cfs Previous 24 hrs	cfs	Avg Deg F	Avg Deg F	Tot Inches	Tot Inches
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TOP: Top of Pool = 403 Feet M.S.L.

Lake Fork Sampled on 9/14/2004

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## FY 2005 Fixed Monitoring Stations

### Lower Sabine Basin

SW	Segment	Station	Location
4.00	0504	10403 (TB8)	TOLEDO BEND RESERVOIR AT US 84 NEAR LOGANSPO RT LA
4.00	0504	18051 (TB7A)	TOLEDO BEND RESERVOIR AT RECREATION SITE 1
4.00	0504	18052 (TB6R)	TOLEDO BEND RAGTOWN
4.00	0504	18053 (TB6LN)	TOLEDO BEND RESERVOIR SAN MIGUEL ARM BOAT LANE
4.00	0504	15655 (TB6J)	TOLEDO BEND RESERVOIR PATROON BAYOU BRANCH AT FM 276
4.00	0504	15659 (TB6K)	TOLEDO BEND RESERVOIR IN LANANA BAYOU AT LOUISIANA SH 191 IN SABINE PARISH LOUISIANA WEST OF MANY
4.00	0504	10402 (TB6H)	TOLEDO BEND RESERVOIR AT SH 21 NORTHEAST OF MILAM
4.00	0504	18054 (TB6Q)	TOLEDO BEND RESERVOIR IN NEGREET BAYOU
4.00	0504	10411 (TB6F)	TOLEDO BEND RESERVOIR IN SUNSHINE BAY NEAR FM 3121 BRIDGE
4.00	0504	10407 (TB6CN)	TOLEDO BEND RESERVOIR IN SIX MILE BOAT LANE AT SH 87
4.00	0504	10404 (TB6A)	TOLEDO BEND RESERVOIR MAIN LAKE ABOVE THE DAM AT THE OLD RIVER CHANNEL
3.03	0503	10340 (BA4)	ANACOCO BAYOU AT LOUISIANA HWY 111 CROSSING SOUTHWEST OF KNIGHT LA
3.00	0503	10401 (TB6S)	SABINE RIVER BELOW TOLEDO BEND RESERVOIR AT RIGHT ABUTMENT OF SPILLWAY FOR DAM
3.00	0503	10399 (SR5)	SABINE RIVER AT SH 63 EAST OF BURKEVILLE TX.
3.00	0503	10398 (SR3)	SABINE RIVER AT US 190 EAST OF BON WIER TX.
2.05	0513	10465 (BCC1)	BIG COW CREEK AT FM 1416 SOUTH OF BON WIER
2.00	0502	10397 (SR2)	SABINE RIVER AT SH 12 NORTH OF DEWEYVILLE TX.

**SABINE RIVER AUTHORITY OF TEXAS**

Lower Basin Report

September 2004

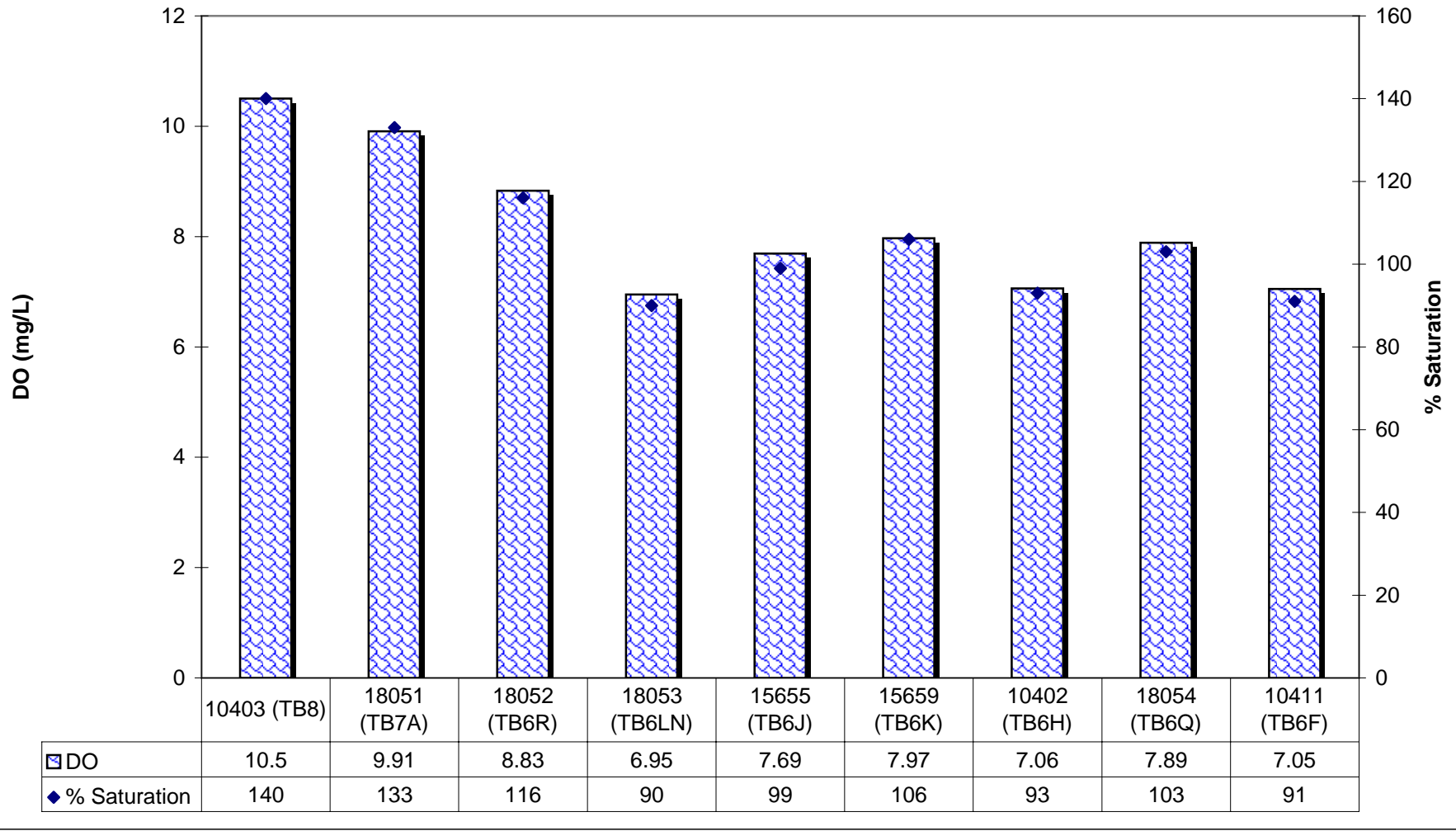
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
9/15/04 12:34 PM	4.00	10403 (TB8)	29.8	8.45	10.5	140	380	*	0.49	7.37	43	*	0.02	0.02	< 0.04	7	60	96	50	40
9/15/04 12:08 PM	4.00	18051 (TB7A)	29.5	8.54	9.91	133	365	*	0.55	6.7	< 1	*	0.08	0.02	< 0.04	8	60	68	46	38
9/13/04 10:08 AM	4.00	18052 (TB6R)	29.4	9.2	8.83	116	168	*	0.63	3.55	< 1	*	< 0.02	< 0.02	< 0.04	10	40	44	17	13
9/13/04 12:20 PM	4.00	18053 (TB6LN)	28.8	7.69	6.95	90	155	*	0.78	3	< 1	*	< 0.02	< 0.02	< 0.04	9	30	36	16	14
9/14/04 10:25 AM	4.00	15655 (TB6J)	29	8.5	7.69	99	162	*	0.54	5.71	5	*	< 0.02	0.03	< 0.04	8	30	40	16	14
9/14/04 12:15 PM	4.00	15659 (TB6K)	29.5	8.74	7.97	106	148	*	0.6	4.62	< 1	*	< 0.02	0.03	< 0.04	9	30	36	14	12
9/14/04 11:20 AM	4.00	10402 (TB6H)	28.8	8.35	7.06	93	160	*	0.84	2.96	< 1	18	< 0.02	0.05	< 0.04	8	30	40	16	13
9/13/04 1:04 PM	4.00	18054 (TB6Q)	29.1	8.28	7.89	103	153	*	0.87	2.19	< 1	*	< 0.02	< 0.02	< 0.04	7	30	36	16	14
9/14/04 10:50 AM	4.00	10411 (TB6F)	29.3	7.9	7.05	91	140	*	0.78	3.74	7	23	< 0.02	0.02	< 0.04	7	30	36	15	14
9/14/04 9:45 AM	4.00	10407 (TB6CN)	29.2	7.16	6.17	80	140	*	0.66	4.49	< 1	*	< 0.02	0.04	< 0.04	7	20	36	15	15
9/13/04 2:07 PM	4.00	10404 (TB6A)	29.4	8.22	7.6	99	146	*	1.94	1.42	< 1	11	< 0.02	0.02	< 0.04	6	20	36	16	16
9/15/04 12:45 PM	3.03	10340 (BA4)	27.9	7.44	6.72	85	588	*	0.24	21.7	11	*	0.02	0.34	0.23	12	90	60	22	*
9/15/04 10:40 AM	3.00	10401 (TB6S)	18.1	7.06	8.61	90	162	*	> 1.22	3.64	3	*	< 0.02	< 0.02	< 0.04	7	40	40	16	12
9/15/04 12:15 PM	3.00	10399 (SR5)	27.6	7.26	6.38	80	143	*	0.94	2.39	*	*	< 0.02	0.04	< 0.04	6	30	36	16	16
9/15/04 1:22 PM	3.00	10398 (SR3)	28.7	7.53	7.53	96	151	*	0.62	6.28	7	*	< 0.02	0.03	< 0.04	6	30	36	16	19
9/15/04 9:23 AM	2.05	10465 (BCC1)	24.3	6.77	7.29	87	48	*	0.56	8.7	34	*	< 0.02	0.1	< 0.04	4	10	20	< 10	< 10
9/15/04 8:43 AM	2.00	10397 (SR2)	28.1	7.06	6.58	84	149	*	0.35	12.4	7	*	< 0.02	0.02	< 0.04	6	30	32	15	18

\*: Not sampled on this run

# SABINE RIVER AUTHORITY OF TEXAS

September 2004

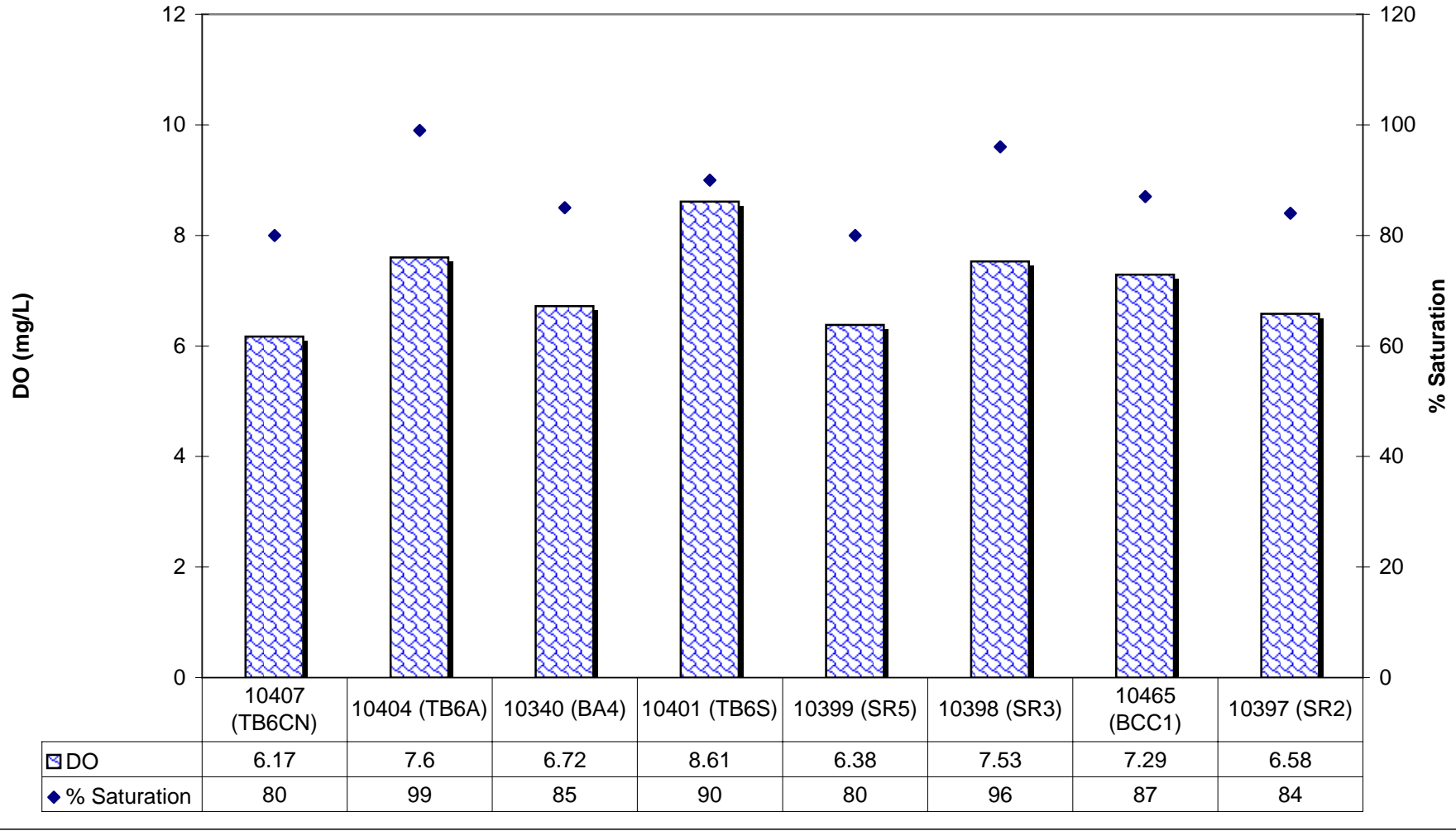
## Lower Sabine Basin DO / % Saturation (1 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

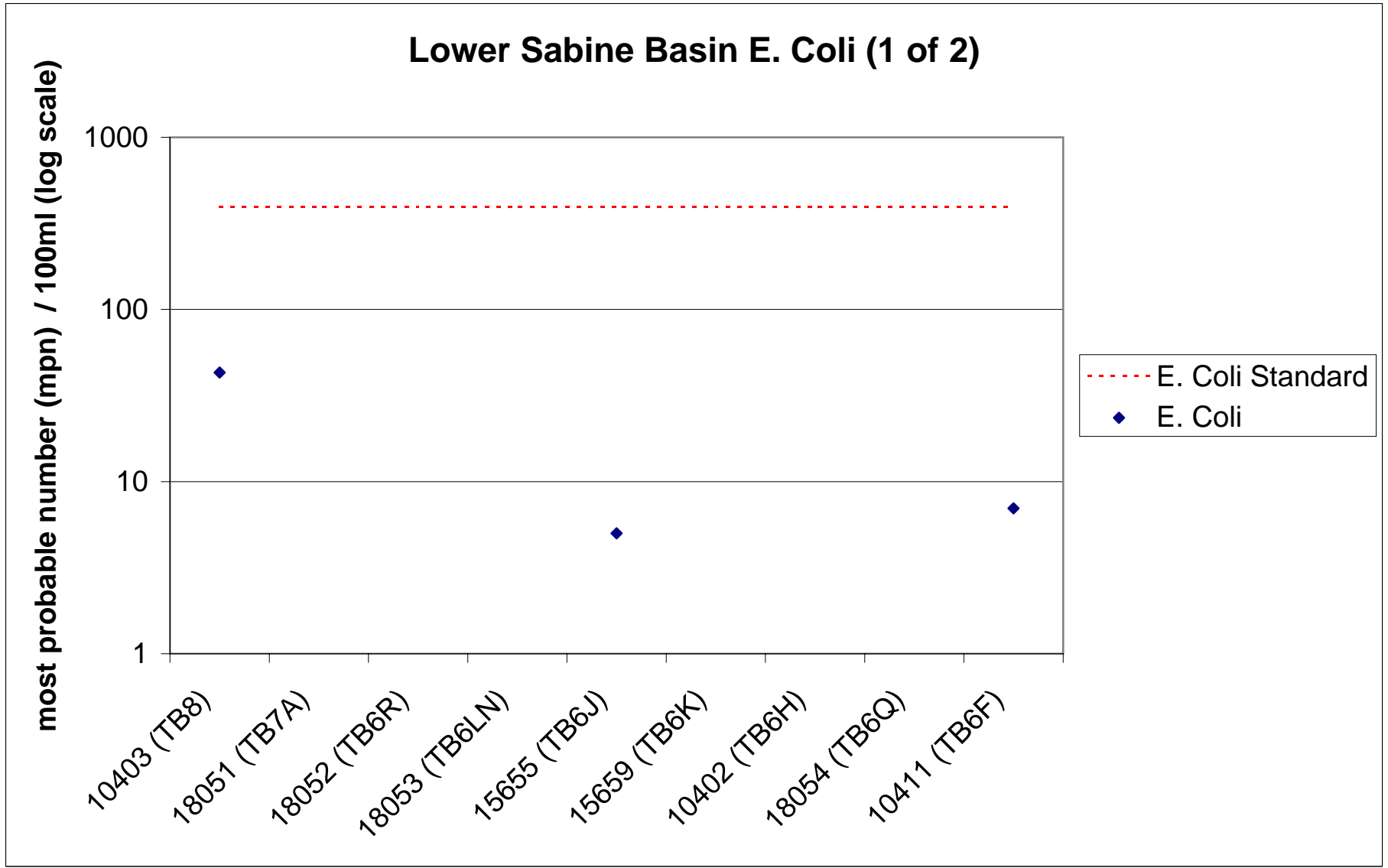
September 2004

Lower Sabine Basin DO / % Saturation (2 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

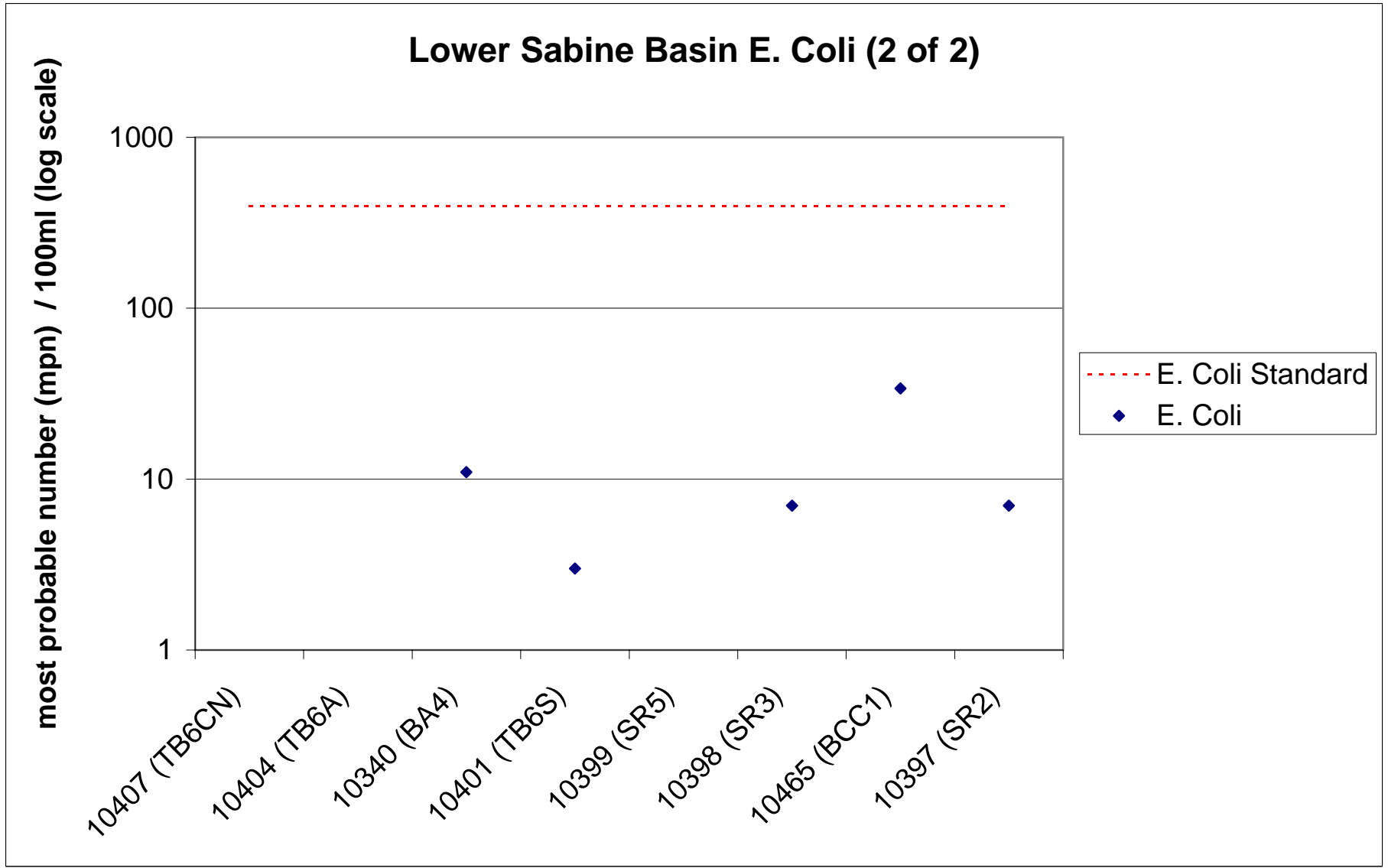
September 2004



Stations without values were below detection limit on this run (see page 18)

# SABINE RIVER AUTHORITY OF TEXAS

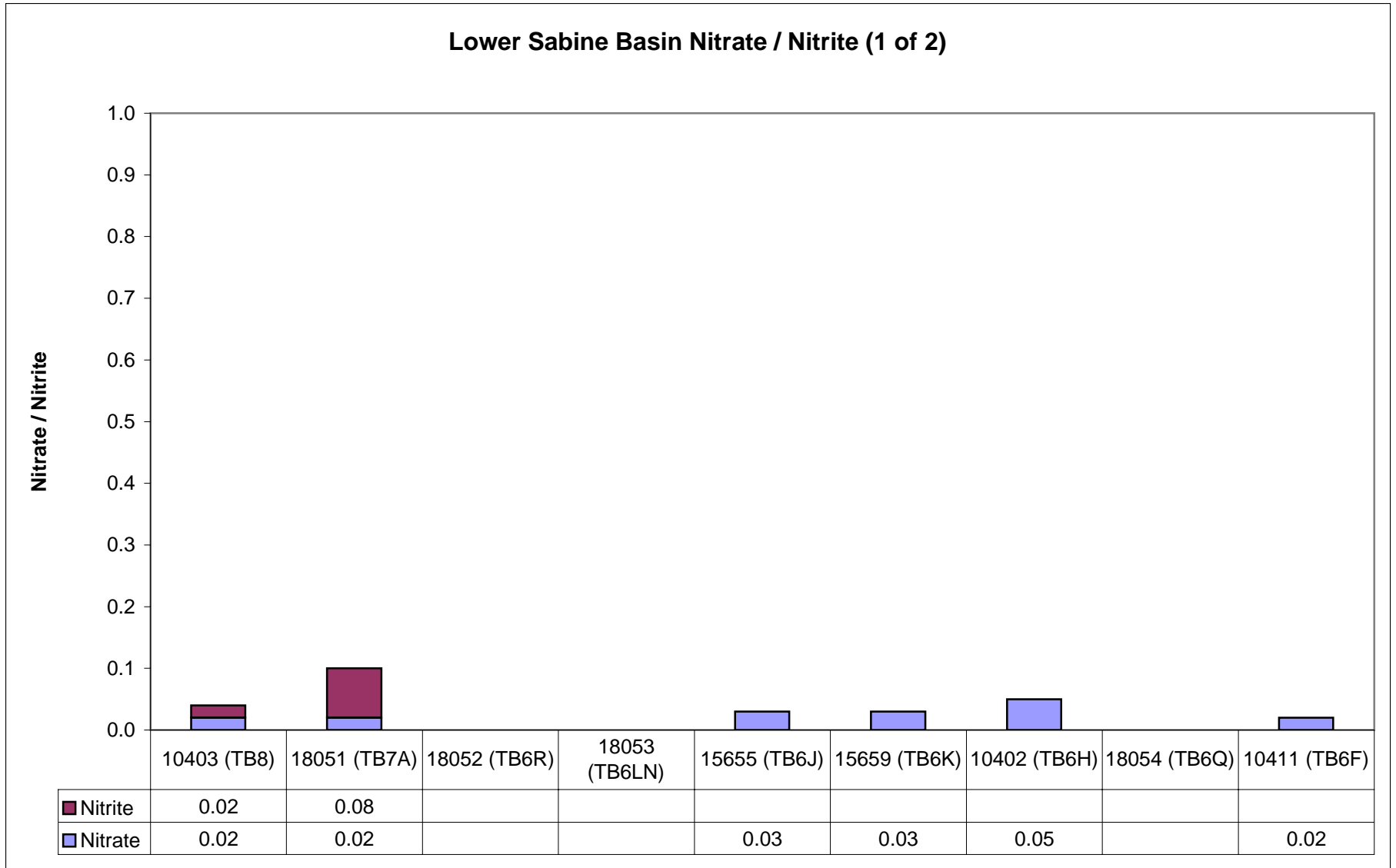
September 2004



Stations without values were below detection limit on this run (see page 18)

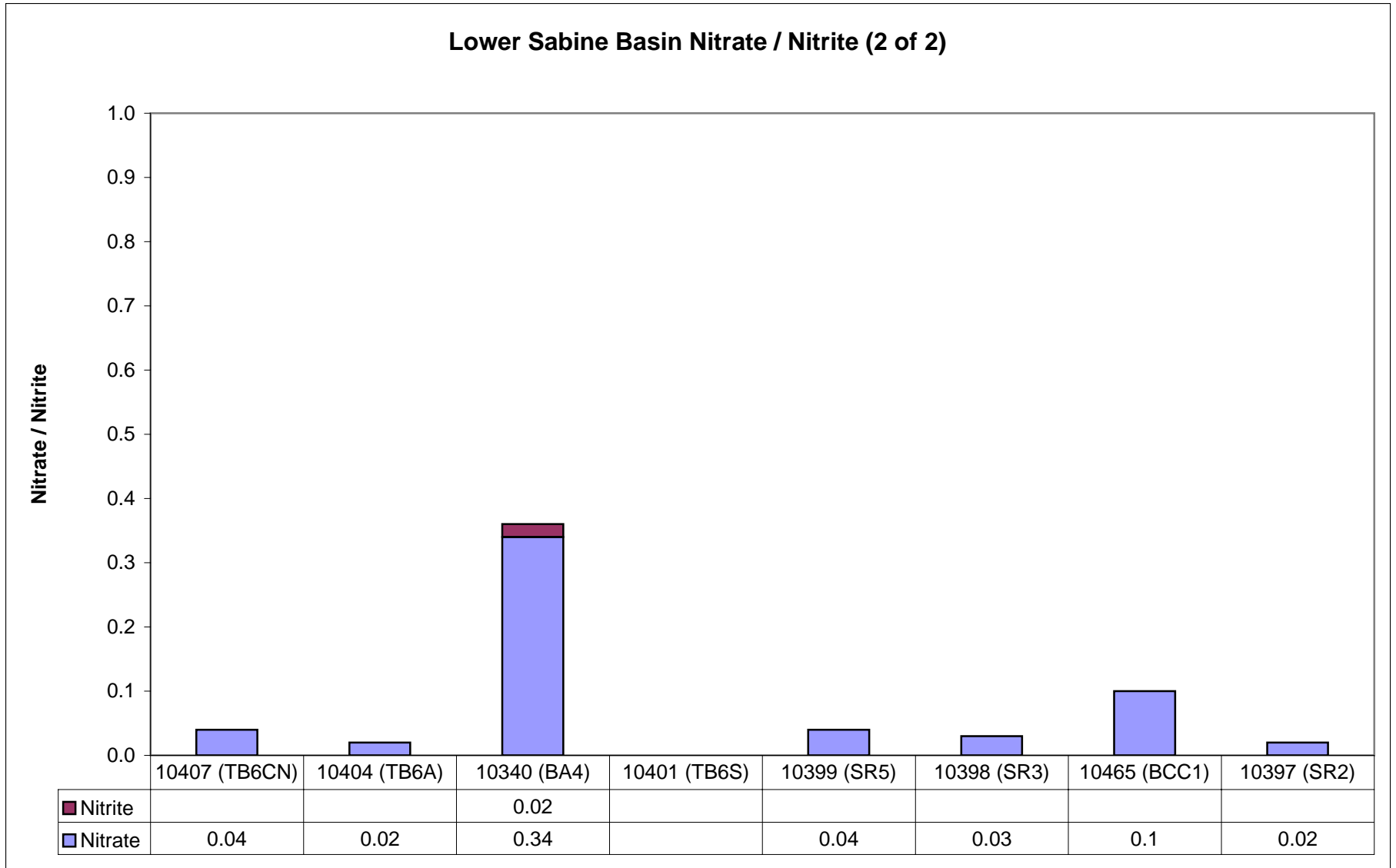
# SABINE RIVER AUTHORITY OF TEXAS

September 2004



# SABINE RIVER AUTHORITY OF TEXAS

September 2004



# SABINE RIVER AUTHORITY OF TEXAS

## Lower Basin Profiles

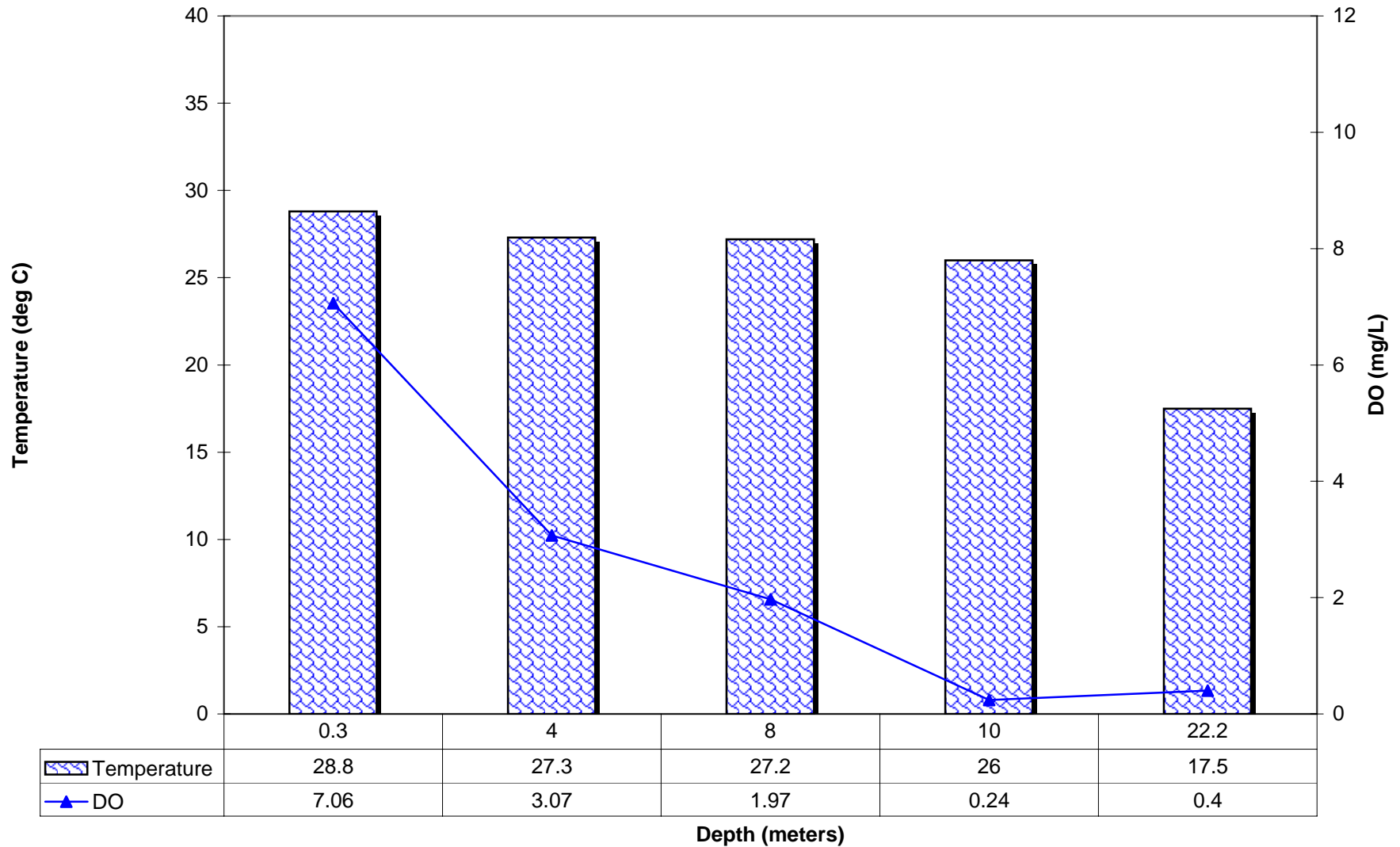
September 2004

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
9/15/04 12:34 PM	4.00	10403 (TB8)	0.3	29.8	8.45	10.5	140	380
			5	28.3	7.09	2.1	27	433
			10	27.8	7.01	0.15	2	452
9/15/04 12:08 PM	4.00	18051 (TB7A)	0.3	29.5	8.54	9.91	133	365
			3	28.4	7.12	2.84	37	376
			8	27.3	6.93	0.12	2	374
9/13/04 10:08 AM	4.00	18052 (TB6R)	0.3	29.4	9.2	8.83	116	168
			2	29	9.03	7.7	99	167
			2.5	28.3	8.29	6.33	83	166
			5	27.4	7.03	1.53	19	167
			9	26.4	7.08	1.45	18	168
			14	22.4	7.32	0.43	5	216
9/13/04 12:20 PM	4.00	18053 (TB6LN)	0.3	28.8	7.69	6.95	90	155
			1.5	27.6	7.56	6.55	83	155
			3.5	27.4	7.09	3.66	46	156
			5.2	27.3	7.05	2.58	32	159
9/14/04 10:25 AM	4.00	15655 (TB6J)	0.3	29	8.5	7.69	99	162
			2	28.9	8.43	7.7	99	162
			3.3	28.8	8.34	7.56	97	163
			3.8	28.4	7.33	4.9	61	163
9/14/04 12:15 PM	4.00	15659 (TB6K)	0.3	29.5	8.74	7.97	106	148
			1	28.8	7.93	6.28	81	147
			2	27.5	6.86	1.35	17	152
			3	27.4	6.83	0.67	7	153
9/14/04 11:20 AM	4.00	10402 (TB6H)	0.3	28.8	8.35	7.06	93	160
			4	27.3	6.96	3.07	39	157
			8	27.2	6.88	1.97	24	155
			10	26	7.03	0.24	3	172
			22.2	17.5	7.06	0.4	4	191
9/13/04 1:04 PM	4.00	18054 (TB6Q)	0.3	29.1	8.28	7.89	103	153
			2.5	27.9	7.77	7.05	92	153
			5.7	27	6.91	1.53	19	150
			8.3	26.7	7.06	0.54	6	171
9/14/04 10:50 AM	4.00	10411 (TB6F)	0.3	29.3	7.9	7.05	91	140
			1.5	29.2	7.73	6.53	81	140
			3.5	28.8	6.97	4.1	54	138
			4.5	27.9	6.79	0.67	8	138
9/14/04 9:45 AM	4.00	10407 (TB6CN)	0.3	29.2	7.16	6.17	80	140
			2	29	6.92	5.39	70	139
			4	28	6.54	1.8	24	138
			6.1	27.6	6.53	0.62	7	138
9/13/04 2:07 PM	4.00	10404 (TB6A)	0.3	29.4	8.22	7.6	99	146
			2	28.6	7.82	7.23	92	146
			4	28.3	7.24	6	77	145
			8.5	26.3	6.71	2	25	142
			10	24	6.91	0.26	3	163
			15	16.9	6.88	0.29	3	164
			27	14.5	6.99	0.42	4	176

# SABINE RIVER AUTHORITY OF TEXAS

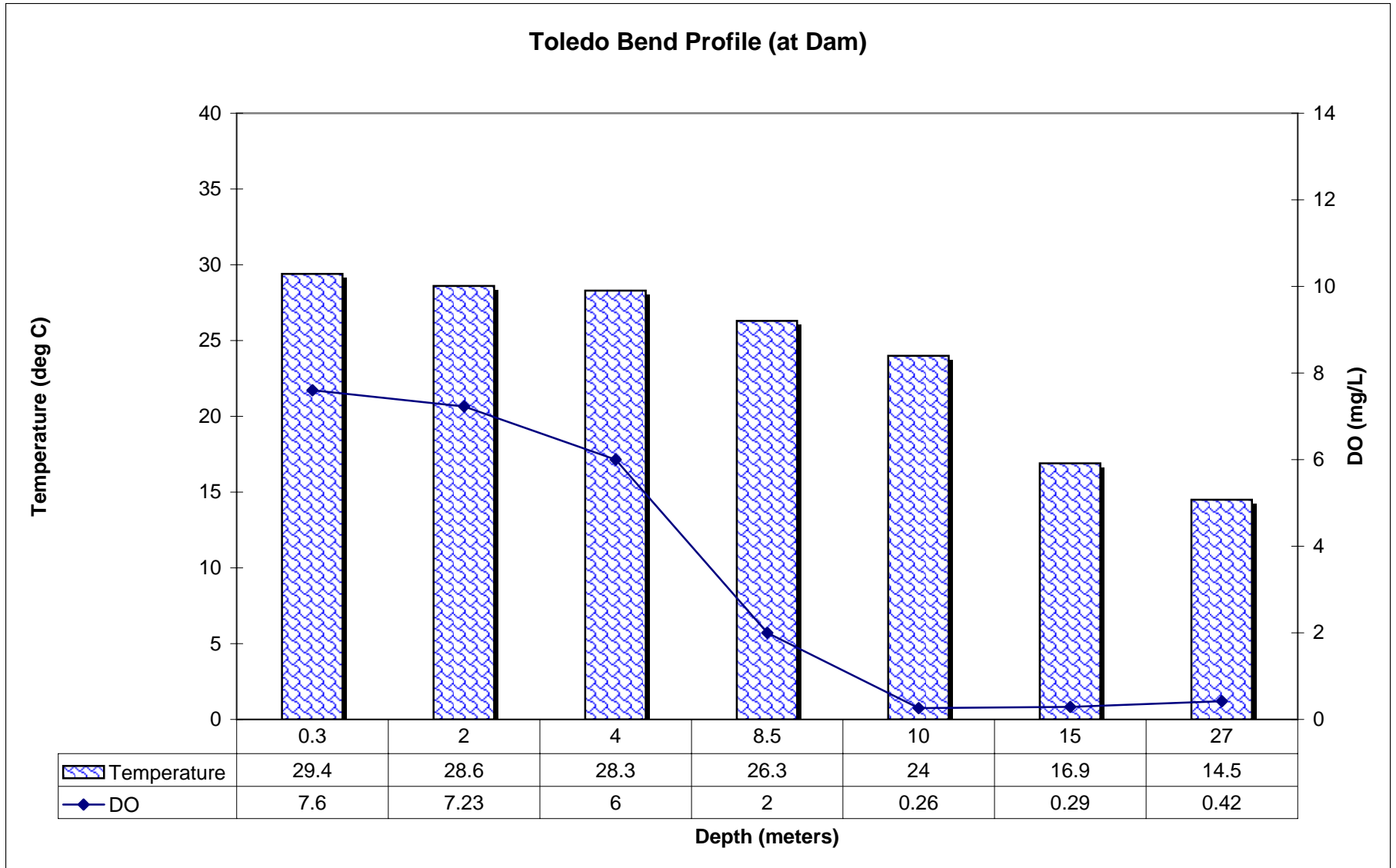
September 2004

## Toledo Bend Profile (at Pendleton Bridge)



# SABINE RIVER AUTHORITY OF TEXAS

September 2004



# SABINE RIVER AUTHORITY OF TEXAS

## Toledo Bend Weather and Reservoir Data

September 2004

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
9/1/2004	169.20	(2.80)	88	63	0.00	0.30	3,848	7,632	204
9/2/2004	169.13	(2.87)	87	66	0.00	0.33	4,341	8,610	204
9/3/2004	169.04	(2.96)	85	69	0.09	0.14	4,363	8,654	204
9/4/2004	169.01	(2.99)	85	71	0.00	0.15	3,753	7,444	204
9/5/2004	168.94	(3.06)	93	73	0.03	0.17	204	204	204
9/6/2004	168.94	(3.06)	92	72	0.00	0.22	204	204	204
9/7/2004	169.06	(2.94)	93	72	0.00	0.31	4,475	8,876	204
9/8/2004	168.97	(3.03)	82	65	0.00	0.23	4,388	8,703	204
9/9/2004	168.80	(3.20)	85	65	0.00	0.33	4,501	8,928	204
9/10/2004	168.71	(3.29)	89	67	0.00	0.26	4,429	8,785	204
9/11/2004	168.63	(3.37)	90	68	0.00	0.28	3,755	7,448	204
9/12/2004	168.58	(3.42)	93	68	0.00	0.30	204	405	204
9/13/2004	168.52	(3.48)	94	68	0.01	0.27	3,355	6,655	204
9/14/2004	168.46	(3.54)	93	69	0.00	0.42	3,243	6,432	204
9/15/2004	168.43	(3.57)	92	69	0.00	0.24	3,219	6,385	204
9/16/2004	168.45	(3.55)	97	70	0.00	0.33	3,233	6,413	204
9/17/2004	168.33	(3.67)	93	74	0.00	0.31	3,316	6,577	204
9/18/2004	168.26	(3.74)	97	72	0.00	0.38	204	405	204
9/19/2004	168.23	(3.77)	97	68	0.00	0.33	204	405	204
9/20/2004	168.16	(3.84)	94	65	0.00	0.38	3,319	6,583	204
9/21/2004	168.14	(3.86)	89	65	0.00	0.36	3,667	7,273	204
9/22/2004	168.07	(3.93)	89	65	0.00	0.38	3,319	6,583	204
9/23/2004	168.02	(3.98)	90	67	0.00	0.31	3,362	6,668	204
9/24/2004	167.98	(4.02)	80	68	1.86	0.03	204	405	204
9/25/2004	168.11	(3.89)	87	70	0.48	0.07	204	405	204
9/26/2004	168.10	(3.90)	84	67	0.00	0.22	174	345	204
9/27/2004	168.09	(3.91)	88	63	0.00	0.22	1,463	2,902	204
9/28/2004	168.01	(3.99)	87	62	0.00	0.28	3,141	6,230	204
9/29/2004	167.98	(4.02)	83	62	0.00	0.25	204	405	204
9/30/2004	167.95	(4.05)	85	63	0.00	0.26	204	405	204
<b>Avg or Tot</b>	168.48	(3.52)	89	68	2.47	8.06	2,483	147,369	

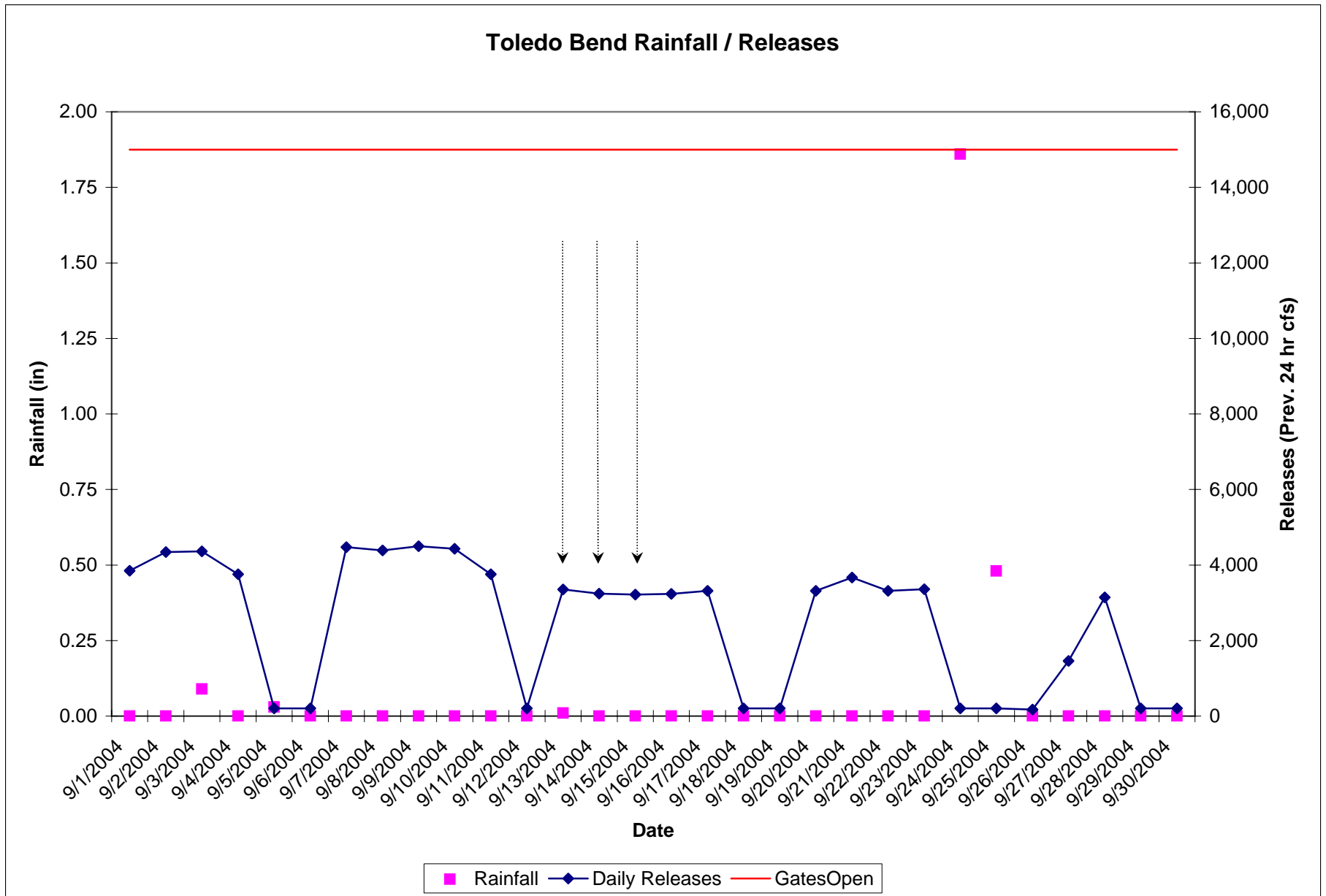
Units	Avg Feet M.S.L.	Avg Feet	Avg Deg. F	Avg Deg. F	Tot Inches	Tot Inches	Avg cfs	Tot Ac. Ft.	cfs
									approx. 8:00 a.m.

TOP: Top of Pool = 172 Feet M.S.L.

Toledo Bend Sampled on 9/13,14,15/2004

# SABINE RIVER AUTHORITY OF TEXAS

September 2004



Toledo Bend sampled on 9/13,14,15/2004

Flood gates open when flow greater than approximately 15,000 cfs

# SABINE RIVER AUTHORITY OF TEXAS

## Burkeville Weather and River Data

September 2004

<b>Date</b>	<i>Rainfall</i>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow</i>
9/1/2004	0.01	18.71	(19.29)	4,320
9/2/2004	0.00	18.03	(19.97)	3,630
9/3/2004	0.02	17.83	(20.17)	3,440
9/4/2004	0.22	17.41	(20.59)	3,050
9/5/2004	0.00	16.56	(21.44)	2,340
9/6/2004	0.00	12.66	(25.34)	241
9/7/2004	0.00	12.44	(25.56)	184
9/8/2004	0.00	18.36	(19.64)	3,960
9/9/2004	0.00	17.83	(20.17)	3,440
9/10/2004	0.00	17.56	(20.44)	3,190
9/11/2004	0.01	17.41	(20.59)	3,050
9/12/2004	0.02	16.65	(21.35)	2,410
9/13/2004	0.00	12.53	(25.47)	206
9/14/2004	0.01	16.67	(21.33)	2,420
9/15/2004	0.01	16.65	(21.35)	2,410
9/16/2004	0.00	16.45	(21.55)	2,320
9/17/2004	0.00	16.37	(21.63)	2,190
9/18/2004	0.00	16.59	(21.41)	2,360
9/19/2004	0.00	12.46	(25.54)	189
9/20/2004	0.00	12.27	(25.73)	146
9/21/2004	0.00	17.68	(20.32)	3,300
9/22/2004	0.00	17.22	(20.78)	2,880
9/23/2004	0.00	16.50	(21.50)	2,290
9/24/2004	1.40	16.74	(21.26)	2,480
9/25/2004	1.16	12.73	(25.27)	260
9/26/2004	0.00	12.46	(25.54)	189
9/27/2004	0.00	12.45	(25.55)	187
9/28/2004	0.00	14.33	(23.67)	890
9/29/2004	0.00	16.37	(21.63)	2,190
9/30/2004	0.00	12.44	(25.56)	184
<b>Avg or Tot</b>	2.86	15.68	(22.32)	2,012

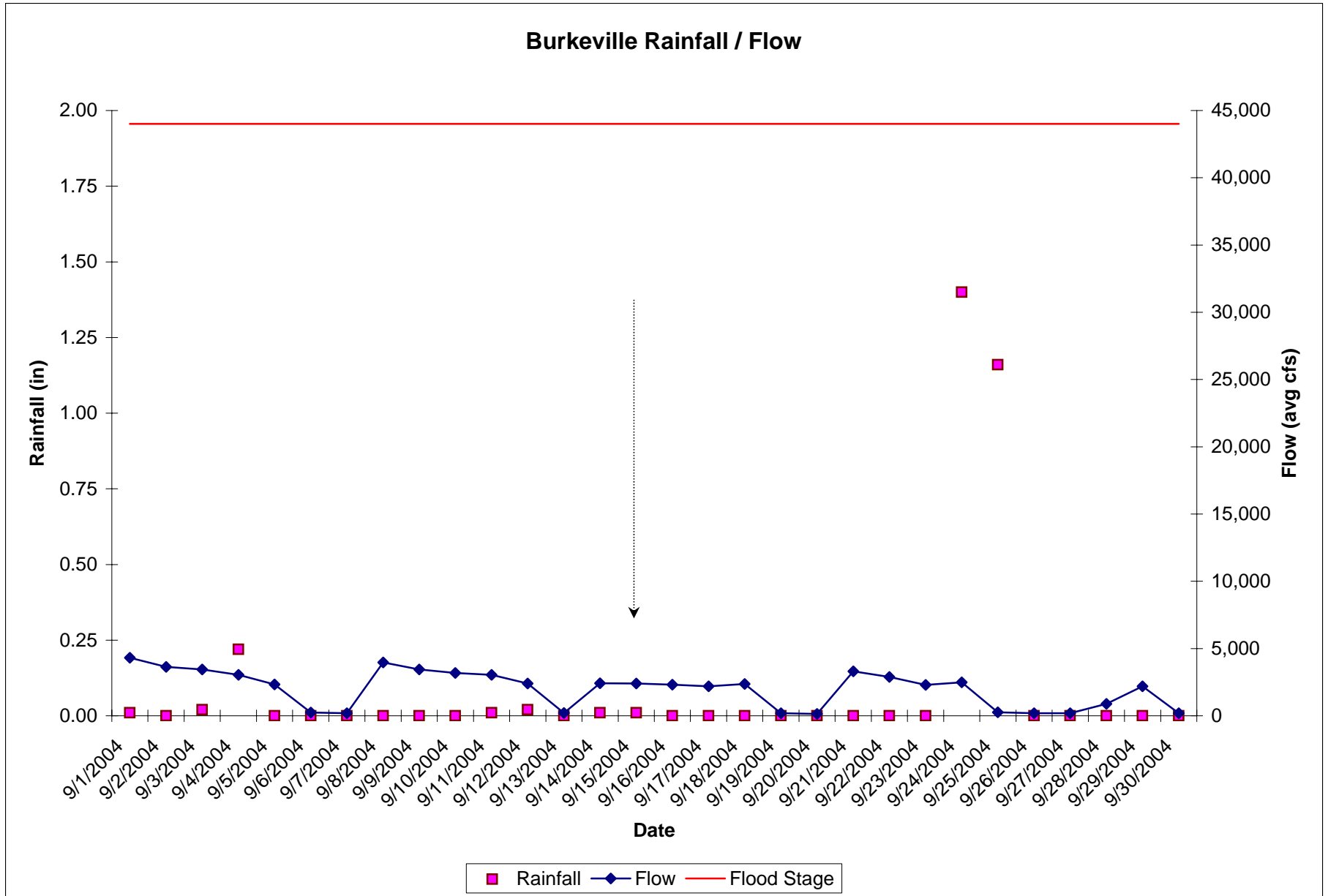
Units	Tot Inches	Avg Feet	Avg Feet	Avg cfs
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FS: Flood Stage = 38 feet

Lower Sabine Basin Sampled on 9/15/2004

# SABINE RIVER AUTHORITY OF TEXAS

September 2004



Flood stage flow of 44,000 cfs calculated from flood stage gage height, 38 ft msl.

# SABINE RIVER AUTHORITY OF TEXAS

## Bon Wier Weather and River Data

September 2004

<b>Date</b>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
9/1/2004	18.47	(11.53)	5,470	0.00
9/2/2004	17.88	(12.12)	4,760	0.00
9/3/2004	17.47	(12.53)	4,300	0.08
9/4/2004	17.47	(12.53)	4,300	0.00
9/5/2004	17.46	(12.54)	4,290	0.40
9/6/2004	16.34	(13.66)	3,150	0.00
9/7/2004	13.86	(16.14)	1,260	0.00
9/8/2004	13.53	(16.47)	1,070	0.00
9/9/2004	17.21	(12.79)	4,020	0.00
9/10/2004	17.38	(12.62)	4,200	0.00
9/11/2004	17.41	(12.59)	4,240	0.00
9/12/2004	17.36	(12.64)	4,180	0.00
9/13/2004	16.25	(13.75)	3,060	0.00
9/14/2004	13.66	(16.34)	1,140	0.00
9/15/2004	16.23	(13.77)	3,040	0.00
9/16/2004	16.22	(13.78)	3,030	0.00
9/17/2004	16.20	(13.80)	3,010	0.00
9/18/2004	16.26	(13.74)	3,070	0.00
9/19/2004	16.07	(13.93)	2,900	0.00
9/20/2004	13.59	(16.41)	1,100	0.00
9/21/2004	13.27	(16.73)	931	0.00
9/22/2004	16.12	(13.88)	2,940	0.00
9/23/2004	16.51	(13.49)	3,310	0.00
9/24/2004	16.57	(13.43)	3,390	1.27
9/25/2004	16.88	(13.12)	3,680	1.43
9/26/2004	15.44	(14.56)	2,350	0.33
9/27/2004	14.07	(15.93)	1,380	0.00
9/28/2004	13.66	(16.34)	1,140	0.00
9/29/2004	14.79	(15.21)	1,850	0.00
9/30/2004	15.95	(14.05)	2,790	0.00
<b>Avg or Tot</b>	15.99	(14.01)	2,978	3.51

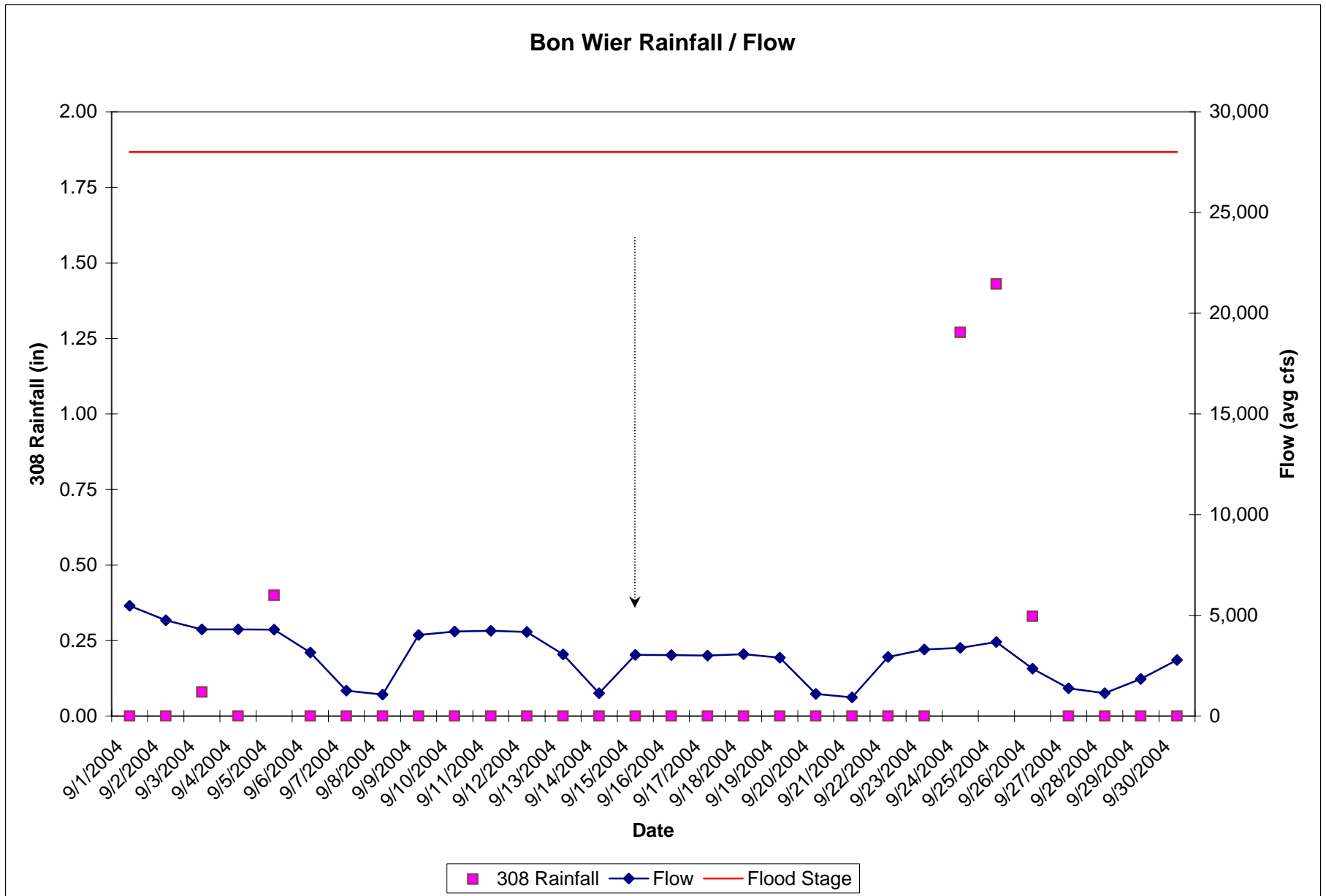
Units	Avg Feet	Avg Feet	Avg	Tot Inches
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FS: Flood Stage = 30 feet

Lower Sabine Basin Sampled on 9/15/2004

# SABINE RIVER AUTHORITY OF TEXAS

September 2004



Lower Sabine Basin sampled on 9/15/2004

Flood stage flow of 28,000 cfs calculated from flood stage gage height, 30 ft msl.

# SABINE RIVER AUTHORITY OF TEXAS

## Ruliff Weather and River Data

September 2004

<b>Date</b>	<b>Gauge Height</b>	<b>GH - FS</b>	<b>Flow cfs</b>	<b>Flow acft</b>	<b>Flow avg</b>	<b>309 Rainfall</b>
9/1/2004	20.86	(3.14)	5,760	11,425	5,760	0.00
9/2/2004	20.60	(3.40)	5,420	10,750	5,590	0.00
9/3/2004	21.05	(2.95)	6,010	11,921	5,730	0.00
9/4/2004	21.02	(2.98)	5,970	11,841	5,790	0.02
9/5/2004	20.85	(3.15)	5,740	11,385	5,780	0.06
9/6/2004	20.76	(3.24)	5,630	11,167	5,755	0.00
9/7/2004	20.46	(3.54)	5,240	10,393	5,681	0.00
9/8/2004	18.82	(5.18)	3,470	6,883	5,405	0.00
9/9/2004	16.72	(7.28)	2,170	4,304	5,046	0.00
9/10/2004	19.14	(4.86)	3,730	7,398	4,914	0.00
9/11/2004	20.13	(3.87)	4,780	9,481	4,902	0.00
9/12/2004	20.44	(3.56)	5,210	10,334	4,928	0.00
9/13/2004	20.51	(3.49)	5,310	10,532	4,957	0.00
9/14/2004	20.28	(3.72)	4,980	9,878	4,959	0.00
9/15/2004	18.41	(5.59)	3,190	6,327	4,841	0.42
9/16/2004	18.62	(5.38)	3,330	6,605	4,746	0.00
9/17/2004	19.29	(4.71)	3,880	7,696	4,695	0.00
9/18/2004	19.43	(4.57)	4,010	7,954	4,657	0.00
9/19/2004	19.47	(4.53)	4,050	8,033	4,625	0.00
9/20/2004	19.43	(4.57)	4,010	7,954	4,595	0.00
9/21/2004	17.95	(6.05)	2,890	5,732	4,513	0.00
9/22/2004	15.72	(8.28)	1,700	3,372	4,386	0.00
9/23/2004	17.98	(6.02)	2,910	5,771	4,321	0.00
9/24/2004	19.34	(4.66)	3,920	7,775	4,304	1.21
9/25/2004	19.65	(4.35)	4,230	8,390	4,302	0.00
9/26/2004	19.90	(4.10)	4,490	8,906	4,309	0.00
9/27/2004	19.47	(4.53)	4,050	8,033	4,299	0.00
9/28/2004	18.85	(5.15)	3,490	6,922	4,270	0.00
9/29/2004	18.00	(6.00)	2,920	5,792	4,224	0.00
9/30/2004	17.62	(6.38)	2,690	5,336	4,173	0.00
<b>Avg or Tot</b>	19.36	(4.64)	4,173	248,290		1.71

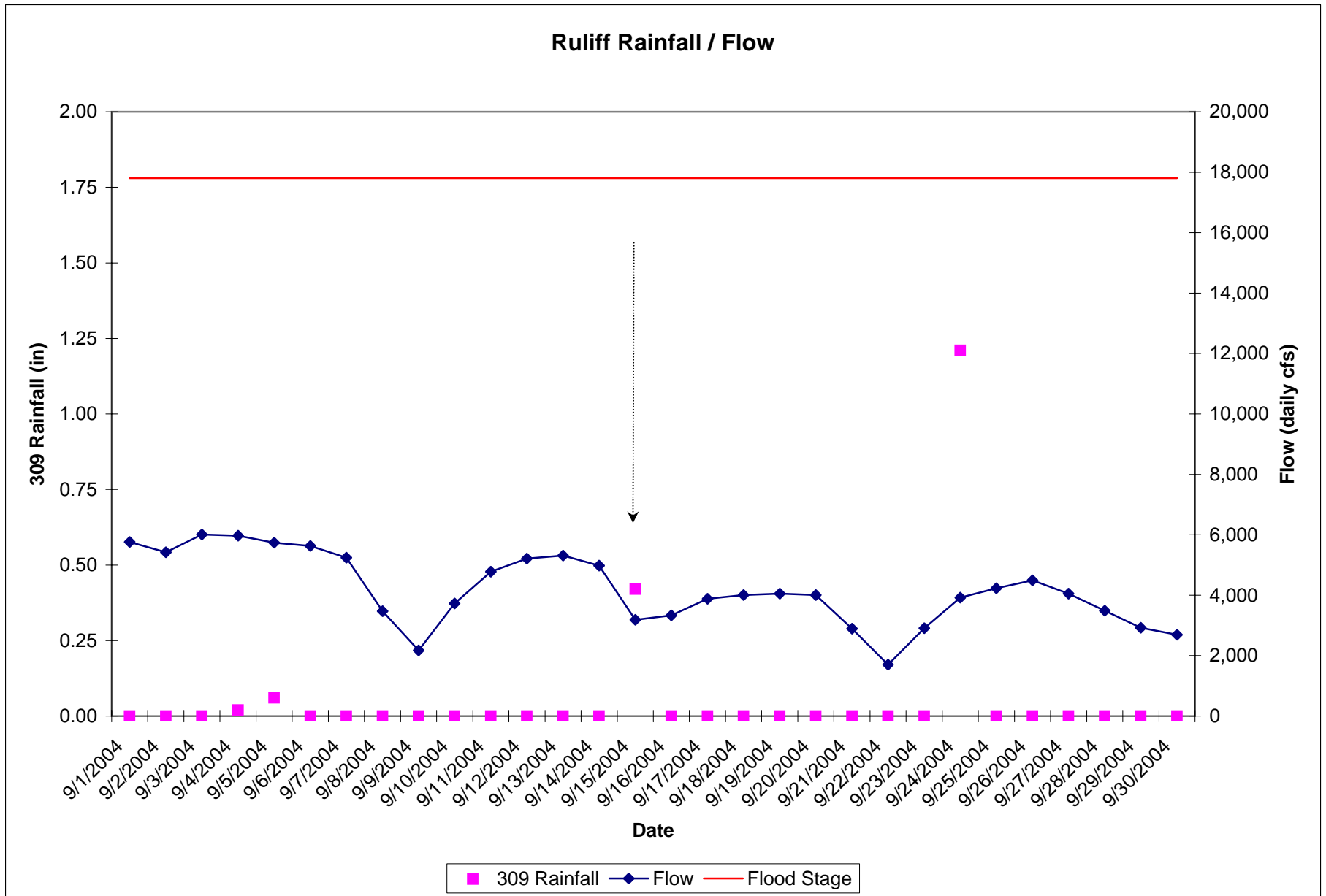
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
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FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 9/15/2004

# SABINE RIVER AUTHORITY OF TEXAS

September 2004



Lower Sabine Basin sampled on 9/15/2004

Flood stage flow of 17,800 cfs calculated from flood stage gage height, 24 ft msl.

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## FY 2005 Fixed Monitoring Stations

### Tidal Sabine Basin

SW	Segment	Station	Location
1.05	0501	15653 (ICW1)	INTERCOASTAL WATERWAY AT PERRY RIDGE
1.01	0501	15654 (BB1)	BLACK BAYOU IN CAMERON PARISH
1.00	0501	10395 (SR1)	SABINE RIVER 12.00 KM UPSTREAM OF IH 10
1.00	0501	10394 (SRT2)	SABINE RIVER AT IH 10
1.00	0501	18056 (SRT1C)	OLD HWY 90
1.00	0501	18055 (SRT1B)	SABINE RIVER AT CHANNEL LIGHT 20
1.00	0501	10393 (SRT1A)	SABINE RIVER AT CHANNEL LIGHT 13
1.00	0501	10391 (SRT1)	SABINE RIVER AT CHANNEL CAN 3

**SABINE RIVER AUTHORITY OF TEXAS**

Tidal Report  
September 2004

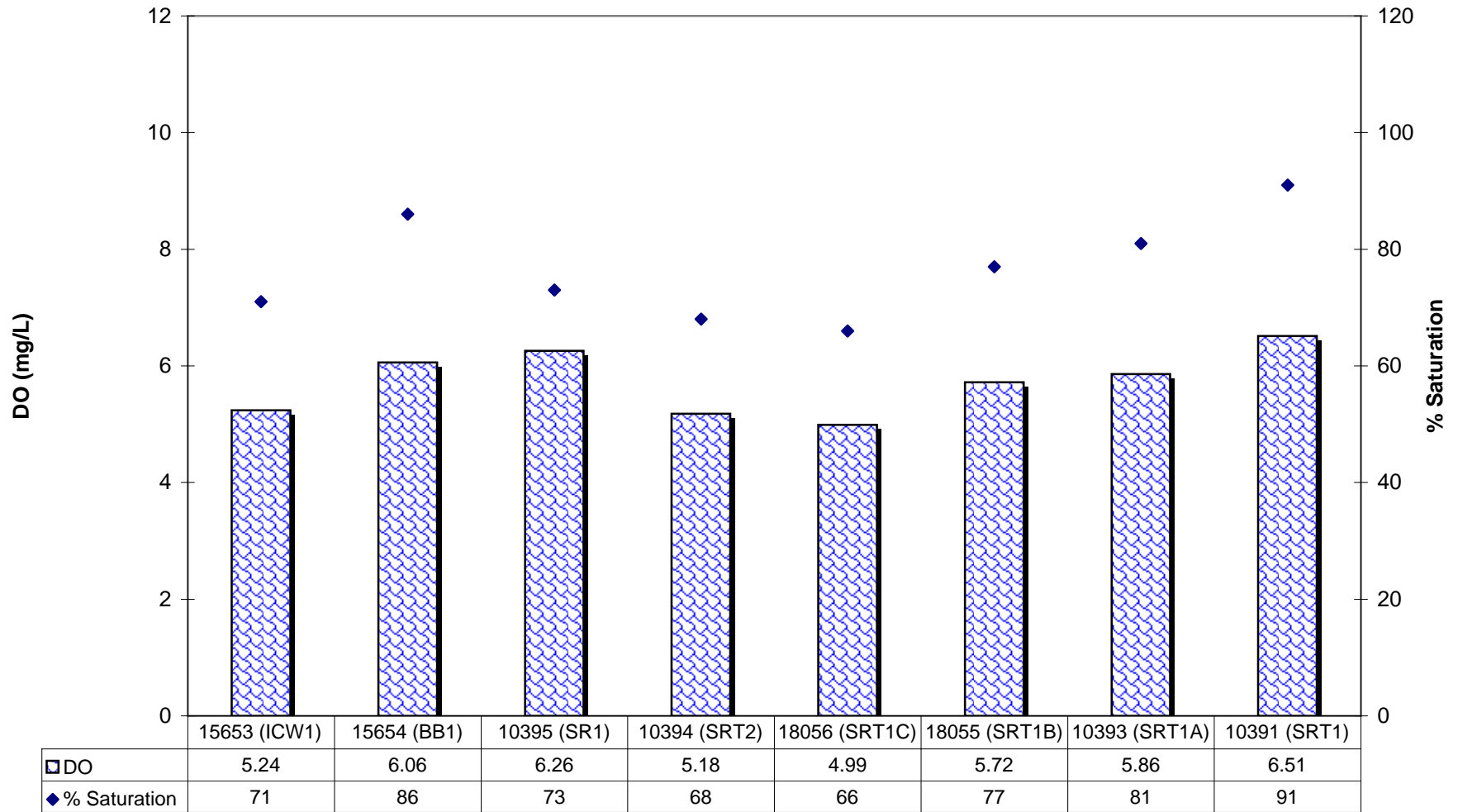
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	<i>Enterococcus</i> mpn/100ml 31701	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900
9/16/04 10:13 AM	1.05	15653 (ICW1)	28.8	7.14	5.24	71	10400	6	1	3.66	60	248	*	< 0.02	0.05	< 0.04	2	50	1160
9/16/04 11:00 AM	1.01	15654 (BB1)	29.3	7.7	6.06	86	17070	10	0.66	4.58	73	517	*	< 0.02	< 0.02	< 0.04	1	60	1970
9/16/04 9:15 AM	1.00	10395 (SR1)	28.7	7.26	6.26	73	149	*	0.48	8.84	12	*	*	< 0.02	0.02	0.04	6	30	36
9/16/04 9:40 AM	1.00	10394 (SRT2)	28.6	6.94	5.18	68	2340	1	0.7	6.3	14	138	*	< 0.02	0.04	< 0.04	5	30	240
9/16/04 9:55 AM	1.00	18056 (SRT1C)	28.5	7.1	4.99	66	4560	2	0.69	5.05	206	276	*	< 0.02	0.06	< 0.04	4	30	468
9/16/04 10:27 AM	1.00	18055 (SRT1B)	28.7	7.34	5.72	77	8360	5	*	3.92	81	71	*	< 0.02	0.08	< 0.04	3	40	912
9/16/04 10:40 AM	1.00	10393 (SRT1A)	29.1	7.67	5.86	81	15310	9	0.84	5.02	46	196	*	< 0.02	< 0.02	< 0.04	1	70	2190
9/16/04 11:10 AM	1.00	10391 (SRT1)	29.1	7.71	6.51	91	14290	8	0.84	4.48	87	143	*	< 0.02	< 0.02	< 0.04	2	60	1650

\*: Not sampled on this run

# SABINE RIVER AUTHORITY OF TEXAS

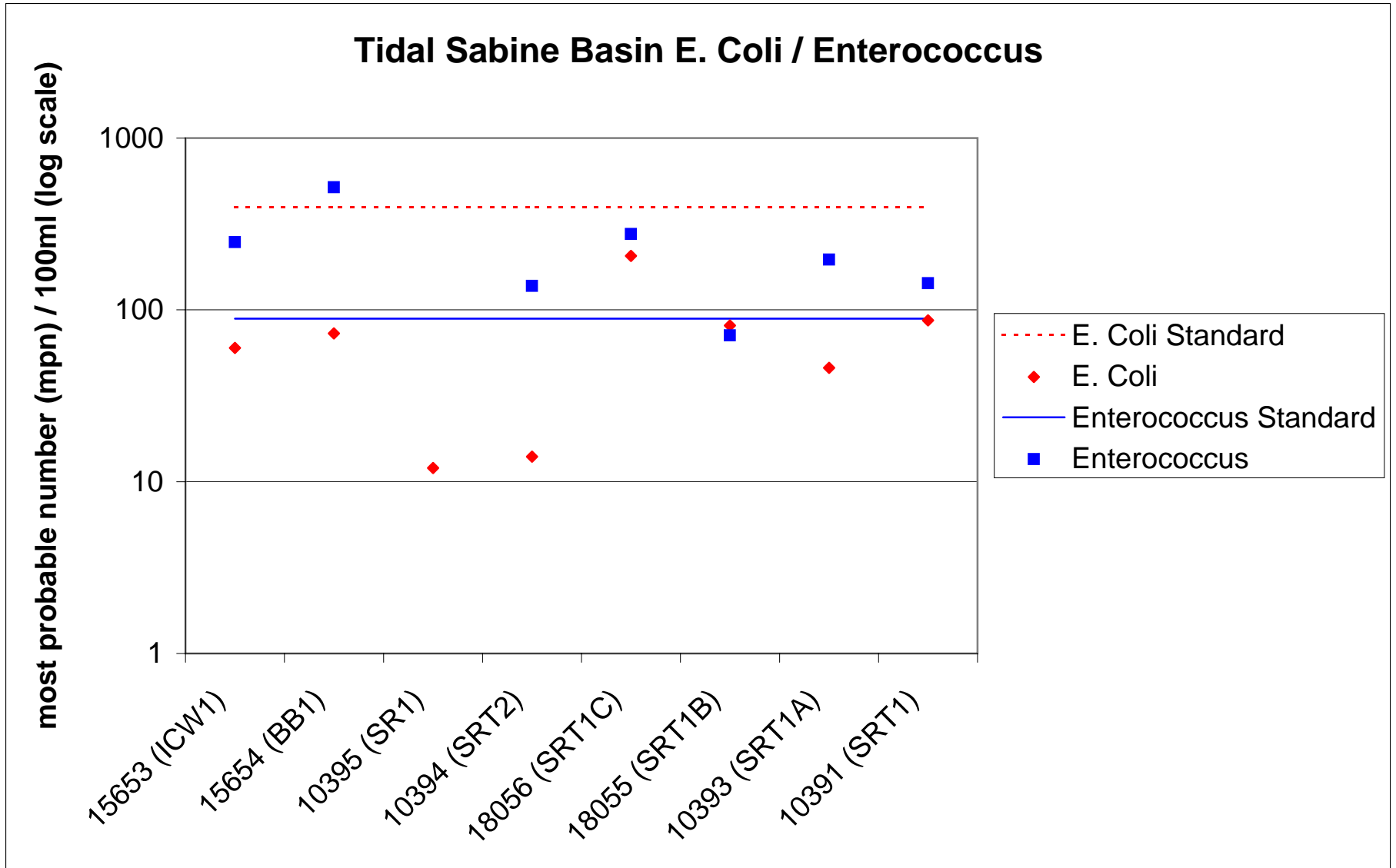
September 2004

## Tidal Sabine Basin DO / % Saturation



# SABINE RIVER AUTHORITY OF TEXAS

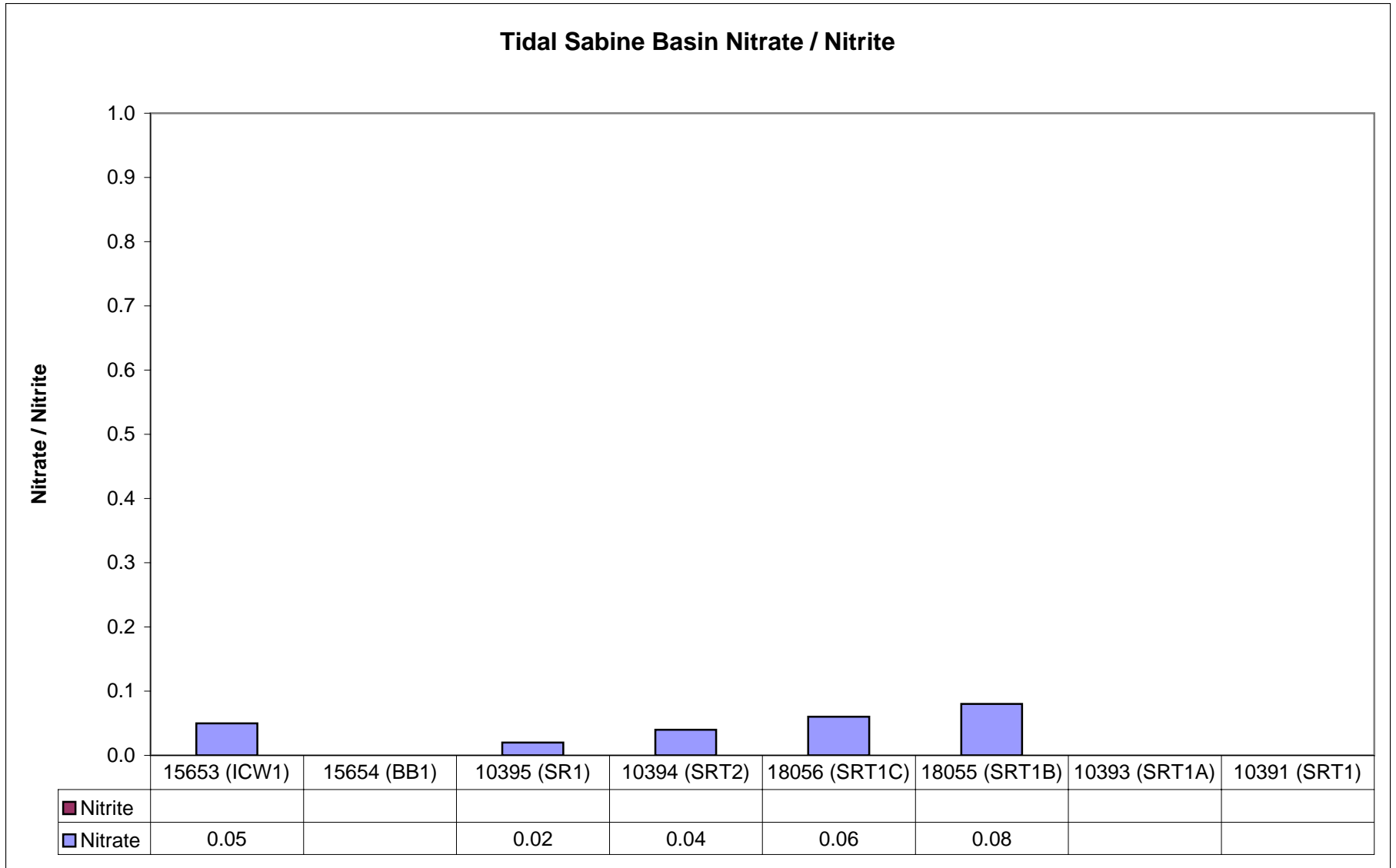
September 2004



Stations without values were not sampled on this run (see page 38).

# SABINE RIVER AUTHORITY OF TEXAS

September 2004



Stations without values below detection limit (< 0.02 mg/L) on this run (see page 38)

# SABINE RIVER AUTHORITY OF TEXAS

## Tidal Profiles

September 2004

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity	Salinity
				°C 00010	Units 00400	mg/L 00300	Saturation 00301	µS/cm 00094	ppt 00480
9/16/04 10:13 AM	1.05	15653 (ICW1)	0.3	28.8	7.14	5.24	71	10400	6
			3	29.3	7.44	4.92	69	16580	10
			6.1	29.4	7.59	4.22	60	22960	14
9/16/04 11:00 AM	1.01	15654 (BB1)	0.3	29.3	7.7	6.06	86	17070	10
			2.5	29.3	7.7	6.02	85	17300	10
			4.5	29.3	7.69	5.79	84	17700	10
9/16/04 9:40 AM	1.00	10394 (SRT2)	0.3	28.6	6.94	5.18	68	2340	1
			2.5	28.7	7.04	4.8	63	2960	2
			5	29.3	7.07	2.18	31	21150	13
			7.6	29.4	7.13	2.4	34	22810	14
9/16/04 9:55 AM	1.00	18056 (SRT1C)	0.3	28.5	7.1	4.99	66	4560	2
			3	29.4	7.3	3.12	45	21220	12
			7	29.5	7.5	3.54	51	24680	15
			11.3	29.4	7.68	4.4	64	27060	16
9/16/04 10:27 AM	1.00	18055 (SRT1B)	0.3	28.7	7.34	5.72	77	8360	5
			2.5	29.3	7.61	5.09	69	16150	9
			5	29.4	7.79	4.83	72	27720	17
			11	29.4	7.77	4.65	69	28700	18
9/16/04 10:40 AM	1.00	10393 (SRT1A)	0.3	29.1	7.67	5.86	81	15310	9
			2	29.3	7.74	5.5	79	19640	11
			4	29.4	7.76	5.34	77	21180	12
			7.5	29.4	7.81	4.76	69	28620	18
9/16/04 11:10 AM	1.00	10391 (SRT1)	0.3	29.1	7.71	6.51	91	14290	8
			2.5	28.9	7.59	5.76	81	18290	11
			5	29.3	7.8	5.41	79	24460	15
			10.6	29.4	7.84	4.88	74	32320	20

# SABINE RIVER AUTHORITY OF TEXAS

Orange Weather and River Data

September 2004

<b>Date</b>	<b>310 (Orange) Rainfall</b>	<b>Gauge Height</b>	<b>GH - FS</b>	<b>Max Temp</b>	<b>Min Temp</b>	<b>Cur Temp</b>	<b>293 (GCD) Rainfall</b>
9/1/2004	OUT	OUT	OUT	88	65	68	0.00
9/2/2004	OUT	OUT	OUT	89	64	70	0.00
9/3/2004	OUT	OUT	OUT	87	68	73	0.00
9/4/2004	OUT	OUT	OUT	80	71	72	0.08
9/5/2004	OUT	OUT	OUT	90	72	73	1.20
9/6/2004	OUT	OUT	OUT	91	72	74	0.01
9/7/2004	OUT	OUT	OUT	94	74	75	0.00
9/8/2004	OUT	OUT	OUT	85	63	70	0.00
9/9/2004	OUT	OUT	OUT	88	64	64	0.00
9/10/2004	OUT	OUT	OUT	91	63	68	0.00
9/11/2004	OUT	OUT	OUT	93	67	69	0.00
9/12/2004	OUT	OUT	OUT	94	65	68	0.00
9/13/2004	OUT	OUT	OUT	92	67	72	0.00
9/14/2004	OUT	OUT	OUT	92	64	74	0.00
9/15/2004	OUT	OUT	OUT	90	72	72	0.42
9/16/2004	OUT	OUT	OUT	94	71	73	0.00
9/17/2004	OUT	OUT	OUT	96	69	69	0.00
9/18/2004	OUT	OUT	OUT	98	68	73	0.00
9/19/2004	OUT	OUT	OUT	96	65	66	0.00
9/20/2004	OUT	OUT	OUT	93	61	61	0.00
9/21/2004	OUT	OUT	OUT	89	61	73	0.00
9/22/2004	OUT	OUT	OUT	89	67	67	0.00
9/23/2004	OUT	OUT	OUT	88	67	69	0.00
9/24/2004	OUT	OUT	OUT	85	69	74	0.85
9/25/2004	OUT	OUT	OUT	85	71	72	0.15
9/26/2004	OUT	OUT	OUT	86	69	69	0.00
9/27/2004	OUT	OUT	OUT	87	64	64	0.00
9/28/2004	OUT	OUT	OUT	87	63	64	0.00
9/29/2004	OUT	OUT	OUT	84	60	60	0.00
9/30/2004	OUT	OUT	OUT	85	58	58	0.00
<b>Avg or Tot</b>	OUT	OUT	OUT	90	66	69	2.71

Units	Tot Inches	Avg Feet	Avg Feet	Avg Deg F	Avg Deg F	Avg Deg F	Tot Inches
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Appx. 8 am

310 Rainfall: Old Navy Base, City of Orange

293: SRA Gulf Coast Division Office, Northern Orange County

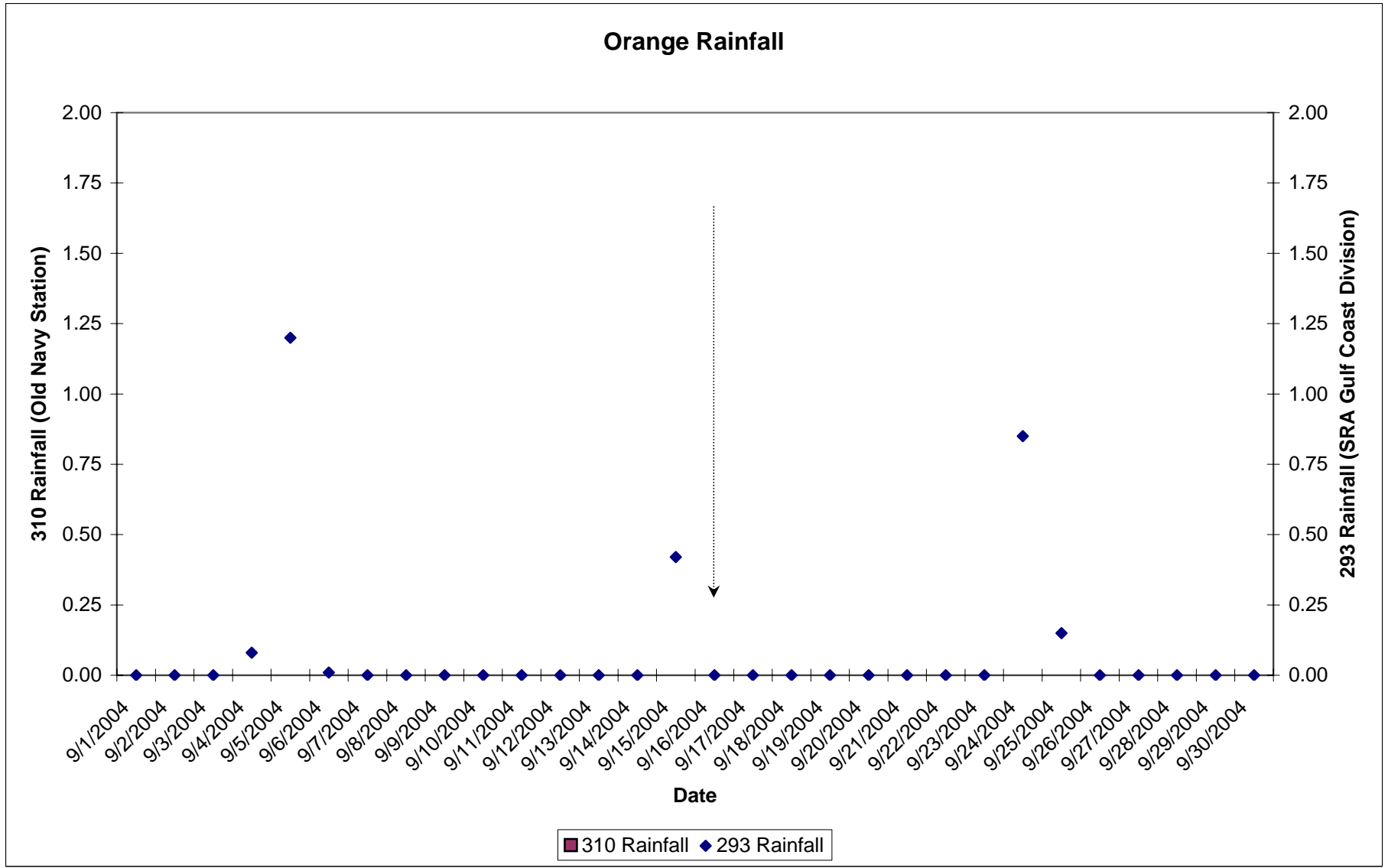
FS: Flood Stage = 4 Feet

OUT: Gage Out

Tidal Sabine Basin Sampled on 9/16/2004

# SABINE RIVER AUTHORITY OF TEXAS

September 2004



Tidal Sabine Basin Sampled on 9/16/2004