
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Report for May 2004. Water quality sampling was performed May 10th through May 13th. Recent weather (previous seven days) in the Sabine River Basin was mild, with daytime high air temperatures from the mid 70s to the mid 80s at Lake Tawakoni and at Lake Fork. Toledo Bend Reservoir and Orange had daytime highs from the low 70s to the upper 80s. Lows ranged from the low 50s to the mid 60s at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the low 50s to the mid 70s. Lake Tawakoni and Lake Fork exhibited thermal stratification. During the 28 days prior to the May sample run, the Upper Basin received 5.53 and 5.88 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 11.65 and 8.96 inches, respectively, during the 28 days preceding the sample run.

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

For the May sample run, most water quality parameter measurements at Upper Basin sites were consistent with water of high quality. SR17, SR16, SR15, and SR14 did not meet stream standards numeric criteria for dissolved oxygen. The LT23D nitrate plus nitrite result was above nutrient screening levels and LT23A, LT23D, LT23C had high levels of dissolved oxygen with greater than 100 percent dissolved oxygen saturation. LT23C and LT23D also exceeded screening criteria for chlorophyll *a*, indicating algal activity.

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

The May monthly sampling results were indicative of water of high quality at most sites. The upper part of the Lower Sabine Basin received no significant rainfall in the seven days prior to the sample run, but the lower portion received more than three inches of heavy rainfall during sampling. The level of Toledo Bend Reservoir was recorded at 172.31 feet with no discharge from the spillway, but both generators were operating at the time of sampling. All reservoir stations were thermally stratified with pH and dissolved oxygen differences throughout the water column. Above normal pH values were recorded at stations TB6LN and TB6K, but these stations were supersaturated with dissolved oxygen at the surface indicating an algal bloom. Stations BA4, TB6S, SR5, and BCC1 had high bacterial counts, but these areas were sampled after very heavy rains which caused significant runoff.

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 over four and a half inches 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. No salinity values were recorded at any of the tidal stations due to the heavy rainfall. Bacterial counts were high at all but one of the tidal stations as a result of the recent heavy rains the area received.

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

May 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

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Upper Sabine Basin Report

May 2004

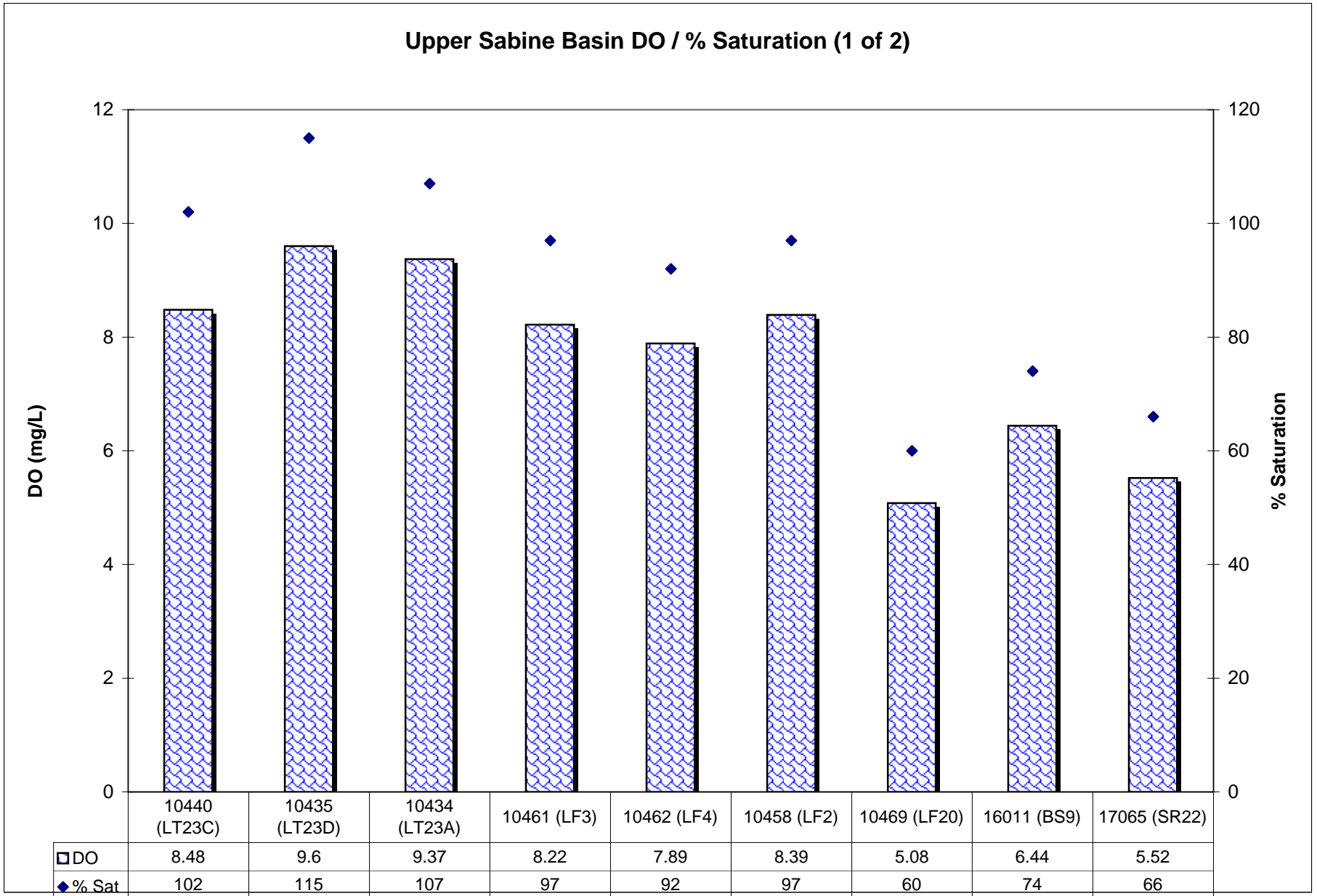
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	E. coli mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho-Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
5/11/04 11:20 AM	7.00	10440 (LT23C)	23.8	8.54	8.48	102	190	*	0.64	11.6	2	34	< 0.02	< 0.02	< 0.04	6	70	68	< 10	12.1
5/11/04 10:32 AM	7.00	10435 (LT23D)	23.4	8.74	9.6	115	201	*	0.62	12.7	< 1	108	0.03	0.29	< 0.04	7	80	72	< 10	14
5/11/04 9:43 AM	7.00	10434 (LT23A)	21	8.23	9.37	107	188	*	1.26	5.35	< 1	19	< 0.02	0.21	< 0.04	5	70	68	< 10	12.2
5/11/04 8:36 AM	6.12	10461 (LF3)	23.1	7.38	8.22	97	160	*	1.39	3.32	< 1	16	< 0.02	< 0.02	0.04	7	30	36	14.4	21.8
5/11/04 8:55 AM	6.12	10462 (LF4)	22.3	7.27	7.89	92	159	*	1.6	3.06	9	6	< 0.02	< 0.02	< 0.04	5	30	36	13.8	23.4
5/11/04 8:00 AM	6.12	10458 (LF2)	21.6	7.38	8.39	97	158	*	1.86	2.29	< 1	*	< 0.02	< 0.02	< 0.04	6	30	36	14	22.1
5/11/04 1:37 PM	6.10	10469 (LF20)	23	6.53	5.08	60	259	*	0.43	26	38	*	< 0.02	0.12	< 0.04	11	30	60	33	36.6
5/12/04 6:30 AM	6.02	16011 (BS9)	21.7	6.52	6.44	74	162	*	0.54	12.9	48	*	< 0.02	0.2	< 0.04	11	20	36	18.8	20.3
5/11/04 12:34 PM	6.00	17065 (SR22)	23.2	7.06	5.52	66	378	*	0.28	46.9	104	*	< 0.02	0.25	0.1	10	60	96	< 10	55.4
5/11/04 1:12 PM	6.00	10430 (SR21)	23.2	6.85	5.82	69	404	*	0.29	44.9	59	*	0.02	0.21	0.07	11	50	100	55.6	63
5/11/04 2:02 PM	6.00	10429 (SR19)	22.9	6.64	5.39	64	250	*	0.34	51.3	33	*	< 0.02	0.12	< 0.04	12	40	60	29.6	31.7
5/12/04 7:07 AM	5.00	10428 (SR17)	22.1	6.48	4.35	51	206	*	0.36	32.8	47	*	< 0.02	0.11	< 0.04	13	40	52	22.4	23.6
5/12/04 7:40 AM	5.00	10427 (SR16)	22	6.47	4.14	48	203	*	0.36	47.9	70	*	< 0.02	0.08	0.06	13	30	48	23.6	22.5
5/12/04 8:10 AM	5.00	10426 (SR15)	22.1	6.52	4.39	51	203	*	0.37	33.2	147	*	< 0.02	0.08	0.08	13	30	48	24.3	22.2
5/12/04 8:42 AM	5.00	10423 (SR14)	22.1	6.56	4.74	55	203	*	0.38	34.6	285	*	< 0.02	0.14	< 0.04	12	30	44	22.6	21.3
5/12/04 10:02 AM	5.00	13628 (SR11)	22.1	6.73	5.86	68	196	*	0.39	50.1	42	*	< 0.02	0.19	< 0.04	11	30	44	22	23.9
5/12/04 10:50 AM	5.00	10415 (SR10)	22.3	6.72	6.09	71	189	*	0.32	63.8	78	*	< 0.02	0.16	< 0.04	11	30	40	21.6	24

*: Not sampled on this run

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May 2004

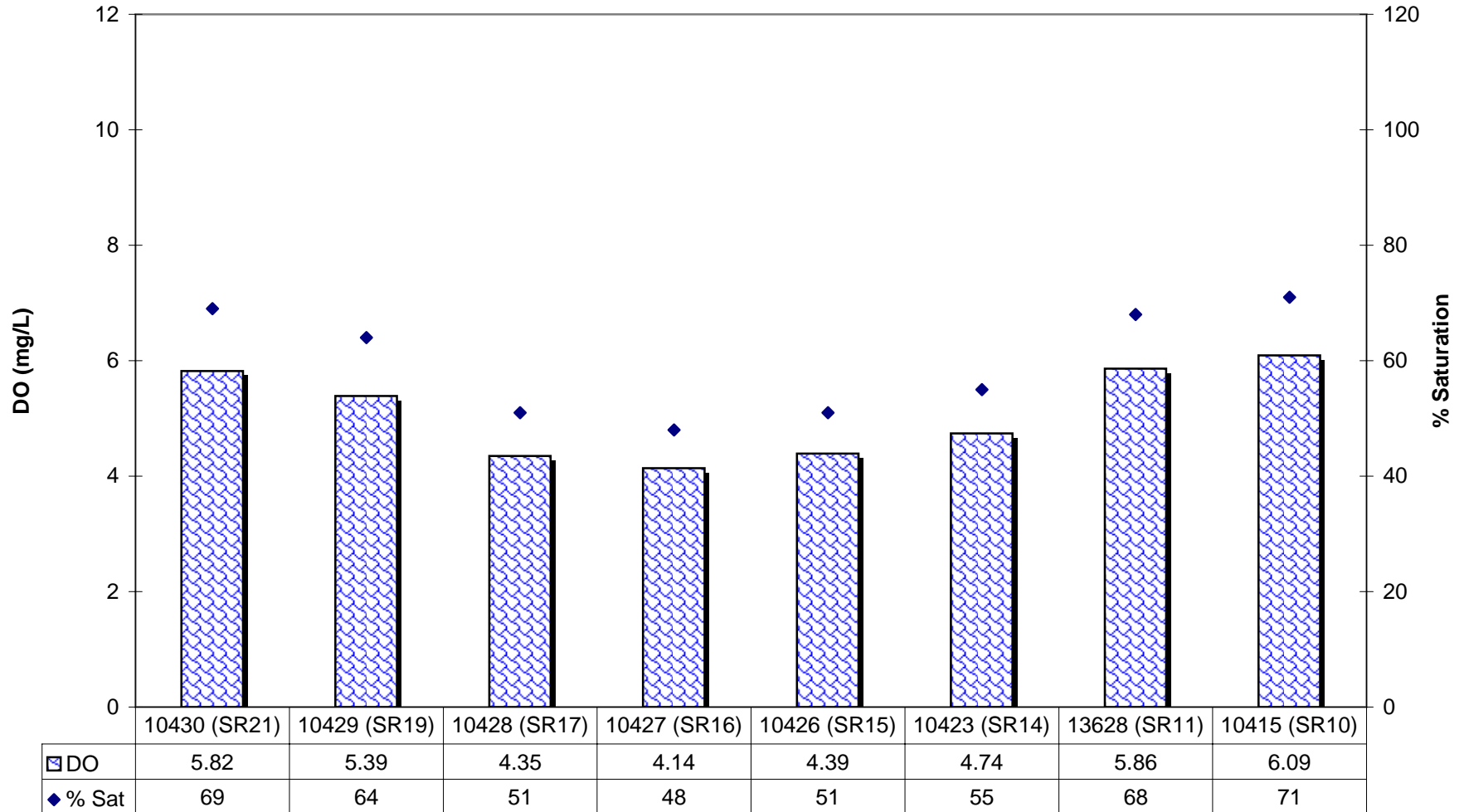
Upper Sabine Basin DO / % Saturation (1 of 2)



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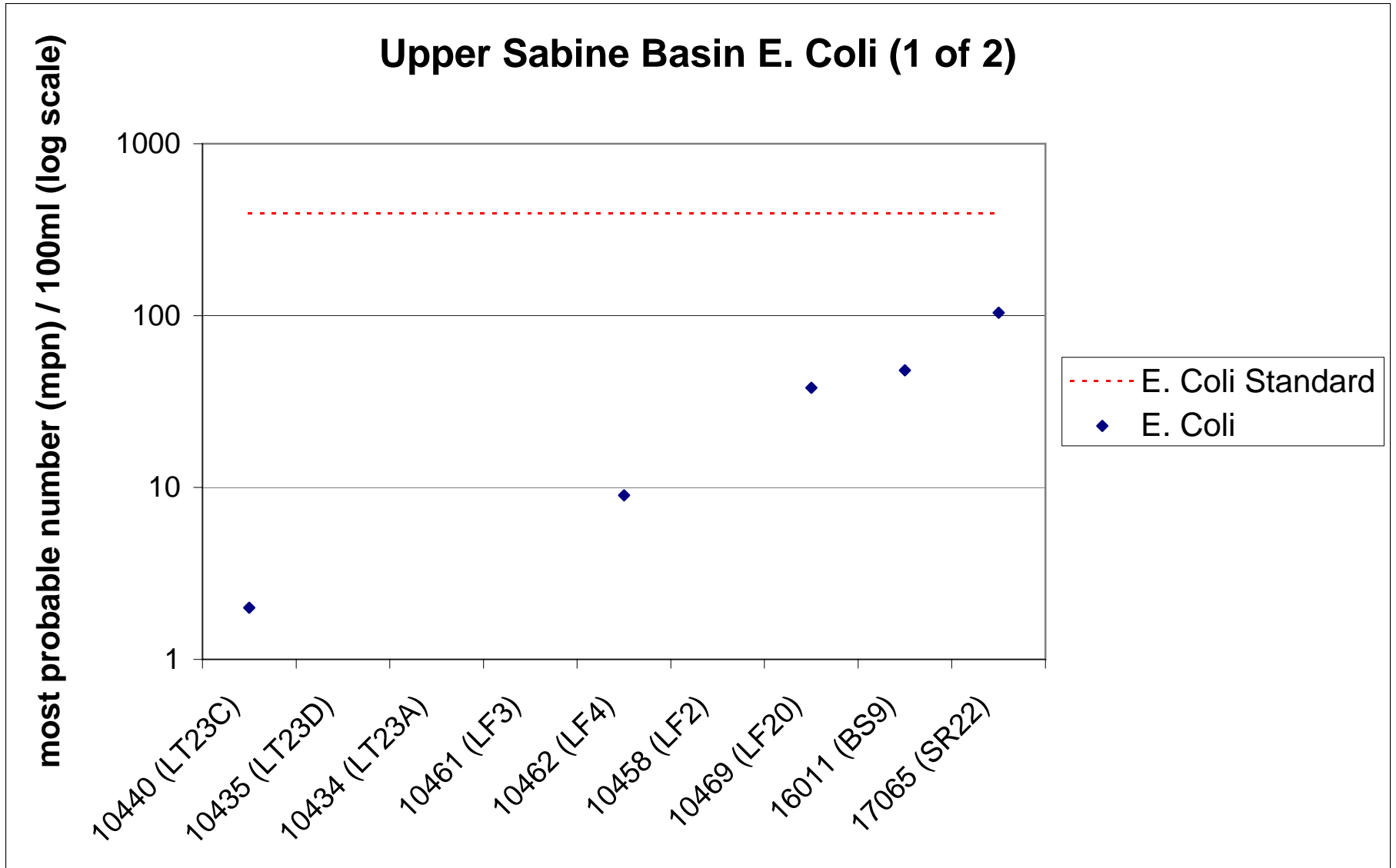
May 2004

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



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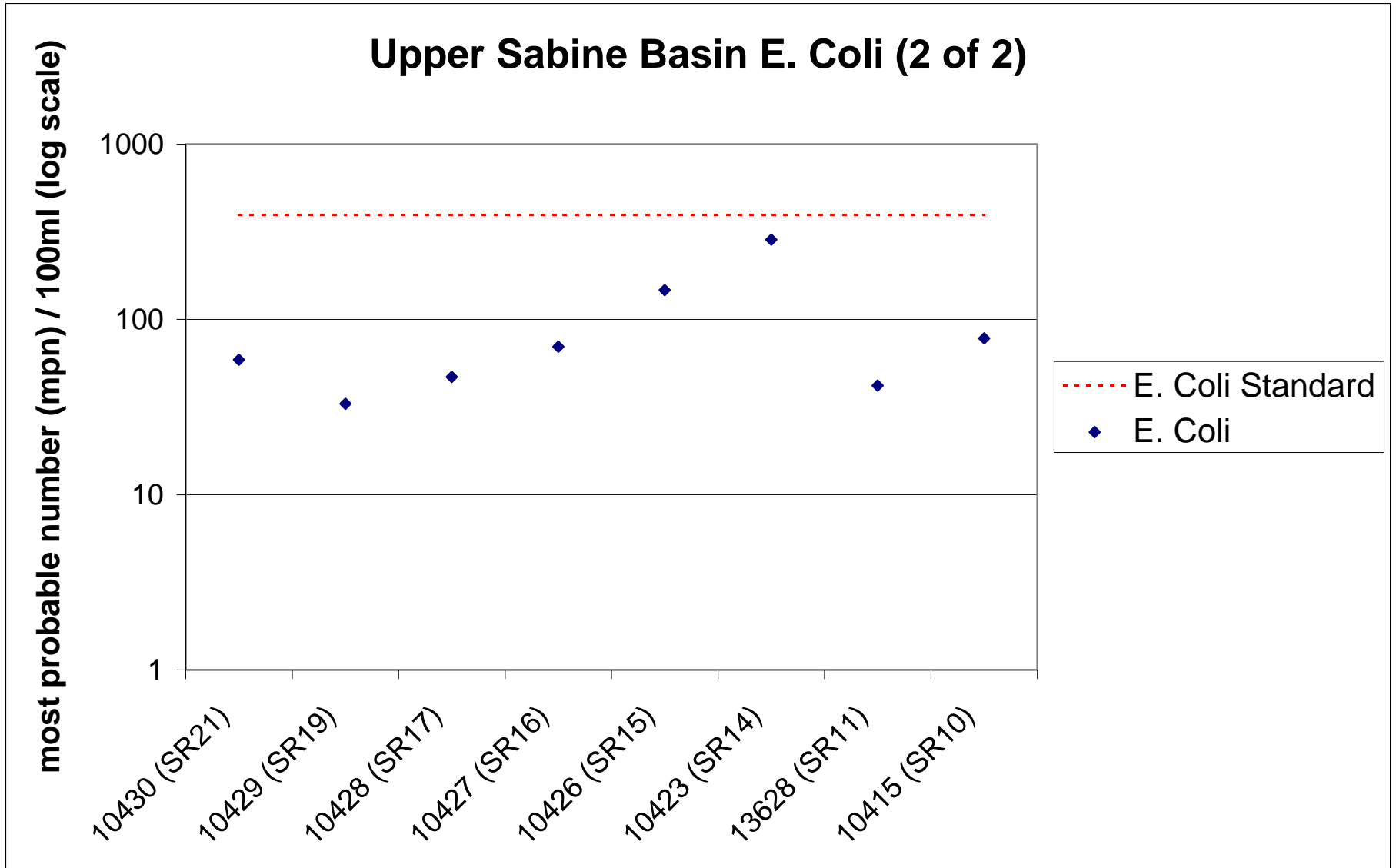
May 2004



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

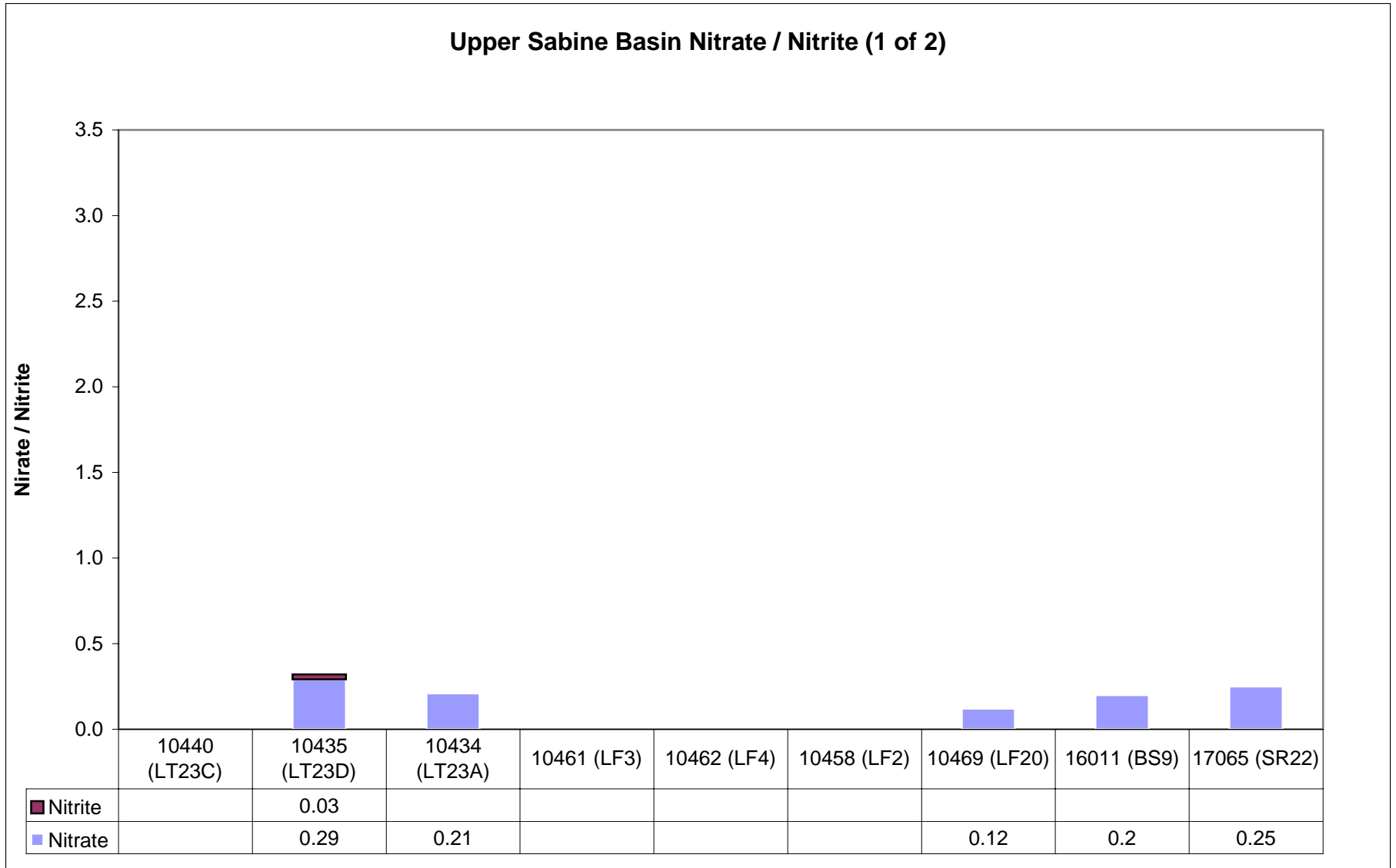
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May 2004



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May 2004

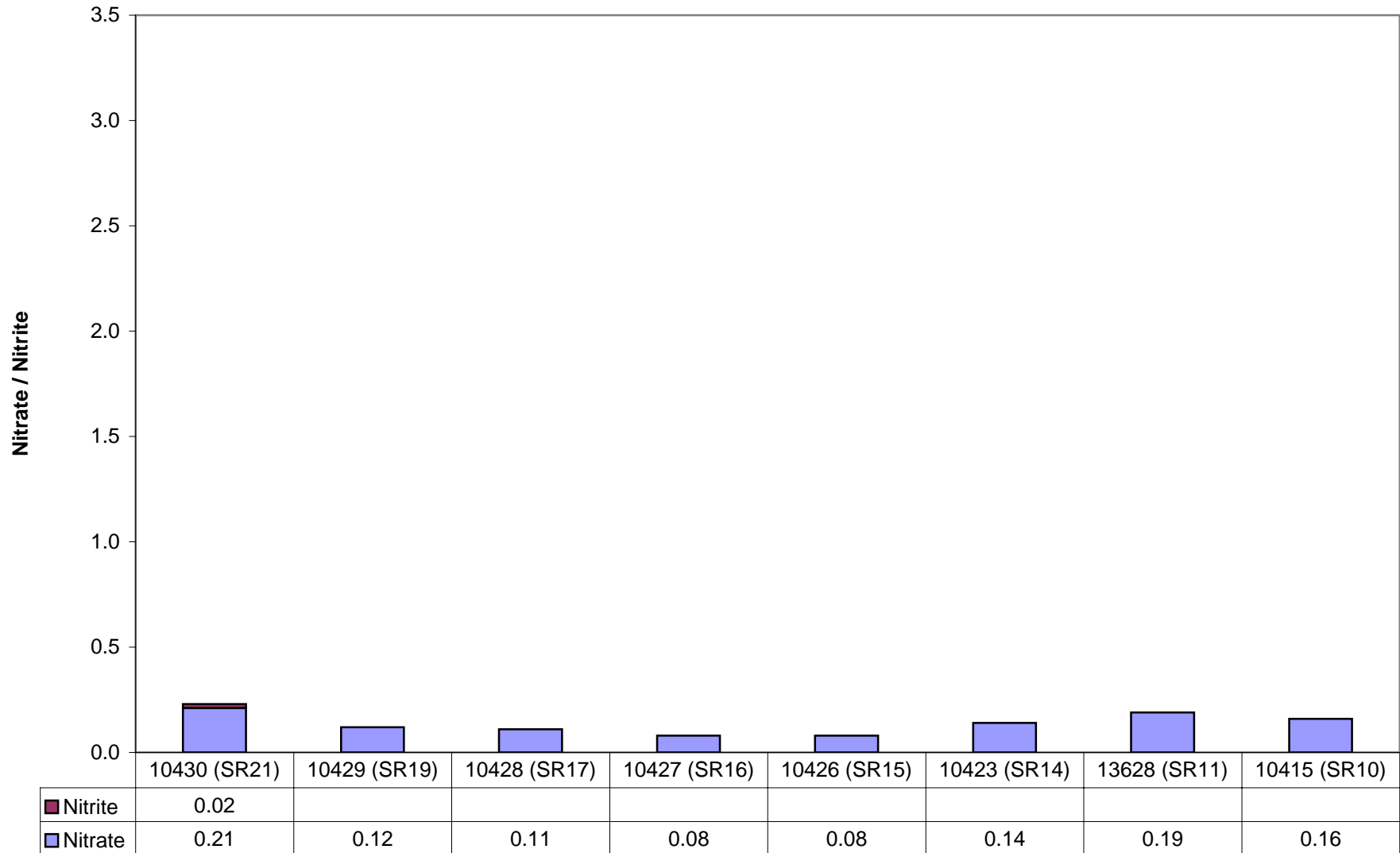


Stations without values below detection limit (< 0.02 mg/L) on this run (see page 2)

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May 2004

Lower Sabine Basin Nitrate / Nitrite (2 of 2)



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

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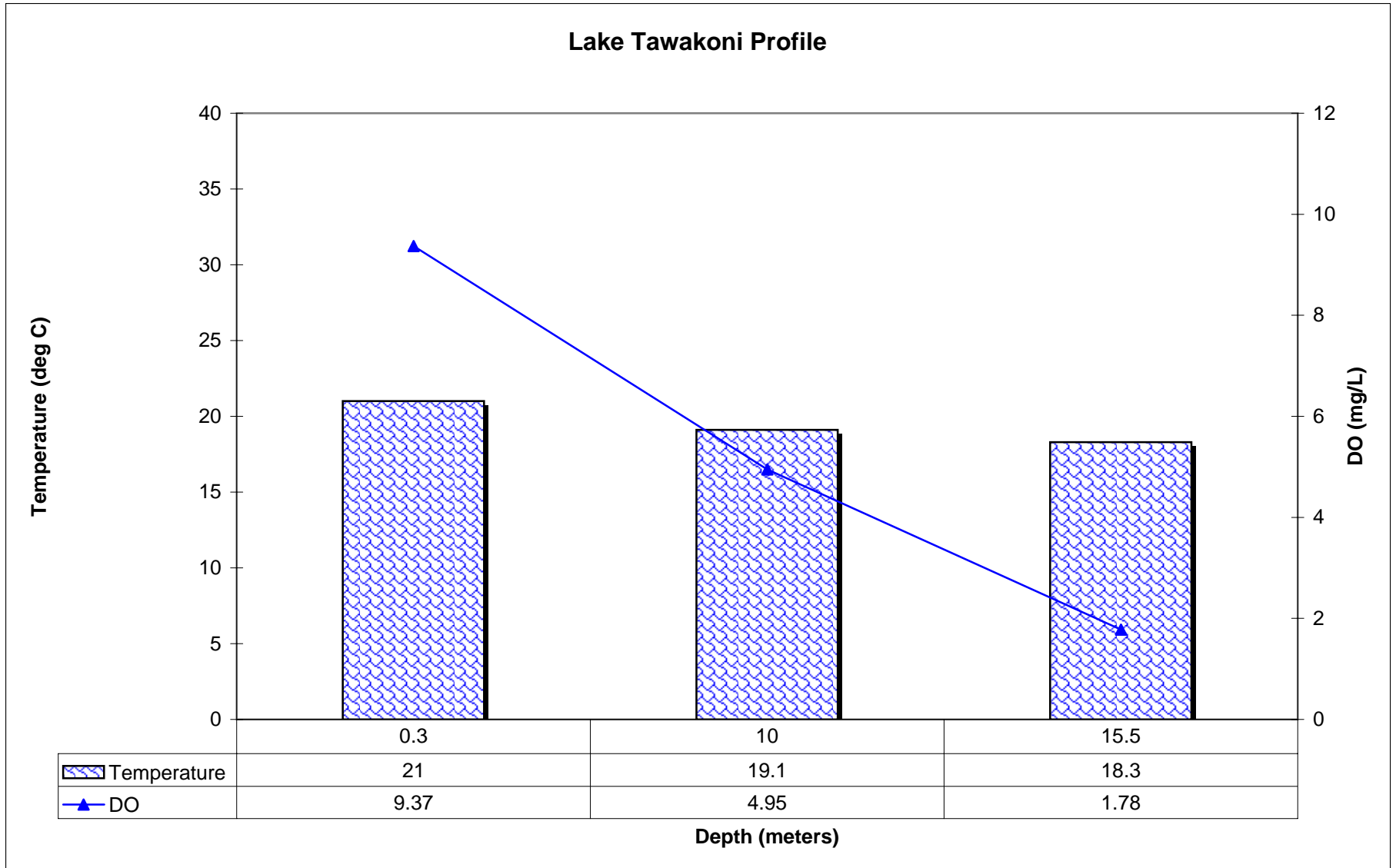
Upper Basin Profiles

May 2004

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
5/11/04 11:20 AM	7.00	10440 (LT23C)	0.3	23.8	8.54	8.48	102	190
			2.2	23.4	8.47	8.21	97	190
			4.1	23.1	8.06	6.72	80	192
5/11/04 10:32 AM	7.00	10435 (LT23D)	0.3	23.4	8.74	9.6	115	201
			4.9	22.3	8.22	8.19	96	193
			7.51	21.9	7.51	5.71	66	195
5/11/04 9:43 AM	7.00	10434 (LT23A)	0.3	21	8.23	9.37	107	188
			10	19.1	7.17	4.95	54	197
			15.5	18.3	6.93	1.78	19	190
5/11/04 8:36 AM	6.12	10461 (LF3)	0.3	23.1	7.38	8.22	97	160
			7	22.3	6.94	6.35	75	169
			9.8	20.1	6.57	0.44	5	172
5/11/04 8:55 AM	6.12	10462 (LF4)	0.3	22.3	7.27	7.89	92	159
			8.1	22	6.93	6.63	77	163
			10.8	19.8	6.57	2.62	29	170
5/11/04 8:00 AM	6.12	10458 (LF2)	0.3	21.6	7.38	8.39	97	158
			10	18.9	6.66	5.24	57	162
			18	12.8	6.51	0.15	1	178

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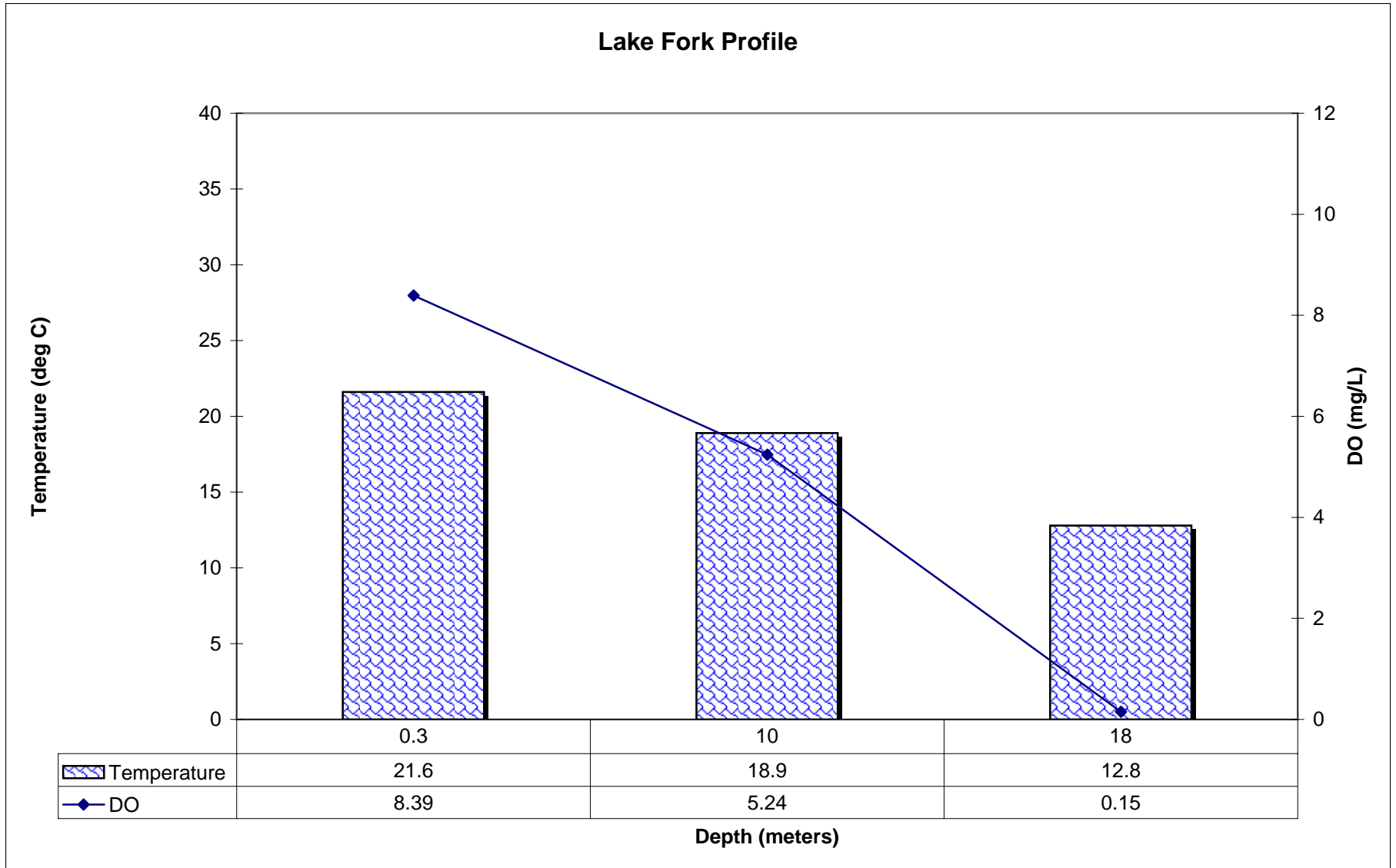
May 2004



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

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May 2004



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Lake Tawakoni Weather and Reservoir Data

May 2004

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
5/1/2004	437.05	(0.45)	5	80	55	2.66	0.00
5/2/2004	437.23	(0.27)	5	57	43	0.17	0.07
5/3/2004	437.25	(0.25)	5	71	43	0.00	0.28
5/4/2004	437.24	(0.26)	5	74	52	0.00	0.29
5/5/2004	437.24	(0.26)	5	80	58	0.00	0.35
5/6/2004	437.23	(0.27)	5	79	60	0.00	0.27
5/7/2004	437.22	(0.28)	5	80	60	0.00	0.31
5/8/2004	437.21	(0.29)	5	82	62	0.00	0.20
5/9/2004	437.21	(0.29)	5	78	66	0.00	0.24
5/10/2004	437.20	(0.30)	5	81	63	0.00	0.23
5/11/2004	437.19	(0.31)	5	80	64	0.00	0.20
5/12/2004	437.19	(0.31)	5	80	68	0.10	0.20
5/13/2004	437.18	(0.32)	5	85	68	0.00	0.24
5/14/2004	437.20	(0.30)	5	74	62	0.00	0.14
5/15/2004	437.16	(0.34)	5	69	54	0.00	0.14
5/16/2004	437.13	(0.37)	5	77	56	0.00	0.18
5/17/2004	437.13	(0.37)	5	81	62	0.00	0.20
5/18/2004	437.11	(0.39)	5	85	69	0.00	0.30
5/19/2004	437.09	(0.41)	5	86	71	0.00	0.28
5/20/2004	437.09	(0.41)	5	85	71	0.00	0.38
5/21/2004	437.06	(0.44)	5	87	67	0.00	0.31
5/22/2004	437.04	(0.46)	5	86	68	0.00	0.39
5/23/2004	437.04	(0.46)	5	85	72	0.00	0.25
5/24/2004	437.02	(0.48)	5	82	71	0.00	0.37
5/25/2004	436.98	(0.52)	5	85	71	0.00	0.22
5/26/2004	437.01	(0.49)	5	81	72	0.00	0.14
5/27/2004	436.97	(0.53)	5	85	71	0.00	0.32
5/28/2004	437.00	(0.50)	5	87	70	0.46	0.27
5/29/2004	436.99	(0.51)	5	86	70	0.00	0.31
5/30/2004	436.96	(0.54)	5	88	74	0.00	0.33
5/31/2004	437.10	(0.40)	5	89	66	1.46	0.00
Avg or Tot	437.12	(0.38)	5	81	64	4.85	7.41

	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.				

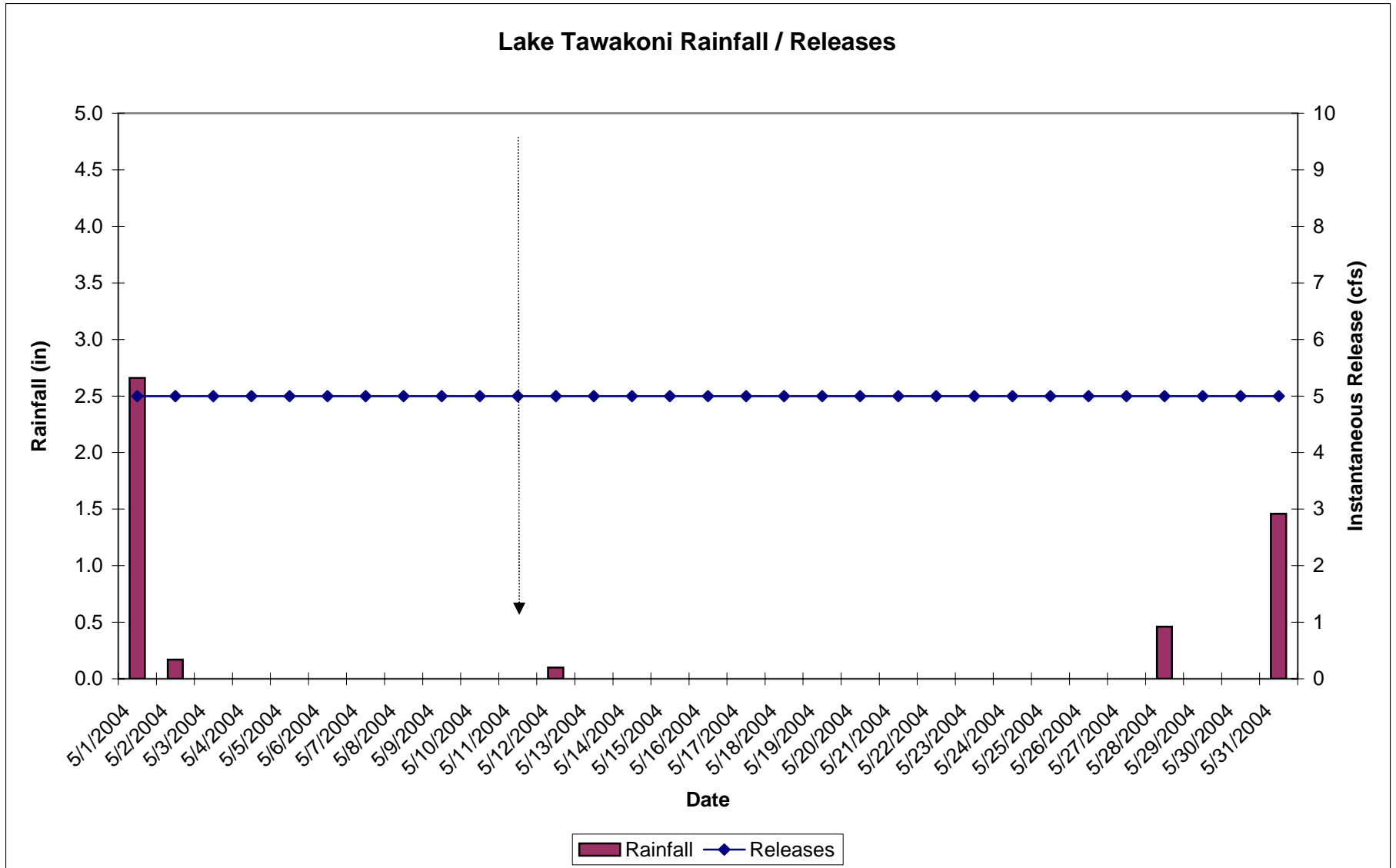
TOP: Top of Pool = 437.5 Feet M.S.L.

FZ: Gage Frozen

Lake Tawakoni Sampled on 5/11/2004

SABINE RIVER AUTHORITY OF TEXAS

May 2004



Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

May 2004

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
5/1/2004	403.01	0.01	8	8	82	56	2.43	0.27
5/2/2004	403.58	0.58	8	3,527	60	46	0.25	0.00
5/3/2004	403.43	0.43	3,527	3,509	74	46	0.00	0.34
5/4/2004	403.24	0.24	3,509	2,084	78	50	0.00	0.29
5/5/2004	403.09	0.09	2,084	8	84	58	0.00	0.33
5/6/2004	403.09	0.09	8	8	82	58	0.00	0.24
5/7/2004	403.08	0.08	8	8	84	60	0.00	0.28
5/8/2004	403.06	0.06	8	8	84	62	0.00	0.37
5/9/2004	403.06	0.06	8	8	82	64	0.00	0.18
5/10/2004	403.05	0.05	8	8	84	60	0.00	0.39
5/11/2004	403.04	0.04	8	8	84	62	0.00	0.37
5/12/2004	403.07	0.07	8	8	84	66	0.25	0.23
5/13/2004	403.07	0.07	8	8	88	66	0.00	0.30
5/14/2004	403.08	0.08	8	8	80	60	0.07	0.17
5/15/2004	403.07	0.07	8	8	72	56	0.00	0.12
5/16/2004	403.03	0.03	8	8	80	56	0.00	0.20
5/17/2004	403.00	0.00	8	8	84	60	0.00	0.25
5/18/2004	402.99	(0.01)	8	8	88	66	0.00	0.23
5/19/2004	402.97	(0.03)	8	8	90	68	0.00	0.36
5/20/2004	402.95	(0.05)	8	8	90	68	0.00	0.23
5/21/2004	402.95	(0.05)	8	8	90	68	0.00	0.30
5/22/2004	402.94	(0.06)	8	8	88	70	0.00	0.36
5/23/2004	402.92	(0.08)	8	8	88	70	0.00	0.41
5/24/2004	402.91	(0.09)	8	8	88	70	0.00	0.29
5/25/2004	402.89	(0.11)	8	8	88	72	0.00	0.23
5/26/2004	402.87	(0.13)	8	8	84	70	0.00	0.14
5/27/2004	402.87	(0.13)	8	8	88	70	0.00	0.31
5/28/2004	402.91	(0.09)	8	8	88	70	0.35	0.41
5/29/2004	402.88	(0.12)	8	8	90	68	0.00	0.28
5/30/2004	402.87	(0.13)	8	8	90	70	0.00	0.28
5/31/2004	402.96	(0.04)	8	8	90	66	0.59	0.32
Avg or Tot	403.03	0.03	301	301	84	63	3.94	8.48

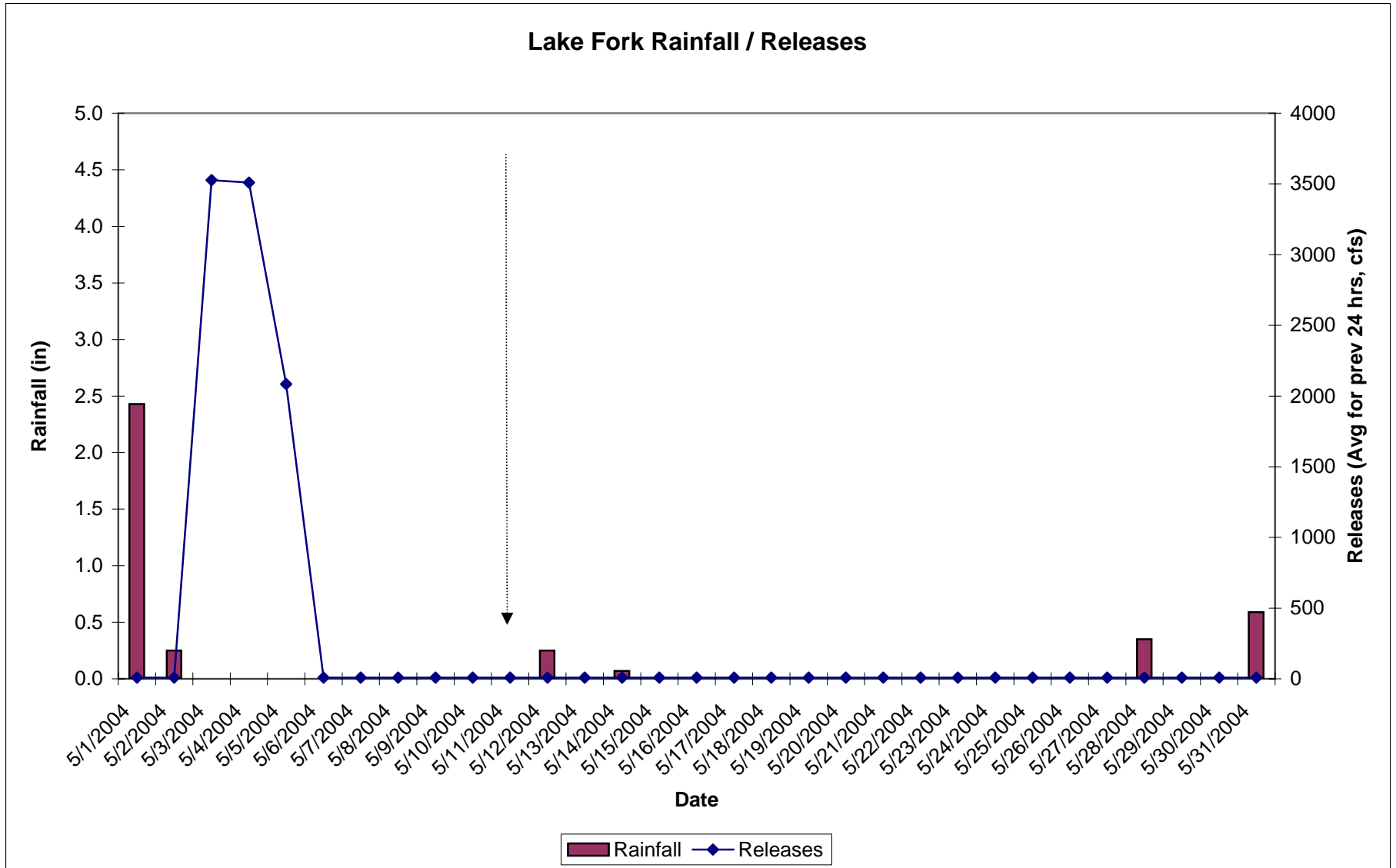
	Avg	Avg	Avg		Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	cfs	Deg F	Deg F	Inches	Inches
			Previous 24 hrs					

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

Lake Fork Sampled on 5/11/2004

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May 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.

SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Report

May 2004

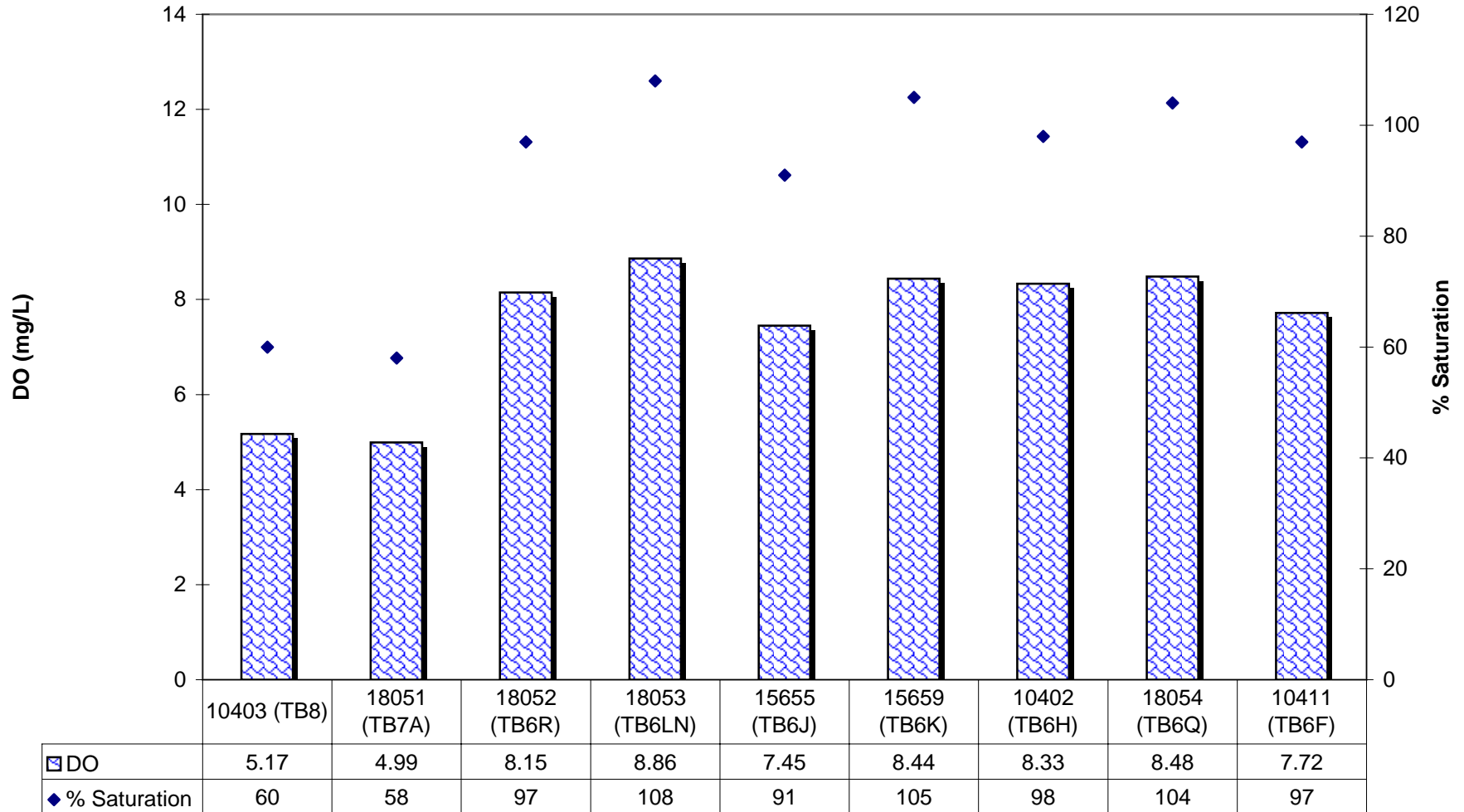
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
5/12/04 11:30 AM	4.00	10403 (TB8)	22.1	6.56	5.17	60	177	*	0.37	33.8	41	*	< 0.02	0.15	0.05	12	30	40	19.9	21.9
5/12/04 12:10 PM	4.00	18051 (TB7A)	22.2	6.55	4.99	58	174	*	0.35	30.6	53	*	< 0.02	0.15	< 0.04	12	20	36	20	21.7
5/10/04 10:12 AM	4.00	18052 (TB6R)	23.8	7.8	8.15	97	190	*	0.6	8.23	< 1	*	< 0.02	< 0.02	0.05	10	30	40	23	21.4
5/10/04 12:18 PM	4.00	18053 (TB6LN)	25.6	8.65	8.86	108	147	*	0.81	5.62	< 1	*	< 0.02	< 0.02	< 0.04	9	20	32	16.1	17.6
5/11/04 10:30 AM	4.00	15655 (TB6J)	25.5	7.27	7.45	91	144	*	0.75	4.74	9	*	< 0.02	0.02	< 0.04	9	20	36	13.8	21.1
5/11/04 12:15 PM	4.00	15659 (TB6K)	26.3	8.75	8.44	105	149	*	0.93	3.08	< 1	*	< 0.02	0.03	0.05	8	20	32	16.3	19.5
5/11/04 11:15 AM	4.00	10402 (TB6H)	23.7	7.65	8.33	98	149	*	1.2	2.56	1	13	< 0.02	< 0.02	< 0.04	8	20	32	16.4	18.9
5/10/04 1:03 PM	4.00	18054 (TB6Q)	25.9	8.38	8.48	104	154	*	1.26	5.33	< 1	*	< 0.02	< 0.02	< 0.04	7	20	32	16.5	19
5/11/04 10:50 AM	4.00	10411 (TB6F)	25.8	7.67	7.72	97	101	*	0.93	4.86	10	15	< 0.02	0.02	< 0.04	6	20	24	< 10	12.8
5/11/04 9:50 AM	4.00	10407 (TB6CN)	25.7	7.27	7.76	96	114	*	1.1	2.79	< 1	*	< 0.02	0.04	< 0.04	9	20	28	11	15.6
5/10/04 2:02 PM	4.00	10404 (TB6A)	21.9	7.8	8.52	98	148	*	1.92	3.19	< 1	10	< 0.02	< 0.02	< 0.04	6	20	32	15.1	18
5/12/04 12:25 PM	3.03	10340 (BA4)	22.3	7.27	6.88	79	196	*	0.1	72.4	> 2419	*	< 0.02	0.08	0.06	11	40	28	< 10	37.9
5/12/04 10:30 AM	3.00	10401 (TB6S)	16.6	6.7	9.31	94	108	*	0.1	64.8	1733	*	< 0.02	0.06	< 0.04	11	10	24	< 10	< 10
5/12/04 11:57 AM	3.00	10399 (SR5)	20.1	6.95	7.51	83	120	*	0.44	17.2	727	*	< 0.02	0.05	< 0.04	6	20	28	13.3	16.4
5/12/04 12:47 PM	3.00	10398 (SR3)	21.1	7.06	7.93	89	136	*	0.3	14.1	206	*	< 0.02	0.02	< 0.04	6	20	32	13.8	18
5/12/04 9:15 AM	2.05	10465 (BCC1)	20.7	6.13	7.66	85	40	*	0.21	50.6	> 2419	*	< 0.02	0.1	0.06	10	< 10	12	< 10	< 10
5/12/04 8:40 AM	2.00	10397 (SR2)	21.6	6.76	7.23	82	128	*	0.41	10.2	66	*	< 0.02	0.04	< 0.04	6	20	28	13	16.4

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

May 2004

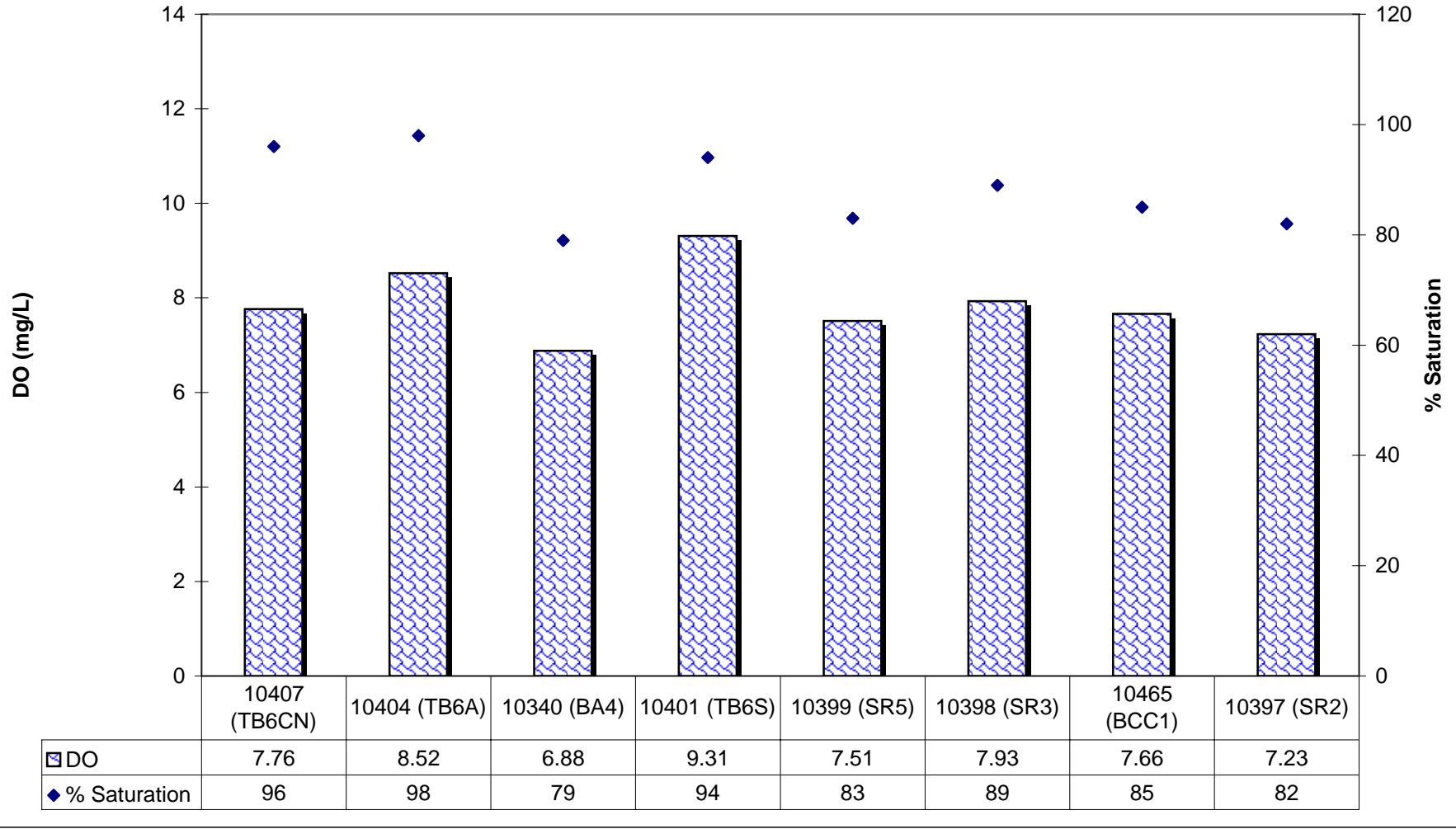
Lower Sabine Basin DO / % Saturation (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

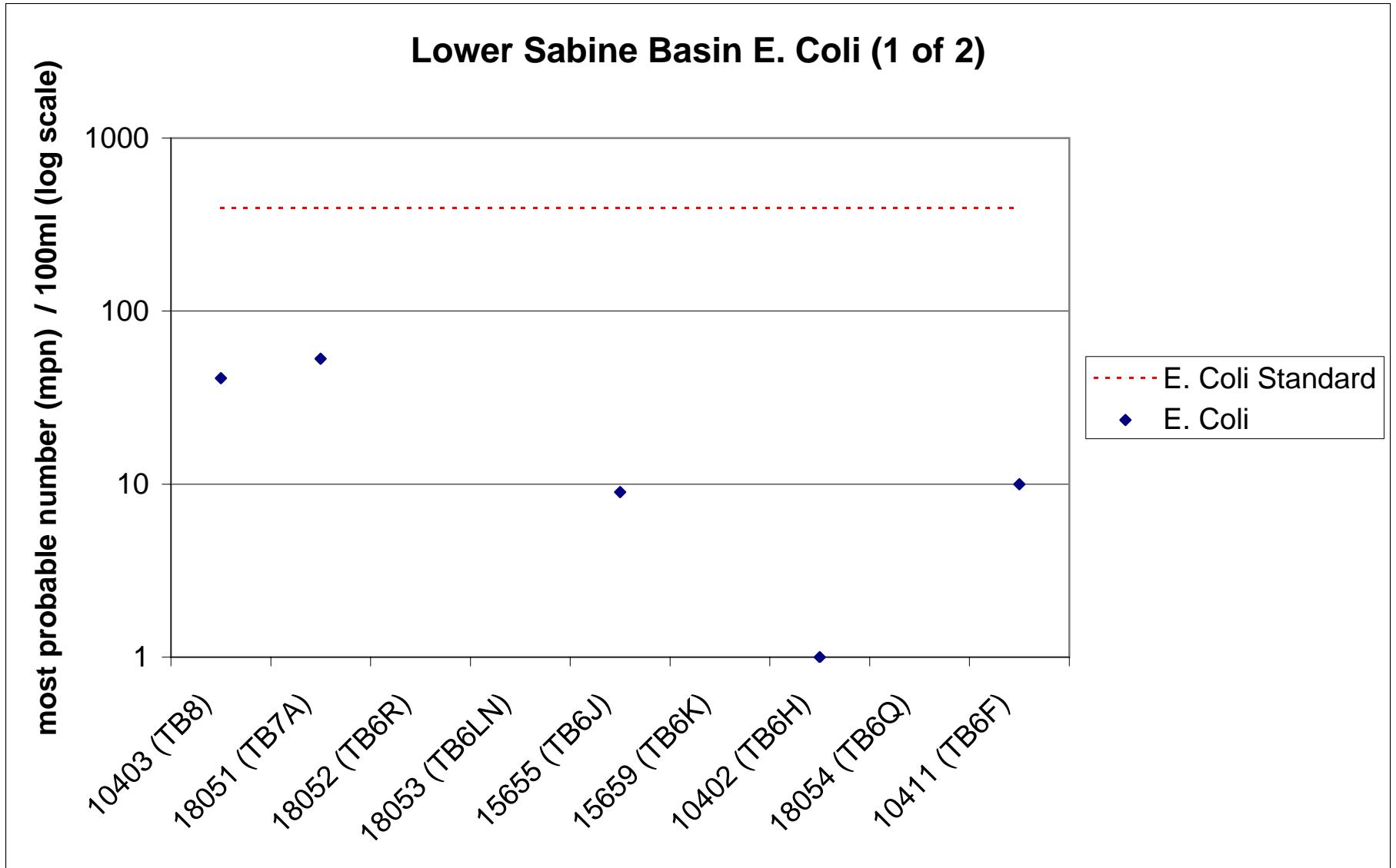
May 2004

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



SABINE RIVER AUTHORITY OF TEXAS

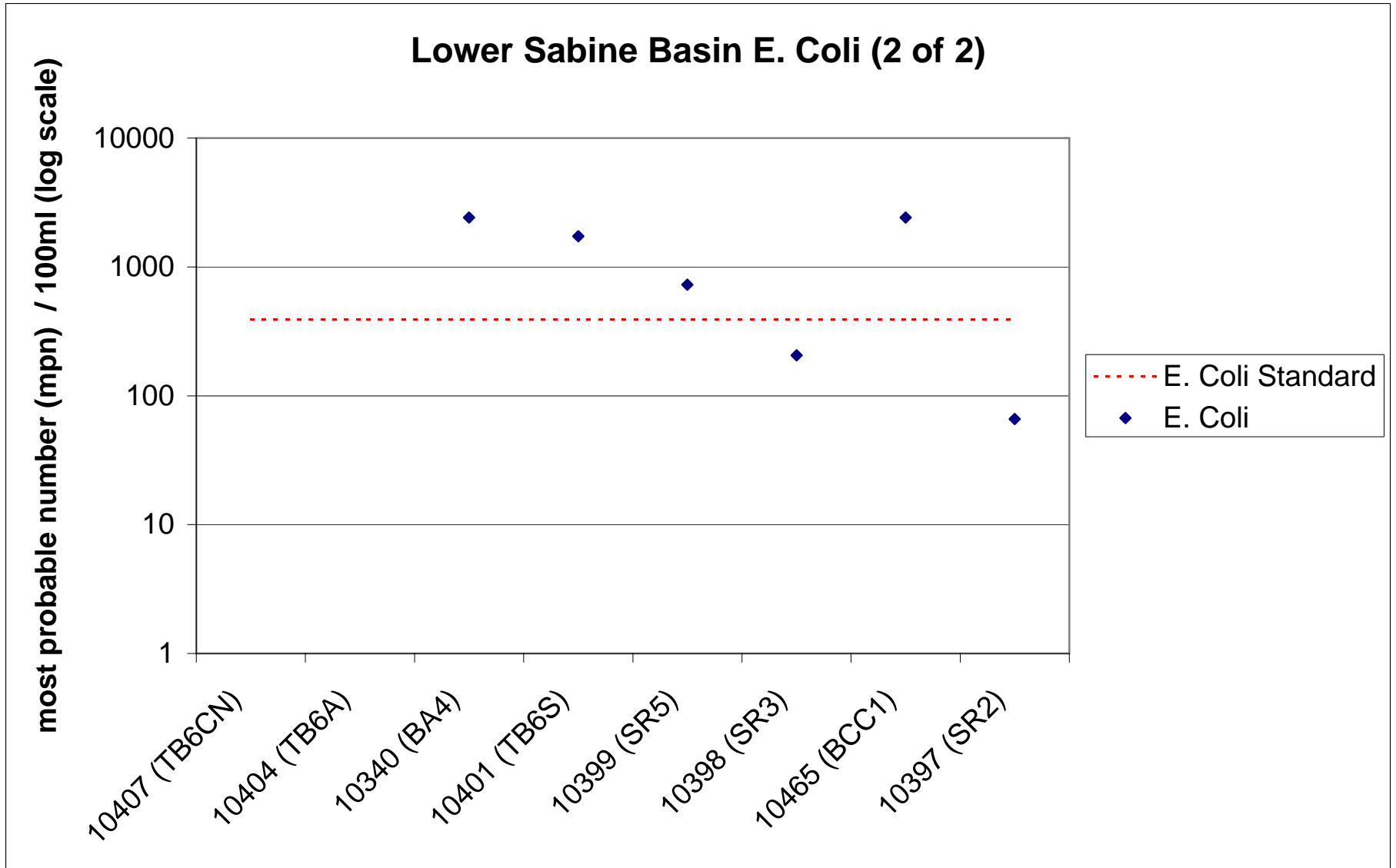
May 2004



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

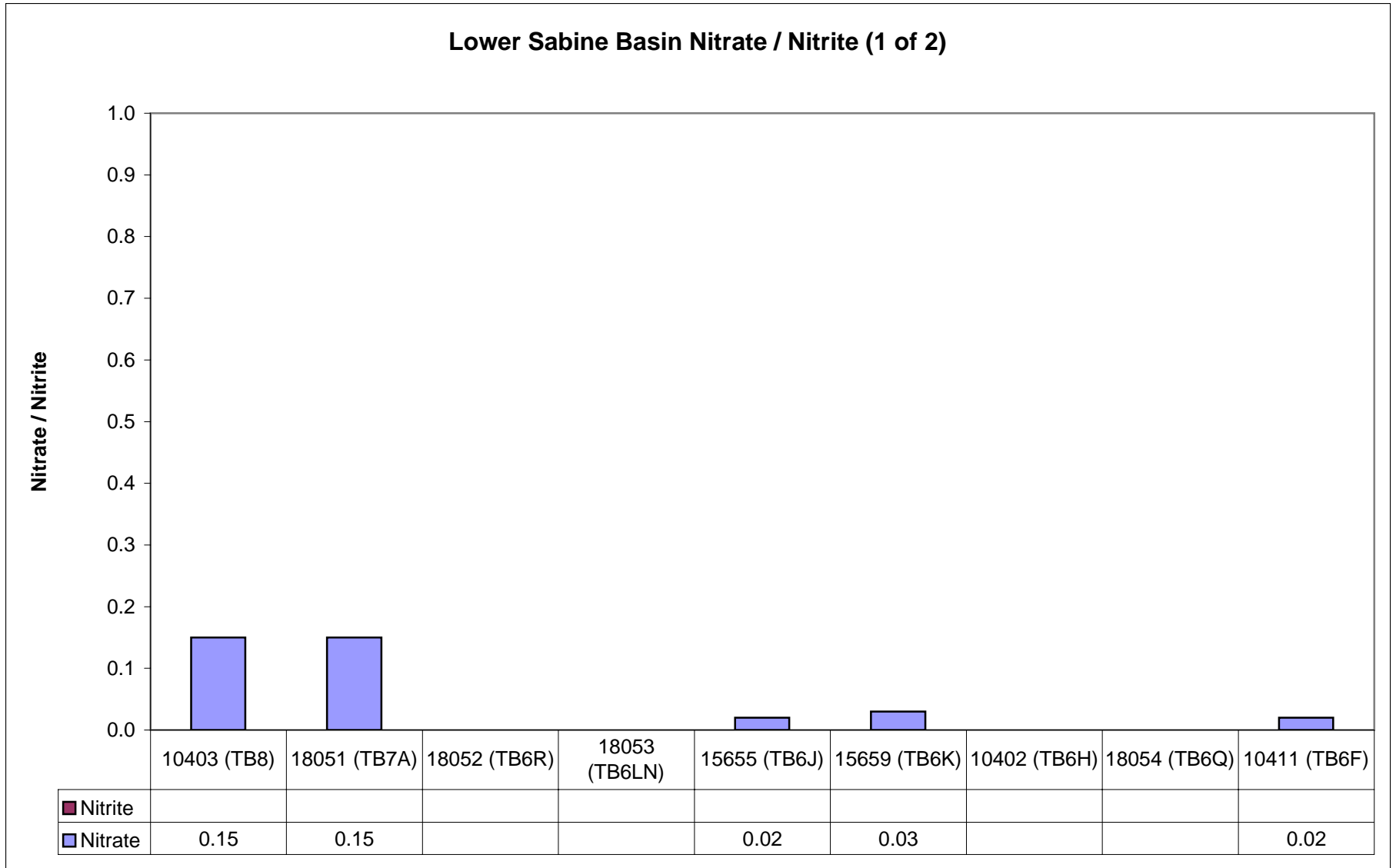
SABINE RIVER AUTHORITY OF TEXAS

May 2004



SABINE RIVER AUTHORITY OF TEXAS

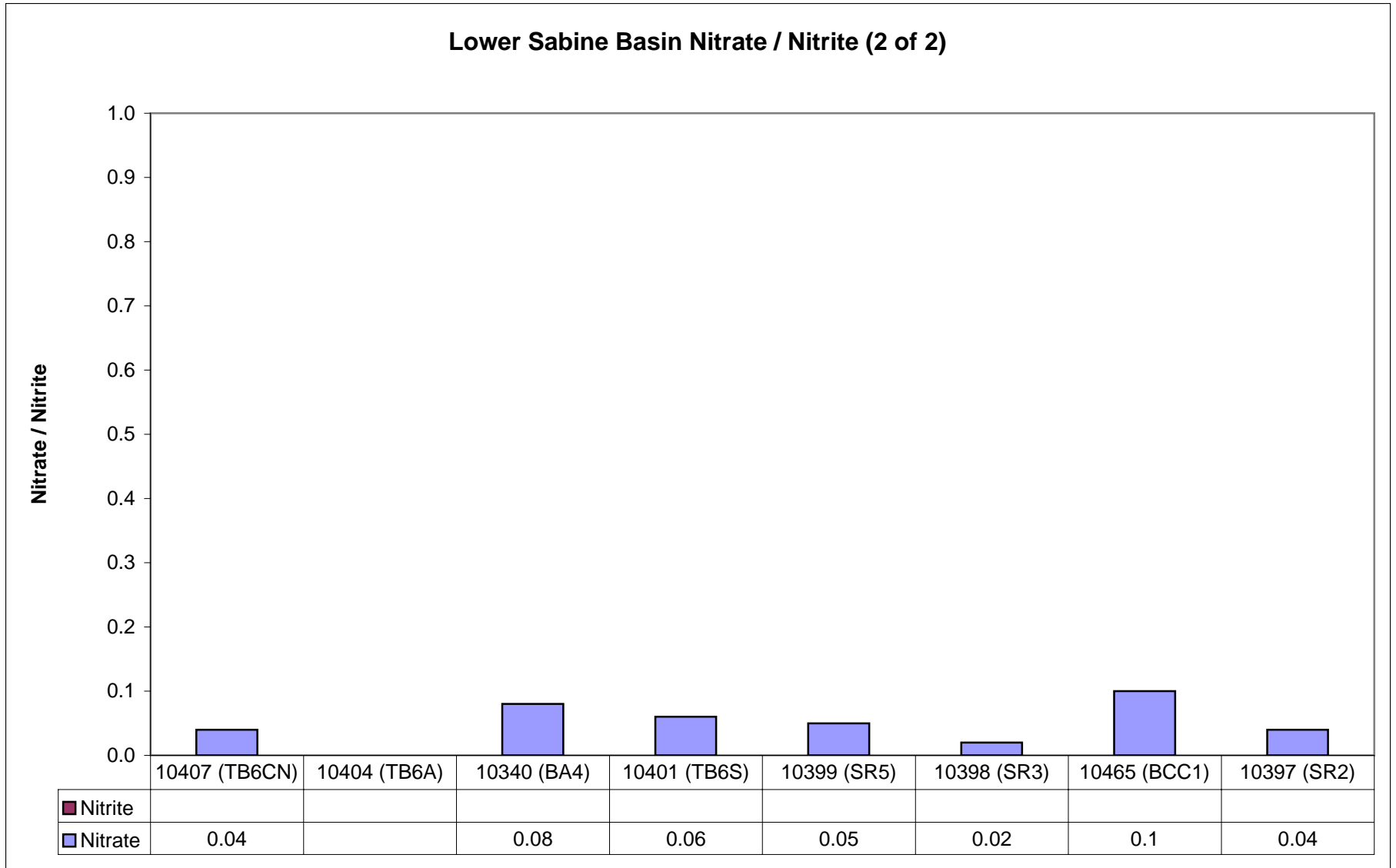
May 2004



Stations without values below detection limit (< 0.02 mg/L) on this run (see page 18)

SABINE RIVER AUTHORITY OF TEXAS

May 2004



Stations without values below detection limit (< 0.02 mg/L) on this run (see page 18)

SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Profiles

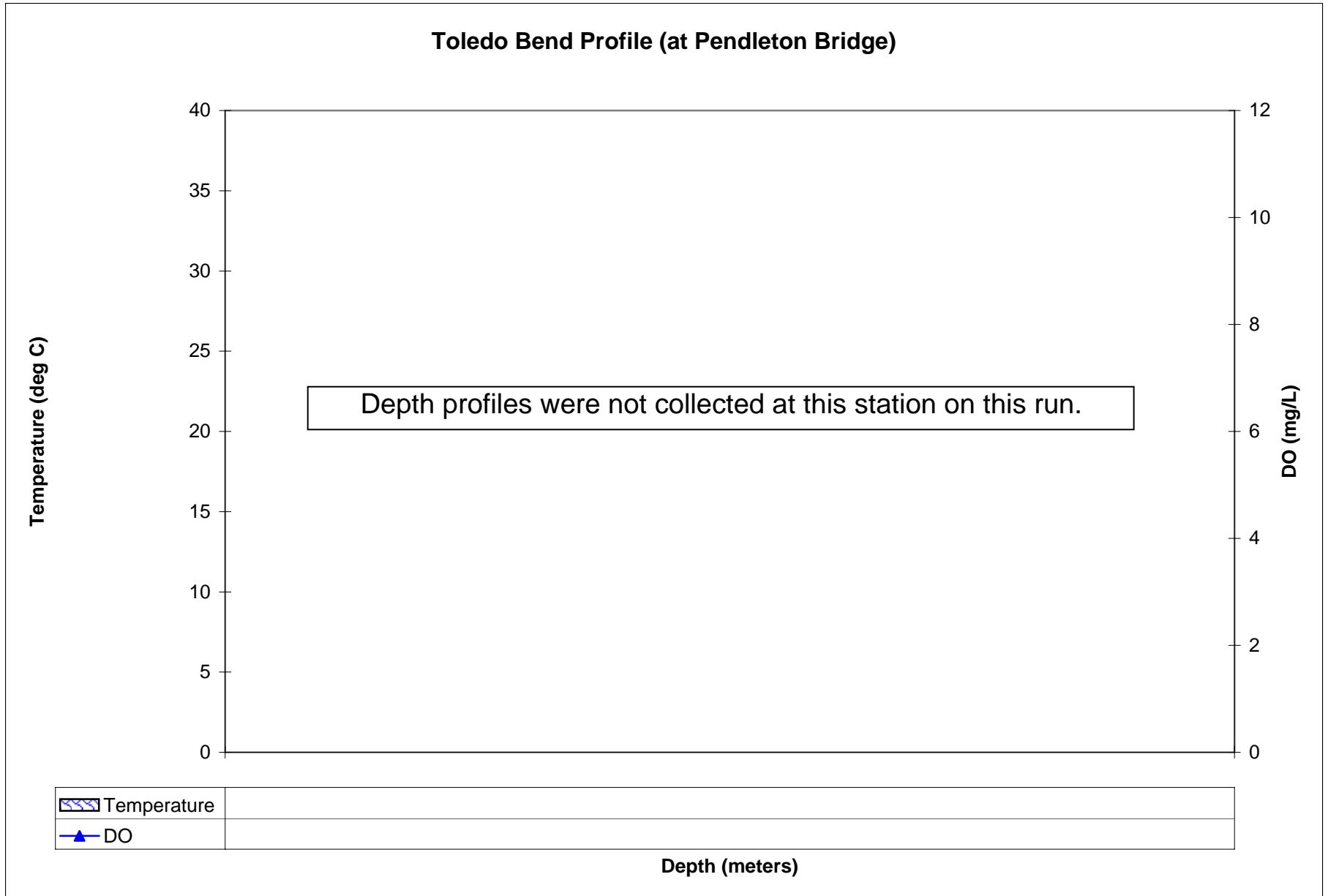
May 2004

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity
				°C 00010	Units 00400	mg/L 00300	Saturation 00301	µS/cm 00094
5/12/04 11:30 AM	4.00	10403 (TB8)	0.3	22.1	6.56	5.17	60	177
			4.5	22.1	6.57	5.17	60	175
			12.6	22.1	6.56	5.2	61	176
5/12/04 12:10 PM	4.00	18051 (TB7A)	0.3	22.2	6.55	4.99	58	174
			5	22	6.55	4.88	57	171
			10.6	22	6.54	4.91	57	164
5/10/04 10:12 AM	4.00	18052 (TB6R)	0.3	23.8	7.8	8.15	97	190
			2	23.9	7.52	7.71	91	185
			5	23.1	7.08	6.41	75	167
			10	21.6	6.82	4.33	48	168
			15.5	21.5	6.86	4.45	49	162
5/10/04 12:18 PM	4.00	18053 (TB6LN)	0.3	25.6	8.65	8.86	108	147
			2.5	24.9	7.94	8.13	98	147
			4.8	23.7	6.72	4.91	58	131
			6.8	21.6	6.56	1.48	17	117
5/11/04 10:30 AM	4.00	15655 (TB6J)	0.3	25.5	7.27	7.45	91	144
			2	25.4	7.15	7.1	86	145
			4	25	6.8	5.57	69	142
			5.2	21.4	6.41	1.42	16	142
5/11/04 12:15 PM	4.00	15659 (TB6K)	0.3	26.3	8.75	8.44	105	149
			2.5	24.6	7.39	7.47	90	148
			4.6	23	6.68	4.52	53	137
			9.8	19.3	6.44	0.82	8	99
5/11/2004 11:15	4.00	10402 (TB6H)*	0.3	23.7	7.65	8.33	98	149
5/10/04 1:03 PM	4.00	18054 (TB6Q)	0.3	25.9	8.38	8.48	104	154
			3.5	24.9	7.9	8.04	98	155
			5.3	22.7	6.84	6.68	78	155
			8	20.7	6.68	1.68	18	148
5/11/04 10:50 AM	4.00	10411 (TB6F)	0.3	25.8	7.67	7.72	97	101
			3	21.9	6.59	4.53	52	97
			5.9	19.6	6.34	1.36	14	75
5/11/04 9:50 AM	4.00	10407 (TB6CN)	0.3	25.7	7.27	7.76	96	114
			2	24.7	6.59	5.75	69	95
			3.3	22.7	6.16	1.9	22	76
			7.4	19.5	6.07	0.76	8	88
5/10/04 2:02 PM	4.00	10404 (TB6A)	0.3	21.9	7.8	8.52	98	148
			5	20.1	7.2	7.57	84	149
			10	18.9	6.87	5.78	63	150
			15	13.6	6.61	1.91	18	156
			26.8	12.2	6.75	1.5	13	158

* Depth profiles were not collected at this station on this run.

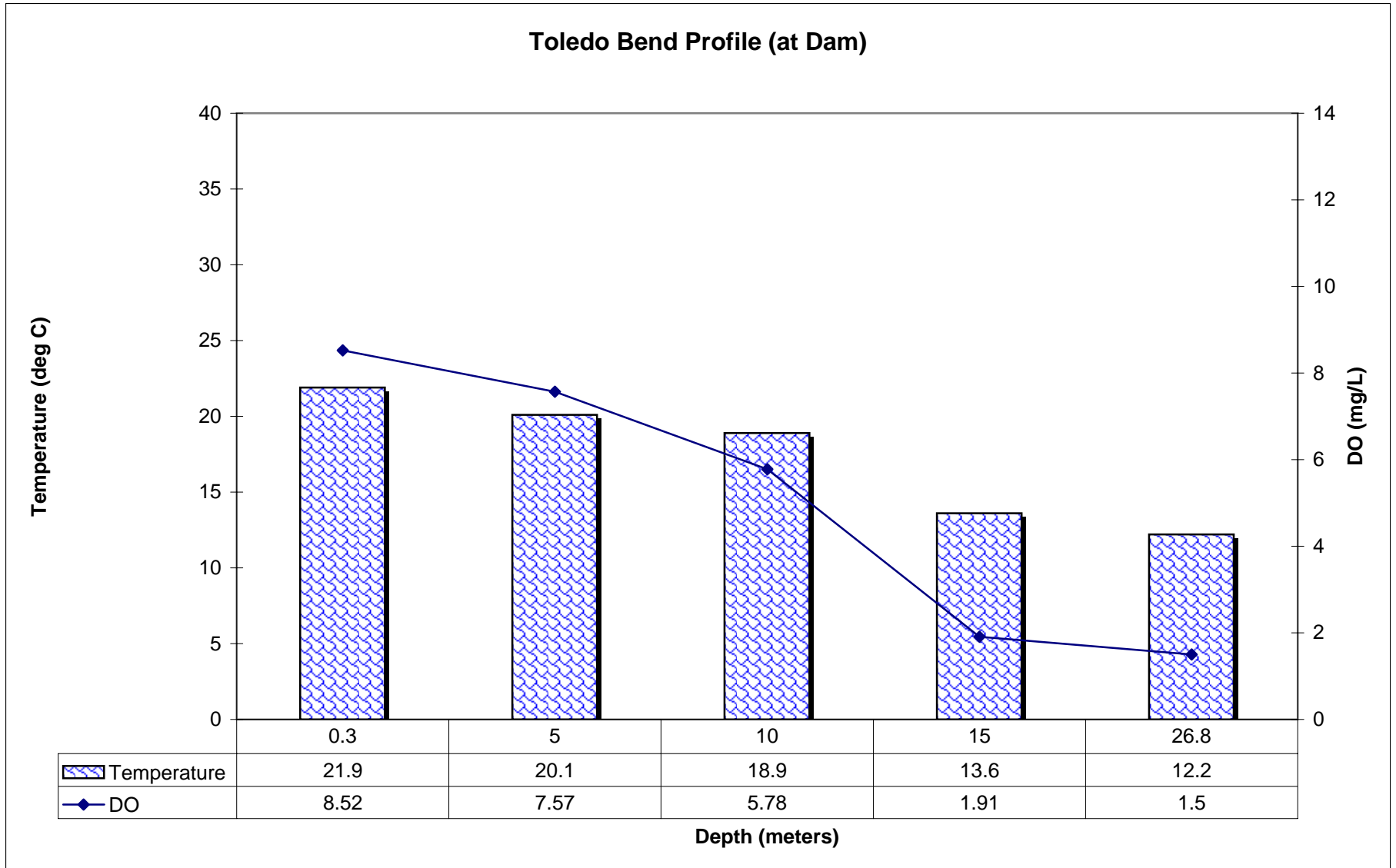
SABINE RIVER AUTHORITY OF TEXAS

May 2004



SABINE RIVER AUTHORITY OF TEXAS

May 2004



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

May 2004

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
5/1/2004	170.96	(1.04)	89	62	2.71	NR	144	286	144
5/2/2004	171.95	(0.05)	66	54	3.05	NR	144	286	144
5/3/2004	172.32	0.32	70	50	0.00	0.27	3,774	7,486	144
5/4/2004	172.41	0.41	73	50	0.00	0.27	13,572	26,920	10,144
5/5/2004	172.55	0.55	85	50	0.00	0.26	21,144	41,938	21,144
5/6/2004	172.58	0.58	84	53	0.00	0.27	21,144	41,938	21,144
5/7/2004	172.57	0.57	83	53	0.00	0.31	21,658	42,958	21,144
5/8/2004	172.51	0.51	84	53	0.00	0.23	21,749	43,139	21,894
5/9/2004	172.43	0.43	85	64	0.00	0.20	21,770	43,180	21,734
5/10/2004	172.31	0.31	85	60	0.00	0.38	16,735	33,193	21,744
5/11/2004	172.20	0.20	87	60	0.00	0.23	14,283	28,240	14,224
5/12/2004	172.40	0.40	85	65	3.53	NR	14,361	28,485	14,214
5/13/2004	172.35	0.35	85	66	0.18	0.32	16,452	32,632	14,544
5/14/2004	172.42	0.42	80	65	1.10	NR	19,970	39,609	20,094
5/15/2004	172.58	0.58	73	63	0.03	0.13	19,444	38,567	19,744
5/16/2004	172.48	0.48	81	63	0.00	0.19	19,544	38,765	19,704
5/17/2004	172.32	0.32	82	64	0.12	0.17	19,594	38,864	19,544
5/18/2004	172.14	0.14	85	68	0.19	0.23	16,025	31,785	19,644
5/19/2004	172.03	0.03	86	65	0.05	0.25	14,177	28,120	14,284
5/20/2004	171.89	(0.11)	87	66	0.02	0.21	11,798	23,401	14,194
5/21/2004	171.83	(0.17)	88	67	0.00	0.30	3,080	6,109	174
5/22/2004	171.79	(0.21)	88	67	0.00	0.27	1,578	3,130	204
5/23/2004	171.76	(0.24)	88	66	0.00	0.33	204	405	204
5/24/2004	171.79	(0.21)	88	64	0.00	NR	3,125	6,198	204
5/25/2004	171.67	(0.33)	89	64	0.00	0.33	3,133	6,214	204
5/26/2004	171.68	(0.32)	89	67	0.00	0.31	3,151	6,250	204
5/27/2004	171.61	(0.39)	88	68	0.00	0.32	3,013	5,976	204
5/28/2004	171.58	(0.42)	89	70	0.00	0.33	3,079	6,107	204
5/29/2004	171.55	(0.45)	84	71	0.03	0.09	1,858	3,685	204
5/30/2004	171.46	(0.54)	90	73	0.00	0.30	204	405	204
5/31/2004	171.59	(0.41)	89	78	0.00	0.25	204	405	204
Avg or Tot	172.06	0.06	84	63	11.01	6.75	10,649	654,676	

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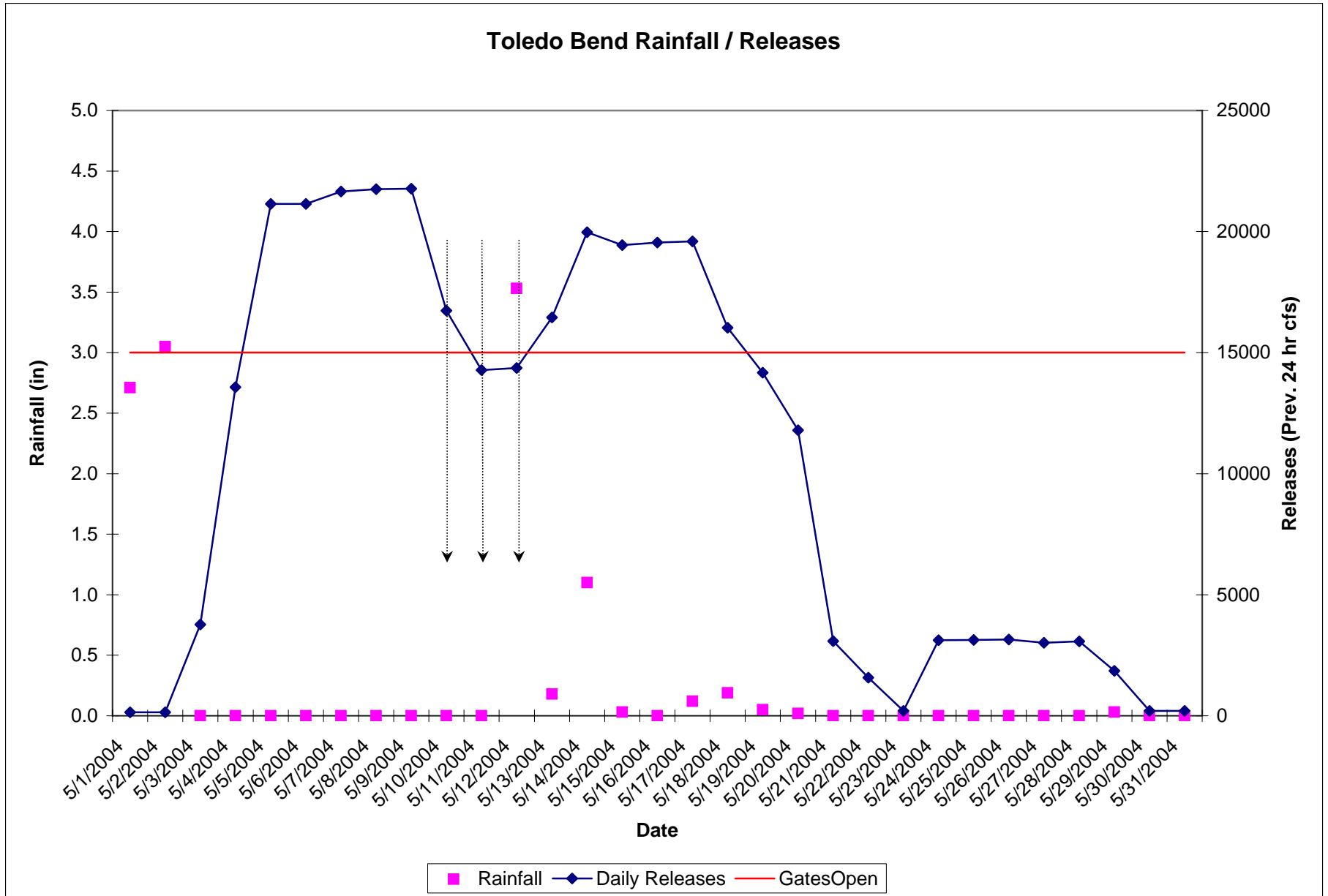
TOP: Top of Pool = 172 Feet M.S.L.

NR: No Reading

Toledo Bend Sampled on 5/10,11,12/2004

SABINE RIVER AUTHORITY OF TEXAS

May 2004



Toledo Bend sampled on 5/10,11/12/2004

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

SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

May 2004

Date	<i>Rainfall</i>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow</i>
5/1/2004	1.29	18.62	(19.38)	4,230
5/2/2004	2.55	22.08	(15.92)	8,520
5/3/2004	0.00	17.84	(20.16)	3,450
5/4/2004	0.00	21.88	(16.12)	8,230
5/5/2004	0.00	23.32	(14.68)	10,400
5/6/2004	0.00	27.94	(10.06)	18,900
5/7/2004	0.00	28.73	(9.27)	20,500
5/8/2004	0.00	29.54	(8.46)	22,200
5/9/2004	0.01	29.27	(8.73)	21,700
5/10/2004	0.00	29.24	(8.76)	21,600
5/11/2004	0.00	25.86	(12.14)	14,800
5/12/2004	1.98	26.00	(12.00)	15,000
5/13/2004	0.30	29.29	(8.71)	21,700
5/14/2004	1.22	31.38	(6.62)	26,400
5/15/2004	0.00	31.19	(6.81)	26,000
5/16/2004	0.00	29.55	(8.45)	22,300
5/17/2004	0.00	28.83	(9.17)	20,700
5/18/2004	0.42	28.77	(9.23)	20,600
5/19/2004	1.10	26.51	(11.49)	16,000
5/20/2004	0.00	25.98	(12.02)	15,000
5/21/2004	0.00	19.78	(18.22)	5,510
5/22/2004	0.00	17.34	(20.66)	2,990
5/23/2004	0.00	15.63	(22.37)	1,660
5/24/2004	0.00	13.28	(24.72)	437
5/25/2004	0.00	17.22	(20.78)	2,880
5/26/2004	0.00	17.14	(20.86)	2,820
5/27/2004	0.00	17.12	(20.88)	2,800
5/28/2004	0.00	17.01	(20.99)	2,700
5/29/2004	0.02	17.07	(20.93)	2,760
5/30/2004	0.01	15.65	(22.35)	1,670
5/31/2004	0.00	12.86	(25.14)	298
Avg or Tot	8.90	22.97	(15.03)	11,766

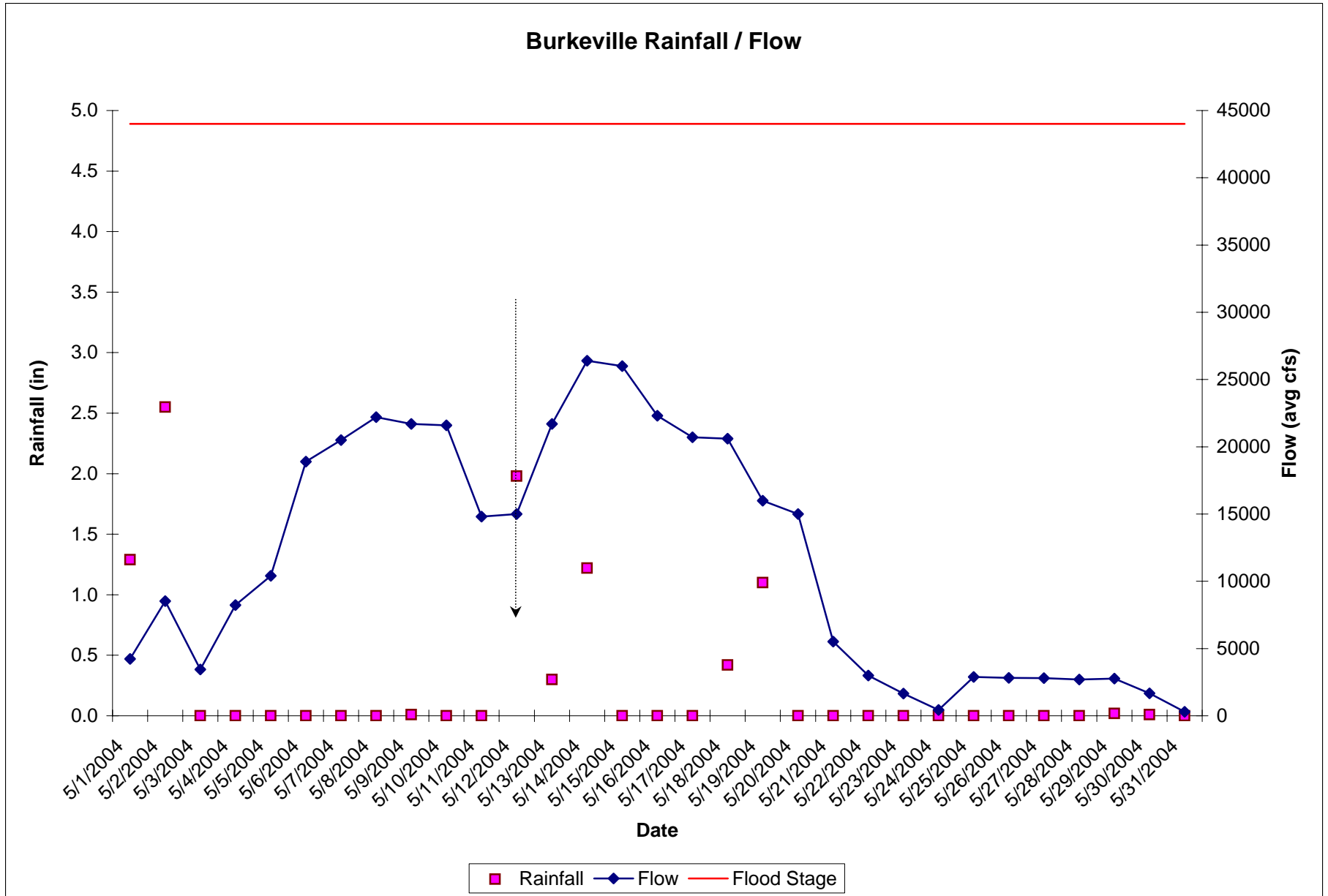
	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 38 feet

Lower Sabine Basin Sampled on 5/12/2004

SABINE RIVER AUTHORITY OF TEXAS

May 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

May 2004

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
5/1/2004	13.92	(16.08)	1,290	0.00
5/2/2004	24.79	(5.21)	15,500	1.64
5/3/2004	25.05	(4.95)	16,000	0.00
5/4/2004	22.41	(7.59)	11,200	0.00
5/5/2004	25.02	(4.98)	15,900	0.00
5/6/2004	28.44	(1.56)	23,700	0.00
5/7/2004	28.46	(1.54)	23,700	0.00
5/8/2004	28.62	(1.38)	24,100	0.00
5/9/2004	28.31	(1.69)	23,300	0.00
5/10/2004	28.71	(1.29)	24,400	0.00
5/11/2004	27.96	(2.04)	22,400	0.00
5/12/2004	26.40	(3.60)	19,700	1.36
5/13/2004	29.31	(0.69)	26,000	0.43
5/14/2004	31.17	1.17	32,100	1.31
5/15/2004	32.73	2.73	38,000	0.00
5/16/2004	32.90	2.90	38,800	0.00
5/17/2004	32.10	2.10	35,400	0.00
5/18/2004	30.97	0.97	31,400	0.08
5/19/2004	29.94	(0.06)	27,800	0.11
5/20/2004	28.13	(1.87)	22,900	0.14
5/21/2004	26.89	(3.11)	19,800	0.00
5/22/2004	20.98	(9.02)	8,970	0.00
5/23/2004	18.43	(11.57)	5,420	0.00
5/24/2004	16.99	(13.01)	3,790	0.00
5/25/2004	15.39	(14.61)	2,310	0.00
5/26/2004	17.43	(12.57)	4,260	0.00
5/27/2004	17.35	(12.65)	4,170	0.00
5/28/2004	17.27	(12.73)	4,080	0.00
5/29/2004	17.15	(12.85)	3,960	0.03
5/30/2004	17.02	(12.98)	3,820	0.00
5/31/2004	16.11	(13.89)	2,980	0.00
Avg or Tot	24.40	(5.60)	17,327	5.10

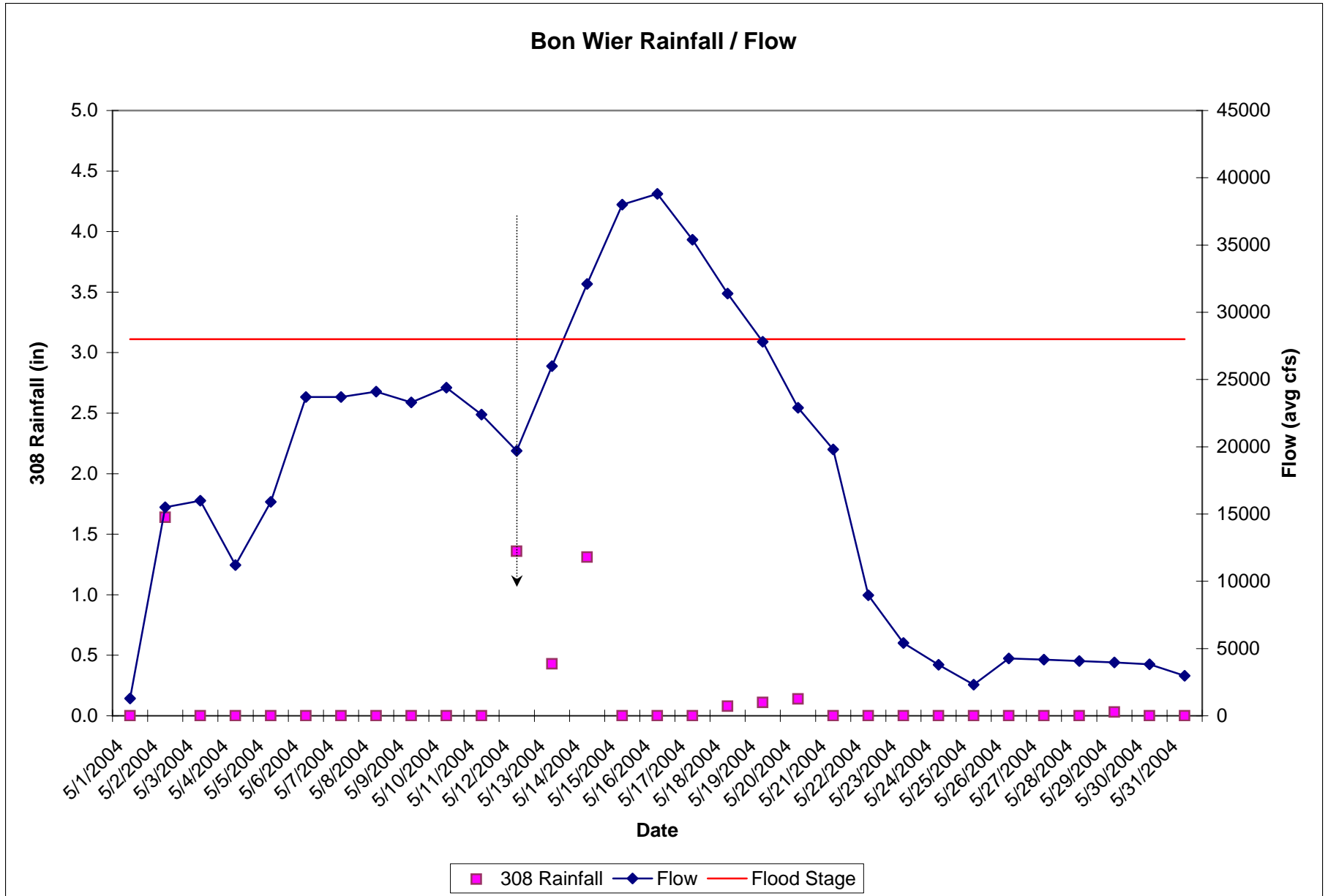
Units	Avg Feet	Avg Feet	Avg	Tot Inches
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FS: Flood Stage = 30 feet

Lower Sabine Basin Sampled on 5/12/2004

SABINE RIVER AUTHORITY OF TEXAS

May 2004



Lower Sabine Basin sampled on 5/12/2004

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

May 2004

Date	Gauge Height	GH - FS	Flow cfs	Flow acft	Flow avg	309 Rainfall
5/1/2004	18.29	(5.71)	3,110	6,169	3,110	1.10
5/2/2004	18.94	(5.06)	3,560	7,061	3,335	2.51
5/3/2004	21.42	(2.58)	6,570	13,031	4,413	0.00
5/4/2004	22.70	(1.30)	9,500	18,843	5,685	0.00
5/5/2004	23.19	(0.81)	11,500	22,809	9,148	0.00
5/6/2004	23.47	(0.53)	13,100	25,785	9,807	0.00
5/7/2004	23.55	(0.45)	13,700	27,173	10,363	0.00
5/8/2004	23.65	(0.35)	14,500	28,760	10,880	0.00
5/9/2004	23.75	(0.25)	15,400	30,545	11,382	0.00
5/10/2004	23.86	(0.14)	16,400	32,529	11,884	0.00
5/11/2004	23.94	(0.06)	17,200	34,116	12,367	0.00
5/12/2004	24.16	0.16	19,700	39,074	12,978	2.68
5/13/2004	24.18	0.18	20,000	39,669	13,518	0.05
5/14/2004	24.36	0.36	22,400	44,430	14,153	2.03
5/15/2004	24.52	0.52	24,700	48,992	14,856	0.74
5/16/2004	24.81	0.81	28,700	56,926	15,721	0.00
5/17/2004	25.14	1.14	33,900	67,240	16,791	0.12
5/18/2004	25.23	1.23	35,500	70,413	17,830	0.02
5/19/2004	25.27	1.27	36,200	71,802	18,797	0.06
5/20/2004	25.19	1.19	34,800	69,025	19,597	0.16
5/21/2004	24.98	0.98	31,300	62,083	20,154	0.00
5/22/2004	24.65	0.65	26,400	52,363	20,438	0.00
5/23/2004	24.31	0.31	21,700	43,041	21,421	0.00
5/24/2004	23.94	(0.06)	17,200	34,116	21,245	0.00
5/25/2004	23.52	(0.48)	13,500	26,777	20,935	0.00
5/26/2004	22.67	(1.33)	9,400	18,645	20,492	0.00
5/27/2004	21.63	(2.37)	6,930	13,745	19,989	0.00
5/28/2004	21.13	(2.87)	6,130	12,159	19,494	0.00
5/29/2004	20.91	(3.09)	5,820	11,544	19,023	0.01
5/30/2004	20.73	(3.27)	5,590	11,088	18,575	0.00
5/31/2004	20.59	(3.41)	5,410	10,731	18,150	0.00
Avg or Tot	23.18	(0.82)	17,091	1,050,684		9.48

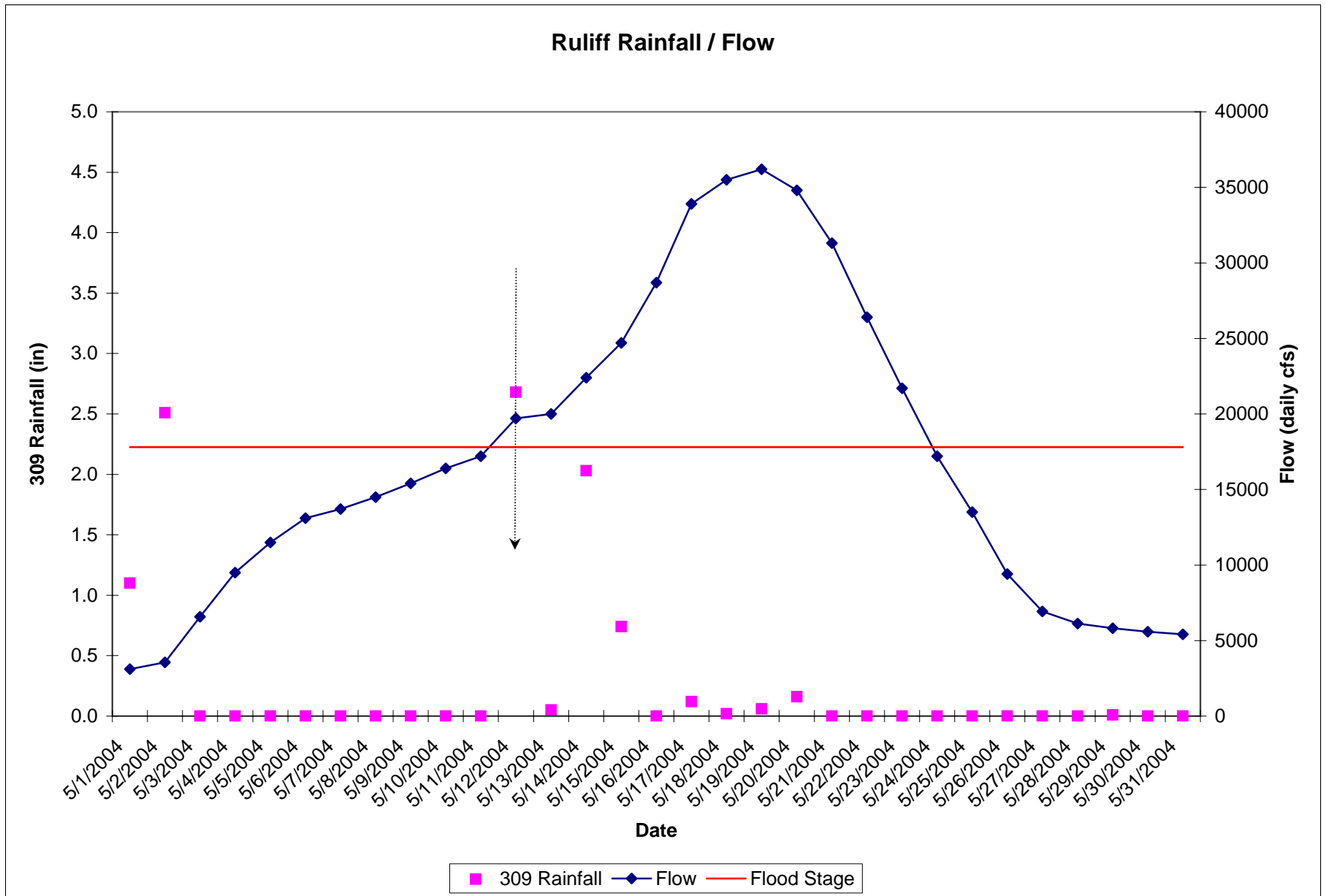
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
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FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 5/12/2004

SABINE RIVER AUTHORITY OF TEXAS

May 2004



Lower Sabine Basin sampled on 5/12/2004

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

May 2004

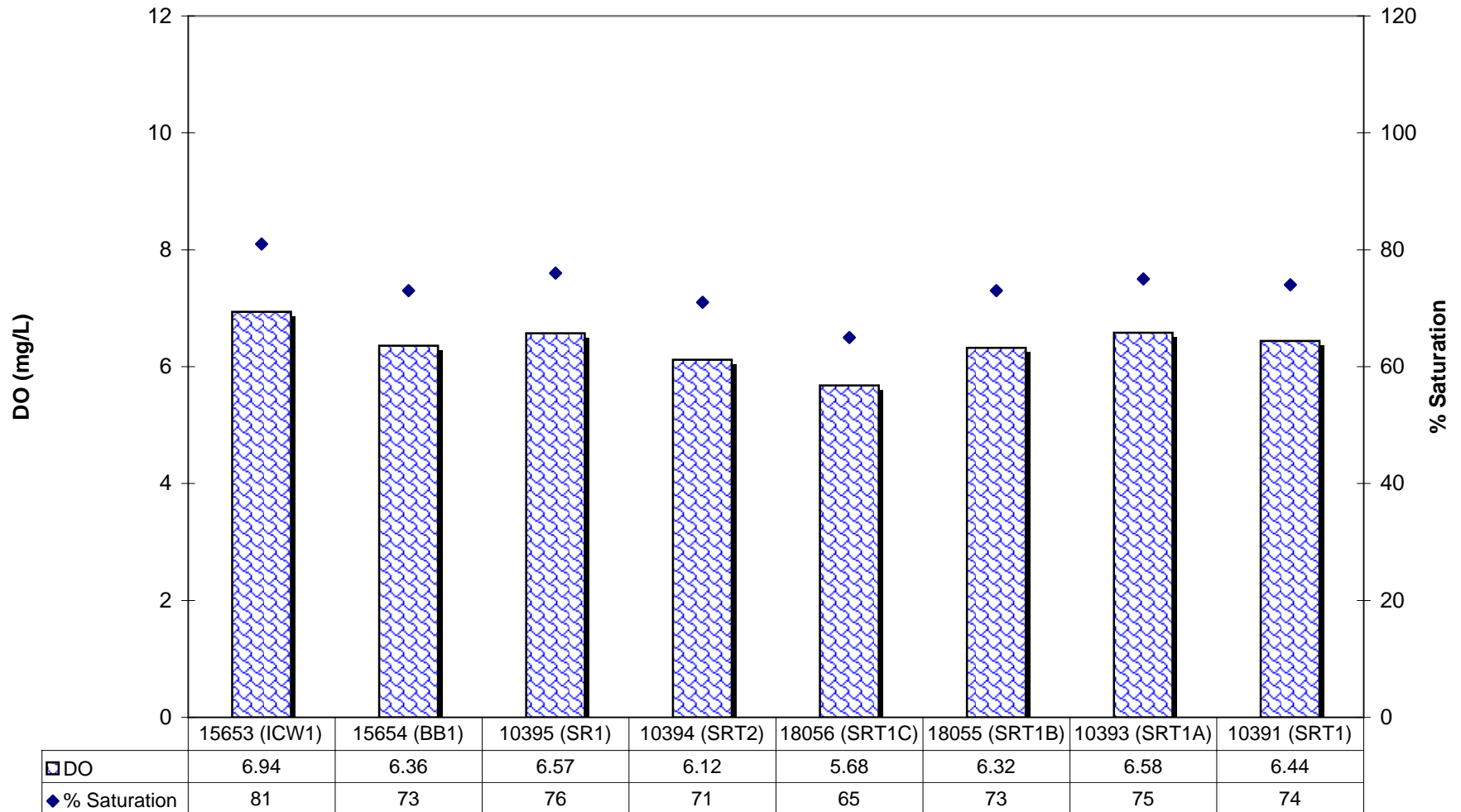
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	<i>Enterococcus</i> mpn/100ml 31701	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900
5/13/04 9:52 AM	1.05	15653 (ICW1)	23.5	6.91	6.94	81	141	< 1	0.47	12.4	33	35	*	< 0.02	0.06	< 0.04	7	20	24
5/13/04 10:40 AM	1.01	15654 (BB1)	23.1	6.74	6.36	73	149	< 1	0.42	18.1	285	206	*	< 0.02	0.1	< 0.04	8	20	28
5/13/04 8:55 AM	1.00	10395 (SR1)	22.6	6.71	6.57	76	134	*	0.44	18.9	435	*	*	< 0.02	0.02	< 0.04	7	20	28
5/13/04 9:17 AM	1.00	10394 (SRT2)	22.5	6.65	6.12	71	122	< 1	0.52	14.9	152	184	*	< 0.02	0.02	< 0.04	7	20	24
5/13/04 9:30 AM	1.00	18056 (SRT1C)	23.2	6.57	5.68	65	105	< 1	0.49	16.2	197	236	*	< 0.02	0.02	< 0.04	7	20	24
5/13/04 10:06 AM	1.00	18055 (SRT1B)	22.6	6.65	6.32	73	123	< 1	0.44	12.8	261	238	*	< 0.02	0.05	< 0.04	7	20	28
5/13/04 10:22 AM	1.00	10393 (SRT1A)	22.7	6.7	6.58	75	122	< 1	0.42	13.1	260	411	*	< 0.02	0.06	< 0.04	7	20	32
5/13/04 10:50 AM	1.00	10391 (SRT1)	22.7	6.68	6.44	74	121	< 1	0.47	16.6	461	249	*	< 0.02	0.09	0.04	7	20	24

*: Not sampled on this run

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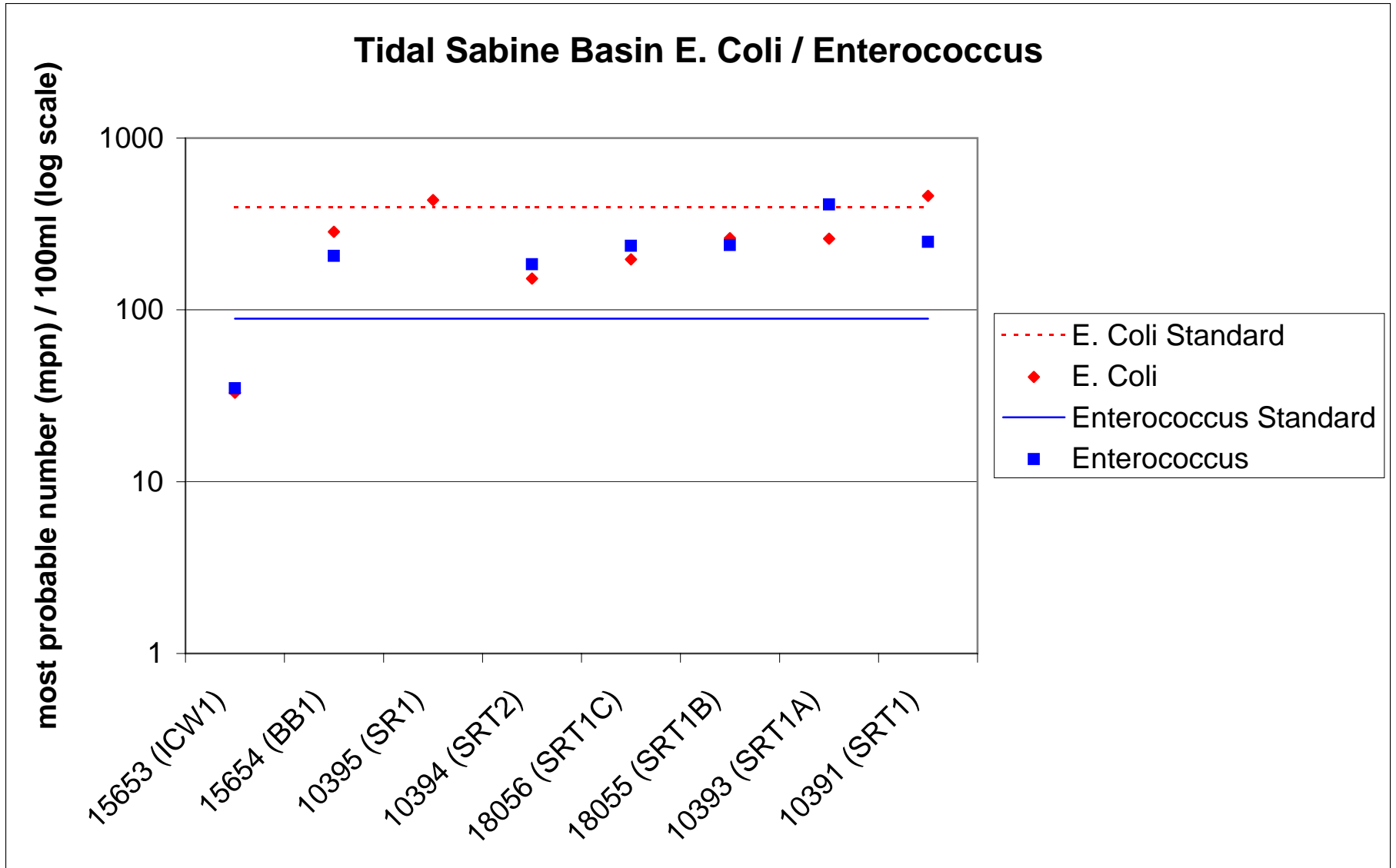
May 2004

Tidal Sabine Basin DO / % Saturation



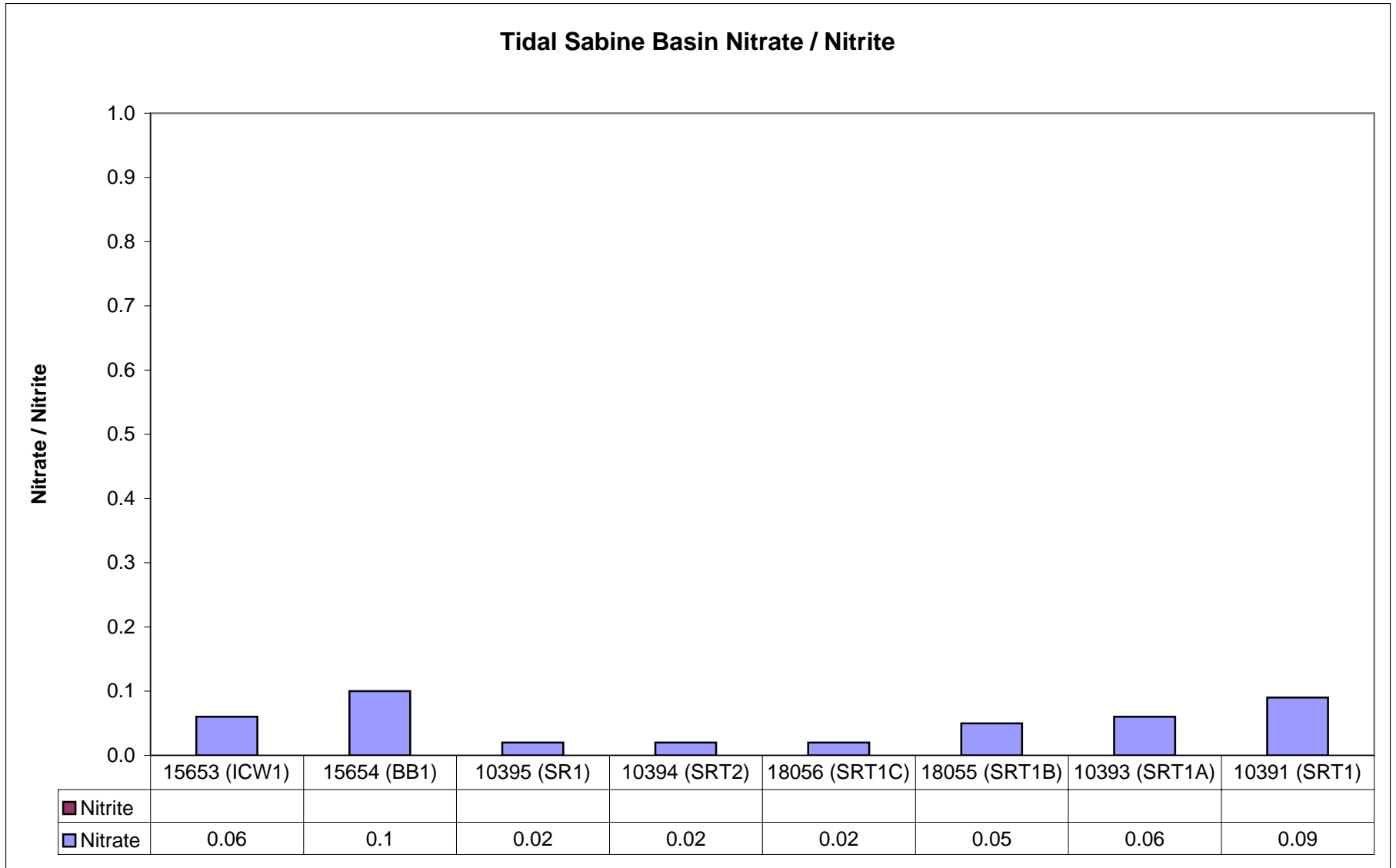
SABINE RIVER AUTHORITY OF TEXAS

May 2004



SABINE RIVER AUTHORITY OF TEXAS

May 2004



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

SABINE RIVER AUTHORITY OF TEXAS

Tidal Profiles

May 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
5/13/04 9:52 AM	1.05	15653 (ICW1)	0.3	23.5	6.91	6.94	81	141	< 1
			3	23.4	6.79	6.59	77	142	< 1
			6.1	23.4	6.78	6.68	79	142	< 1
5/13/04 10:40 AM	1.01	15654 (BB1)	0.3	23.1	6.74	6.36	73	149	< 1
			4.9	23.1	6.68	6.17	71	142	< 1
5/13/04 9:17 AM	1.00	10394 (SRT2)	0.3	22.5	6.65	6.12	71	122	< 1
			4	22.5	6.6	6	69	123	< 1
			8.1	22.5	6.58	5.98	69	122	< 1
5/13/04 9:30 AM	1.00	18056 (SRT1C)	0.3	23.2	6.57	5.68	65	105	< 1
			5	22.7	6.55	5.79	67	123	< 1
			11.8	22.5	6.56	5.94	68	122	< 1
5/13/04 10:06 AM	1.00	18055 (SRT1B)	0.3	22.6	6.65	6.32	73	123	< 1
			6.6	22.6	6.59	6.2	71	120	< 1
5/13/04 10:22 AM	1.00	10393 (SRT1A)	0.3	22.7	6.7	6.58	75	122	< 1
			10.9	22.6	6.61	6.18	71	124	< 1
5/13/04 10:50 AM	1.00	10391 (SRT1)	0.3	22.7	6.68	6.44	74	121	< 1
			11	22.7	6.64	6.15	71	124	< 1

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Orange Weather and River Data

May 2004

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
5/1/2004	OUT	OUT	OUT	85	67	69	1.20
5/2/2004	OUT	OUT	OUT	75	58	58	2.25
5/3/2004	OUT	OUT	OUT	73	49	49	0.00
5/4/2004	OUT	OUT	OUT	81	49	56	0.00
5/5/2004	OUT	OUT	OUT	84	55	57	0.00
5/6/2004	OUT	OUT	OUT	83	56	59	0.00
5/7/2004	OUT	OUT	OUT	83	58	62	0.00
5/8/2004	OUT	OUT	OUT	83	61	66	0.00
5/9/2004	OUT	OUT	OUT	84	64	65	0.00
5/10/2004	OUT	OUT	OUT	85	65	65	0.00
5/11/2004	OUT	OUT	OUT	86	65	70	0.00
5/12/2004	OUT	OUT	OUT	82	66	74	4.55
5/13/2004	OUT	OUT	OUT	83	74	76	0.05
5/14/2004	OUT	OUT	OUT	82	65	66	3.13
5/15/2004	OUT	OUT	OUT	77	66	67	0.05
5/16/2004	OUT	OUT	OUT	80	65	65	0.00
5/17/2004	OUT	OUT	OUT	82	65	71	1.05
5/18/2004	OUT	OUT	OUT	85	70	71	0.04
5/19/2004	OUT	OUT	OUT	86	69	71	0.05
5/20/2004	OUT	OUT	OUT	81	69	69	0.60
5/21/2004	OUT	OUT	OUT	86	69	70	0.00
5/22/2004	OUT	OUT	OUT	86	70	71	0.00
5/23/2004	OUT	OUT	OUT	85	71	73	0.00
5/24/2004	OUT	OUT	OUT	86	71	72	0.00
5/25/2004	OUT	OUT	OUT	88	71	75	0.00
5/26/2004	OUT	OUT	OUT	88	73	74	0.00
5/27/2004	OUT	OUT	OUT	86	73	74	0.00
5/28/2004	OUT	OUT	OUT	88	71	74	0.00
5/29/2004	OUT	OUT	OUT	88	73	74	0.00
5/30/2004	OUT	OUT	OUT	87	74	80	0.00
5/31/2004	OUT	OUT	OUT	89	80	81	0.00
Avg or Tot	OUT	OUT	OUT	84	66	69	12.97

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

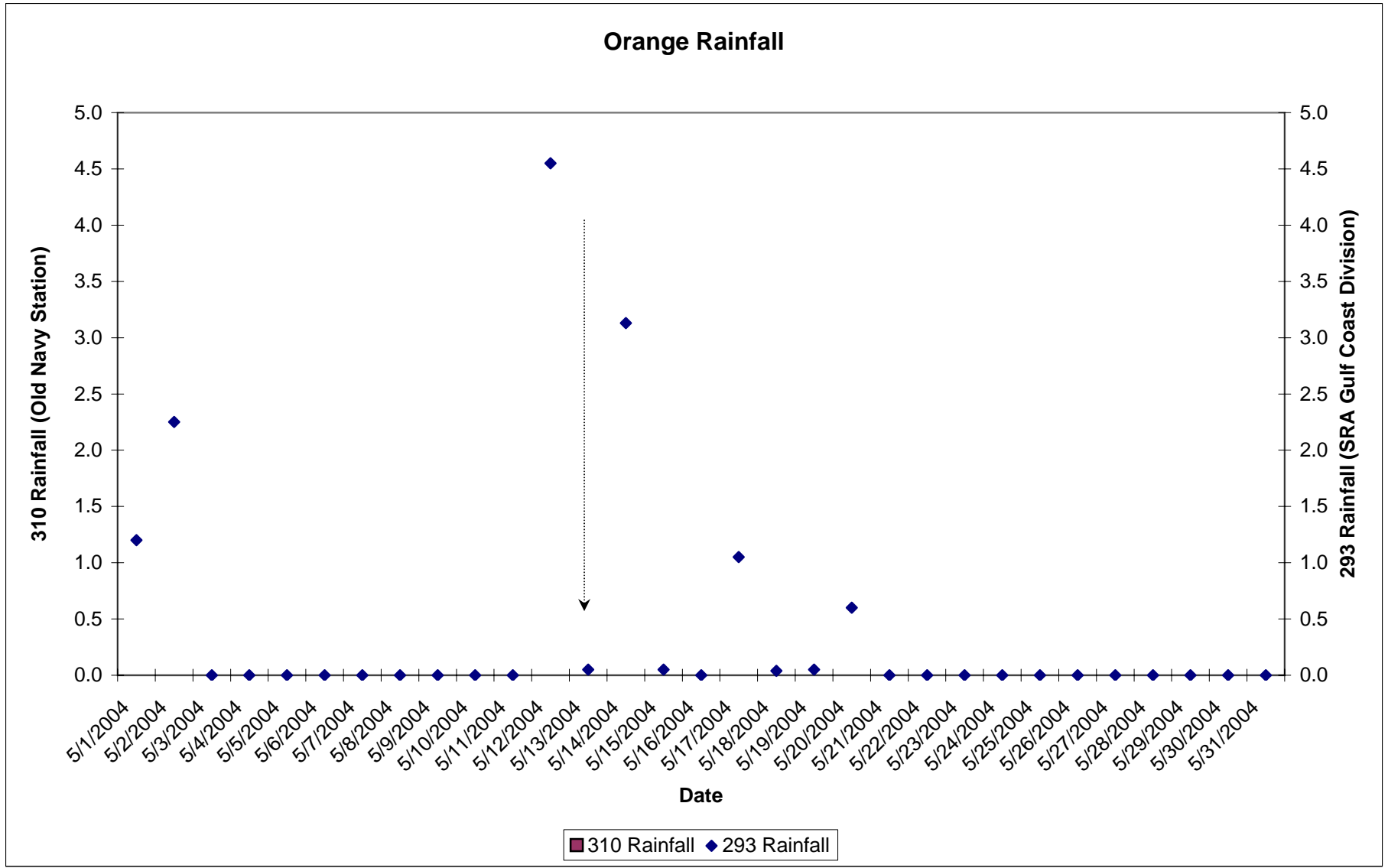
FS: Flood Stage = 4 Feet

OUT: Gage Out

Tidal Sabine Basin Sampled on 5/13/2004

SABINE RIVER AUTHORITY OF TEXAS

May 2004



Tidal Sabine Basin Sampled on 5/13/2004