
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Report for April 2004. Water quality sampling was performed April 5th through April 8th. Recent weather (previous seven days) in the Sabine River Basin was cool, with daytime high air temperatures from the upper 60s to the low 80s at Lake Tawakoni and at Lake Fork. Toledo Bend Reservoir and Orange had daytime highs from the mid 50s to the low 80s. Lows ranged from the mid 40s to the mid 50s at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the low 40s to the upper 50s. Lake Tawakoni and Lake Fork exhibited thermal stratification at the deeper sampling sites. During the 28 days prior to the April sample run, the Upper Basin received 2.67 and 1.34 inches of rainfall as recorded at Lake Tawakoni and Lake Fork, respectively. Lake Tawakoni and Lake Fork recorded no rainfall the week prior to the sample run. Toledo Bend and Orange received 1.48 and 3.58 inches, respectively, during the 28 days preceding the sample run.

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

For the April sample run, most water quality parameter measurements at Upper Basin sites were consistent with water of high quality. The LT23A nitrate was above nutrient screening levels and SR10 had a high level of dissolved oxygen with greater than 100 percent dissolved oxygen saturation, indicating algal activity. SR16 exceeded the stream standards numeric criteria for *E. coli*.

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

The April monthly sampling results were indicative of water of high quality at most sites. The last significant rainfall the Toledo Bend area received was over seven days prior to the sample run with only sporadic thundershowers during the week of sampling. The level of Toledo Bend Reservoir was recorded at 169.93 feet with no discharge from the spillway or generators while sampling. The reservoir was thermally stratified at all sampling stations with pH and dissolved oxygen differences throughout the water column. A bacterial result above the stream standard was recorded at station BCC1, but this area also received one of the scattered thunderstorms just prior to sampling.

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 close to an inch of rain the day prior to the sampling event. Most sites in this section of the Basin showed signs of stratification, but no anoxic conditions were found at any tidal station. Surface salinity values were recorded only at the two most southern sample sites. The highest salinity value was 8 ppt recorded at station SRT1B at a depth of 10.4 meters. All parameters recorded were within the stream standards for this section of the Basin.

This Report and additional data for these monitoring stations are available on our World Wide Web site (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

April 2004

Table of Contents

Upper Sabine Basin

FY2004 Fixed Monitoring Stations.....	1
Surface Report.....	2
Profile Report	9
<i>Lake Tawakoni (near the dam)</i>	10
<i>Lake Fork (near the dam)</i>	11
Weather, River, and Reservoir Data.....	12
<i>Lake Tawakoni</i>	12
<i>Lake Fork</i>	14

Lower Sabine Basin

FY2004 Fixed Monitoring Stations.....	17
Surface Report.....	18
Profile Report	25
<i>Toledo Bend (at Pendleton Bridge)</i>	26
<i>Toledo Bend (above the dam)</i>	27
Weather, River, and Reservoir Data.....	28
<i>Toledo Bend</i>	28
<i>Burkeville</i>	30
<i>Bon Wier</i>	32
<i>Ruliff</i>	34

Tidal Sabine Basin

FY2004 Fixed Monitoring Stations.....	37
Surface Report.....	38
Profile Report	42
Weather, River, and Reservoir Data.....	43
<i>Orange</i>	43

Appendix

FY2004 Fixed Monitoring Station Maps	
Upper Basin	45
Lower Basin	46

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FY 2004 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

April 2004

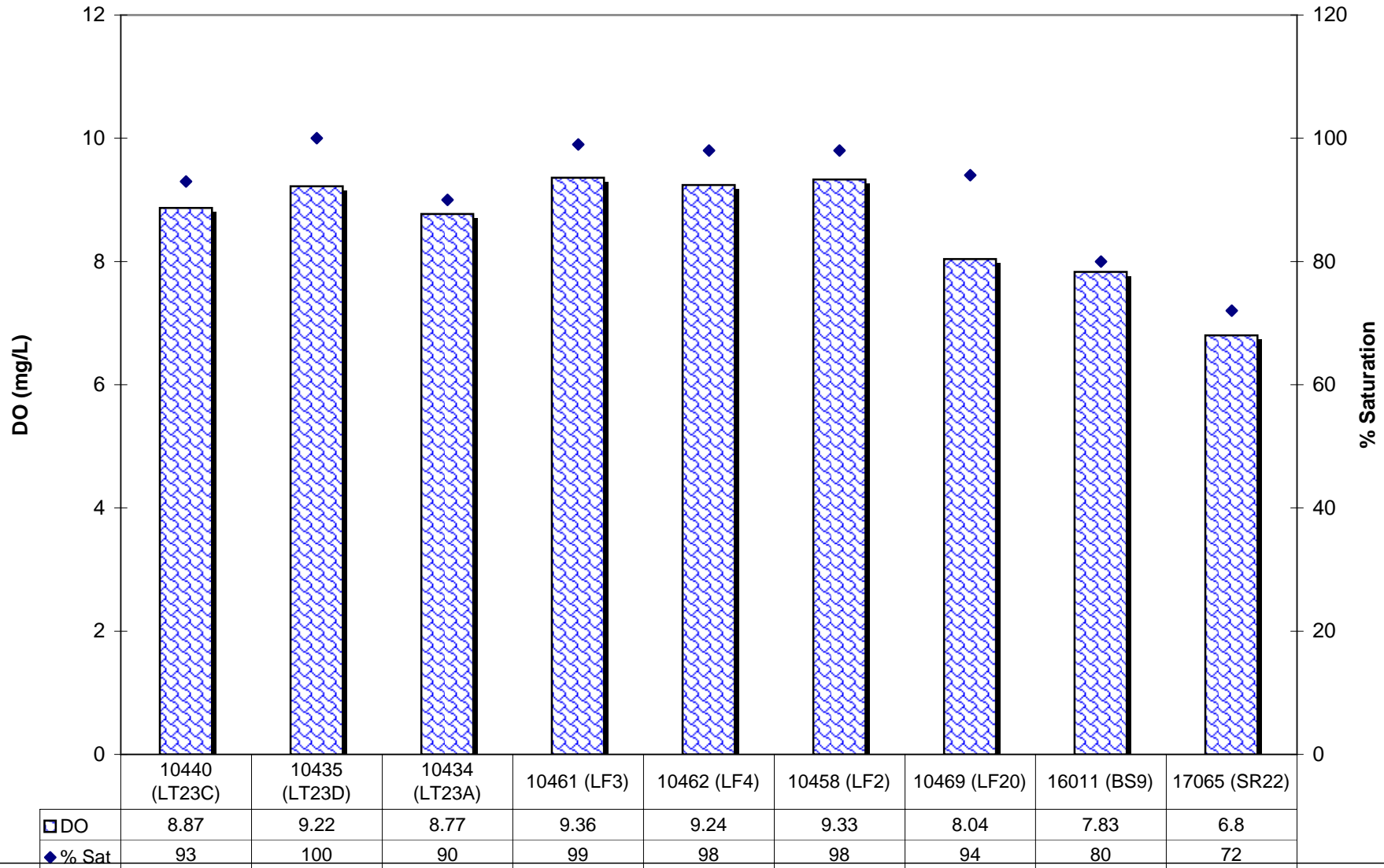
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
4/6/04 11:04 AM	7.00	10440 (LT23C)	16.9	8	8.87	93	190	*	0.48	20.1	< 1	*	< 0.02	0.13	< 0.04	5	*	*	< 10	< 10
4/6/04 10:15 AM	7.00	10435 (LT23D)	18.4	8.42	9.22	100	195	*	0.61	10.4	1	*	< 0.02	0.06	< 0.04	6	*	*	< 10	11
4/6/04 9:20 AM	7.00	10434 (LT23A)	16	7.86	8.77	90	189	*	1.22	4.16	1	*	< 0.02	0.34	< 0.04	5	*	*	< 10	< 10
4/6/04 8:10 AM	6.12	10461 (LF3)	17.3	7.6	9.36	99	168	*	1.26	2.98	< 1	*	< 0.02	< 0.02	< 0.04	6	*	*	16.4	22.4
4/6/04 8:32 AM	6.12	10462 (LF4)	17.1	7.58	9.24	98	160	*	1.64	2.24	< 1	*	< 0.02	< 0.02	< 0.04	5	*	*	14.7	21.2
4/6/04 7:35 AM	6.12	10458 (LF2)	16.8	7.55	9.33	98	163	*	1.88	1.79	< 1	*	< 0.02	< 0.02	< 0.04	6	*	*	15	20.6
4/6/04 1:15 PM	6.10	10469 (LF20)	16.3	6.93	8.04	94	344	*	0.29	40.3	155	*	< 0.02	0.07	< 0.04	7	*	*	56.8	47.9
4/7/04 6:50 AM	6.02	16011 (BS9)	15.6	6.73	7.83	80	188	*	0.66	8.65	82	*	< 0.02	0.21	< 0.04	9	*	*	27.4	18.7
4/6/04 12:10 PM	6.00	17065 (SR22)	17.2	7.36	6.8	72	462	*	0.33	32.4	72	*	< 0.02	0.07	0.06	9	*	*	57.6	67.5
4/6/04 12:48 PM	6.00	10430 (SR21)	16.7	7.15	7.18	75	530	*	0.28	45.4	45	*	< 0.02	0.08	< 0.04	11	*	*	40.6	40.5
4/6/04 1:40 PM	6.00	10429 (SR19)	17.4	7.29	8.6	91	392	*	0.42	29.6	45	*	< 0.02	0.09	< 0.04	8	*	*	59.7	54.6
4/7/04 7:18 AM	5.00	10428 (SR17)	16.8	7.18	8.77	92	321	*	0.4	25.8	145	*	< 0.02	< 0.02	< 0.04	8	*	*	50.3	40
4/7/04 7:49 AM	5.00	10427 (SR16)	16.9	7.05	8.25	87	343	*	0.38	31.8	488	*	< 0.02	0.07	< 0.04	8	*	*	58.8	40.1
4/7/04 8:11 AM	5.00	10426 (SR15)	17	7.06	8.47	90	330	*	0.39	32.1	40	*	< 0.02	0.06	< 0.04	9	*	*	55.9	38.2
4/7/04 8:43 AM	5.00	10423 (SR14)	16.7	7.06	8.39	88	344	*	0.36	28.5	261	*	< 0.02	0.75	< 0.04	8	*	*	57.9	35.1
4/7/04 9:24 AM	5.00	13628 (SR11)	17.5	7.38	9.19	98	361	*	0.44	23.4	25	*	< 0.02	0.37	< 0.04	10	*	*	56.4	39.3
4/7/04 10:15 AM	5.00	10415 (SR10)	17.8	7.37	10	107	353	*	0.44	19.4	9	*	< 0.02	0.19	0.04	9	50	64	51	40

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

April 2004

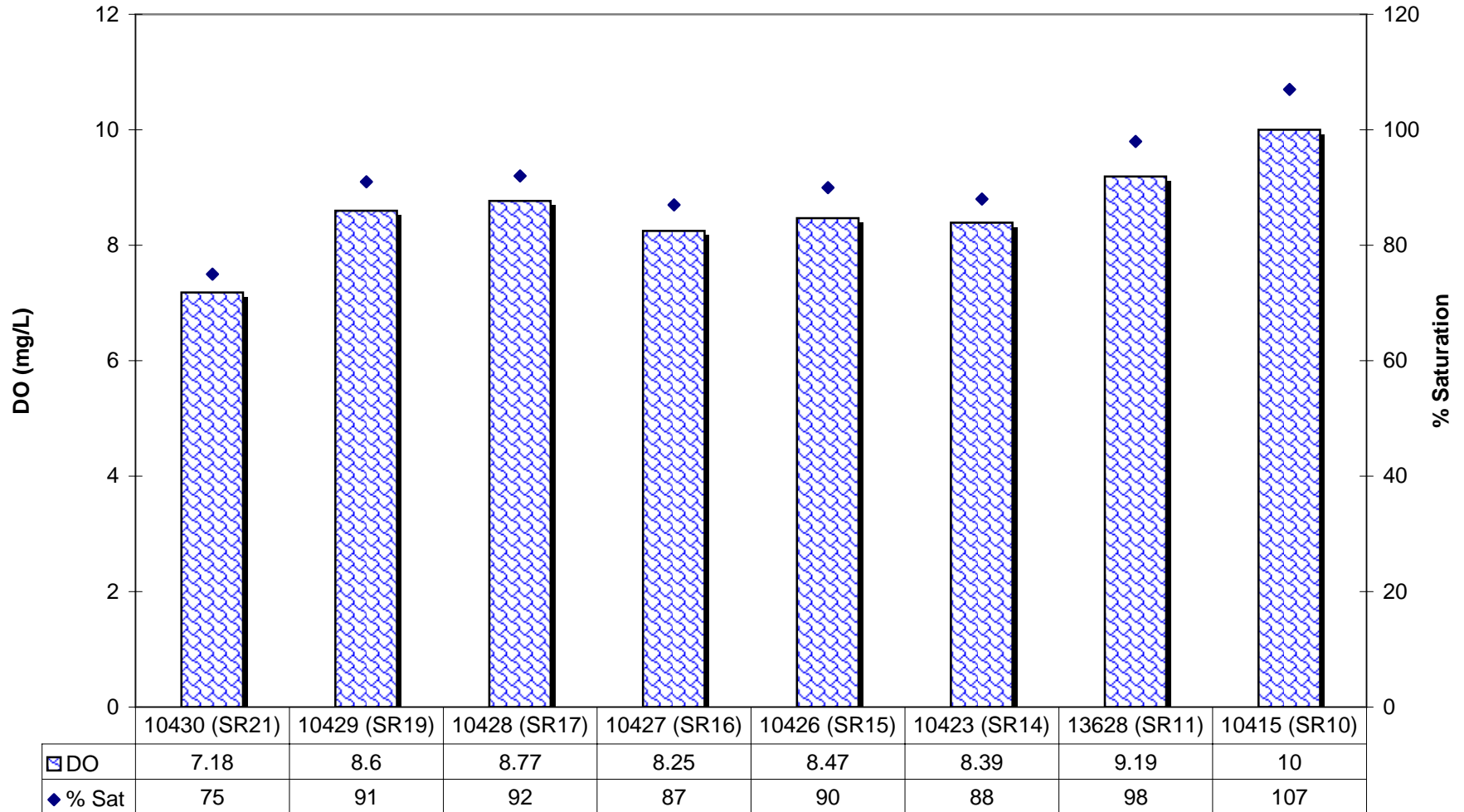
Upper Sabine Basin DO / % Saturation (1 of 2)



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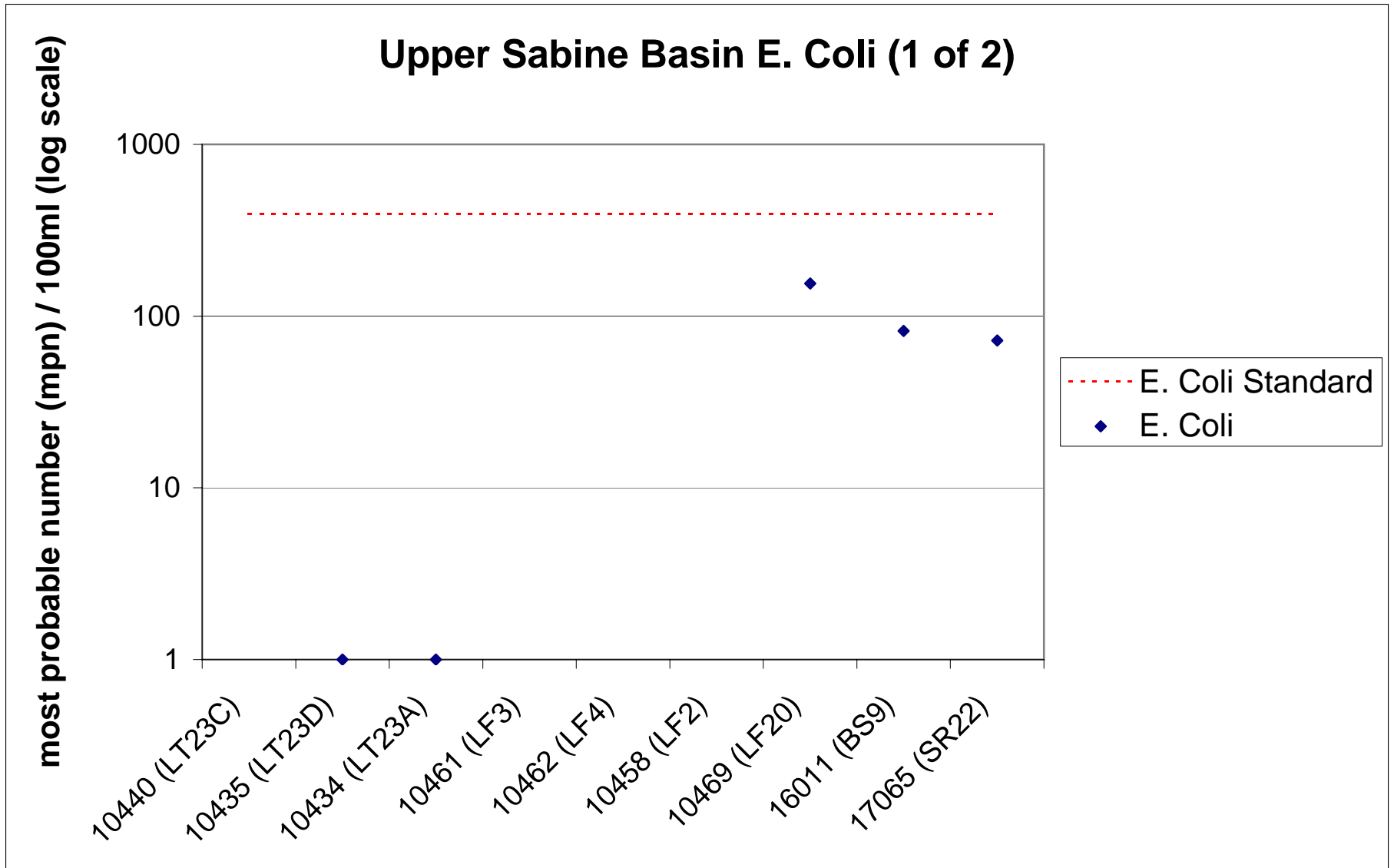
April 2004

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



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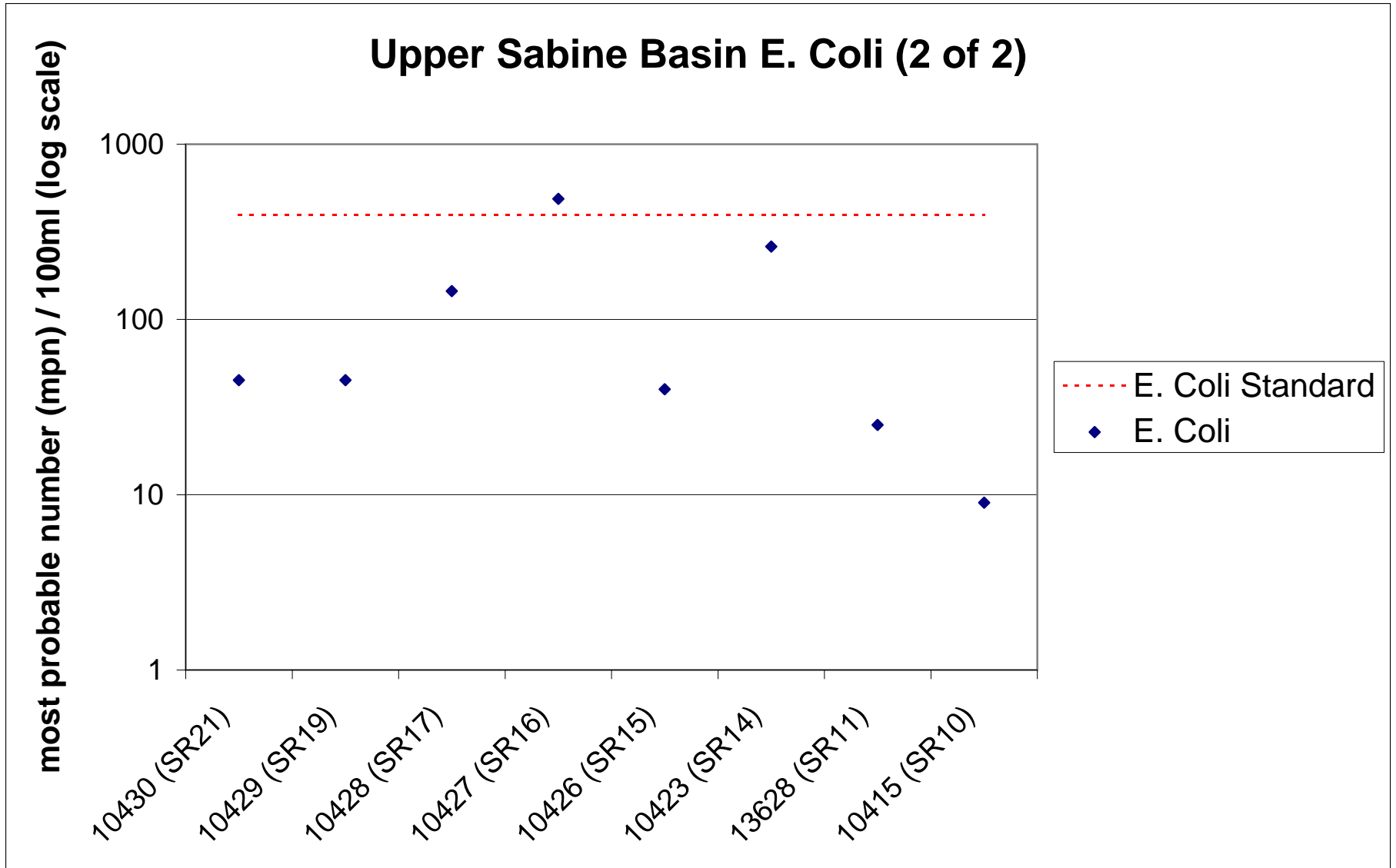
April 2004



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

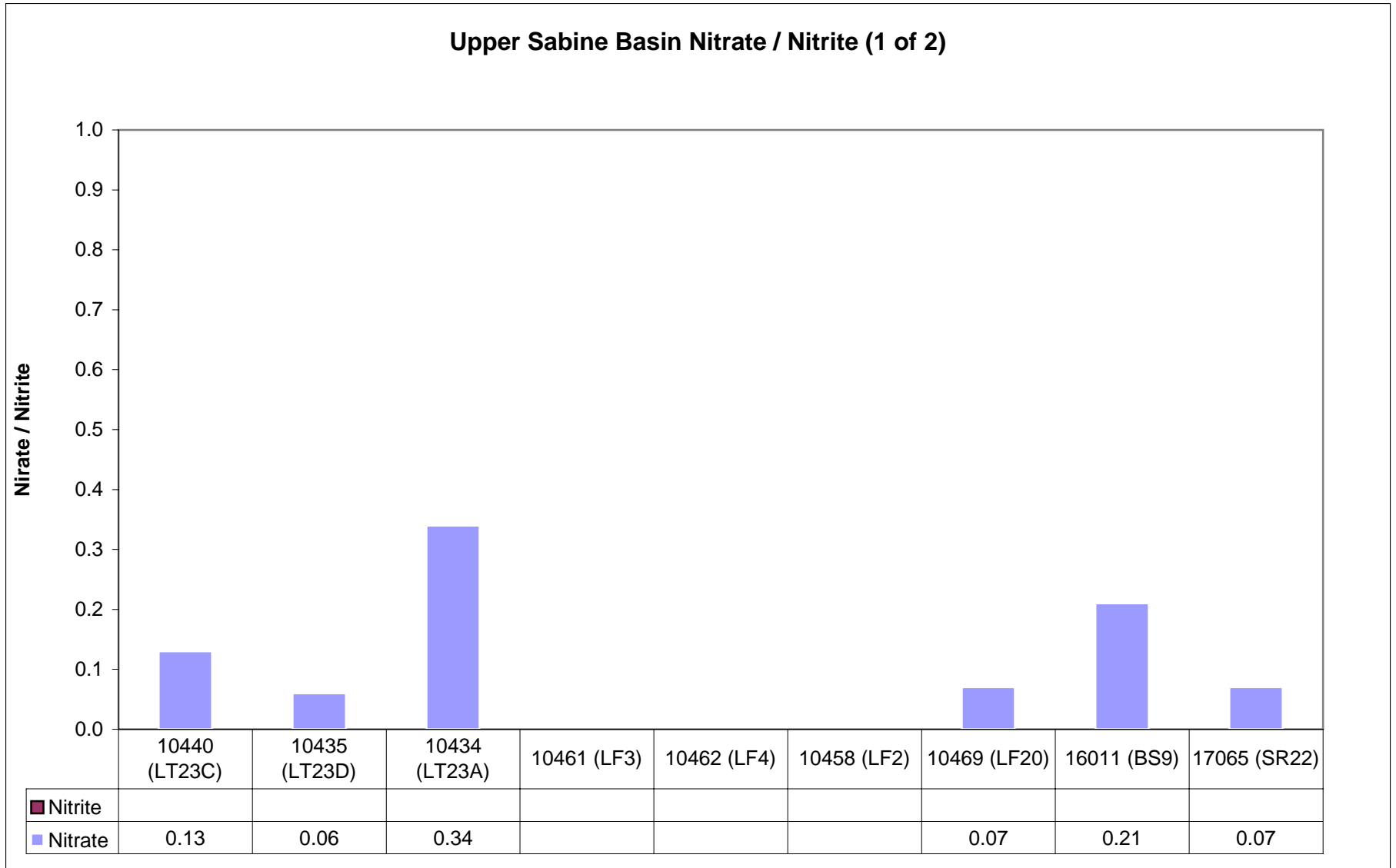
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April 2004



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April 2004

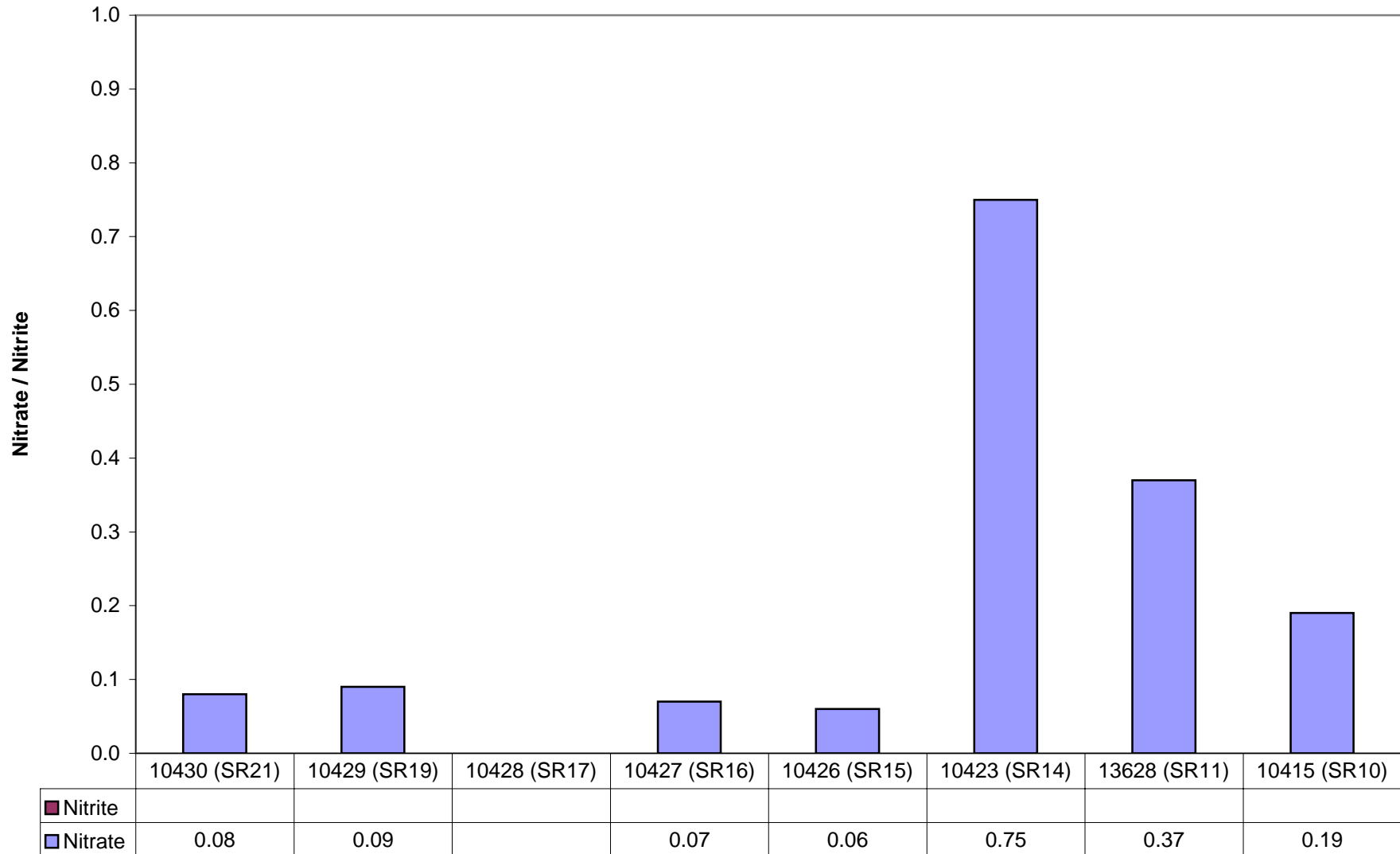


Stations without values were below detection limit on this run (see page 2)

SABINE RIVER AUTHORITY OF TEXAS

April 2004

Lower Sabine Basin Nitrate / Nitrite (2 of 2)



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

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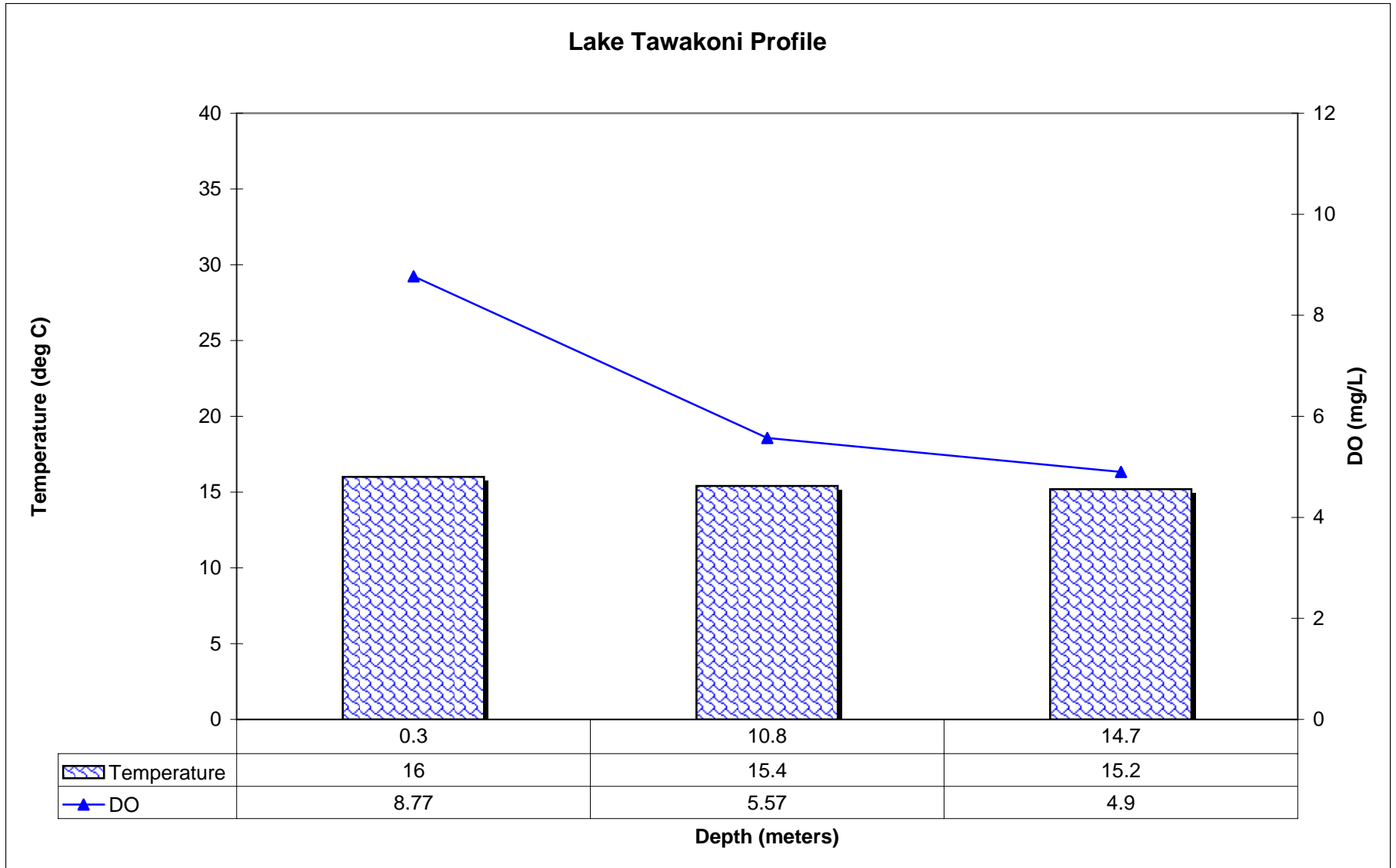
Upper Basin Profiles

April 2004

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
4/6/04 11:04 AM	7.00	10440 (LT23C)	0.3	16.9	8	8.87	93	190
			2	16.9	8.03	8.93	94	191
			3.9	16.9	8.08	8.97	94	196
4/6/04 10:15 AM	7.00	10435 (LT23D)	0.3	18.4	8.42	9.22	100	195
			3.4	18.5	8.43	9.25	100	198
			7	18.5	8.4	9.24	100	190
4/6/04 9:20 AM	7.00	10434 (LT23A)	0.3	16	7.86	8.77	90	189
			10.8	15.4	7.27	5.57	57	182
			14.7	15.2	7.2	4.9	50	198
4/6/04 8:10 AM	6.12	10461 (LF3)	0.3	17.3	7.6	9.36	99	168
			5.2	17.1	7.44	9.23	97	160
			9.4	15.3	6.67	4.09	41	157
4/6/04 8:32 AM	6.12	10462 (LF4)	0.3	17.1	7.58	9.24	98	160
			7.2	17.1	7.46	9.03	95	164
			11	15.5	6.67	4.11	42	165
4/6/04 7:35 AM	6.12	10458 (LF2)	0.3	16.8	7.55	9.33	98	163
			14.2	11.7	6.57	4.57	43	162
			16.9	11	6.52	2.36	22	168

SABINE RIVER AUTHORITY OF TEXAS

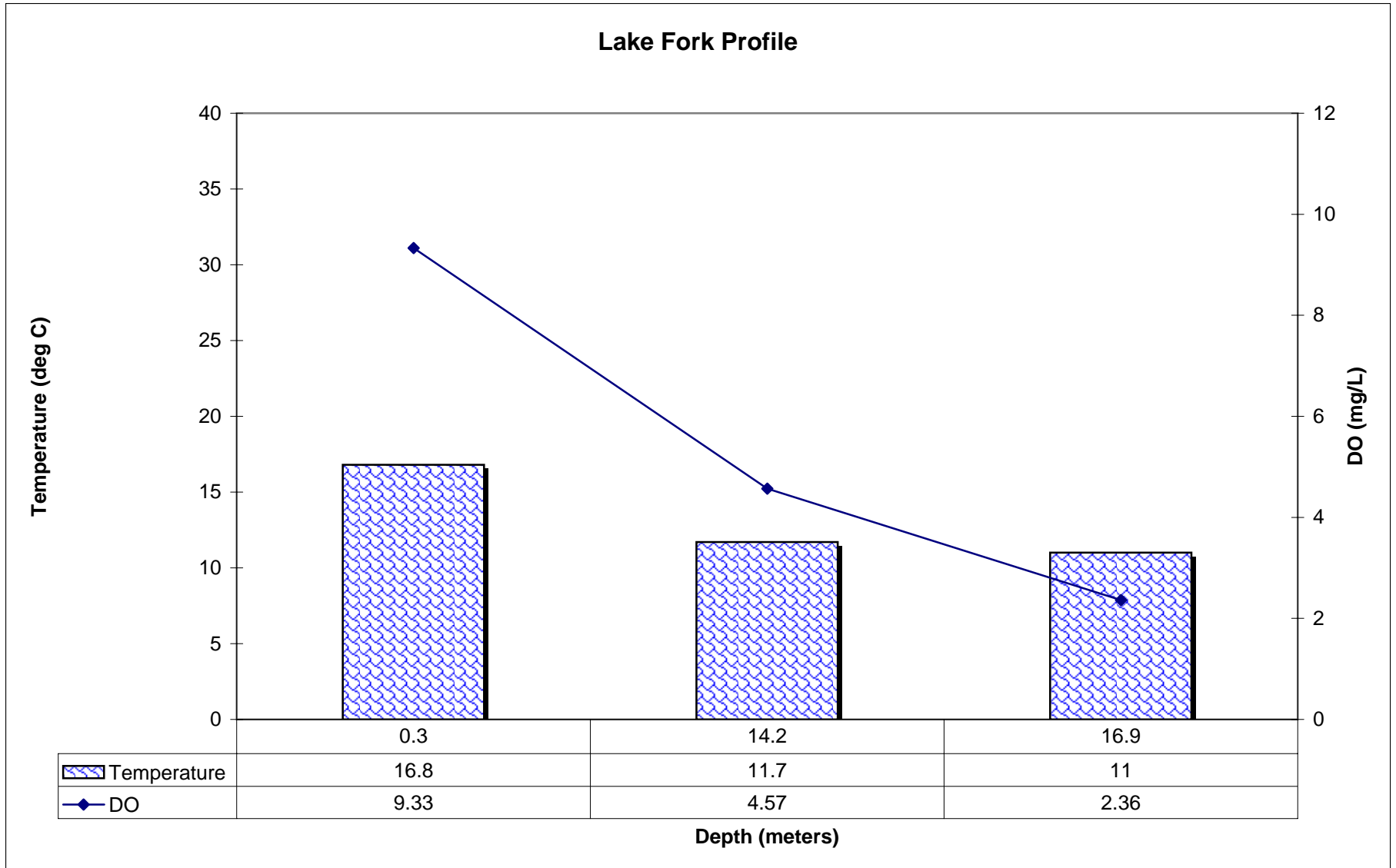
April 2004



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

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April 2004



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Lake Tawakoni Weather and Reservoir Data

April 2004

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
4/1/2004	436.40	(1.10)	5	69	45	0.00	0.21
4/2/2004	436.37	(1.13)	5	79	50	0.00	0.22
4/3/2004	436.38	(1.12)	5	77	54	0.00	0.21
4/4/2004	436.37	(1.13)	5	76	49	0.00	0.26
4/5/2004	436.32	(1.18)	5	72	49	0.00	0.23
4/6/2004	436.32	(1.18)	5	73	54	0.00	0.30
4/7/2004	436.34	(1.16)	5	69	53	0.25	0.12
4/8/2004	436.35	(1.15)	5	71	52	0.02	0.12
4/9/2004	436.35	(1.15)	5	77	52	0.00	0.22
4/10/2004	436.32	(1.18)	5	80	53	0.00	0.28
4/11/2004	436.35	(1.15)	5	71	50	0.00	0.16
4/12/2004	436.35	(1.15)	5	50	46	0.25	0.05
4/13/2004	436.35	(1.15)	5	57	45	0.05	0.08
4/14/2004	436.28	(1.22)	5	62	40	0.00	0.21
4/15/2004	436.25	(1.25)	5	71	40	0.00	0.24
4/16/2004	436.24	(1.26)	5	75	53	0.00	0.29
4/17/2004	436.25	(1.25)	5	78	58	0.00	0.16
4/18/2004	436.23	(1.27)	5	80	58	0.00	0.31
4/19/2004	436.22	(1.28)	5	78	60	0.00	0.31
4/20/2004	436.22	(1.28)	5	74	66	0.00	0.17
4/21/2004	436.21	(1.29)	5	74	62	0.00	0.11
4/22/2004	436.22	(1.28)	5	80	67	0.00	0.28
4/23/2004	436.22	(1.28)	5	82	69	0.00	0.19
4/24/2004	436.38	(1.12)	5	80	62	1.56	0.00
4/25/2004	436.58	(0.92)	5	70	60	0.79	0.00
4/26/2004	436.75	(0.75)	5	75	56	0.07	0.00
4/27/2004	436.80	(0.70)	5	76	52	0.00	0.27
4/28/2004	436.79	(0.71)	5	80	52	0.00	0.23
4/29/2004	436.78	(0.72)	5	77	57	0.03	0.27
4/30/2004	436.79	(0.71)	5	79	63	0.20	0.15
Avg or Tot	436.39	(1.11)	5	74	54	3.22	5.65

	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.				

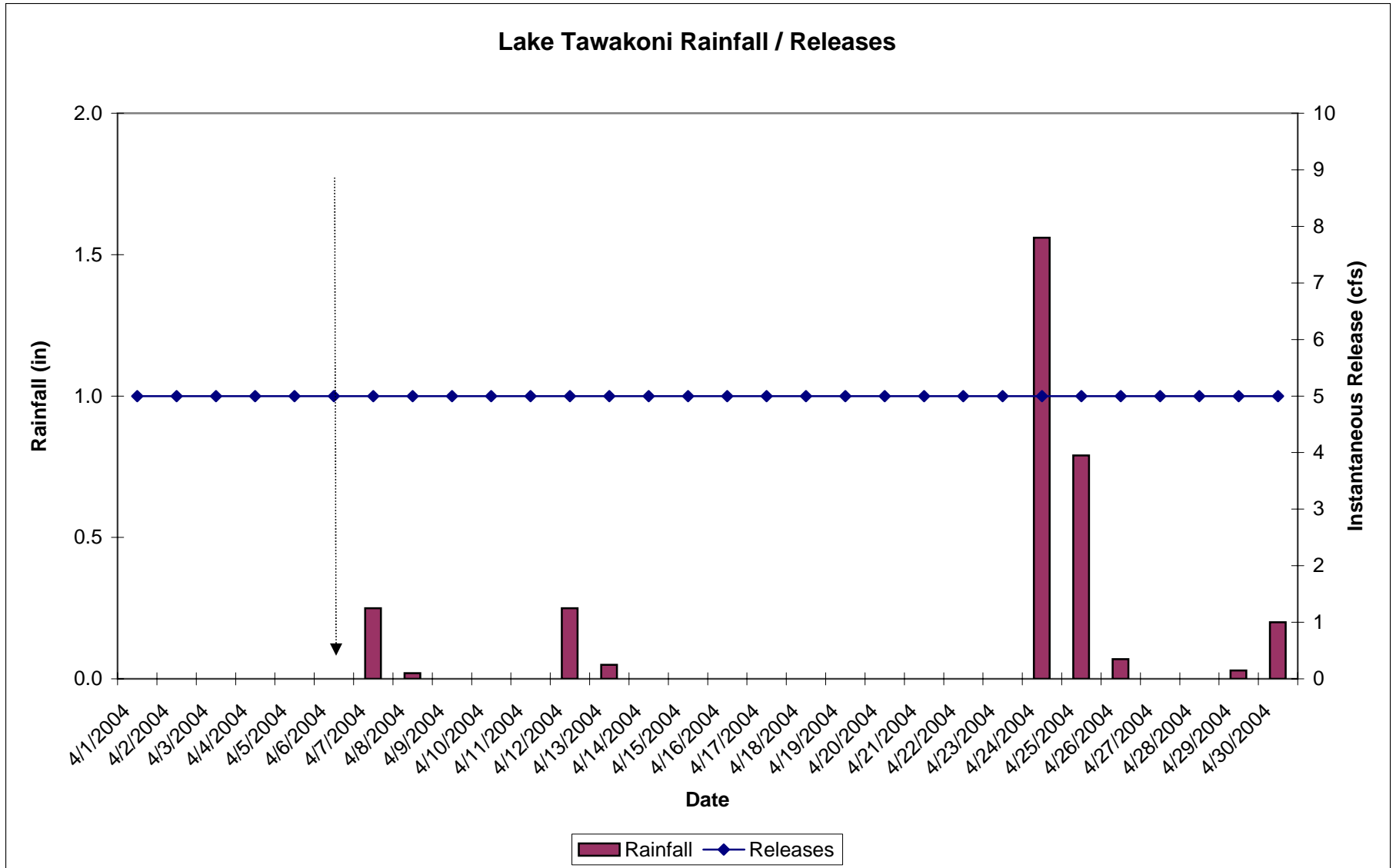
TOP: Top of Pool = 437.5 Feet M.S.L.

FZ: Gage Frozen

Lake Tawakoni Sampled on 4/6/2004

SABINE RIVER AUTHORITY OF TEXAS

April 2004



Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

April 2004

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
4/1/2004	401.86	(1.14)	8	8	72	44	0.00	0.22
4/2/2004	401.85	(1.15)	8	8	82	50	0.00	0.25
4/3/2004	401.85	(1.15)	8	8	81	53	0.00	0.31
4/4/2004	401.83	(1.17)	8	8	80	50	0.00	0.19
4/5/2004	401.82	(1.18)	8	8	80	48	0.00	0.20
4/6/2004	401.82	(1.18)	8	8	76	51	0.00	0.31
4/7/2004	401.82	(1.18)	8	8	71	52	0.22	0.11
4/8/2004	401.82	(1.18)	8	8	76	54	0.01	0.10
4/9/2004	401.81	(1.19)	8	8	81	53	0.00	0.20
4/10/2004	401.81	(1.19)	8	8	84	52	0.00	0.30
4/11/2004	401.81	(1.19)	8	8	76	49	0.01	0.15
4/12/2004	401.82	(1.18)	8	8	53	47	0.38	0.01
4/13/2004	401.82	(1.18)	8	8	60	45	0.07	0.07
4/14/2004	401.78	(1.22)	8	8	65	38	0.00	0.18
4/15/2004	401.78	(1.22)	8	8	73	40	0.00	0.28
4/16/2004	401.77	(1.23)	8	8	77	52	0.00	0.16
4/17/2004	401.74	(1.26)	8	8	80	59	0.00	0.39
4/18/2004	401.73	(1.27)	8	8	82	60	0.00	0.39
4/19/2004	401.73	(1.27)	8	8	81	62	0.00	0.34
4/20/2004	401.73	(1.27)	8	8	77	62	0.00	0.17
4/21/2004	401.72	(1.28)	8	8	77	63	0.00	0.15
4/22/2004	401.69	(1.31)	8	8	82	66	0.00	0.25
4/23/2004	401.68	(1.32)	8	8	85	67	0.00	0.20
4/24/2004	402.00	(1.00)	8	8	83	61	1.70	0.20
4/25/2004	402.33	(0.67)	8	8	83	61	1.10	0.12
4/26/2004	402.50	(0.50)	8	8	84	56	0.16	0.16
4/27/2004	402.49	(0.51)	8	8	81	51	0.00	0.25
4/28/2004	402.49	(0.51)	8	8	82	55	0.00	0.27
4/29/2004	402.52	(0.48)	8	8	81	60	0.04	0.26
4/30/2004	402.54	(0.46)	8	8	81	61	0.13	0.16
Avg or Tot	401.93	(1.07)	8	8	78	54	3.82	6.35

	Avg	Avg	Avg		Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	cfs	Deg F	Deg F	Inches	Inches
			Previous 24 hrs					

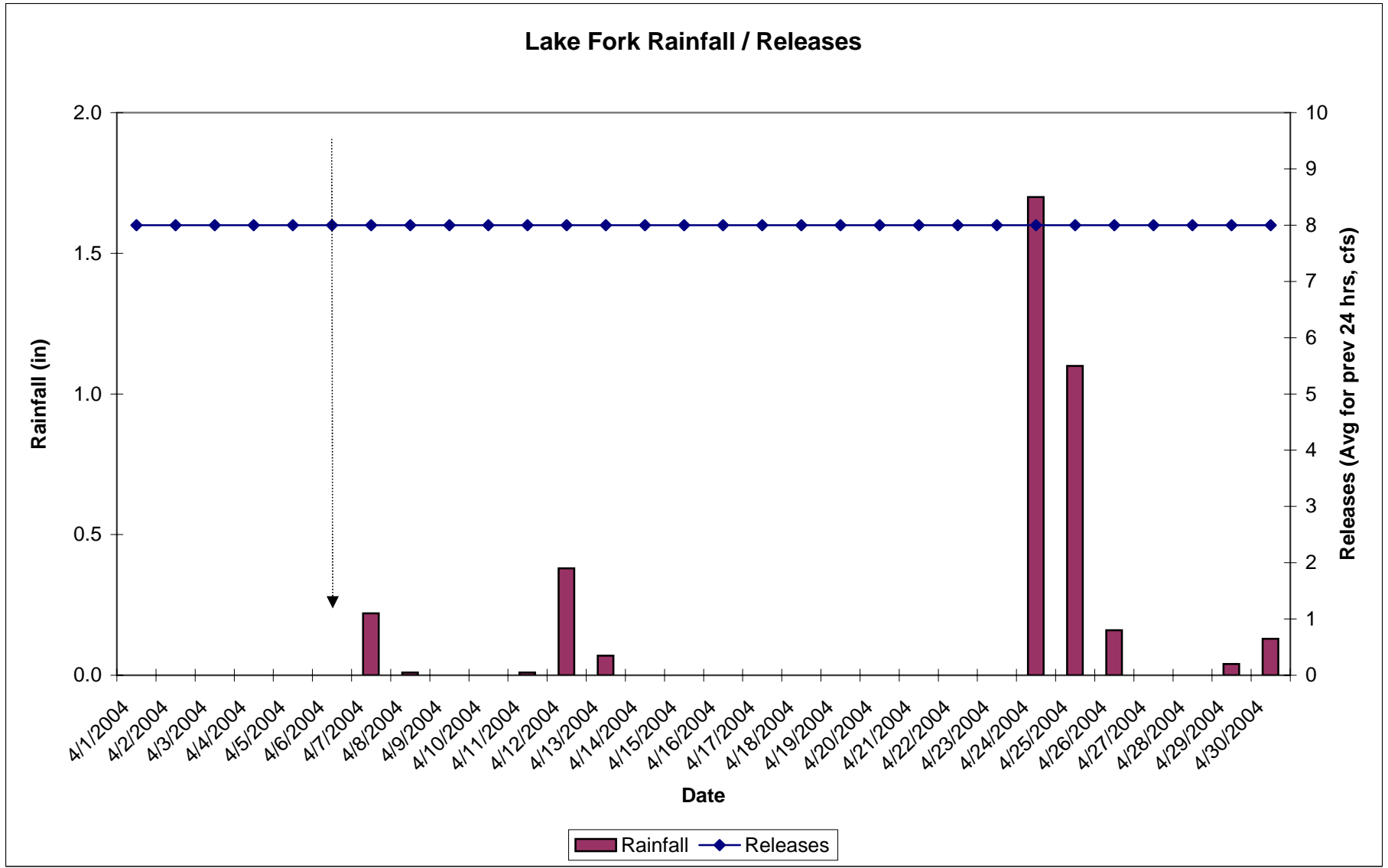
TOP: Top of Pool = 403 Feet M.S.L.

FZ: Gage Frozen

Lake Fork Sampled on 4/6/2004

SABINE RIVER AUTHORITY OF TEXAS

April 2004



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FY 2004 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.

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Lower Basin Report

April 2004

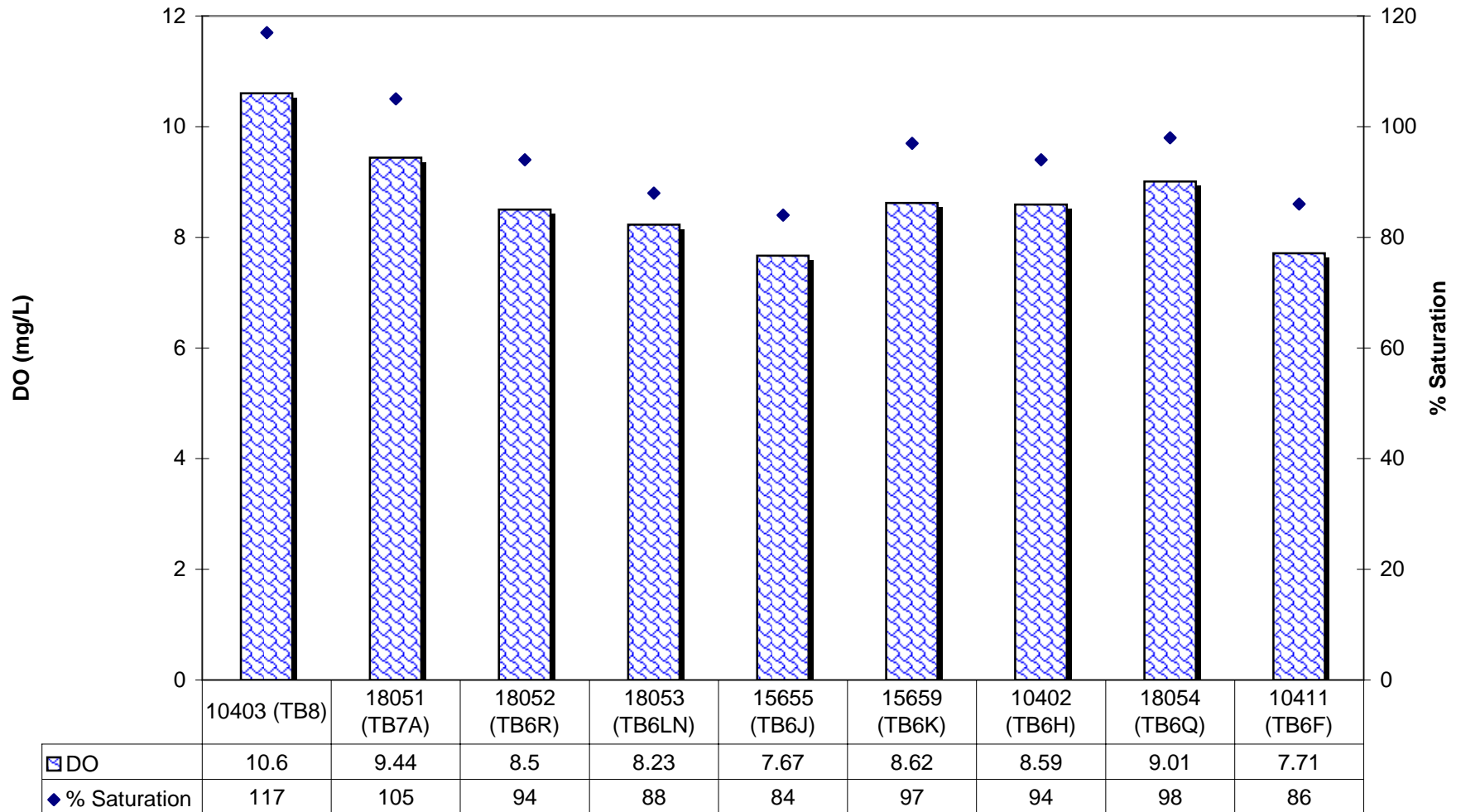
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
4/7/04 10:54 AM	4.00	10403 (TB8)	19.7	7.35	10.6	117	334	*	0.47	18.3	9	*	< 0.02	< 0.02	< 0.04	10	*	*	51.5	36.4
4/7/04 11:39 AM	4.00	18051 (TB7A)	19.7	7.22	9.44	105	302	*	0.5	16.4	21	*	< 0.02	0.05	< 0.04	11	*	*	42.7	34.2
4/5/04 10:05 AM	4.00	18052 (TB6R)	20.6	7.78	8.5	94	151	*	0.68	9.04	1	*	< 0.02	0.05	< 0.04	11	*	*	16	16.4
4/5/04 12:13 PM	4.00	18053 (TB6LN)	19.2	7.52	8.23	88	133	*	0.86	5.58	< 1	*	< 0.02	< 0.02	< 0.04	9	*	*	14.6	13.9
4/6/04 10:45 AM	4.00	15655 (TB6J)	19.7	7.1	7.67	84	156	*	0.96	6.29	< 1	*	< 0.02	0.06	< 0.04	9	*	*	16	21.4
4/6/04 12:45 PM	4.00	15659 (TB6K)	20.8	7.51	8.62	97	140	*	0.93	5.71	3	*	< 0.02	< 0.02	< 0.04	9	*	*	13.6	18.6
4/6/04 11:45 AM	4.00	10402 (TB6H)	19.7	7.65	8.59	94	160	*	1.21	4.03	< 1	*	< 0.02	< 0.02	< 0.04	8	*	*	18.8	18.1
4/5/04 1:00 PM	4.00	18054 (TB6Q)	19.7	7.85	9.01	98	157	*	1.13	2.94	1	*	< 0.02	< 0.02	< 0.04	7	*	*	17.1	18.5
4/6/04 11:08 AM	4.00	10411 (TB6F)	20.3	7.13	7.71	86	96	*	0.84	9.22	1	*	< 0.02	0.07	< 0.04	6	*	*	< 10	< 10
4/6/04 10:05 AM	4.00	10407 (TB6CN)	20.5	6.78	7.13	80	111	*	0.86	7.58	2	*	< 0.02	0.04	< 0.04	10	*	*	10.6	13.9
4/5/04 1:55 PM	4.00	10404 (TB6A)	18.5	7.82	9.45	100	145	*	2.65	1.56	< 1	*	< 0.02	< 0.02	< 0.04	6	*	*	15.7	15.8
4/7/04 12:30 PM	3.03	10340 (BA4)	19.6	7.17	7.96	86	374	*	0.3	22.9	281	*	< 0.02	0.1	0.04	14	*	*	14.4	51.6
4/7/04 10:40 AM	3.00	10401 (TB6S)	12.6	7.62	10.8	101	150	*	> 1.22	2.31	2	*	< 0.02	0.07	< 0.04	5	*	*	15.5	16
4/7/04 12:00 PM	3.00	10399 (SR5)	17.1	7.37	9.22	94	140	*	0.89	4.64	31	*	< 0.02	0.08	< 0.04	5	*	*	15.1	15.1
4/7/04 12:50 PM	3.00	10398 (SR3)	19.6	7.14	7.89	86	162	*	0.36	21.4	387	*	< 0.02	0.06	< 0.04	8	*	*	10.4	25.8
4/7/04 9:22 AM	2.05	10465 (BCC1)	16.9	6.6	8.51	87	51	*	0.24	42.3	2420	*	< 0.02	0.12	< 0.04	9	*	*	< 10	< 10
4/7/04 8:45 AM	2.00	10397 (SR2)	19.1	6.9	7.4	79	135	*	0.41	28.4	9	*	< 0.02	0.12	< 0.04	8	*	*	11.1	15.8

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

April 2004

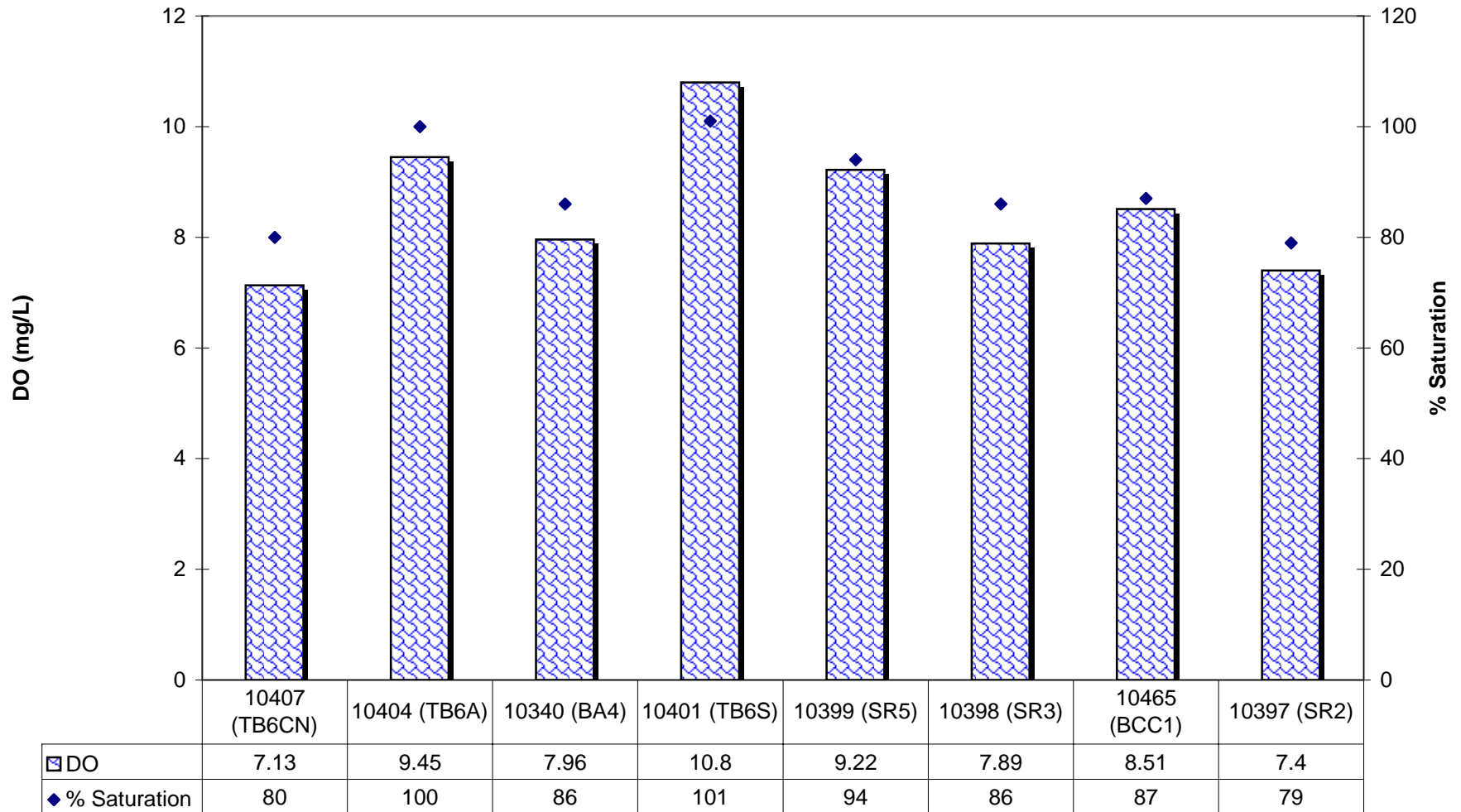
Lower Sabine Basin DO / % Saturation (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

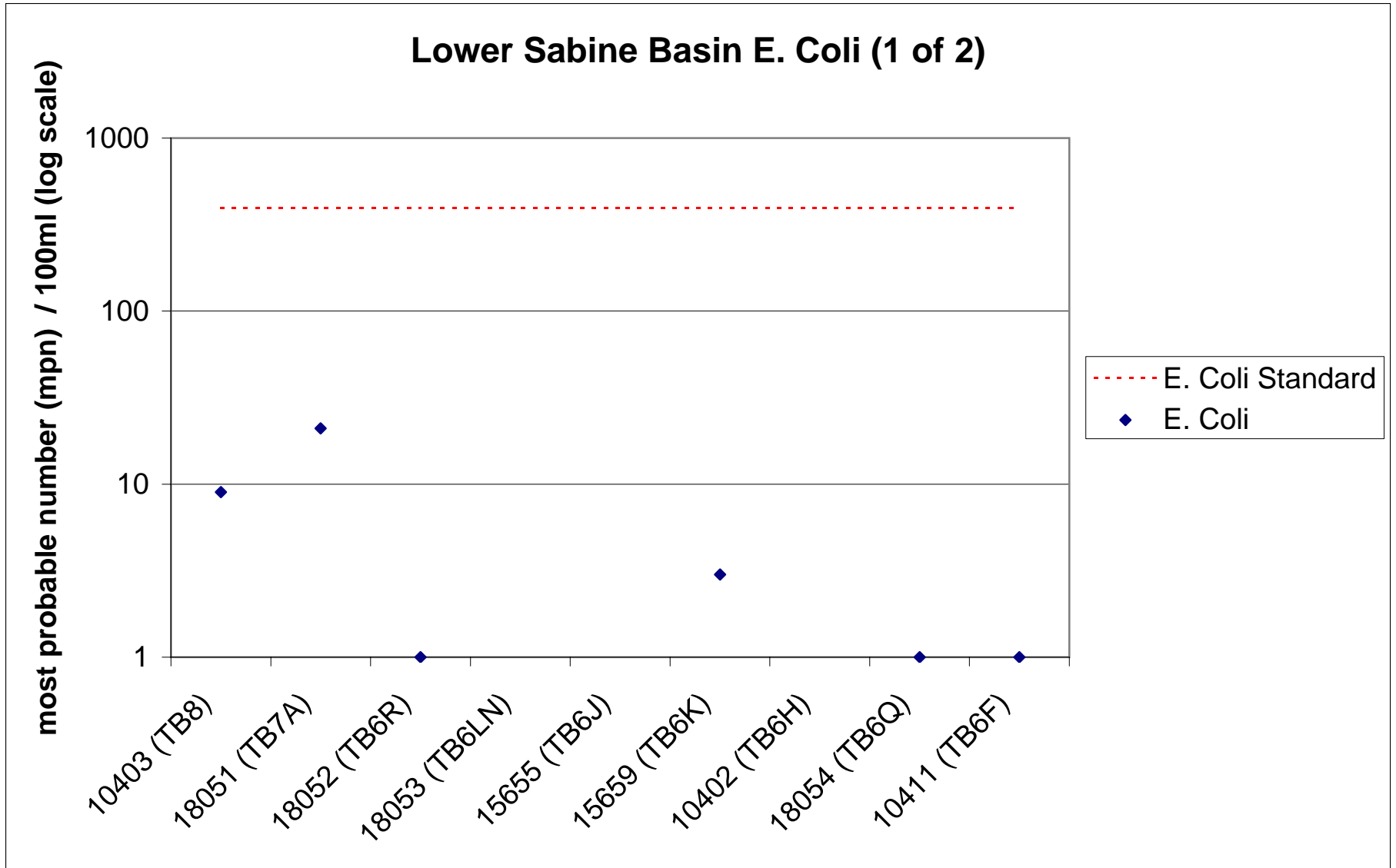
April 2004

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



SABINE RIVER AUTHORITY OF TEXAS

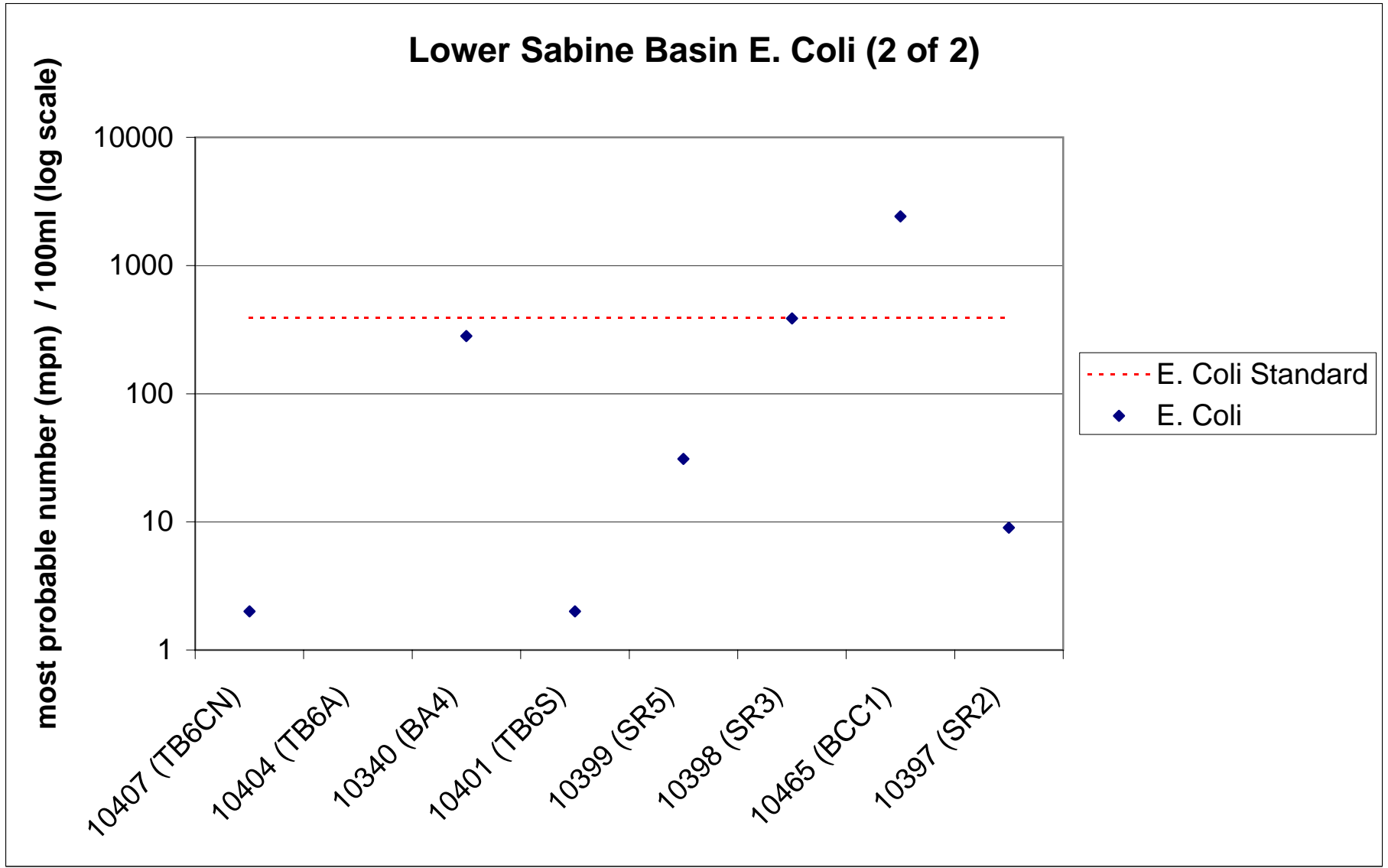
April 2004



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

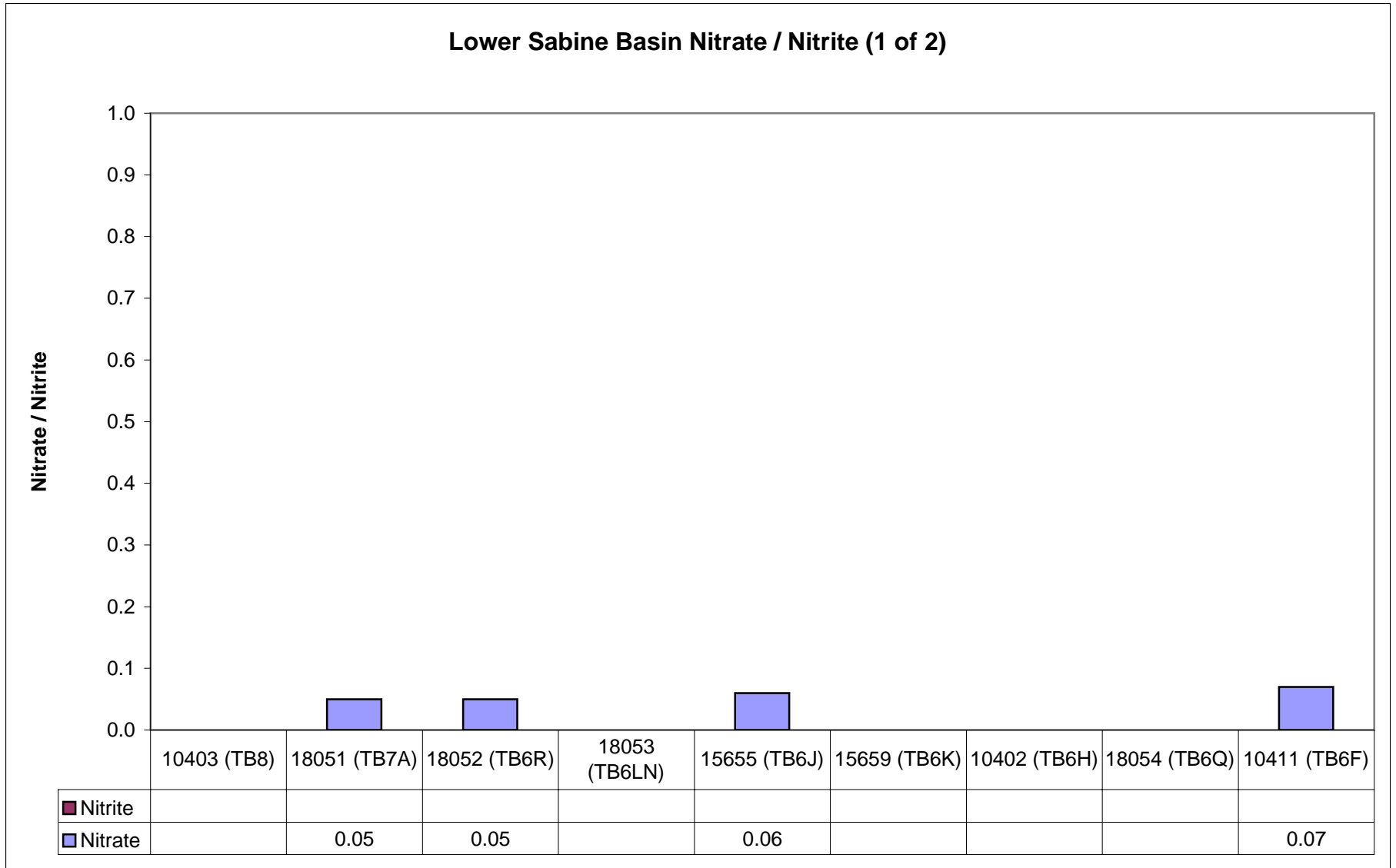
SABINE RIVER AUTHORITY OF TEXAS

April 2004



SABINE RIVER AUTHORITY OF TEXAS

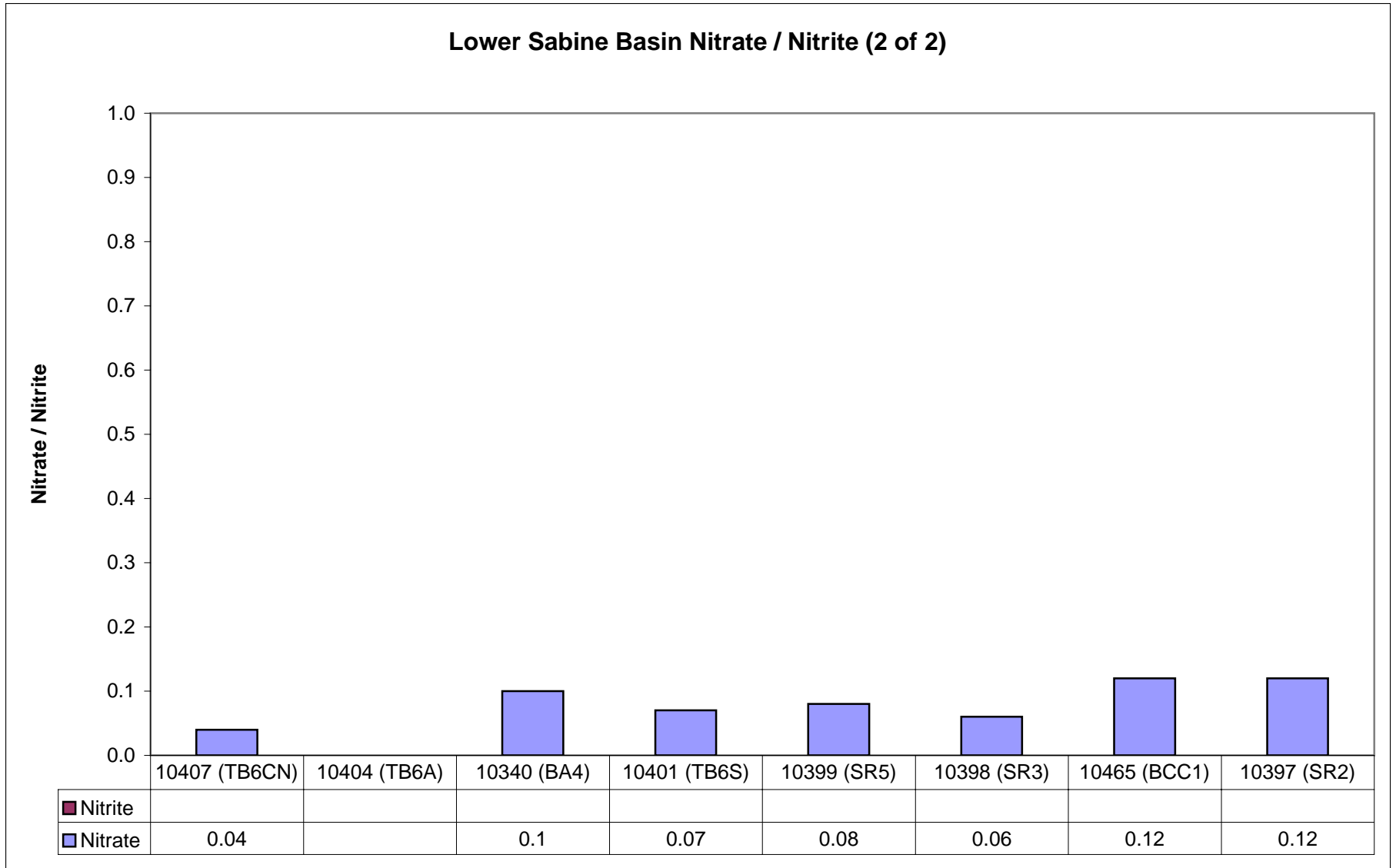
April 2004



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

SABINE RIVER AUTHORITY OF TEXAS

April 2004



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

SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Profiles

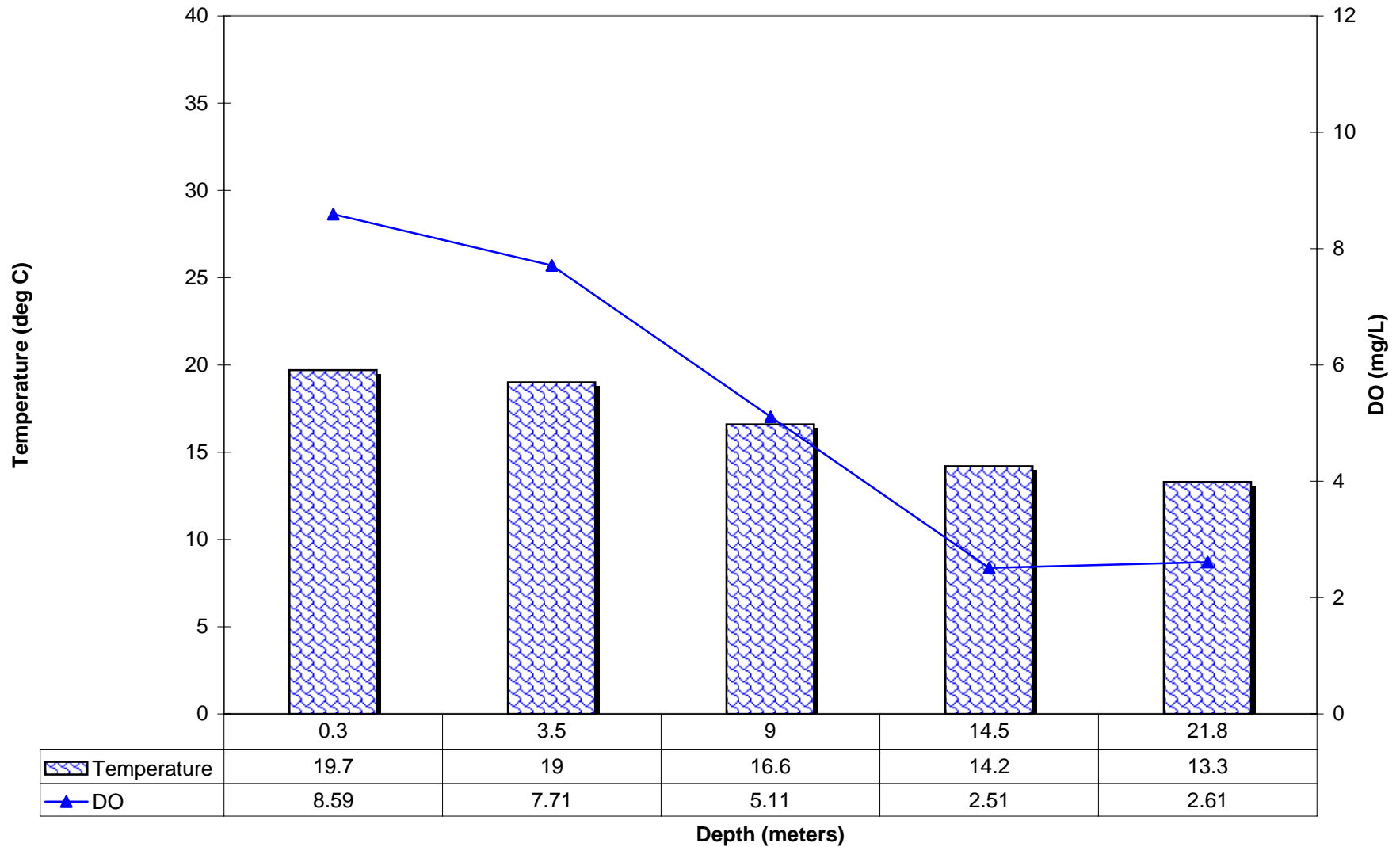
April 2004

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
4/7/04 10:54 AM	4.00	10403 (TB8)	0.3	19.7	7.35	10.6	117	334
			5.2	19.2	7.09	9.1	100	338
			11.1	19.2	7.03	8.51	94	332
4/7/04 11:39 AM	4.00	18051 (TB7A)	0.3	19.7	7.22	9.44	105	302
			5.5	19.2	6.98	7.94	88	302
			9.2	18.3	6.73	4.39	48	255
4/5/04 10:05 AM	4.00	18052 (TB6R)	0.3	20.6	7.78	8.5	94	151
			2.5	20.6	7.54	8.18	91	142
			5	19.8	7.14	7.27	82	144
			10	18.5	6.96	6.44	69	150
			14.5	18.2	7.01	6.59	69	148
4/5/04 12:13 PM	4.00	18053 (TB6LN)	0.3	19.2	7.52	8.23	88	133
			2.5	18.8	7.09	7.21	78	137
			5.3	17.7	7.12	6.52	67	155
4/6/04 10:45 AM	4.00	15655 (TB6J)	0.3	19.7	7.1	7.67	84	156
			4.4	19.1	6.88	5.31	56	162
4/6/04 12:45 PM	4.00	15659 (TB6K)	0.3	20.8	7.51	8.62	97	140
			2	19.4	7	7.78	85	142
			4	17.2	6.75	4.73	50	155
			8.8	16.1	6.78	3.58	36	156
4/6/04 11:45 AM	4.00	10402 (TB6H)	0.3	19.7	7.65	8.59	94	160
			3.5	19	7.27	7.71	84	159
			9	16.6	6.79	5.11	52	165
			14.5	14.2	6.63	2.51	24	181
			21.8	13.3	6.67	2.61	24	182
4/5/04 1:00 PM	4.00	18054 (TB6Q)	0.3	19.7	7.85	9.01	98	157
			4	17.3	7	6.99	74	163
			8.3	15.4	7.05	5.44	49	168
4/6/04 11:08 AM	4.00	10411 (TB6F)	0.3	20.3	7.13	7.71	86	96
			2.5	20.1	6.91	7.08	79	96
			5	18.2	6.61	3.39	35	100
4/6/04 10:05 AM	4.00	10407 (TB6CN)	0.3	20.5	6.78	7.13	80	111
			3	19.7	6.47	4.98	55	119
			6.6	18.4	6.34	3.09	32	136
4/5/04 1:55 PM	4.00	10404 (TB6A)	0.3	18.5	7.82	9.45	100	145
			6	16.9	7.21	8.25	86	146
			10	13.8	6.86	6.26	61	148
			15	11.5	6.78	5.56	51	147
			27.4	11.1	6.86	5.93	53	151

SABINE RIVER AUTHORITY OF TEXAS

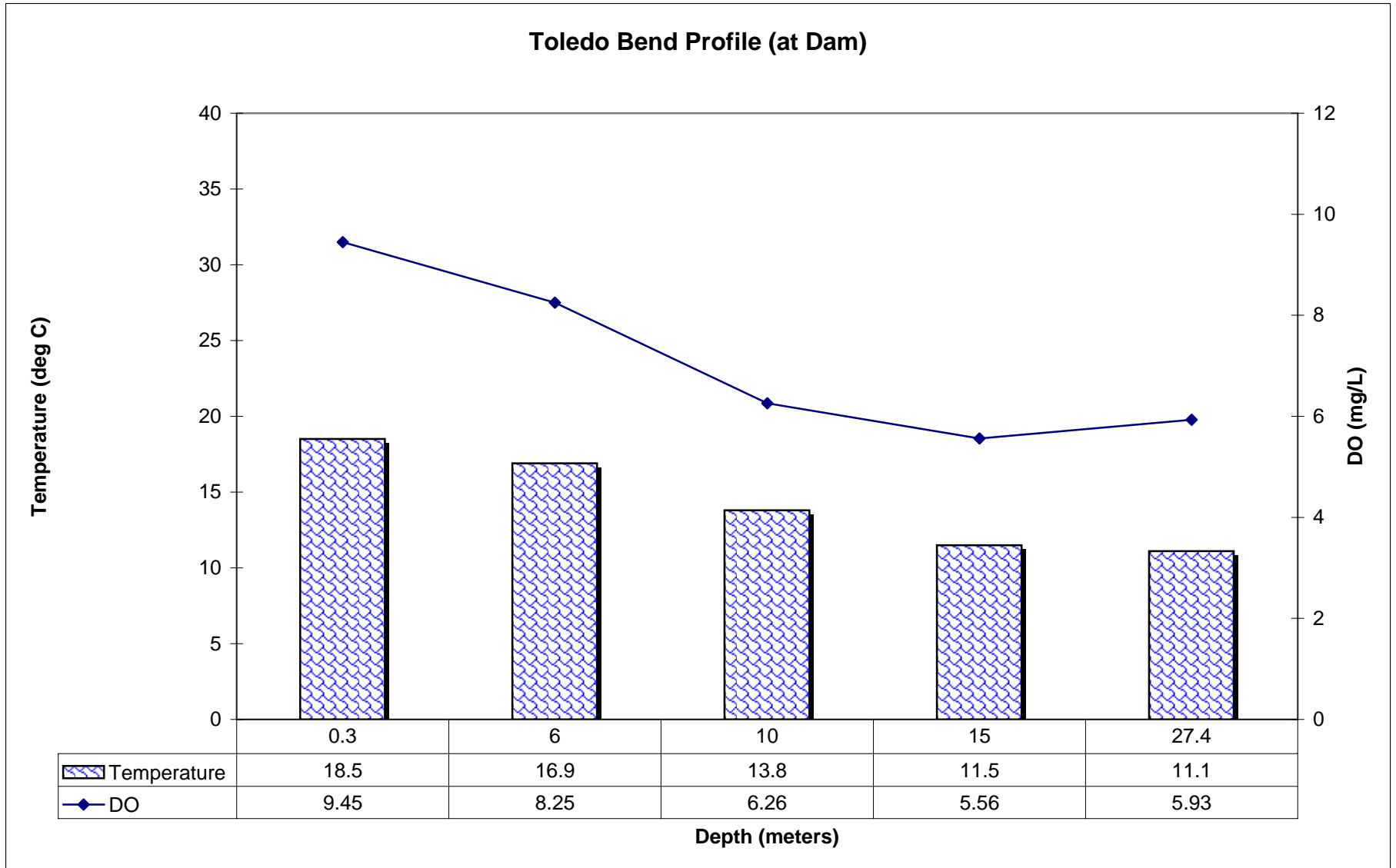
April 2004

Toledo Bend Profile (at Pendleton Bridge)



SABINE RIVER AUTHORITY OF TEXAS

April 2004



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

April 2004

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
4/1/2004	169.84	(2.16)	72	43	0.00	0.25	204	405	204
4/2/2004	169.91	(2.09)	82	46	0.00	0.21	204	405	204
4/3/2004	169.87	(2.13)	75	55	0.00	0.21	204	405	204
4/4/2004	169.94	(2.06)	77	52	0.00	0.19	204	405	204
4/5/2004	169.93	(2.07)	78	52	0.00	0.18	204	405	204
4/6/2004	169.93	(2.07)	75	49	0.00	0.10	1,008	1,999	204
4/7/2004	170.01	(1.99)	72	50	0.23	NR	1,016	2,015	204
4/8/2004	170.05	(1.95)	80	61	0.12	NR	1,092	2,166	204
4/9/2004	169.94	(2.06)	93	55	0.00	NR	204	405	204
4/10/2004	169.94	(2.06)	86	54	0.00	0.26	204	405	204
4/11/2004	170.16	(1.84)	82	57	0.65	0.31	204	405	204
4/12/2004	170.17	(1.83)	63	53	0.38	0.05	204	405	204
4/13/2004	170.09	(1.91)	55	50	0.43	0.12	204	405	204
4/14/2004	170.13	(1.87)	64	38	0.00	0.28	204	405	204
4/15/2004	170.16	(1.84)	72	38	0.00	0.20	204	405	204
4/16/2004	170.15	(1.85)	76	43	0.00	0.27	765	1,517	204
4/17/2004	170.14	(1.86)	80	49	0.00	0.26	1,011	2,005	204
4/18/2004	170.12	(1.88)	82	56	0.00	0.30	1,034	2,051	204
4/19/2004	170.12	(1.88)	80	59	0.00	NR	162	321	204
4/20/2004	170.10	(1.90)	82	61	0.00	0.24	144	286	144
4/21/2004	170.09	(1.91)	78	64	0.00	0.14	144	286	144
4/22/2004	170.09	(1.91)	80	63	0.02	0.15	144	286	144
4/23/2004	170.12	(1.88)	87	66	0.00	0.32	1,109	2,218	144
4/24/2004	170.12	(1.88)	87	69	0.00	NR	204	405	204
4/25/2004	170.22	(1.78)	77	64	0.31	0.10	204	405	204
4/26/2004	170.59	(1.41)	70	64	1.22	NR	204	405	204
4/27/2004	170.56	(1.44)	79	51	0.00	0.32	204	405	204
4/28/2004	170.50	(1.50)	77	51	0.00	0.26	176	349	204
4/29/2004	170.59	(1.41)	79	51	0.00	0.25	144	286	144
4/30/2004	170.71	(1.29)	84	60	0.00	0.24	144	286	144
Avg or Tot	170.14	(1.86)	77	54	3.36	5.21	379	22,551	

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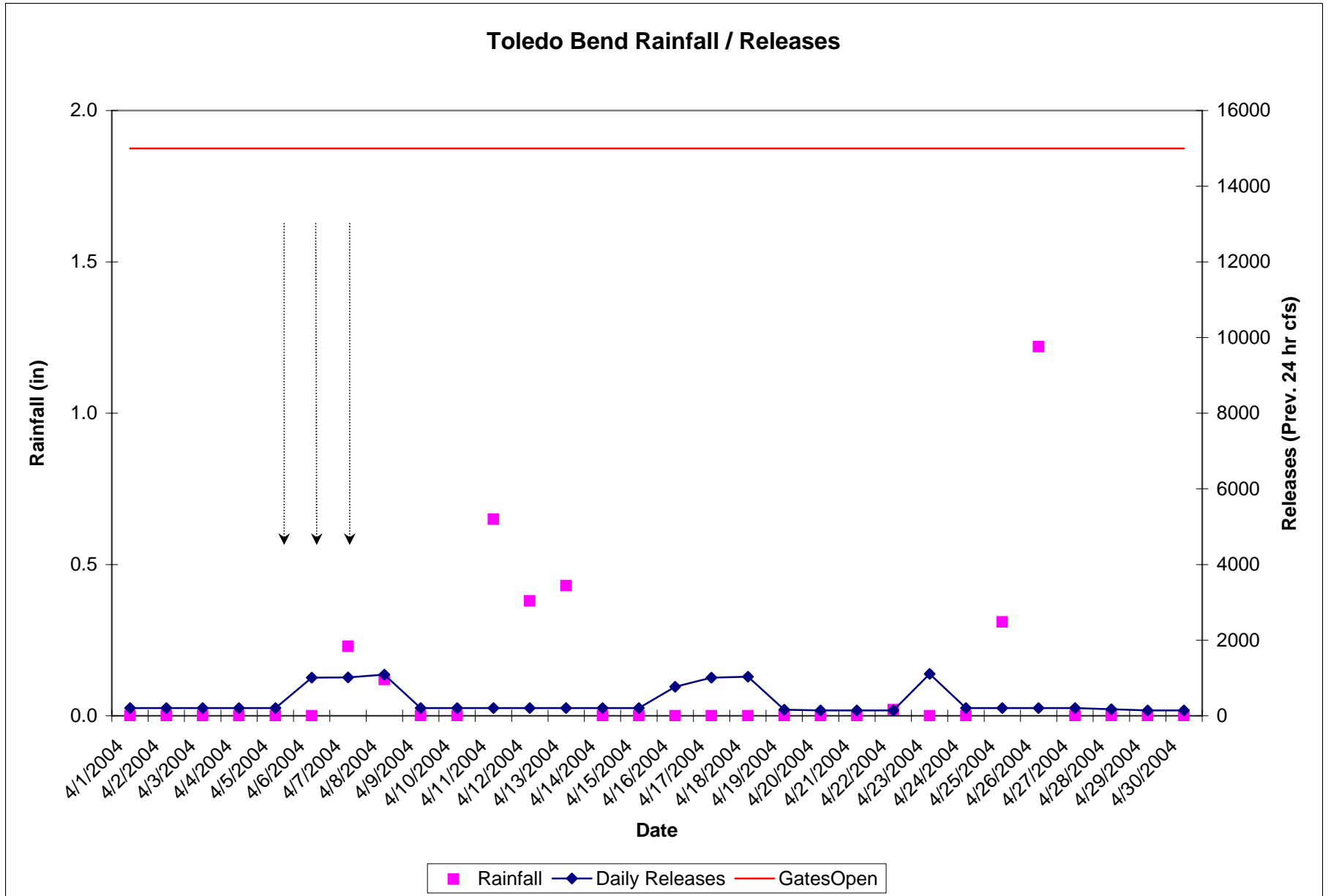
TOP: Top of Pool = 172 Feet M.S.L.

NR: No Reading
 FZ: Gage Frozen

Toledo Bend Sampled on 4/5,6,7/2004

SABINE RIVER AUTHORITY OF TEXAS

April 2004



Toledo Bend sampled on 4/5,6,7/2004

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

SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

April 2004

Date	Rainfall	Gauge Height	GH - FS	Flow
4/1/2004	0.00	14.64	(23.36)	1,050
4/2/2004	0.00	12.94	(25.06)	323
4/3/2004	0.00	12.70	(25.30)	252
4/4/2004	0.00	12.35	(25.65)	163
4/5/2004	0.00	12.43	(25.57)	182
4/6/2004	0.00	12.35	(25.65)	163
4/7/2004	0.23	14.90	(23.10)	1,200
4/8/2004	0.00	14.70	(23.30)	1,090
4/9/2004	0.00	14.68	(23.32)	1,070
4/10/2004	0.00	12.32	(25.68)	156
4/11/2004	1.68	12.97	(25.03)	332
4/12/2004	0.42	13.17	(24.83)	398
4/13/2004	0.28	13.31	(24.69)	448
4/14/2004	0.01	13.32	(24.68)	451
4/15/2004	0.00	12.97	(25.03)	332
4/16/2004	0.00	12.56	(25.44)	214
4/17/2004	0.00	13.34	(24.66)	459
4/18/2004	0.00	13.90	(24.10)	686
4/19/2004	0.00	14.90	(23.10)	1,200
4/20/2004	0.00	12.09	(25.91)	109
4/21/2004	0.00	11.93	(26.07)	81
4/22/2004	0.00	11.89	(26.11)	75
4/23/2004	0.00	11.85	(26.15)	69
4/24/2004	0.00	13.76	(24.24)	625
4/25/2004	0.18	12.13	(25.87)	117
4/26/2004	1.86	13.88	(24.12)	677
4/27/2004	0.06	13.30	(24.70)	444
4/28/2004	0.07	12.72	(25.28)	257
4/29/2004	0.01	12.23	(25.77)	137
4/30/2004	0.00	12.00	(26.00)	93
Avg or Tot	4.80	13.07	(24.93)	428

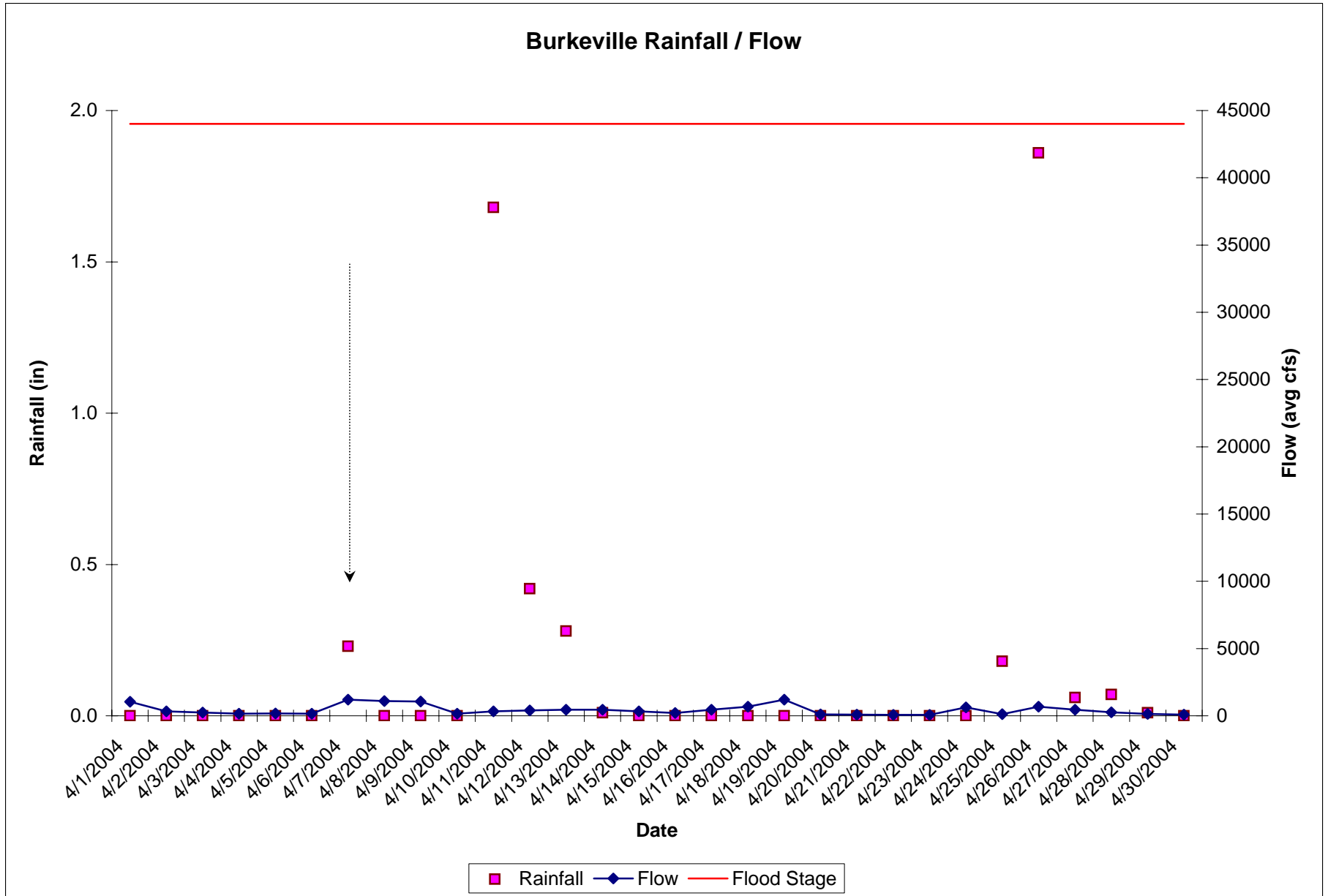
	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 38 feet

Lower Sabine Basin Sampled on 4/7/2004

SABINE RIVER AUTHORITY OF TEXAS

April 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

April 2004

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
4/1/2004	22.95	(7.05)	12,100	0.00
4/2/2004	16.72	(13.28)	3,520	0.00
4/3/2004	15.07	(14.93)	2,050	0.00
4/4/2004	14.71	(15.29)	1,800	0.13
4/5/2004	14.52	(15.48)	1,670	0.00
4/6/2004	14.28	(15.72)	1,510	0.00
4/7/2004	14.54	(15.46)	1,680	1.62
4/8/2004	15.92	(14.08)	2,760	0.06
4/9/2004	15.54	(14.46)	2,430	0.00
4/10/2004	15.45	(14.55)	2,360	0.00
4/11/2004	14.90	(15.10)	1,930	0.87
4/12/2004	19.12	(10.88)	6,290	0.30
4/13/2004	18.84	(11.16)	5,930	0.15
4/14/2004	17.87	(12.13)	4,750	0.00
4/15/2004	16.61	(13.39)	3,410	0.00
4/16/2004	15.62	(14.38)	2,500	0.00
4/17/2004	14.90	(15.10)	1,930	0.00
4/18/2004	15.14	(14.86)	2,110	0.00
4/19/2004	15.35	(14.65)	2,280	0.00
4/20/2004	15.46	(14.54)	2,370	0.00
4/21/2004	14.07	(15.93)	1,390	0.00
4/22/2004	13.77	(16.23)	1,200	0.00
4/23/2004	13.65	(16.35)	1,140	0.00
4/24/2004	13.54	(16.46)	1,080	0.00
4/25/2004	14.88	(15.12)	1,910	0.38
4/26/2004	15.21	(14.79)	2,160	1.24
4/27/2004	17.29	(12.71)	4,110	0.00
4/28/2004	16.07	(13.93)	2,900	0.00
4/29/2004	14.95	(15.05)	1,960	0.00
4/30/2004	14.28	(15.72)	1,510	0.00
Avg or Tot	15.71	(14.29)	2,825	4.75

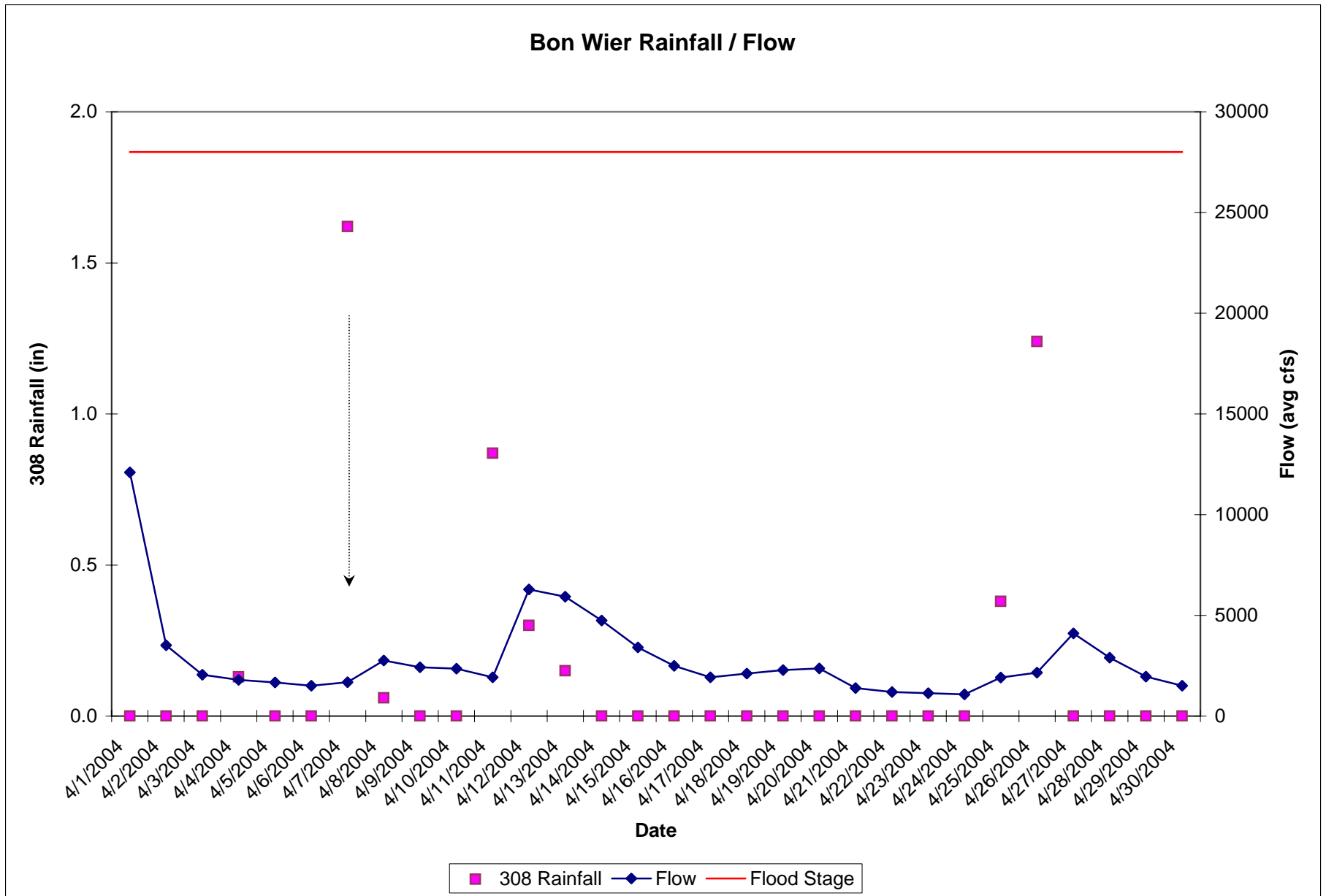
Units	Avg Feet	Avg Feet	Avg	Tot Inches
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FS: Flood Stage = 30 feet

Lower Sabine Basin Sampled on 4/7/2004

SABINE RIVER AUTHORITY OF TEXAS

April 2004



Lower Sabine Basin sampled on 4/7/2004

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

April 2004

Date	Gauge Height	GH - FS	Flow cfs	Flow acft	Flow avg	309 Rainfall
4/1/2004	23.68	(0.32)	14,800	29,355	14,800	OUT
4/2/2004	23.68	(0.32)	14,800	29,355	14,800	OUT
4/3/2004	23.60	(0.40)	14,100	27,967	14,567	OUT
4/4/2004	23.06	(0.94)	10,900	21,620	13,650	OUT
4/5/2004	21.36	(2.64)	6,480	12,853	12,216	OUT
4/6/2004	19.40	(4.60)	3,980	7,894	10,843	OUT
4/7/2004	18.43	(5.57)	3,200	6,347	9,751	OUT
4/8/2004	18.74	(5.26)	3,420	6,783	8,960	OUT
4/9/2004	19.41	(4.59)	3,990	7,914	8,408	OUT
4/10/2004	19.60	(4.40)	4,180	8,291	7,985	OUT
4/11/2004	19.37	(4.63)	3,950	7,835	7,618	OUT
4/12/2004	19.08	(4.92)	3,670	7,279	7,289	0.19
4/13/2004	20.69	(3.31)	5,540	10,988	7,155	0.04
4/14/2004	21.83	(2.17)	7,290	14,460	7,164	0.02
4/15/2004	22.29	(1.71)	8,310	16,483	7,241	0.01
4/16/2004	22.26	(1.74)	8,230	16,324	7,303	0.00
4/17/2004	21.51	(2.49)	6,720	13,329	7,268	0.00
4/18/2004	20.12	(3.88)	4,760	9,441	7,129	0.00
4/19/2004	19.11	(4.89)	3,700	7,339	6,948	OUT
4/20/2004	18.69	(5.31)	3,380	6,704	6,770	OUT
4/21/2004	18.38	(5.62)	3,170	6,288	6,599	OUT
4/22/2004	17.82	(6.18)	2,810	5,574	6,426	OUT
4/23/2004	17.00	(7.00)	2,320	4,602	6,248	OUT
4/24/2004	16.60	(7.40)	2,110	4,185	6,162	OUT
4/25/2004	16.45	(7.55)	2,030	4,026	5,997	0.42
4/26/2004	17.38	(6.62)	2,540	5,038	5,864	0.38
4/27/2004	18.74	(5.26)	3,420	6,783	5,773	0.01
4/28/2004	19.95	(4.05)	4,550	9,025	5,729	0.00
4/29/2004	20.26	(3.74)	4,960	9,838	5,703	0.00
4/30/2004	19.42	(4.58)	4,000	7,934	5,646	0.00
Avg or Tot	19.93	(4.07)	5,577	331,854		1.07

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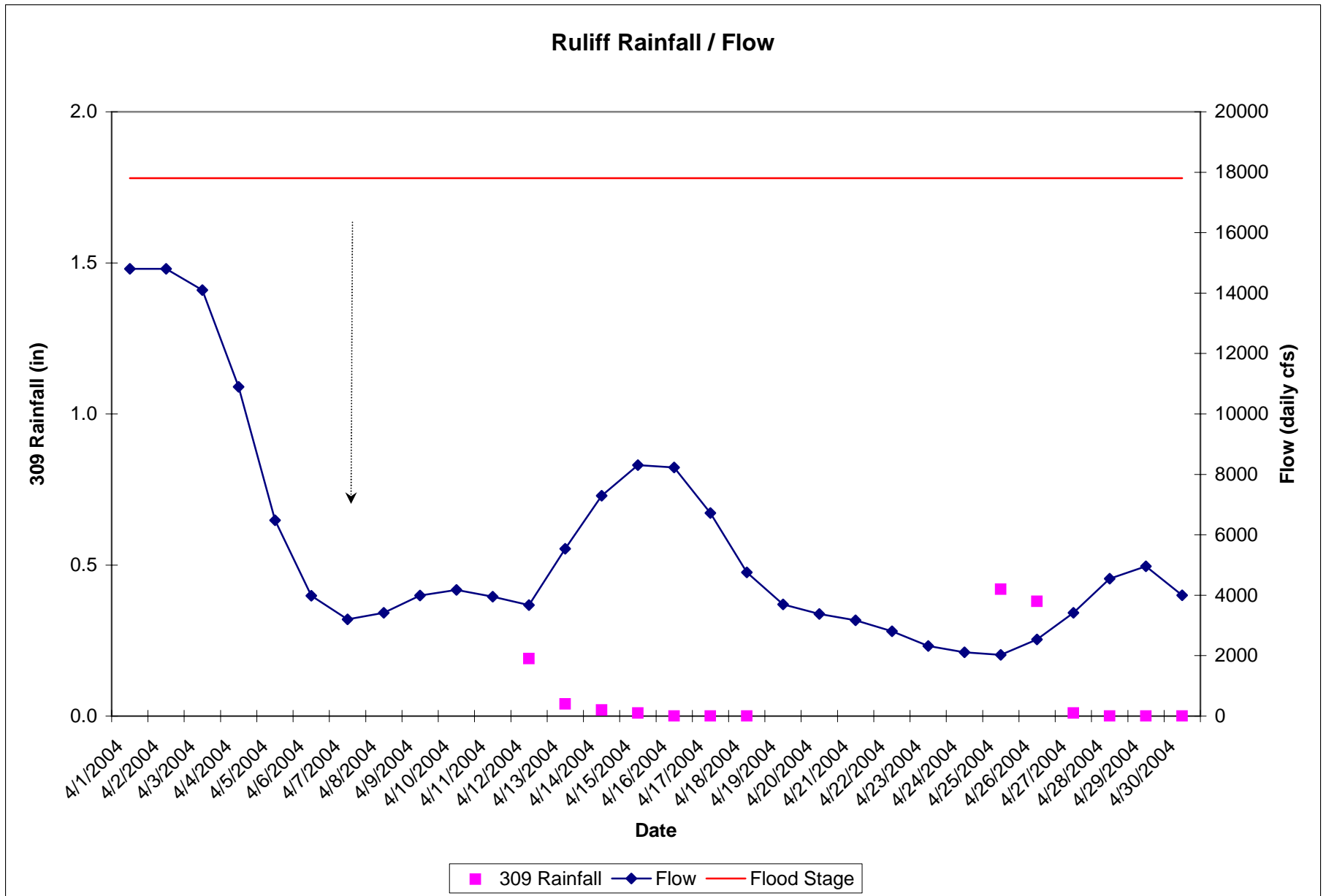
FS: Flood Stage 24 feet with 10 foot datum

OUT: Gage Out

Lower Sabine Basin Sampled on 4/7/2004

SABINE RIVER AUTHORITY OF TEXAS

April 2004



Lower Sabine Basin sampled on 4/7/2004

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

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FY 2004 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

April 2004

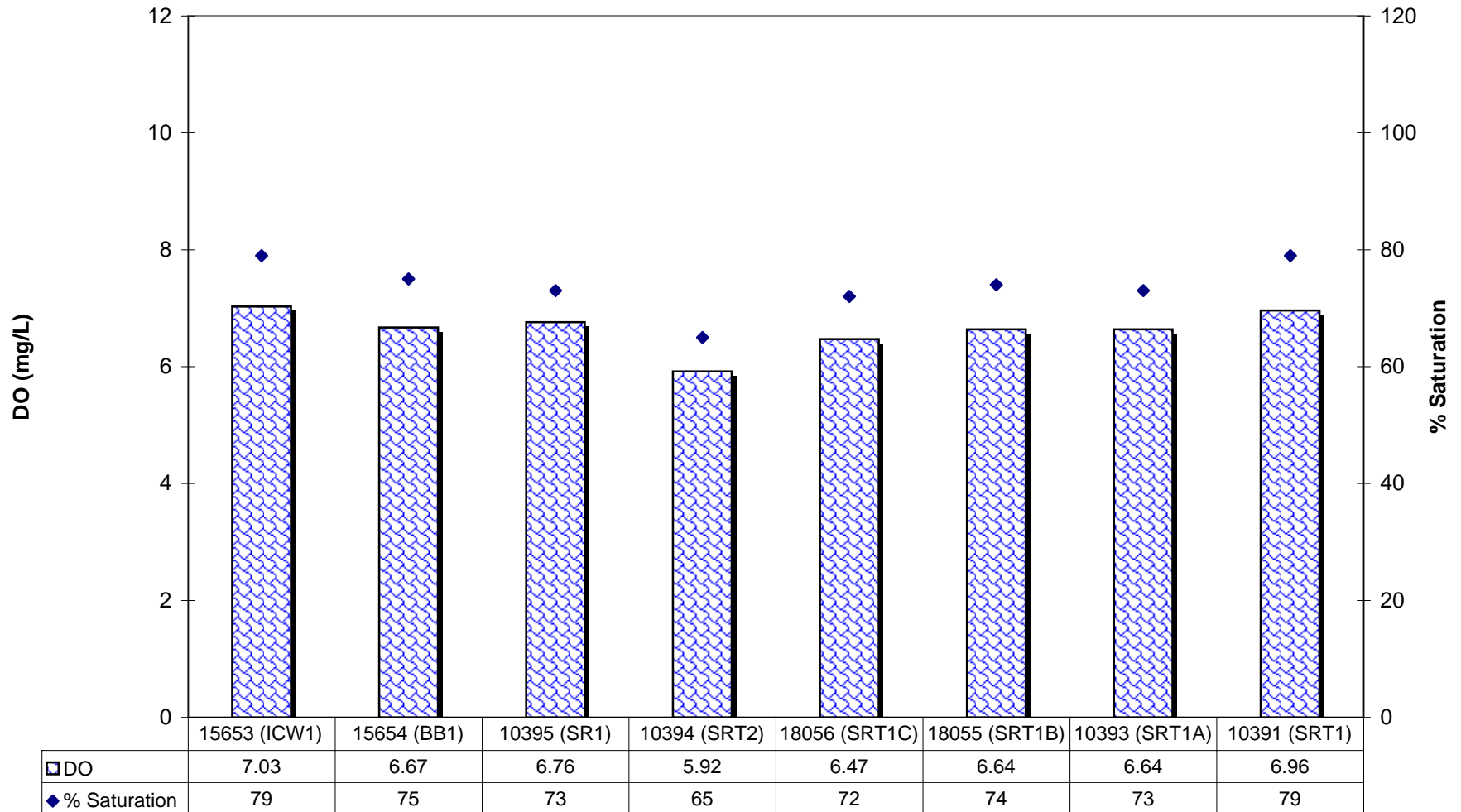
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	<i>Enterococcus</i> mpn/100ml 31701	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900
4/8/04 10:20 AM	1.05	15653 (ICW1)	21.4	6.97	7.03	79	1026	< 1	0.53	12.3	84	15	*	< 0.02	0.03	< 0.04	8	*	*
4/8/04 11:05 AM	1.01	15654 (BB1)	21.4	6.97	6.67	75	2975	2	0.58	12.2	111	33	*	< 0.02	0.04	0.04	7	*	*
4/8/04 9:20 AM	1.00	10395 (SR1)	20.3	7.03	6.76	73	204	*	0.31	28.9	23	*	*	< 0.02	0.06	< 0.04	8	*	*
4/8/04 9:45 AM	1.00	10394 (SRT2)	20	6.88	5.92	65	160	< 1	0.32	22.5	35	14	*	< 0.02	0.04	< 0.04	8	*	*
4/8/04 10:00 AM	1.00	18056 (SRT1C)	21.1	7.01	6.47	72	241	< 1	0.49	14.6	91	19	*	< 0.02	0.02	< 0.04	8	*	*
4/8/04 10:35 AM	1.00	18055 (SRT1B)	21	6.88	6.64	74	1072	< 1	0.52	11.8	72	21	*	< 0.02	0.04	< 0.04	8	*	*
4/8/04 10:45 AM	1.00	10393 (SRT1A)	20.8	6.93	6.64	73	1569	< 1	0.43	12	74	28	*	< 0.02	0.04	0.04	8	*	*
4/8/04 11:15 AM	1.00	10391 (SRT1)	21.7	6.99	6.96	79	2431	1	0.61	13.2	99	19	*	< 0.02	0.03	0.04	7	*	*

*: Not sampled on this run

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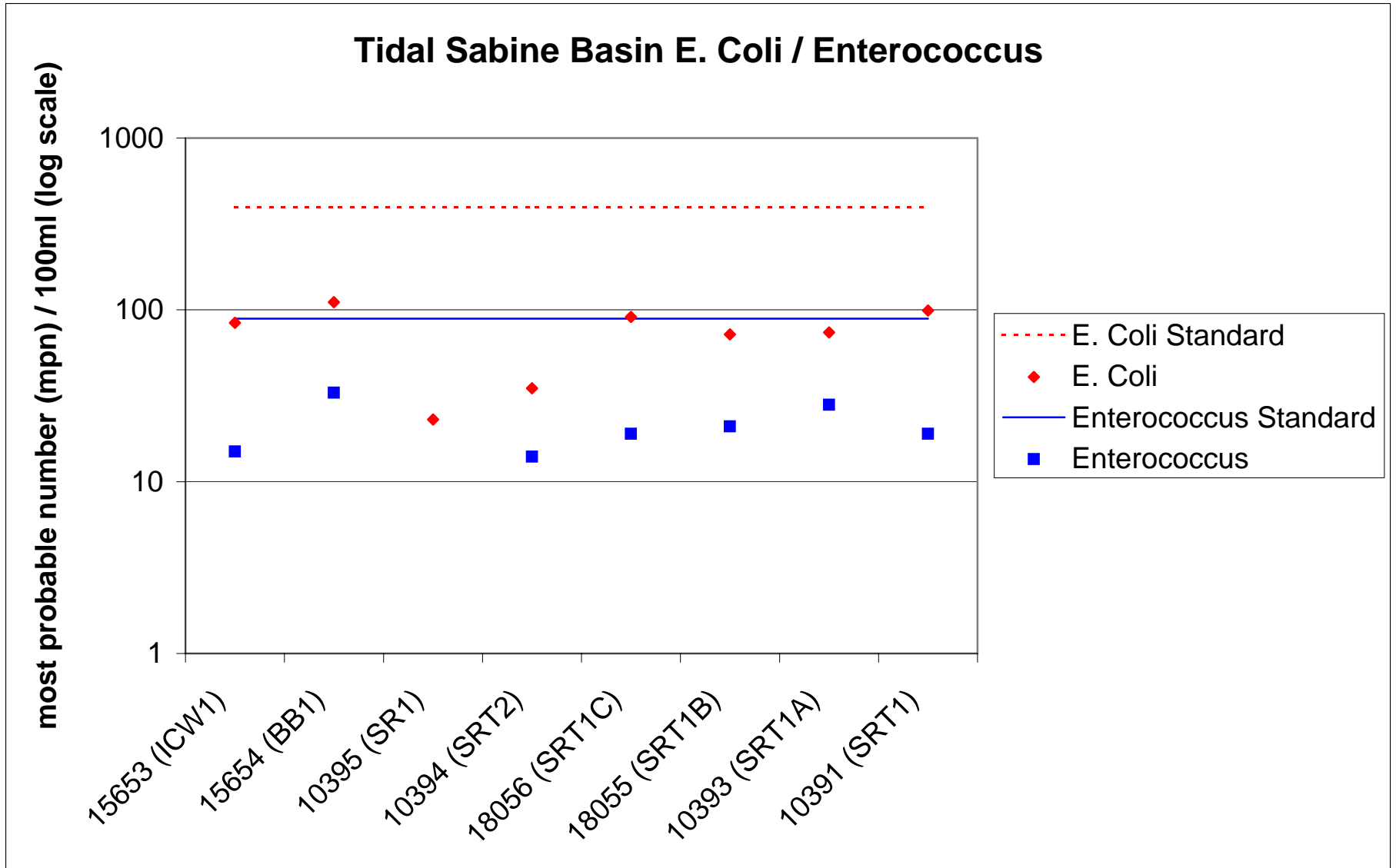
April 2004

Tidal Sabine Basin DO / % Saturation



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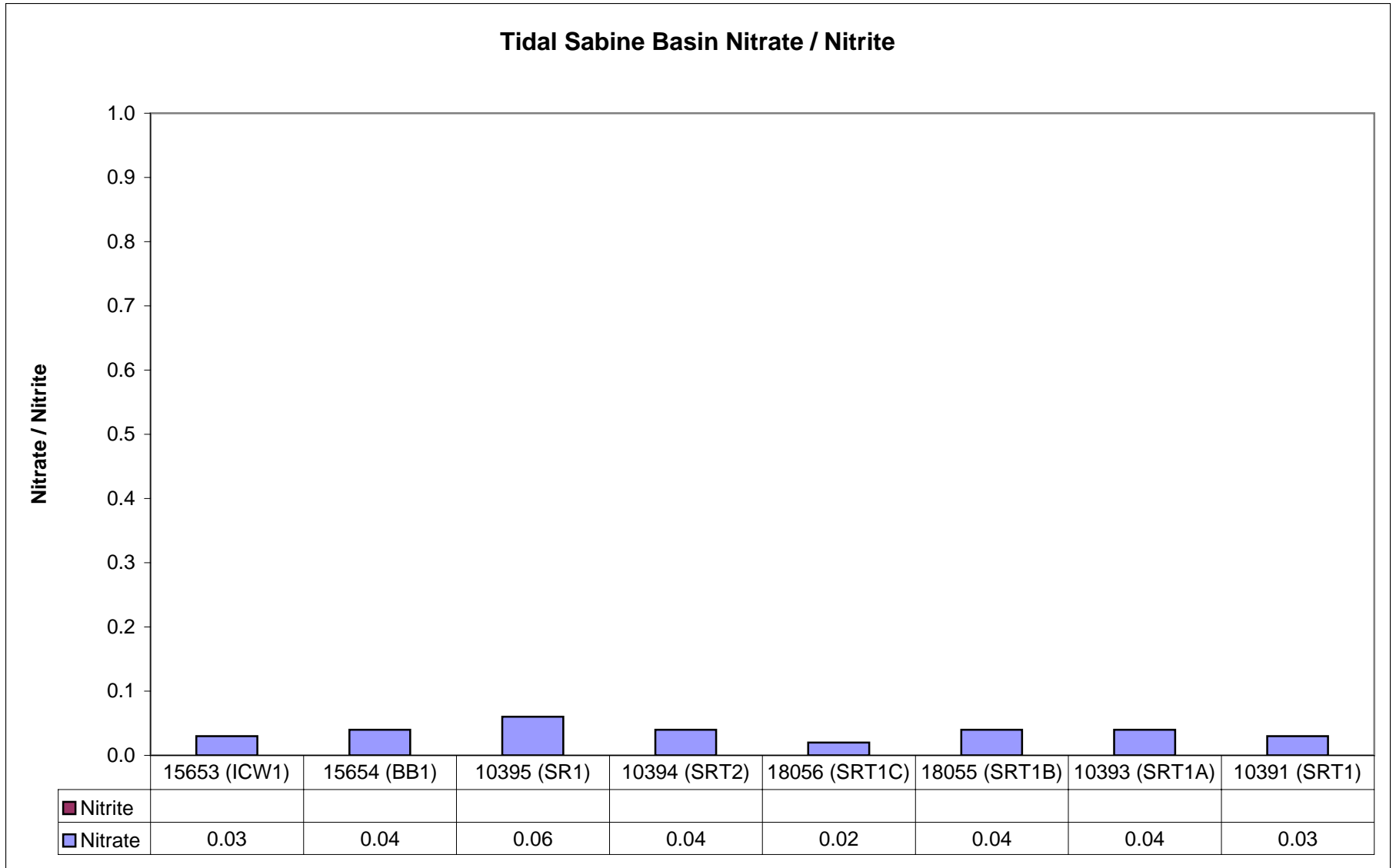
April 2004



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

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April 2004



Stations without values were below detection limit on this run (see page 38)

SABINE RIVER AUTHORITY OF TEXAS

Tidal Profiles

April 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
4/8/04 10:20 AM	1.05	15653 (ICW1)	0.3	21.4	6.97	7.03	79	1026	< 1
			5.3	21.4	6.93	6.92	78	1055	< 1
4/8/04 11:05 AM	1.01	15654 (BB1)	0.3	21.4	6.97	6.67	75	2975	2
			4.2	21.3	6.92	6.42	73	2984	2
4/8/04 9:45 AM	1.00	10394 (SRT2)	0.3	20	6.88	5.92	65	160	< 1
			7.3	19.9	6.76	5.63	62	160	< 1
4/8/04 10:00 AM	1.00	18056 (SRT1C)	0.3	21.1	7.01	6.47	72	241	< 1
			6	20.5	7.04	5.33	60	1437	< 1
			8	20.5	6.8	4.97	57	9960	5
			11.9	20.6	6.71	5.27	61	12060	7
4/8/04 10:35 AM	1.00	18055 (SRT1B)	0.3	21	6.88	6.64	74	1072	< 1
			5	20.9	7	5.88	67	1330	< 1
			7	20.5	7.07	5.42	62	4124	2
			10.4	20.6	6.93	5.1	59	13920	8
4/8/04 10:45 AM	1.00	10393 (SRT1A)	0.3	20.8	6.93	6.64	73	1569	< 1
			4	20.6	7	5.96	67	1864	1
			8	20.5	6.7	5.63	63	8599	5
4/8/04 11:15 AM	1.00	10391 (SRT1)	0.3	21.7	6.99	6.96	79	2431	1
			3.7	20.7	6.87	6.2	70	2852	2

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Orange Weather and River Data

April 2004

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
4/1/2004	OUT	OUT	OUT	76	45	51	0.00
4/2/2004	OUT	OUT	OUT	81	48	54	0.00
4/3/2004	OUT	OUT	OUT	79	51	51	0.00
4/4/2004	OUT	OUT	OUT	73	45	46	0.00
4/5/2004	OUT	OUT	OUT	75	44	45	0.00
4/6/2004	OUT	OUT	OUT	57	44	53	0.00
4/7/2004	OUT	OUT	OUT	68	49	52	0.64
4/8/2004	OUT	OUT	OUT	68	46	47	0.05
4/9/2004	OUT	OUT	OUT	79	57	57	0.00
4/10/2004	OUT	OUT	OUT	84	56	60	0.00
4/11/2004	OUT	OUT	OUT	85	60	63	0.38
4/12/2004	OUT	OUT	OUT	85	53	53	0.37
4/13/2004	OUT	OUT	OUT	56	44	44	0.19
4/14/2004	OUT	OUT	OUT	67	42	42	0.00
4/15/2004	OUT	OUT	OUT	73	42	47	0.00
4/16/2004	OUT	OUT	OUT	74	47	56	0.00
4/17/2004	OUT	OUT	OUT	79	55	62	0.00
4/18/2004	OUT	OUT	OUT	80	59	60	0.00
4/19/2004	OUT	OUT	OUT	80	61	64	0.00
4/20/2004	OUT	OUT	OUT	80	62	67	0.00
4/21/2004	OUT	OUT	OUT	79	67	67	0.00
4/22/2004	OUT	OUT	OUT	80	66	73	0.00
4/23/2004	OUT	OUT	OUT	83	66	74	0.00
4/24/2004	OUT	OUT	OUT	83	73	73	0.00
4/25/2004	OUT	OUT	OUT	77	66	67	0.21
4/26/2004	OUT	OUT	OUT	78	62	63	0.70
4/27/2004	OUT	OUT	OUT	80	54	55	0.00
4/28/2004	OUT	OUT	OUT	82	52	53	0.00
4/29/2004	OUT	OUT	OUT	80	52	69	0.00
4/30/2004	OUT	OUT	OUT	84	69	72	0.00
Avg or Tot	OUT	OUT	OUT	77	55	58	2.54

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

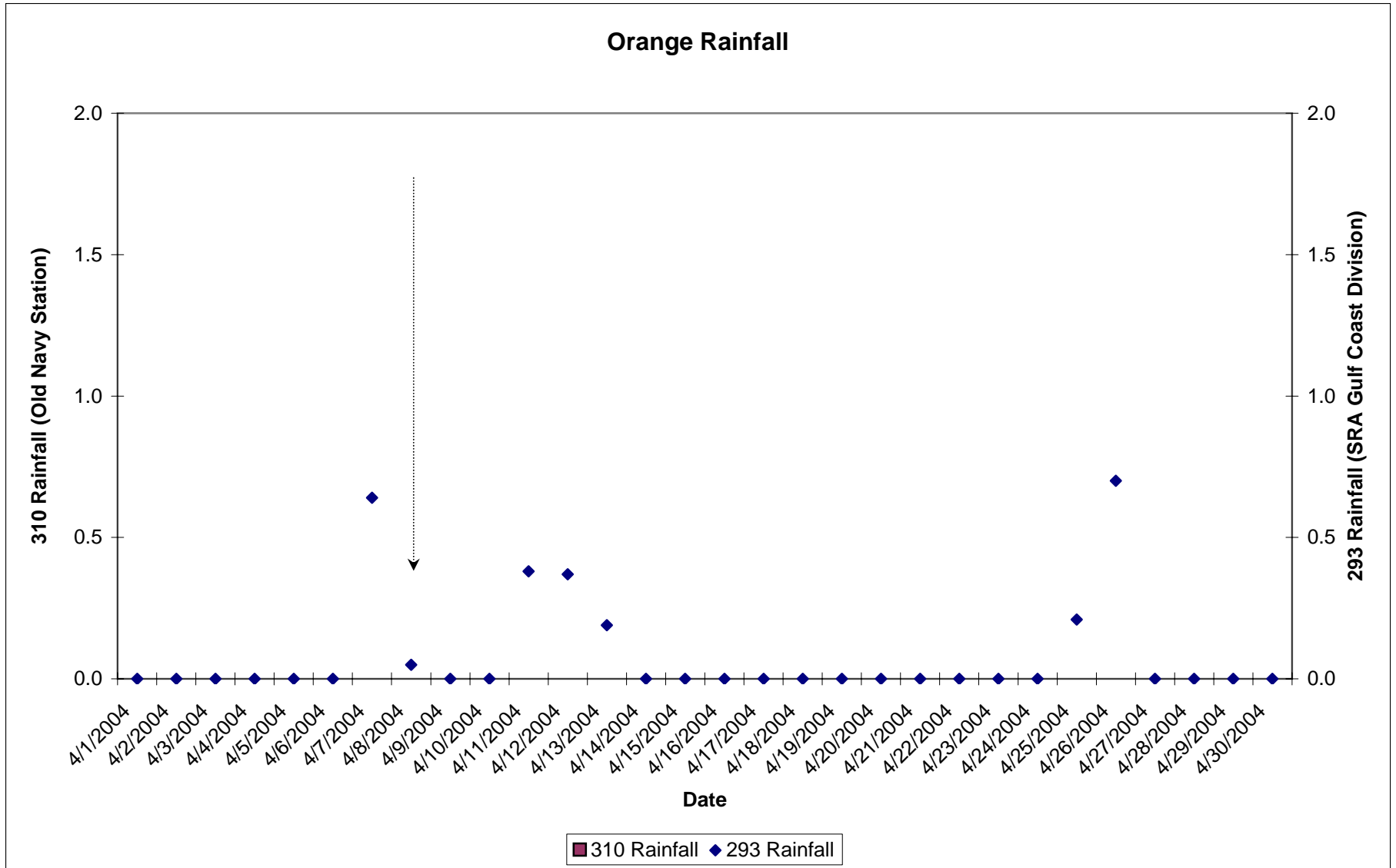
FS: Flood Stage = 4 Feet

OUT: Gage Out

Tidal Sabine Basin Sampled on 4/8/2004

SABINE RIVER AUTHORITY OF TEXAS

April 2004



Tidal Sabine Basin Sampled on 4/8/2004