
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Report for November 2004. Water quality sampling was performed November 8th through November 11th. Recent weather (previous seven days) in the Sabine River Basin was mild, with daytime highs from the mid 50s to the low 80s at Lake Tawakoni and at Lake Fork. Toledo Bend Reservoir and Orange had daytime highs from the low 60s to the mid 80s. Lows ranged from the low 40s to the mid 50s at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the mid 40s to the upper 60s. The waters of Lake Tawakoni and Lake Fork were mixed, exhibiting no thermal stratification. During the 28 days prior to the sample run, the Upper Basin received 3.38 and 4.45 inches of rainfall as recorded at Lake Tawakoni and at Lake Fork, respectively. Lake Tawakoni and Lake Fork received 0.41 and 0.37 inches of rainfall the week preceding the sample run. Toledo Bend and Orange received 6.27 and 7.97 inches, respectively, during the 28 days prior to the sample run.

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

Most water quality parameter measurements at the Upper Basin sites were consistent with water of high quality for the November sample run. The level of Lake Fork was recorded at 401.64 feet msl with 8 cfs releases and the level of Lake Tawakoni was recorded at 436.41 feet msl with 6 cfs releases at the time of sampling. LF3, LT23A, LT23C, LT23D and SR19 exceeded the screening criteria for chlorophyll *a*. LT23C and LT23D also exceeded 100% saturation for dissolved oxygen. High chlorophyll *a* levels in conjunction with dissolved oxygen saturation values exceeding 100% often indicate algal bloom conditions. All reservoir and stream sites were within stream standard levels for *E. coli*.

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

The November monthly sampling results were indicative of water of high quality at most sites. The area received only trace amounts of rainfall during the seven days prior to sampling, but over 4 inches just beyond that timeframe. The level of Toledo Bend Reservoir was recorded at 168.75 feet msl with 7,244 cfs discharge at the time of sampling. All reservoir stations were slightly stratified, with pH and dissolved oxygen differences throughout the water column, but no anoxic conditions were found. Station TB6LN had a dissolved oxygen percent saturation that was above the screening criteria. Chlorophyll *a* results above the screening criteria were also found at stations TB6R and 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 7.01 inches of rainfall during the seven days prior to the sample run. Most of the sites in this section of the Basin were well mixed with only slight stratification. No anoxic conditions were found at any tidal station. Surface salinities were only found at two tidal stations with the highest value of 5 ppt found at station BB1. A salinity of 5 ppt was also found at stations ICW1 and SRT1 at their deepest depths. All but two tidal stations recorded *Enterococcus* results that were above the stream standard criteria. This could be linked to the very heavy rainfall prior to the sample run.

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

November 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

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Upper Sabine Basin Report

November 2004

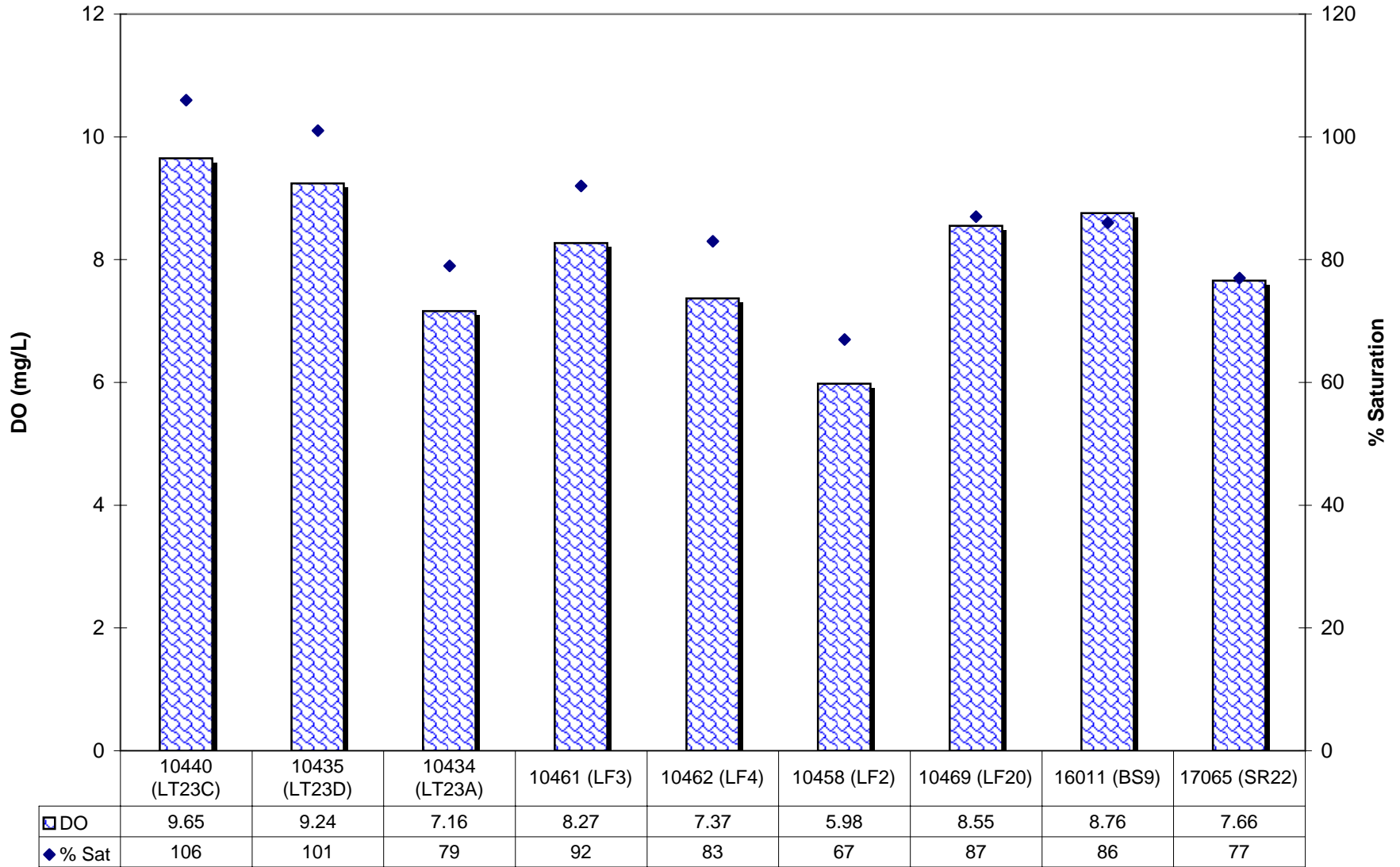
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	E. coli mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
11/9/04 11:45 AM	7.00	10440 (LT23C)	18.8	8.98	9.65	106	211	*	0.49	13.2	< 1	72	< 0.02	< 0.02	< 0.04	6	80	72	< 10	10
11/9/04 10:55 AM	7.00	10435 (LT23D)	18.8	8.75	9.24	101	210	*	0.65	9.62	< 1	64	< 0.02	< 0.02	< 0.04	6	80	68	< 10	< 10
11/9/04 9:50 AM	7.00	10434 (LT23A)	19.6	7.94	7.16	79	207	*	0.58	6.99	4	32	< 0.02	0.21	< 0.04	6	70	68	< 10	10
11/9/04 8:35 AM	6.12	10461 (LF3)	19.5	7.78	8.27	92	183	*	1.06	4.58	< 1	25	< 0.02	0.03	< 0.04	6	30	36	15	18
11/9/04 8:55 AM	6.12	10462 (LF4)	20	7.52	7.37	83	182	*	1.11	3.19	< 1	17	< 0.02	0.09	< 0.04	6	30	44	15	18
11/9/04 7:55 AM	6.12	10458 (LF2)	20	7.27	5.98	67	181	*	1.35	2.3	7	5	< 0.02	0.09	< 0.04	6	30	40	15	17
11/9/04 2:00 PM	6.10	10469 (LF20)	15	7.18	8.55	87	259	*	0.37	30.8	125	*	< 0.02	0.17	< 0.04	9	30	52	32	30
11/10/04 6:30 AM	6.02	16011 (BS9)	13.7	6.91	8.76	86	167	*	0.59	8.17	119	*	< 0.02	0.2	< 0.04	8	20	32	21	15
11/9/04 12:54 PM	6.00	17065 (SR22)	14.6	7.37	7.66	77	288	*	0.25	59.3	117	4	< 0.02	0.19	0.11	10	60	80	23	28
11/9/04 1:34 PM	6.00	10430 (SR21)	14.8	7.26	7.84	79	358	*	0.24	60.6	105	*	< 0.02	0.22	0.07	12	50	80	46	34
11/9/04 2:25 PM	6.00	10429 (SR19)	15.5	7.32	8.44	86	321	*	0.32	45.8	62	13	< 0.02	0.19	0.07	12	40	68	43	31
11/10/04 6:59 AM	5.00	10428 (SR17)	14.5	7.34	8.57	86	324	*	0.32	46.3	73	*	*	*	*	10	30	60	*	*
11/10/04 7:29 AM	5.00	10427 (SR16)	14.8	7.33	8.27	83	306	*	0.27	52.1	46	*	< 0.02	0.18	< 0.04	10	40	60	43	29
11/10/04 7:59 AM	5.00	10426 (SR15)	14.7	7.33	8.5	85	315	*	0.29	50	36	*	< 0.02	0.21	< 0.04	11	30	64	45	30
11/10/04 8:29 AM	5.00	10423 (SR14)	15.4	7.4	8.57	87	345	*	0.29	49.4	81	*	< 0.02	1	0.19	10	30	64	48	31
11/10/04 9:57 AM	5.00	13628 (SR11)	15.9	7.47	8.68	89	354	*	0.31	45	58	*	< 0.02	0.57	0.08	9	40	60	51	33
11/10/04 10:34 AM	5.00	10415 (SR10)	16.5	7.35	8.52	89	372	*	0.3	34.5	52	*	< 0.02	0.47	0.05	9	40	68	58	32

*: Not sampled on this run

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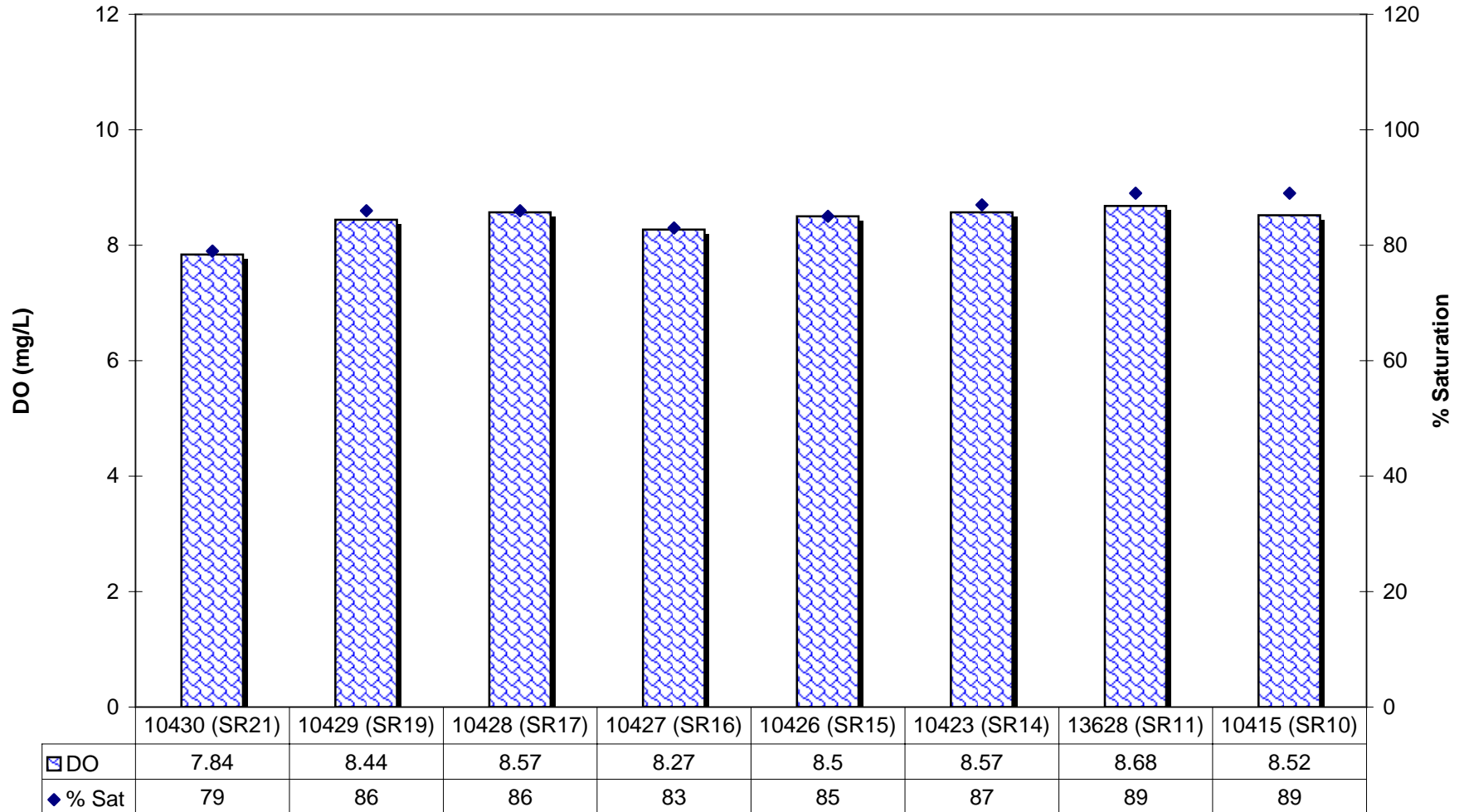
Upper Sabine Basin DO / % Saturation (1 of 2)



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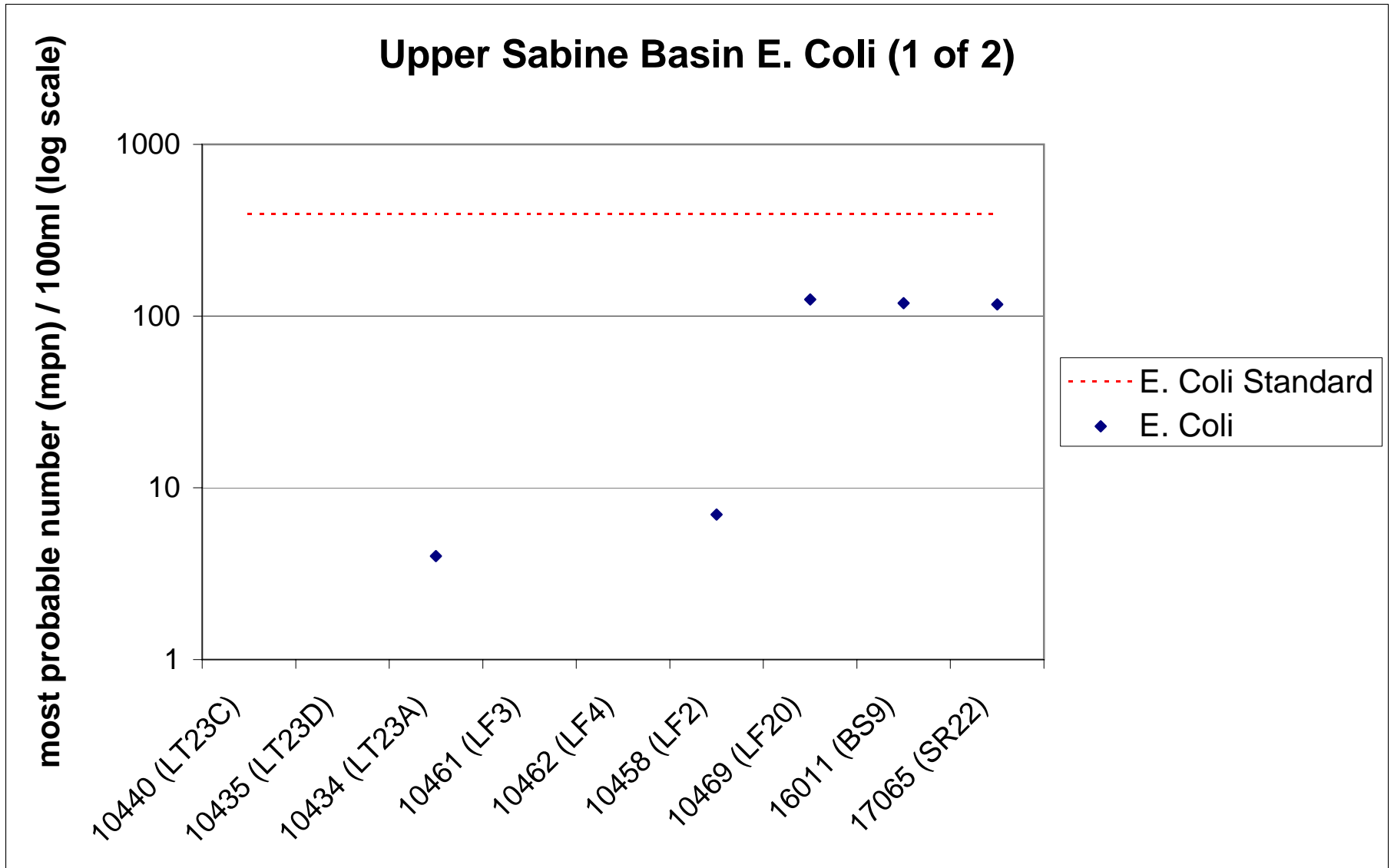
November 2004

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



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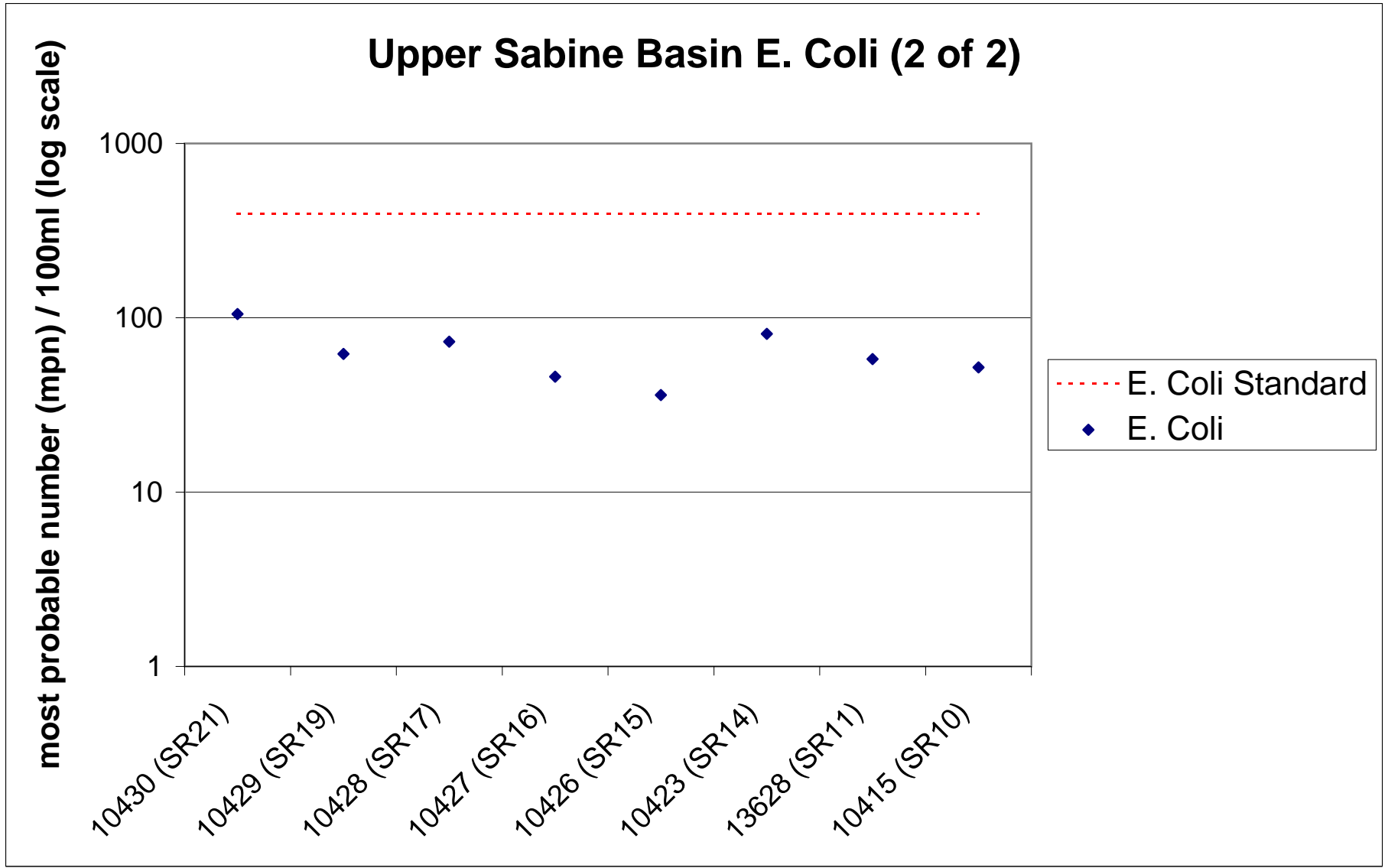
November 2004



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

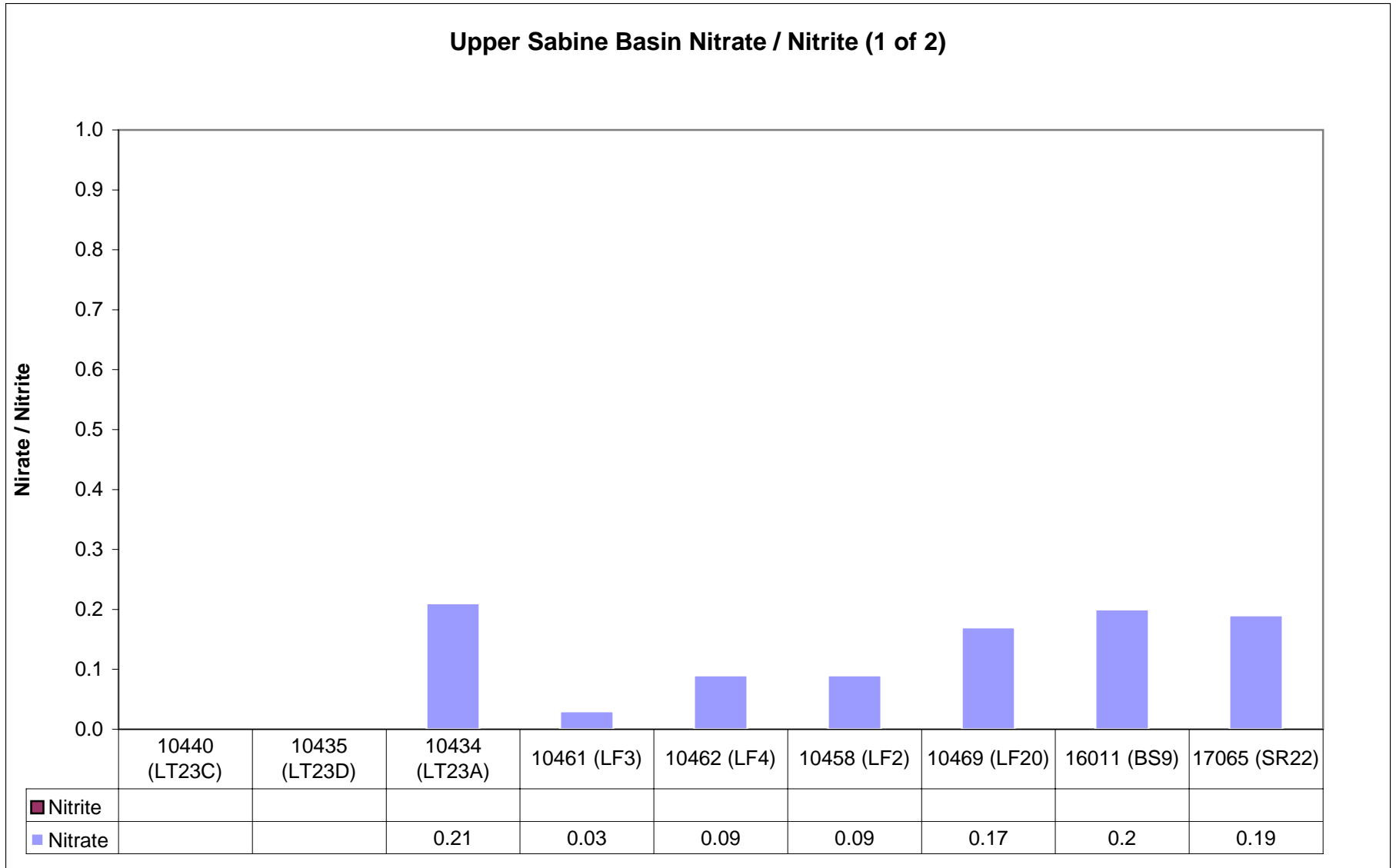
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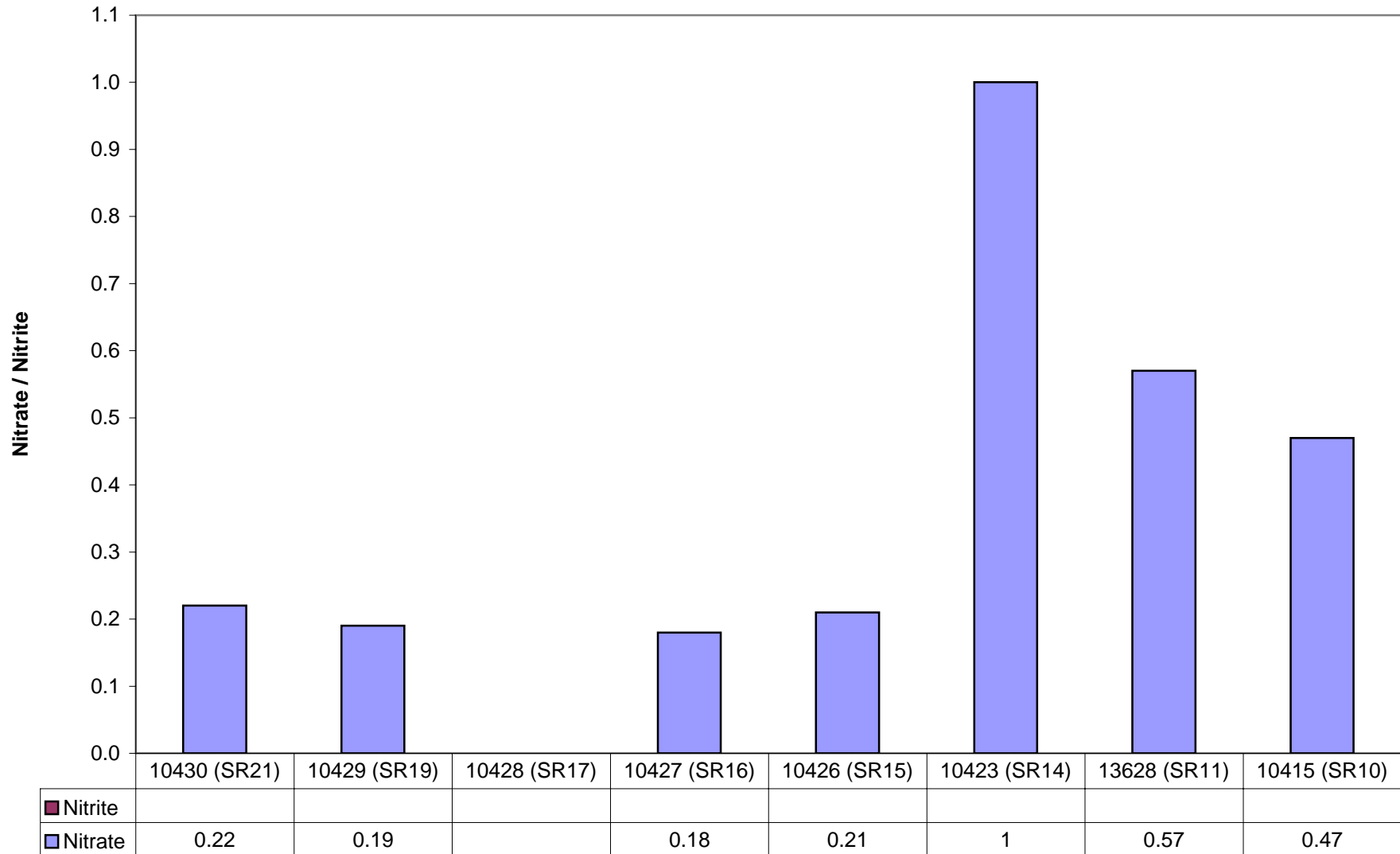


Stations without values below detection limit (< 0.02 mg/L) on this run (see page 2)

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Upper Sabine Basin Nitrate / Nitrite (2 of 2)



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

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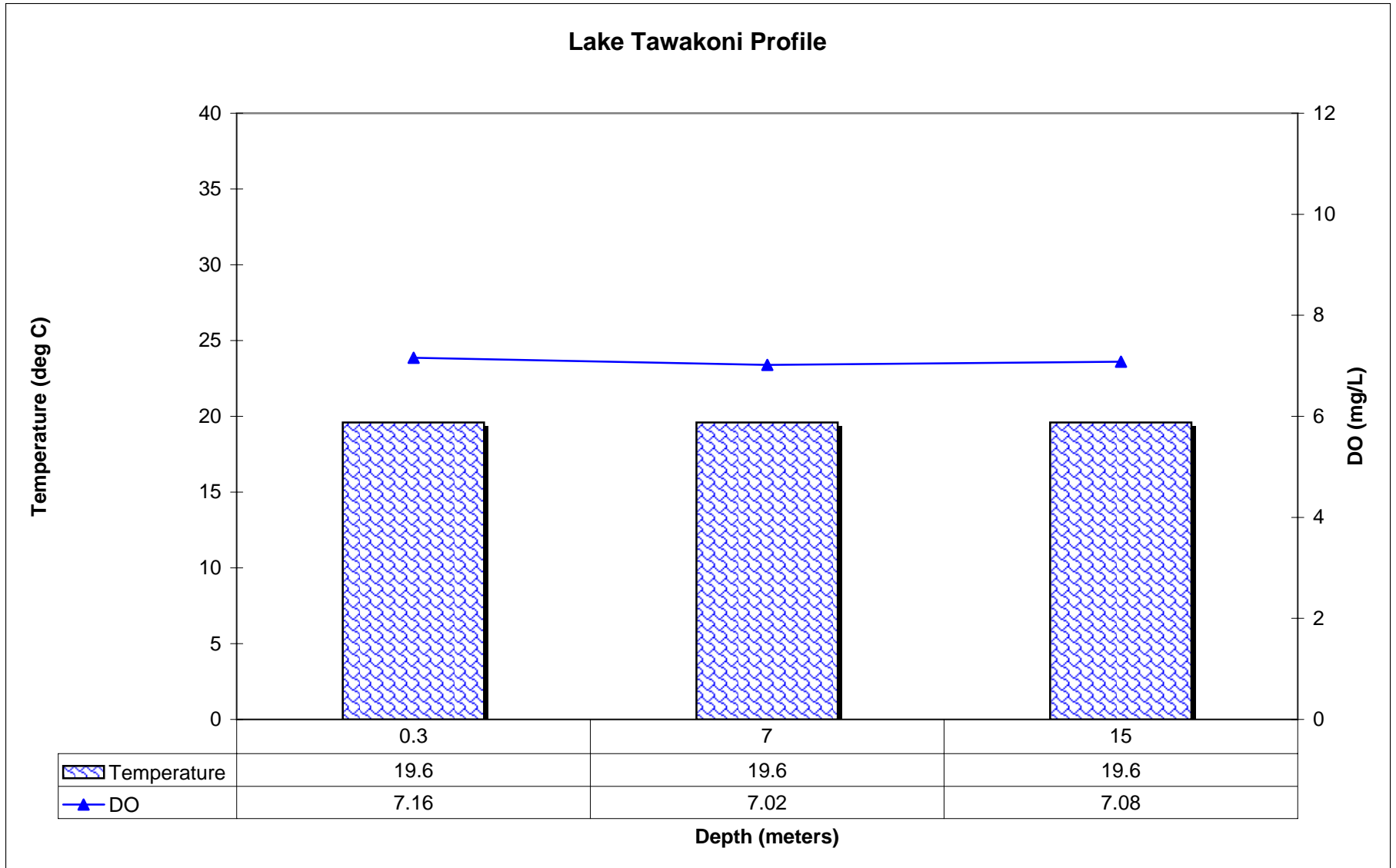
Upper Basin Profiles

November 2004

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
11/9/04 11:45 AM	7.00	10440 (LT23C)	0.3	18.8	8.98	9.65	106	211
			2	18.7	8.78	8.77	96	210
			3.8	18.7	8.81	8.87	97	211
11/9/04 10:55 AM	7.00	10435 (LT23D)	0.3	18.8	8.75	9.24	101	210
			4	18.6	8.57	8.72	95	209
			8.7	17.3	8.47	8.72	95	215
11/9/04 9:50 AM	7.00	10434 (LT23A)	0.3	19.6	7.94	7.16	79	207
			7	19.6	7.9	7.02	78	208
			15	19.6	7.86	7.08	79	216
11/9/04 8:35 AM	6.12	10461 (LF3)	0.3	19.5	7.78	8.27	92	183
			5	19.5	7.74	8.79	98	179
			9.4	19.5	7.71	8.51	94	180
11/9/04 8:55 AM	6.12	10462 (LF4)	0.3	20	7.52	7.37	83	182
			5.3	20.1	7.51	7.34	82	180
			10.3	19.9	7.59	7.74	87	183
11/9/04 7:55 AM	6.12	10458 (LF2)	0.3	20	7.27	5.98	67	181
			10	20	7.26	5.81	65	177
			17.9	18	7.54	0.34	4	253

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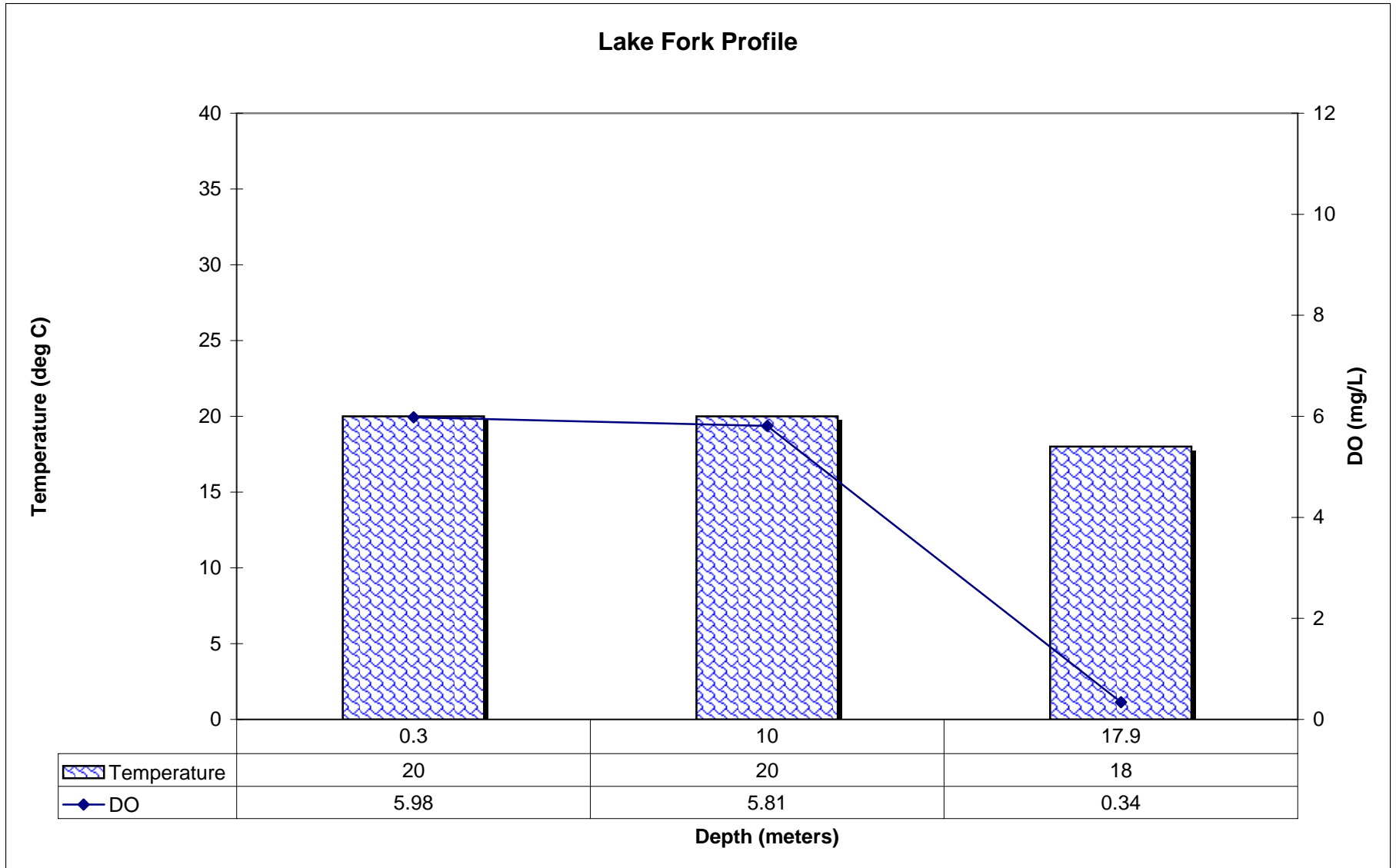
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For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

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Lake Tawakoni Weather and Reservoir Data

November 2004

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
11/1/2004	436.46	(1.04)	6	78	65	1.20	0.25
11/2/2004	436.47	(1.03)	6	65	61	0.05	0.00
11/3/2004	436.53	(0.97)	6	63	53	0.41	0.04
11/4/2004	436.50	(1.00)	6	55	46	0.00	0.10
11/5/2004	436.48	(1.02)	6	63	45	0.00	0.12
11/6/2004	436.47	(1.03)	6	72	42	0.00	0.09
11/7/2004	436.45	(1.05)	6	79	44	0.00	0.13
11/8/2004	436.44	(1.06)	6	80	52	0.00	0.16
11/9/2004	436.41	(1.09)	6	73	49	0.00	0.13
11/10/2004	436.37	(1.13)	6	78	50	0.00	0.18
11/11/2004	436.37	(1.13)	6	74	50	0.04	0.10
11/12/2004	436.36	(1.14)	6	56	44	0.00	0.07
11/13/2004	436.34	(1.16)	6	52	44	0.00	0.08
11/14/2004	436.32	(1.18)	6	58	46	0.03	0.05
11/15/2004	436.32	(1.18)	6	56	47	0.02	0.08
11/16/2004	436.31	(1.19)	6	63	55	0.00	0.04
11/17/2004	436.31	(1.19)	6	74	61	0.00	0.12
11/18/2004	436.48	(1.02)	6	62	55	1.90	0.00
11/19/2004	436.51	(0.99)	6	60	54	0.00	0.02
11/20/2004	436.52	(0.98)	6	66	52	0.00	0.01
11/21/2004	436.54	(0.96)	6	70	56	0.24	0.00
11/22/2004	436.65	(0.85)	6	67	59	1.16	0.00
11/23/2004	436.87	(0.63)	6	62	59	0.78	0.00
11/24/2004	437.31	(0.19)	6	65	46	0.57	0.02
11/25/2004	437.42	(0.08)	6	48	32	0.00	0.06
11/26/2004	437.42	(0.08)	6	59	49	0.00	0.13
11/27/2004	437.71	0.21	126	71	52	0.00	0.05
11/28/2004	437.58	0.08	46	60	42	0.00	0.29
11/29/2004	437.57	0.07	46	60	43	0.02	0.33
11/30/2004	437.65	0.15	46	63	41	0.40	0.05
Avg or Tot	436.70	(0.80)	14	65	50	6.82	2.70

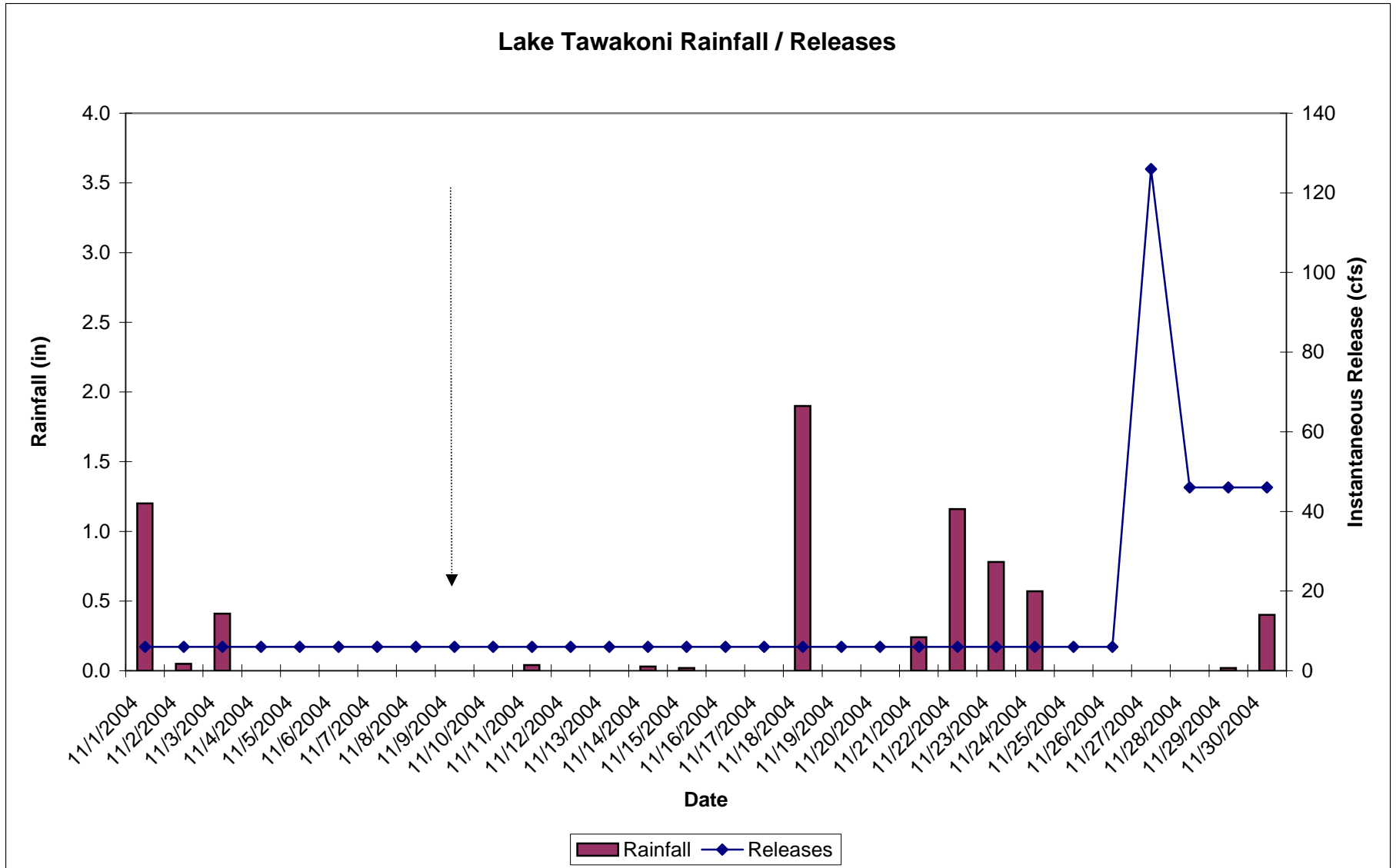
	Avg	Avg	Avg	Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	Deg F	Deg F	Inches	Inches
			Instantaneous appx. 8 a.m.				

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

Lake Tawakoni Sampled on 11/9/2004

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Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

November 2004

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
11/1/2004	401.69	(1.31)	64	8	84	63	1.48	0.00
11/2/2004	401.72	(1.28)	8	8	70	60	0.07	0.05
11/3/2004	401.74	(1.26)	8	8	66	52	0.37	0.01
11/4/2004	401.72	(1.28)	8	8	58	47	0.02	0.12
11/5/2004	401.70	(1.30)	8	8	68	46	0.00	0.10
11/6/2004	401.68	(1.32)	8	8	71	48	0.00	0.10
11/7/2004	401.66	(1.34)	8	8	79	54	0.00	0.10
11/8/2004	401.65	(1.35)	8	8	80	54	0.00	0.10
11/9/2004	401.64	(1.36)	8	8	76	48	0.00	0.20
11/10/2004	401.62	(1.38)	8	8	75	51	0.00	0.04
11/11/2004	401.65	(1.35)	8	8	78	58	0.00	0.08
11/12/2004	401.60	(1.40)	8	8	60	46	0.00	0.08
11/13/2004	401.57	(1.43)	8	8	56	50	0.00	0.05
11/14/2004	401.55	(1.45)	8	8	61	47	0.00	0.08
11/15/2004	401.55	(1.45)	8	8	60	56	0.00	0.09
11/16/2004	401.53	(1.47)	8	8	68	62	0.00	0.05
11/17/2004	401.53	(1.47)	8	8	78	60	0.00	0.12
11/18/2004	401.70	(1.30)	8	8	66	56	1.48	0.00
11/19/2004	401.73	(1.27)	8	8	63	53	0.02	0.07
11/20/2004	401.74	(1.26)	8	8	78	56	0.00	0.13
11/21/2004	401.76	(1.24)	8	8	74	60	0.23	0.00
11/22/2004	401.84	(1.16)	8	8	70	60	0.45	0.00
11/23/2004	402.15	(0.85)	8	8	66	62	0.65	0.00
11/24/2004	402.42	(0.58)	8	8	70	46	0.67	0.17
11/25/2004	402.41	(0.59)	8	8	51	34	0.00	0.17
11/26/2004	402.41	(0.59)	8	8	62	50	0.00	0.11
11/27/2004	402.47	(0.53)	8	8	70	51	0.05	0.03
11/28/2004	402.41	(0.59)	8	8	63	43	0.00	0.04
11/29/2004	402.40	(0.60)	8	8	62	58	0.00	0.18
11/30/2004	402.47	(0.53)	8	8	66	42	0.53	0.00
Avg or Tot	401.86	(1.14)	10	8	68	52	6.02	2.27

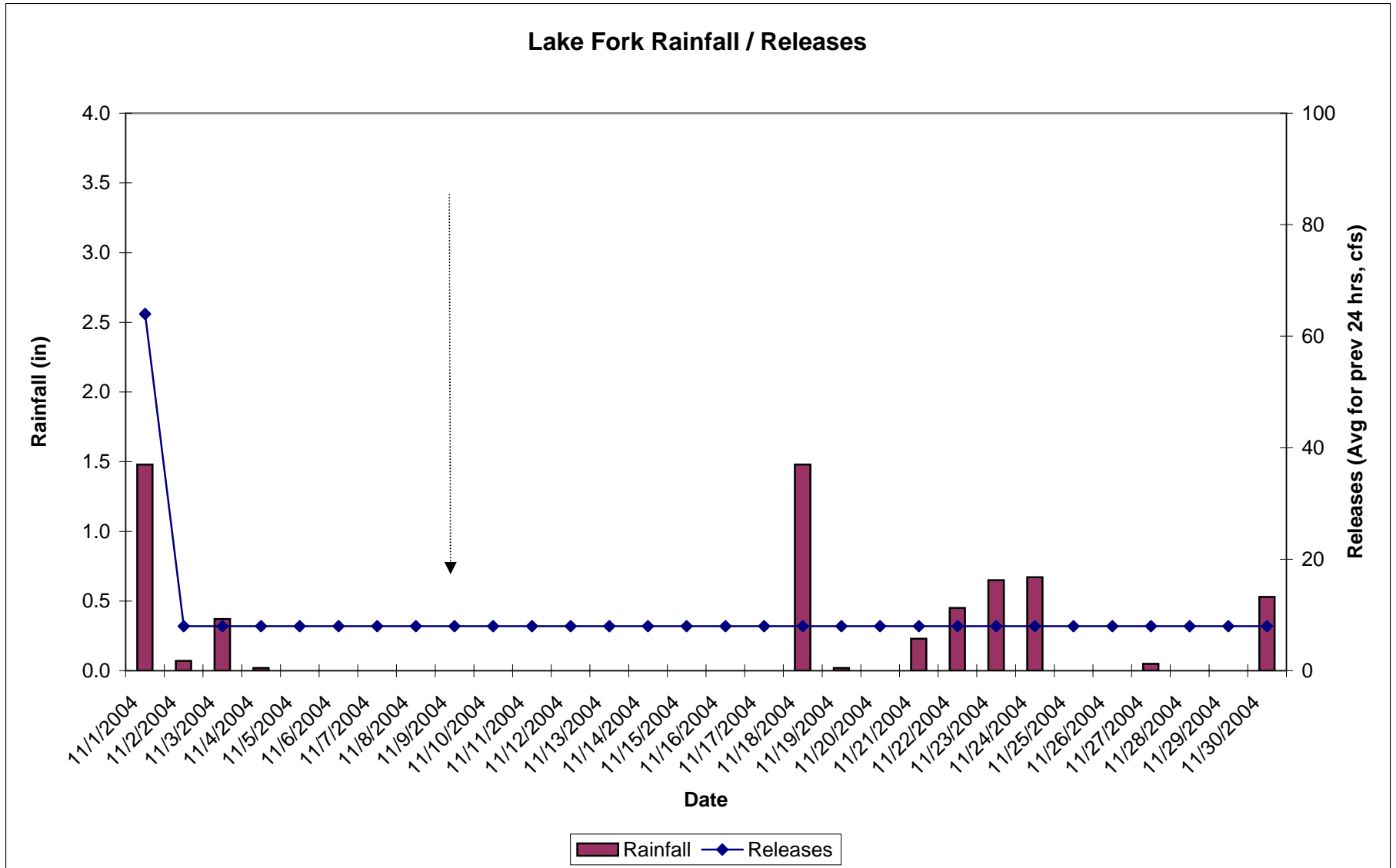
	Avg	Avg	Avg		Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	cfs	Deg F	Deg F	Inches	Inches
			Previous 24 hrs					

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

Lake Fork Sampled on 11/9/2004

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November 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.

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Lower Basin Report

November 2004

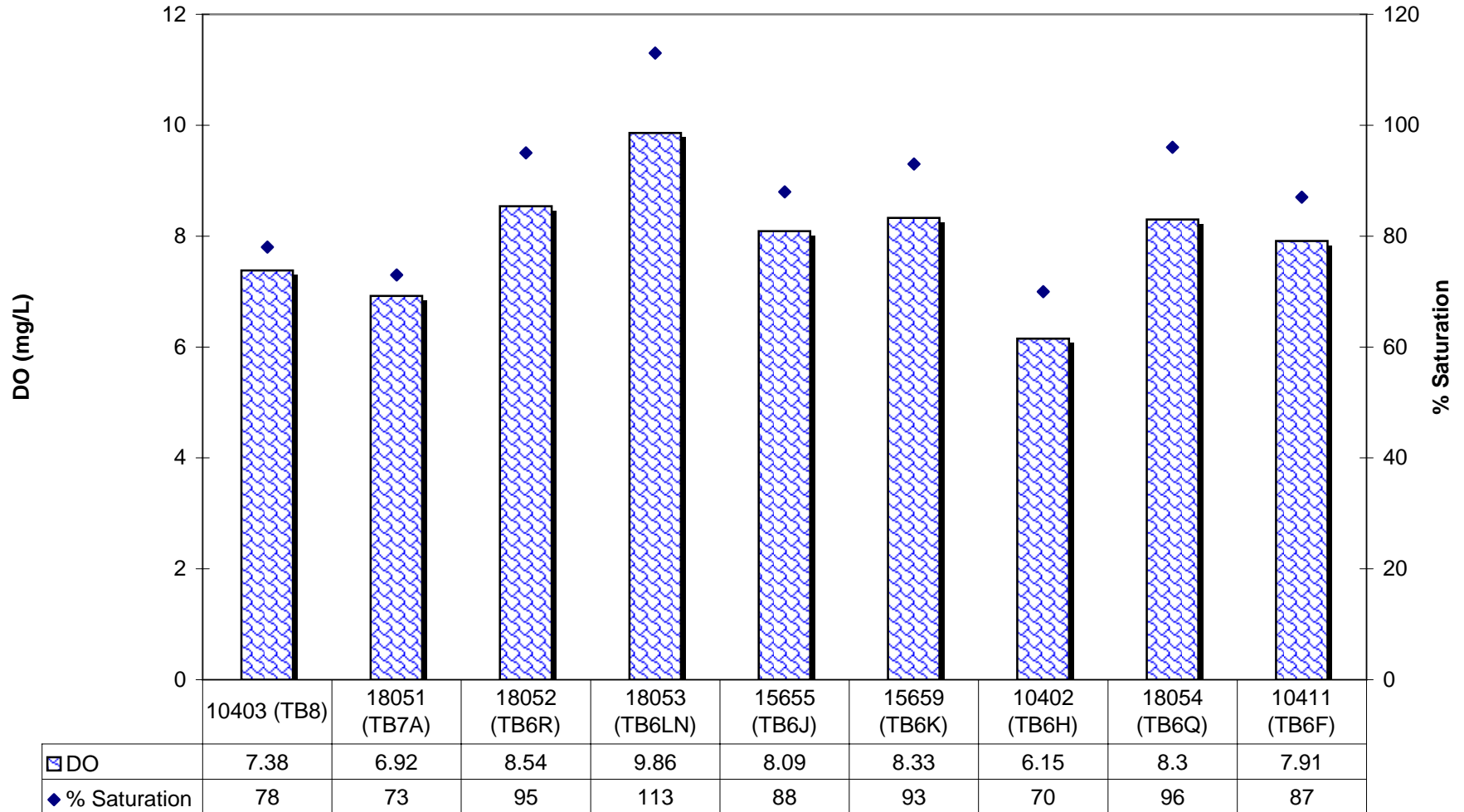
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
11/10/04 11:11 AM	4.00	10403 (TB8)	17.3	7.19	7.38	78	263	*	0.38	30.6	41	*	< 0.02	0.3	< 0.04	10	40	52	31	26
11/10/04 11:46 AM	4.00	18051 (TB7A)	17.5	7.08	6.92	73	237	*	0.34	29.3	40	*	0.02	0.28	0.05	11	30	72	26	25
11/8/04 9:35 AM	4.00	18052 (TB6R)	20.5	7.74	8.54	95	190	*	0.78	3.49	< 1	40	< 0.02	< 0.02	< 0.04	9	40	48	22	17
11/8/04 11:53 AM	4.00	18053 (TB6LN)	22.1	8.43	9.86	113	147	*	0.71	3.82	1	*	< 0.02	< 0.02	< 0.04	8	30	36	16	14
11/11/04 9:55 AM	4.00	15655 (TB6J)	19.5	7.29	8.09	88	145	*	0.55	8.7	1	*	< 0.02	< 0.02	< 0.04	9	30	44	15	20
11/11/04 10:40 AM	4.00	15659 (TB6K)	20.6	7.48	8.33	93	146	*	0.66	5.22	< 1	*	< 0.02	< 0.02	< 0.04	8	30	44	17	15
11/8/04 10:40 AM	4.00	10402 (TB6H)	22	6.98	6.15	70	152	*	1.04	2.39	< 1	12	< 0.02	0.14	< 0.04	8	30	44	17	15
11/8/04 12:40 PM	4.00	18054 (TB6Q)	22.6	7.51	8.3	96	144	*	1.14	2.09	1	*	< 0.02	0.08	< 0.04	8	30	40	16	14
11/11/04 10:15 AM	4.00	10411 (TB6F)	20.3	7.18	7.91	87	124	*	0.79	5.88	1	27	< 0.02	< 0.02	< 0.04	7	30	36	14	14
11/11/04 9:20 AM	4.00	10407 (TB6CN)	20	6.53	7.74	85	119	*	0.69	5.44	2	*	< 0.02	< 0.02	< 0.04	8	20	28	14	15
11/8/04 1:33 PM	4.00	10404 (TB6A)	22.7	7.1	7.73	90	140	*	1.51	1.18	< 1	10	< 0.02	0.04	< 0.04	7	30	36	15	15
11/10/04 12:45 PM	3.03	10340 (BA4)	19.1	7.14	8.04	87	329	*	0.15	57.1	23	*	0.02	0.12	0.04	13	40	32	12	91
11/10/04 10:23 AM	3.00	10401 (TB6S)	20.8	7.07	8.44	94	144	*	> 1.22	1	2	*	< 0.02	0.04	< 0.04	7	30	36	16	14
11/10/04 12:15 PM	3.00	10399 (SR5)	21.3	7.11	7.71	87	137	*	0.65	3.57	11	8	< 0.02	0.07	< 0.04	7	30	36	16	15
11/10/04 1:05 PM	3.00	10398 (SR3)	20.6	7.21	8.13	91	147	*	0.41	8.55	21	5	< 0.02	0.06	< 0.04	7	30	36	15	20
11/10/04 9:05 AM	2.05	10465 (BCC1)	15.8	6.5	9.03	91	39	*	0.44	13.2	86	*	< 0.02	0.07	< 0.04	7	< 10	20	< 10	< 10
11/10/04 8:25 AM	2.00	10397 (SR2)	19	6.8	7.55	81	122	*	0.26	15.6	105	6	< 0.02	0.07	< 0.04	8	20	28	13	17

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

November 2004

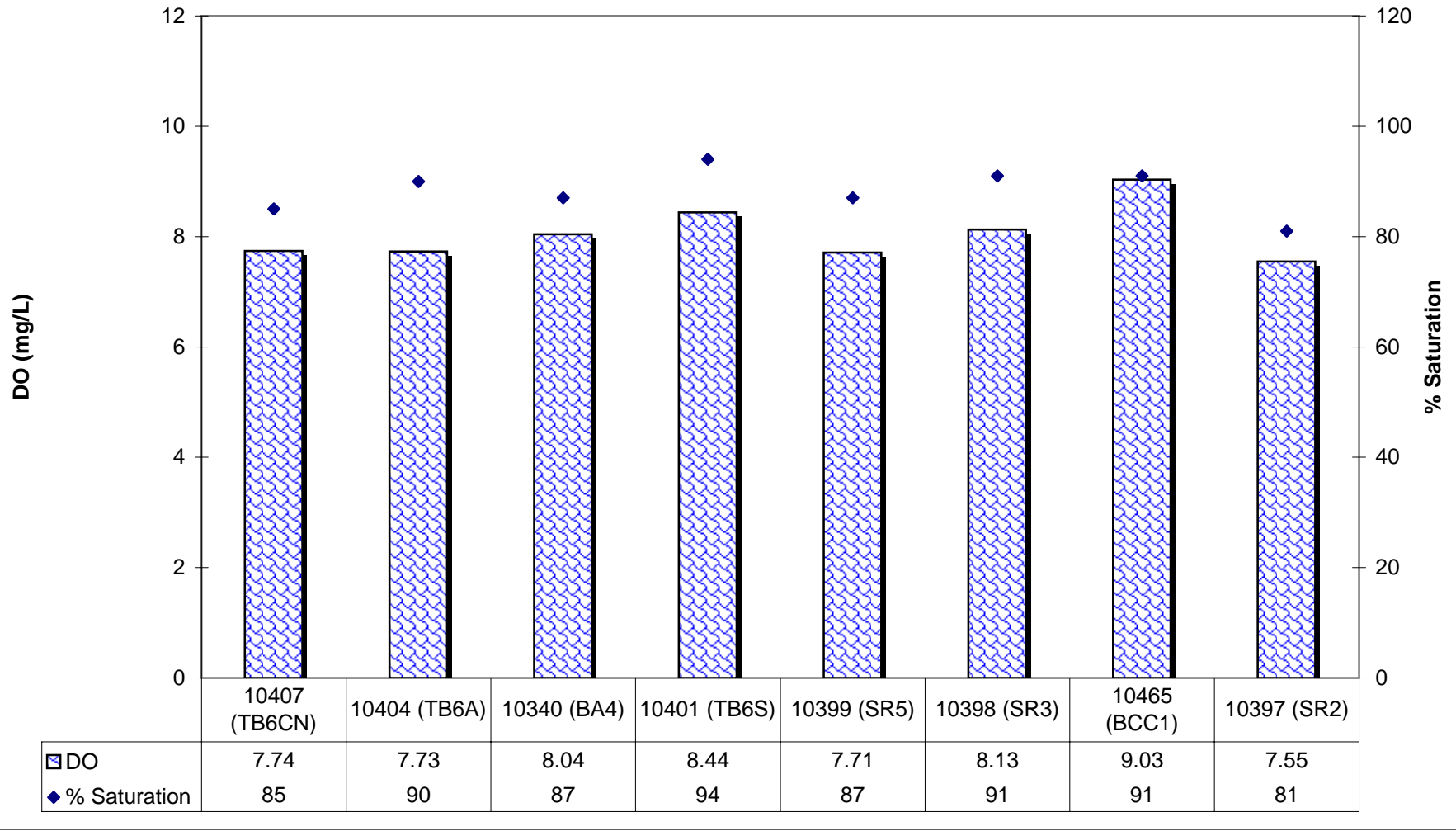
Lower Sabine Basin DO / % Saturation (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

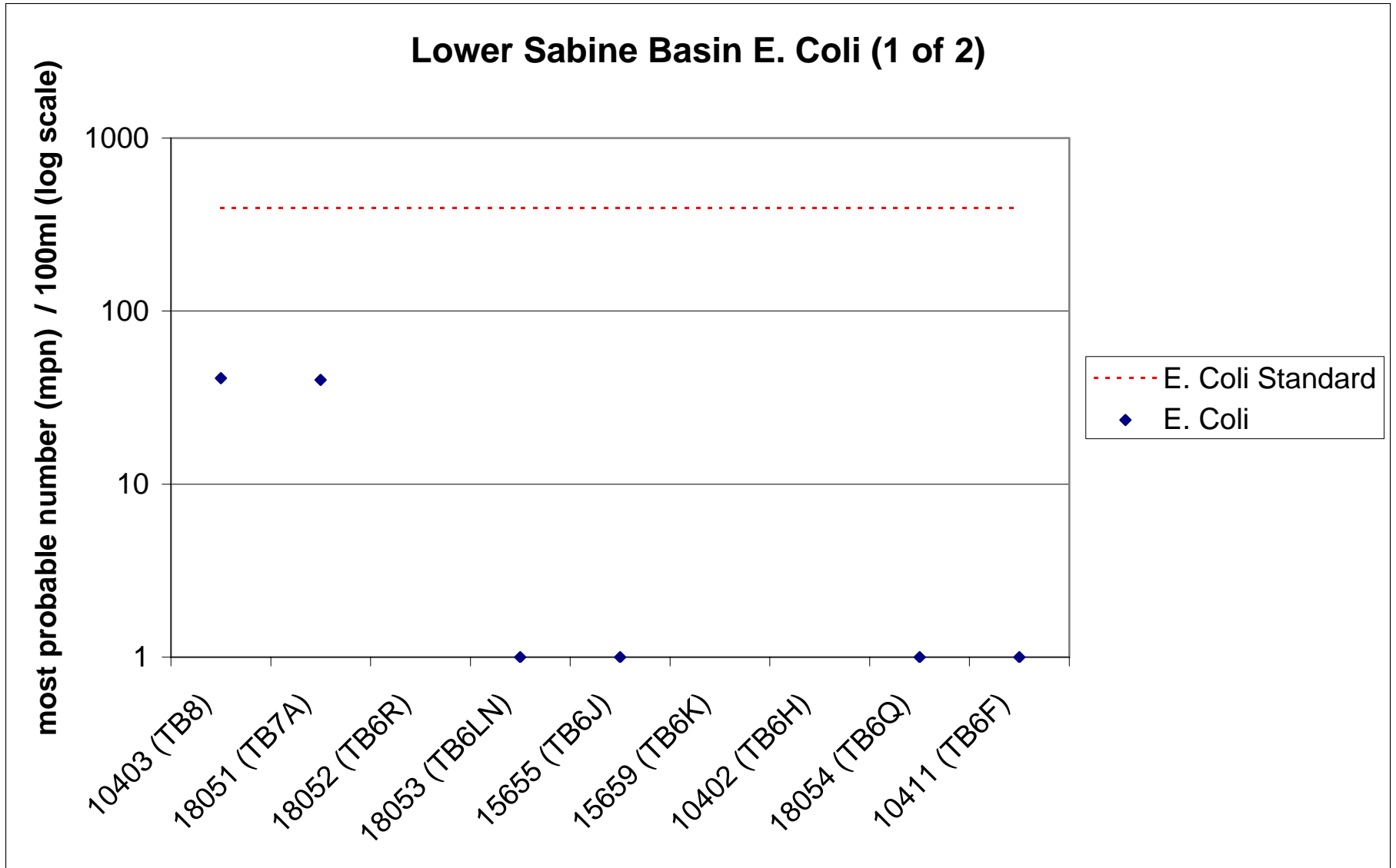
November 2004

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



SABINE RIVER AUTHORITY OF TEXAS

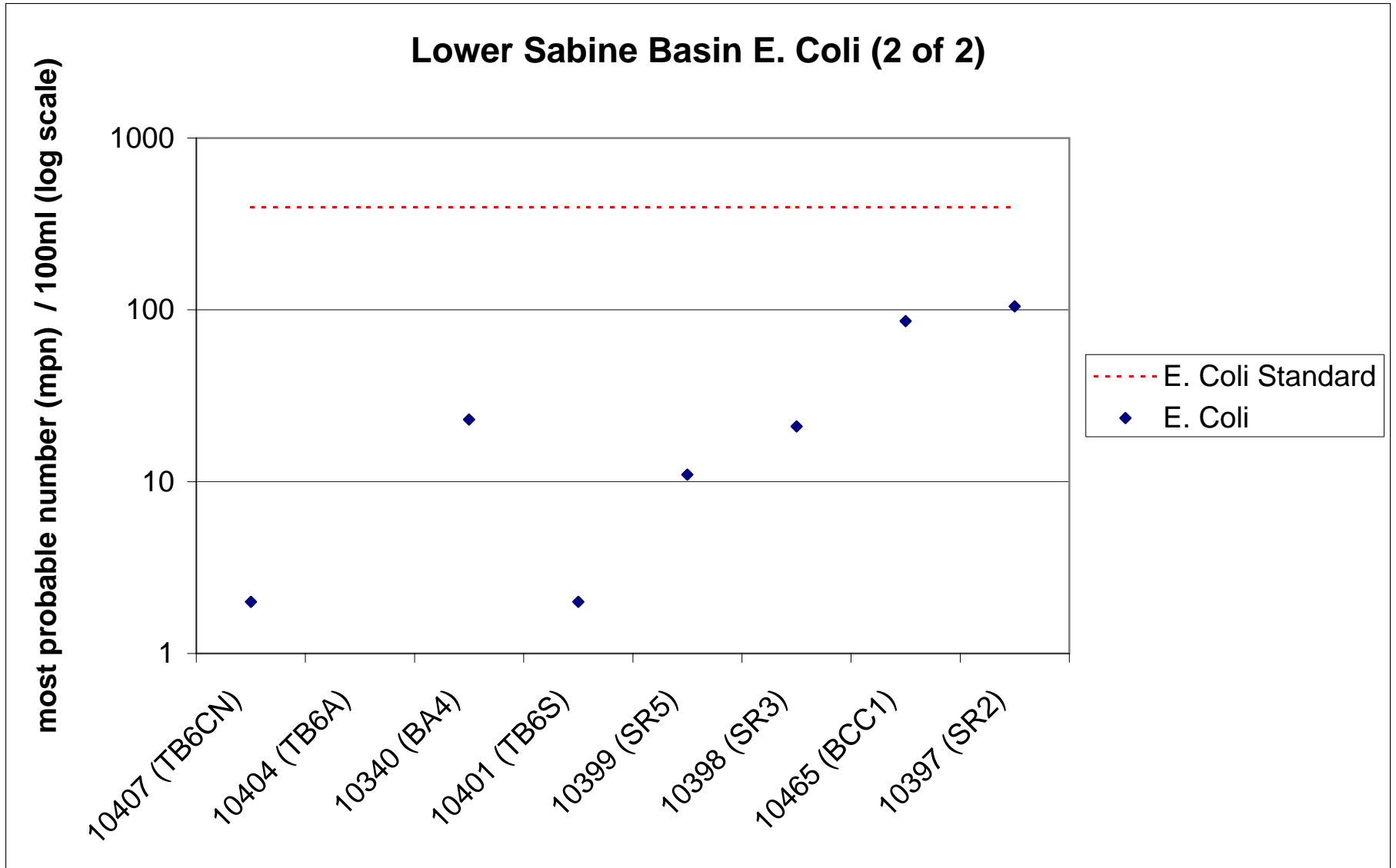
November 2004



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

SABINE RIVER AUTHORITY OF TEXAS

November 2004

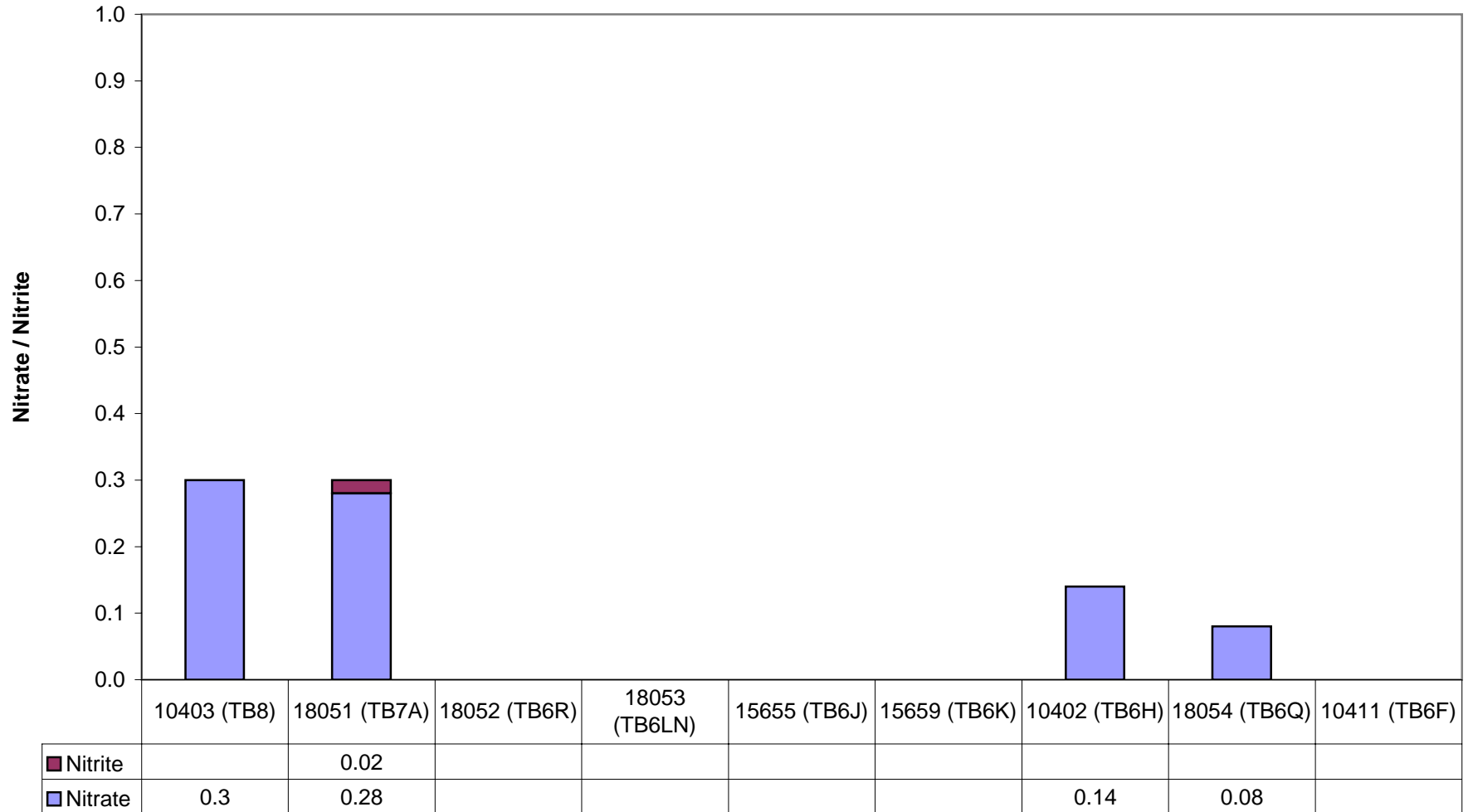


Stations without values were below detection limit on this run (see page 18)

SABINE RIVER AUTHORITY OF TEXAS

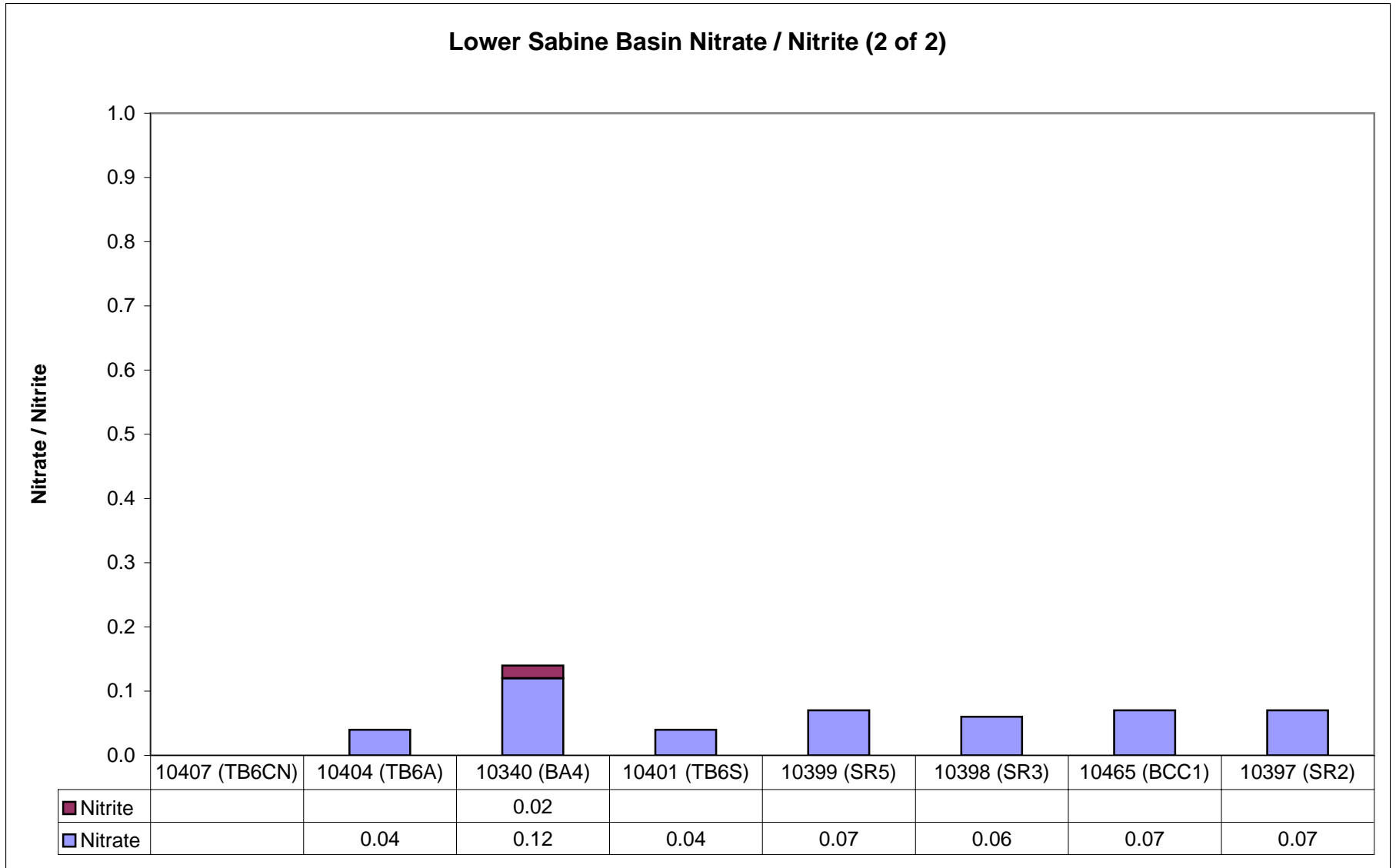
November 2004

Lower Sabine Basin Nitrate / Nitrite (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

November 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

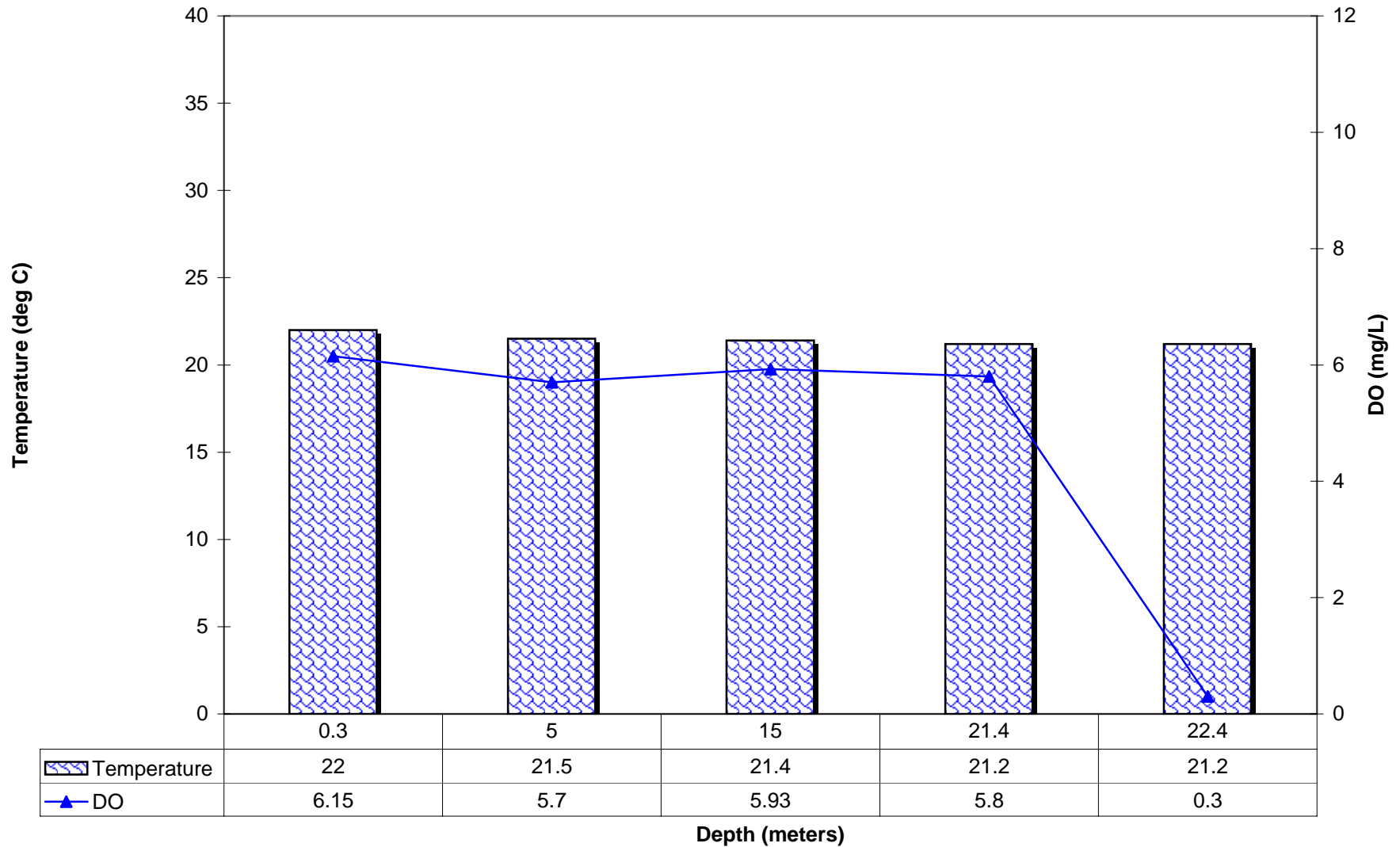
November 2004

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity
				°C 00010	Units 00400	mg/L 00300	Saturation 00301	µS/cm 00094
11/10/04 11:11 AM	4.00	10403 (TB8)	0.3	17.3	7.19	7.38	78	263
			5.4	16.8	7.14	7.19	75	265
			10.8	16.8	7.09	7.15	76	260
11/10/04 11:46 AM	4.00	18051 (TB7A)	0.3	17.5	7.08	6.92	73	237
			5	16.8	7.01	6.68	70	238
			10	16.7	6.97	6.74	71	234
11/8/04 9:35 AM	4.00	18052 (TB6R)	0.3	20.5	7.74	8.54	95	190
			4	20.3	7.46	7.75	86	190
			8	20.1	7.4	7.54	83	190
			13.4	19.8	7.21	7.08	78	183
11/8/04 11:53 AM	4.00	18053 (TB6LN)	0.3	22.1	8.43	9.86	113	147
			1.5	21.3	8.09	8.98	101	147
			2.5	21.1	7.21	7.85	88	146
			5.2	21	7.23	6.99	79	145
11/11/04 9:55 AM	4.00	15655 (TB6J)	0.3	19.5	7.29	8.09	88	145
			2	19.5	7.26	7.84	85	144
			4	19.4	7.34	7.08	76	143
11/11/04 10:40 AM	4.00	15659 (TB6K)	0.3	20.6	7.48	8.33	93	146
			4	20.3	7.3	7.47	82	144
			8.7	19.9	7.37	6.53	72	142
11/8/04 10:40 AM	4.00	10402 (TB6H)	0.3	22	6.98	6.15	70	152
			5	21.5	7	5.7	65	151
			15	21.4	7.05	5.93	67	151
			21.4	21.2	7.14	5.8	66	152
			22.4	21.2	6.9	0.3	3	320
11/8/04 12:40 PM	4.00	18054 (TB6Q)	0.3	22.6	7.51	8.3	96	144
			4	22	7.27	7.52	85	145
			8.2	21.8	7.25	6.96	79	145
11/11/04 10:15 AM	4.00	10411 (TB6F)	0.3	20.3	7.18	7.91	87	124
			2	20.2	7.1	7.56	83	124
			4.3	19.6	7.04	5.3	58	116
11/11/04 9:20 AM	4.00	10407 (TB6CN)	0.3	20	6.53	7.74	85	119
			3	18.9	6.41	5.72	61	98
			6.1	17.8	6.42	4.35	45	83
11/8/04 1:33 PM	4.00	10404 (TB6A)	0.3	22.7	7.1	7.73	90	140
			5	21.6	6.98	6.49	73	138
			10	21.5	6.97	6.46	73	138
			15	21.3	6.87	5.32	62	135

SABINE RIVER AUTHORITY OF TEXAS

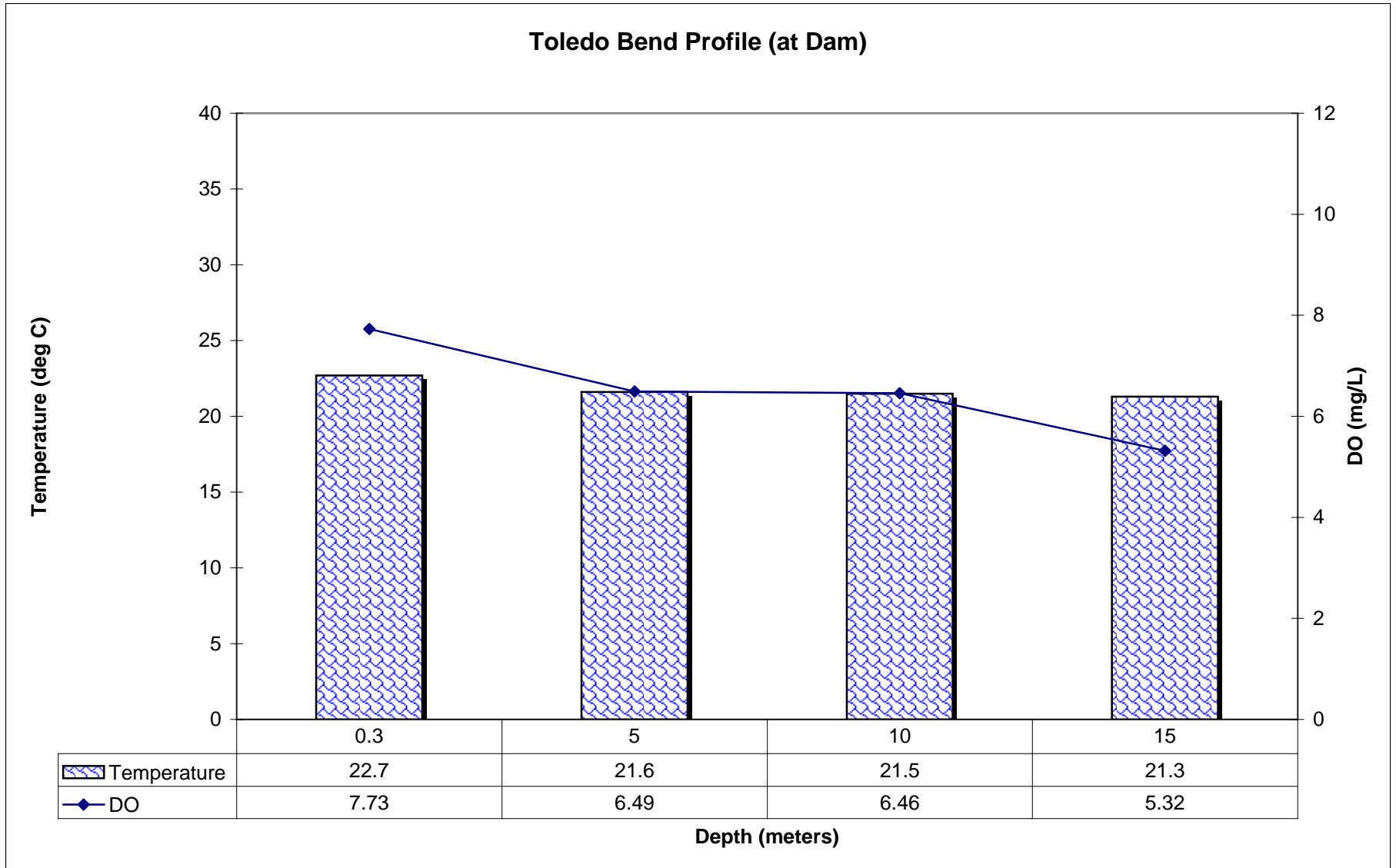
November 2004

Toledo Bend Profile (at Pendleton Bridge)



SABINE RIVER AUTHORITY OF TEXAS

November 2004



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

November 2004

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
11/1/2004	168.26	(3.74)	83	67	0.00	0.16	605	1,200	174
11/2/2004	168.83	(3.17)	78	65	3.45	0.00	4,370	8,668	174
11/3/2004	169.00	(3.00)	65	61	1.18	0.00	6,894	13,674	7,244
11/4/2004	169.05	(2.95)	63	49	0.00	0.07	6,919	13,724	7,094
11/5/2004	169.08	(2.92)	63	45	0.00	0.11	6,982	13,848	6,044
11/6/2004	169.01	(2.99)	66	44	0.00	0.17	7,061	14,005	7,044
11/7/2004	168.96	(3.04)	75	44	0.00	0.13	7,094	14,071	7,094
11/8/2004	168.96	(3.04)	76	50	0.00	0.11	7,044	13,971	7,094
11/9/2004	168.86	(3.14)	76	49	0.00	0.14	7,127	14,136	7,044
11/10/2004	168.75	(3.25)	71	47	0.00	0.13	3,474	6,890	7,244
11/11/2004	168.78	(3.22)	76	56	0.03	0.07	174	345	174
11/12/2004	168.88	(3.12)	68	49	0.00	0.21	4,851	9,621	174
11/13/2004	168.73	(3.27)	55	49	0.00	0.02	7,344	14,567	7,344
11/14/2004	168.59	(3.41)	52	48	0.00	0.04	7,394	14,665	7,394
11/15/2004	168.50	(3.50)	61	49	0.00	0.02	7,419	14,715	7,394
11/16/2004	168.42	(3.58)	70	58	0.00	0.08	7,444	14,765	7,444
11/17/2004	168.30	(3.70)	75	58	0.00	0.11	7,469	14,814	7,444
11/18/2004	168.35	(3.65)	69	60	0.67	0.06	7,494	14,864	7,494
11/19/2004	168.47	(3.53)	73	52	0.01	0.08	5,296	10,504	7,494
11/20/2004	168.50	(3.50)	71	52	1.03	0.14	7,374	14,626	7,374
11/21/2004	168.77	(3.23)	63	59	1.10	0.19	7,324	14,526	7,274
11/22/2004	169.07	(2.93)	70	60	0.21	0.03	12,707	25,204	7,344
11/23/2004	169.24	(2.76)	66	62	2.40	0.00	15,081	29,913	14,994
11/24/2004	169.73	(2.27)	75	56	1.03	NR	15,118	29,986	15,204
11/25/2004	170.03	(1.97)	56	41	0.00	NR	14,856	29,466	14,894
11/26/2004	170.08	(1.92)	58	40	0.00	0.13	14,750	29,256	14,779
11/27/2004	170.34	(1.66)	67	40	0.47	0.13	14,729	29,215	14,694
11/28/2004	170.38	(1.62)	66	37	0.00	0.30	14,772	29,300	14,799
11/29/2004	170.28	(1.72)	63	38	0.00	0.12	14,744	29,244	14,744
11/30/2004	170.69	(1.31)	69	53	0.87	0.30	14,719	29,195	14,744
Avg or Tot	169.10	(2.90)	68	51	12.45	3.05	8,621	512,978	

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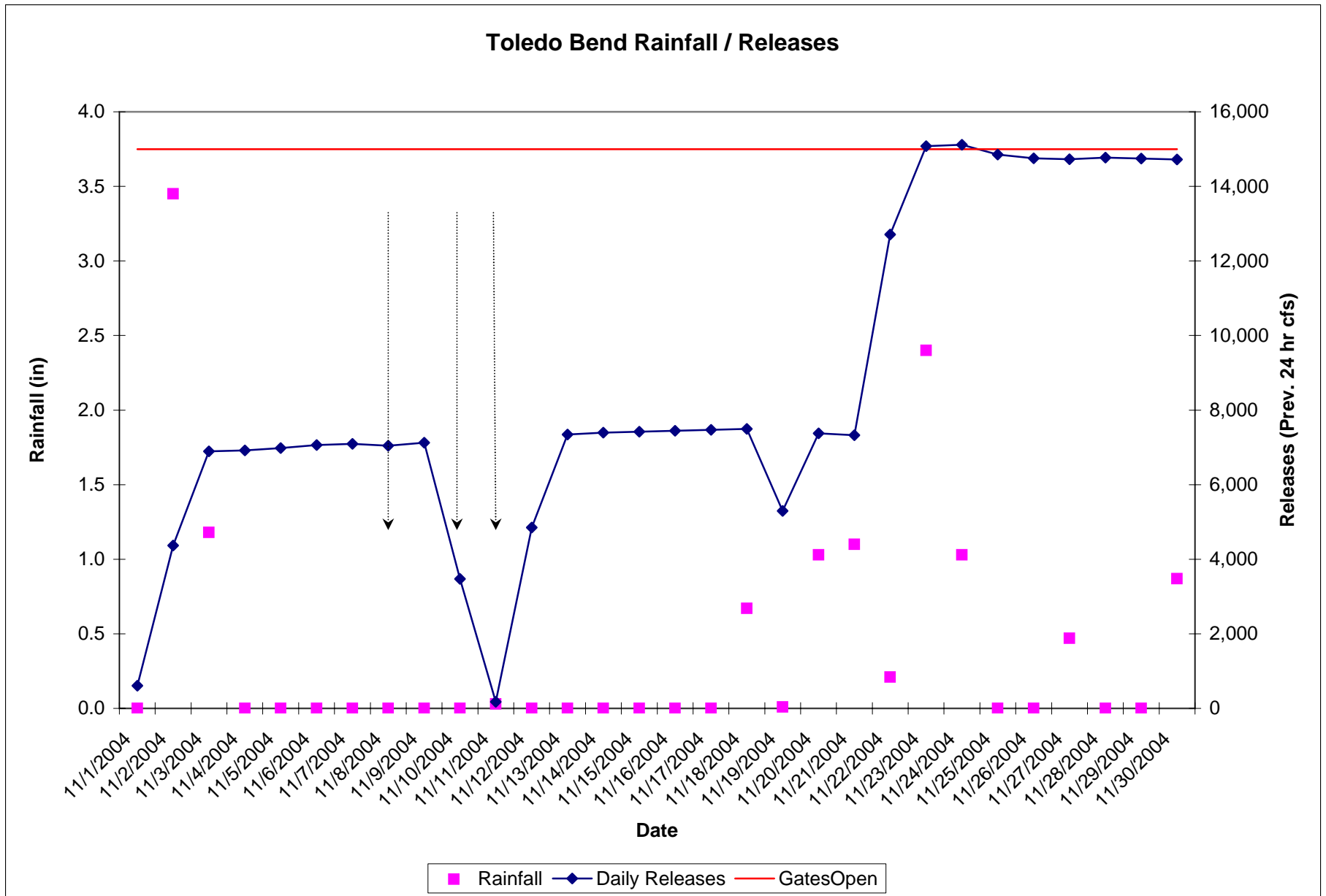
TOP: Top of Pool = 172 Feet M.S.L.

NR: No Reading

Toledo Bend Sampled on 11/8,10,11/2004

SABINE RIVER AUTHORITY OF TEXAS

November 2004



Toledo Bend sampled on 11/8,10,11/2004

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

SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

November 2004

Date	<i>Rainfall</i>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow</i>
11/1/2004	0.00	12.08	(25.92)	107
11/2/2004	3.26	15.36	(22.64)	1,480
11/3/2004	1.50	22.52	(15.48)	9,170
11/4/2004	0.00	21.69	(16.31)	7,970
11/5/2004	0.00	20.83	(17.17)	6,810
11/6/2004	0.00	20.56	(17.44)	6,460
11/7/2004	0.00	20.50	(17.50)	6,390
11/8/2004	0.00	20.48	(17.52)	6,360
11/9/2004	0.00	20.45	(17.55)	6,320
11/10/2004	0.00	20.43	(17.57)	6,300
11/11/2004	0.02	13.92	(24.08)	695
11/12/2004	0.00	12.50	(25.50)	199
11/13/2004	OUT	OUT	OUT	OUT
11/14/2004	0.00	20.47	(17.53)	6,350
11/15/2004	0.00	20.49	(17.51)	6,370
11/16/2004	0.00	20.52	(17.48)	6,410
11/17/2004	0.00	20.52	(17.48)	6,410
11/18/2004	0.45	20.59	(17.41)	6,500
11/19/2004	0.01	20.58	(17.42)	6,490
11/20/2004	0.80	19.71	(18.29)	5,430
11/21/2004	2.06	21.11	(16.89)	7,180
11/22/2004	0.04	21.74	(16.26)	8,040
11/23/2004	0.84	27.38	(10.62)	17,700
11/24/2004	3.04	29.19	(8.81)	21,500
11/25/2004	0.00	28.11	(9.89)	19,200
11/26/2004	0.00	27.00	(11.00)	17,000
11/27/2004	0.75	26.29	(11.71)	15,600
11/28/2004	0.02	25.99	(12.01)	15,000
11/29/2004	0.00	25.91	(12.09)	14,900
11/30/2004	0.00	25.85	(12.15)	14,700
Avg or Tot	12.79	21.47	(16.53)	8,726

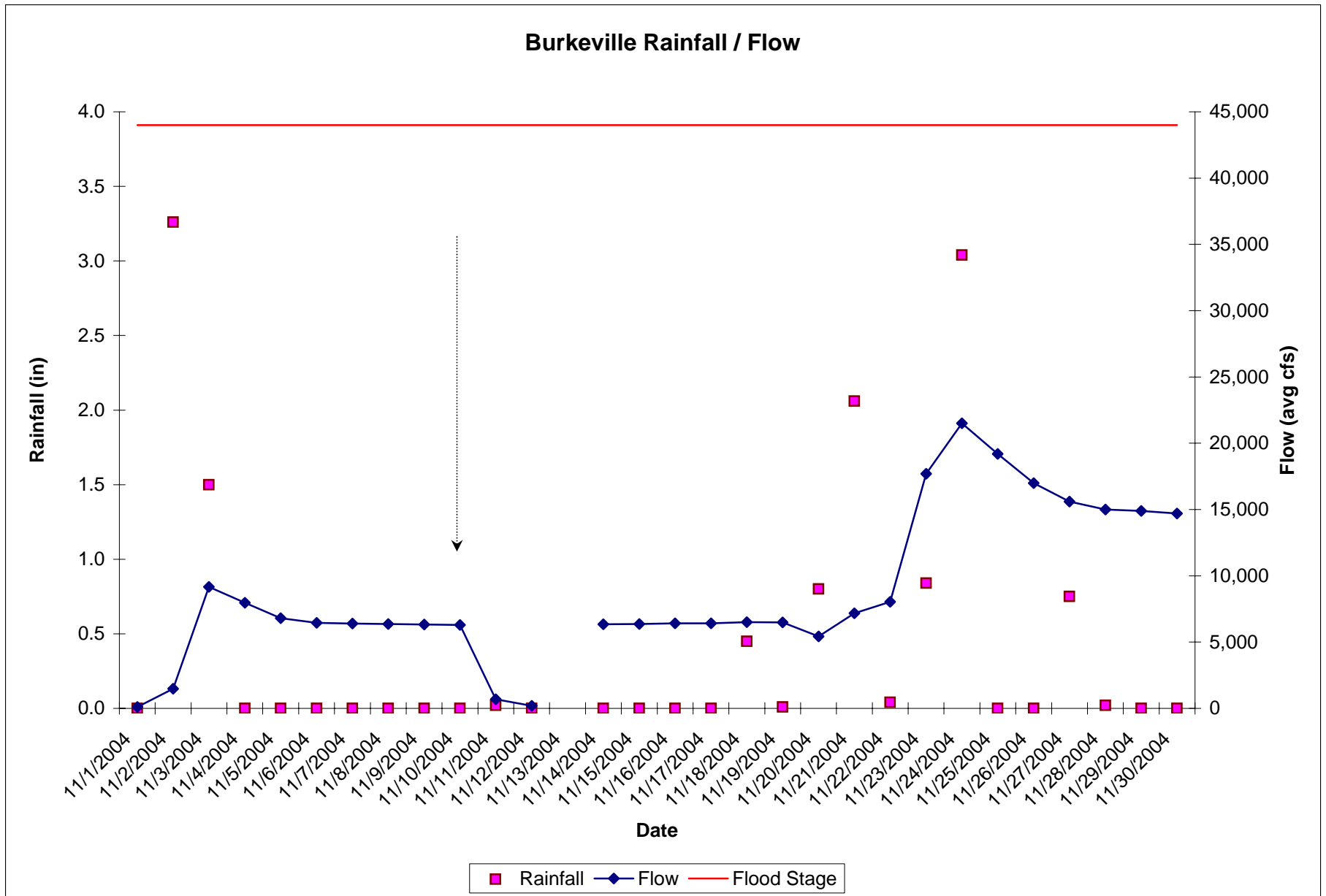
	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 38 feet

Lower Sabine Basin Sampled on 11/10/2004

SABINE RIVER AUTHORITY OF TEXAS

November 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

November 2004

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
11/1/2004	13.22	(16.78)	906	0.00
11/2/2004	13.56	(16.44)	1,090	0.41
11/3/2004	21.86	(8.14)	10,300	0.09
11/4/2004	24.90	(5.10)	15,700	0.00
11/5/2004	23.92	(6.08)	13,900	0.00
11/6/2004	OUT	OUT	OUT	OUT
11/7/2004	22.13	(7.87)	10,800	0.00
11/8/2004	21.44	(8.56)	9,670	0.00
11/9/2004	21.10	(8.90)	9,150	0.00
11/10/2004	20.93	(9.07)	8,890	0.00
11/11/2004	19.91	(10.09)	7,380	0.00
11/12/2004	15.51	(14.49)	2,410	0.00
11/13/2004	15.06	(14.94)	2,050	0.00
11/14/2004	20.37	(9.63)	8,040	0.00
11/15/2004	20.57	(9.43)	8,340	0.00
11/16/2004	20.58	(9.42)	8,360	0.00
11/17/2004	20.58	(9.42)	8,360	0.00
11/18/2004	20.70	(9.30)	8,540	0.00
11/19/2004	21.35	(8.65)	9,530	0.00
11/20/2004	20.77	(9.23)	8,640	0.00
11/21/2004	22.03	(7.97)	10,600	0.01
11/22/2004	23.88	(6.12)	13,800	0.01
11/23/2004	OUT	OUT	OUT	OUT
11/24/2004	OUT	OUT	OUT	OUT
11/25/2004	OUT	OUT	OUT	OUT
11/26/2004	OUT	OUT	OUT	OUT
11/27/2004	OUT	OUT	OUT	OUT
11/28/2004	OUT	OUT	OUT	OUT
11/29/2004	OUT	OUT	OUT	OUT
11/30/2004	OUT	OUT	OUT	OUT
Avg or Tot	20.21	(9.79)	8,403	0.52

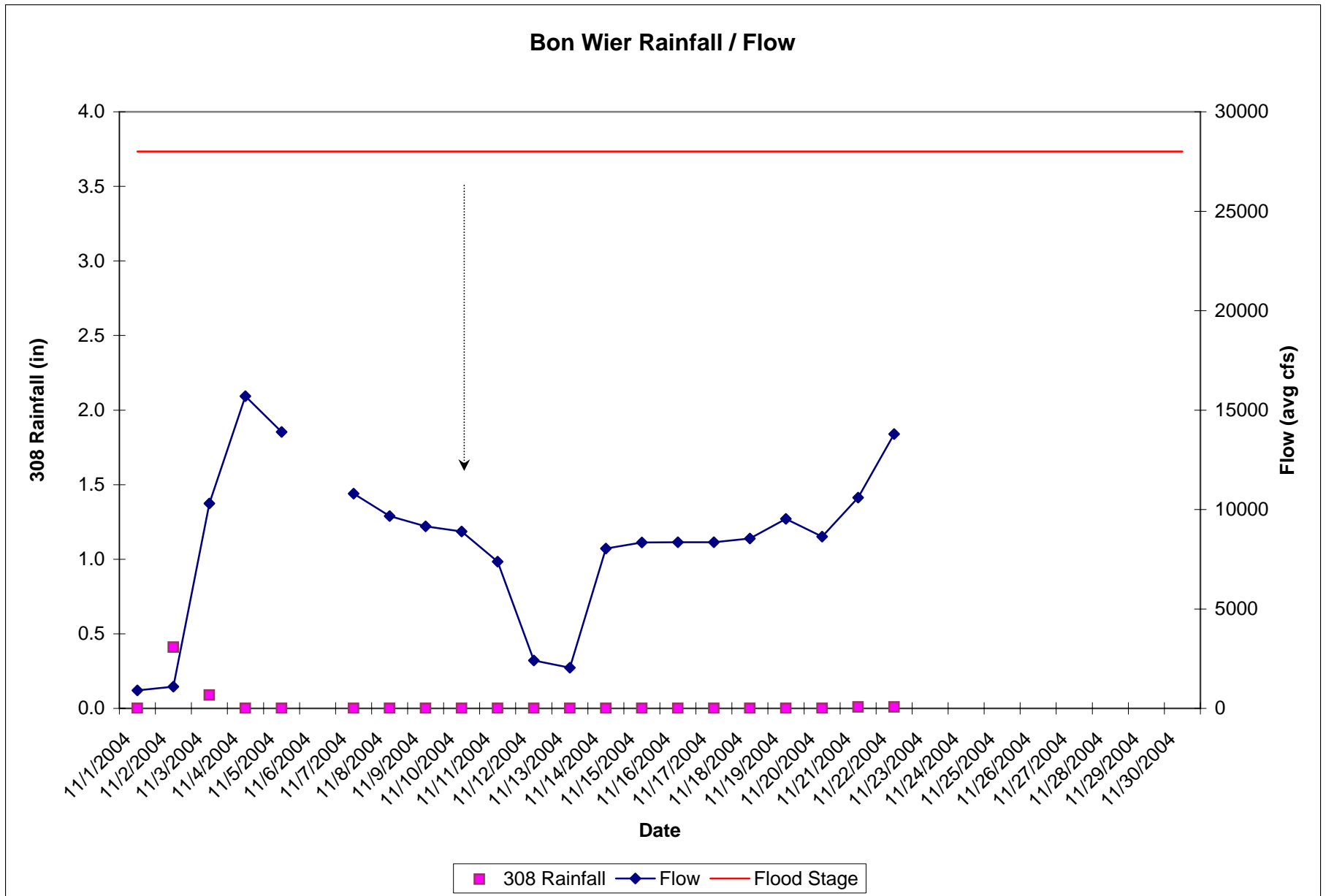
Units	Avg Feet	Avg Feet	Avg	Tot Inches
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FS: Flood Stage = 30 feet

Lower Sabine Basin Sampled on 11/10/2004

SABINE RIVER AUTHORITY OF TEXAS

November 2004



Lower Sabine Basin sampled on 11/10/2004

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

November 2004

Date	Gauge Height	GH - FS	Flow cfs	Flow acft	Flow avg	309 Rainfall
11/1/2004	15.42	(8.58)	1,590	3,154	1,590	0.00
11/2/2004	16.07	(7.93)	1,840	3,649	1,715	OUT
11/3/2004	19.64	(4.36)	4,220	8,370	2,550	OUT
11/4/2004	21.55	(2.45)	6,790	13,468	3,610	OUT
11/5/2004	22.75	(1.25)	9,670	19,180	4,822	OUT
11/6/2004	23.25	(0.75)	11,900	23,603	6,001	OUT
11/7/2004	23.38	(0.62)	12,600	24,992	6,944	OUT
11/8/2004	23.50	(0.50)	13,300	26,380	7,739	OUT
11/9/2004	23.43	(0.57)	12,900	25,587	8,312	OUT
11/10/2004	23.22	(0.78)	11,700	23,207	8,651	OUT
11/11/2004	22.99	(1.01)	10,500	20,826	8,819	OUT
11/12/2004	22.16	(1.84)	7,980	15,828	8,749	OUT
11/13/2004	20.21	(3.79)	6,030	11,960	8,540	OUT
11/14/2004	20.33	(3.67)	5,050	10,017	8,646	OUT
11/15/2004	20.72	(3.28)	5,580	11,068	8,110	OUT
11/16/2004	21.57	(2.43)	6,820	13,527	8,029	OUT
11/17/2004	22.00	(2.00)	7,500	14,876	7,998	OUT
11/18/2004	22.26	(1.74)	8,230	16,324	8,011	OUT
11/19/2004	22.35	(1.65)	8,460	16,780	8,035	OUT
11/20/2004	22.55	(1.45)	9,010	17,871	8,084	OUT
11/21/2004	22.77	(1.23)	9,740	19,319	8,162	OUT
11/22/2004	23.96	(0.04)	17,400	34,512	8,582	OUT
11/23/2004	23.64	(0.36)	14,500	28,760	8,840	OUT
11/24/2004	24.00	0.00	17,800	35,306	9,213	OUT
11/25/2004	24.17	0.17	19,900	39,471	9,640	OUT
11/26/2004	24.45	0.45	23,700	47,008	10,181	OUT
11/27/2004	24.96	0.96	31,000	61,488	10,952	OUT
11/28/2004	25.11	1.11	33,400	66,248	11,754	OUT
11/29/2004	25.04	1.04	32,300	64,066	13,558	OUT
11/30/2004	24.89	0.89	29,900	59,305	15,083	OUT
Avg or Tot	22.41	(1.59)	13,044	776,150		0.00

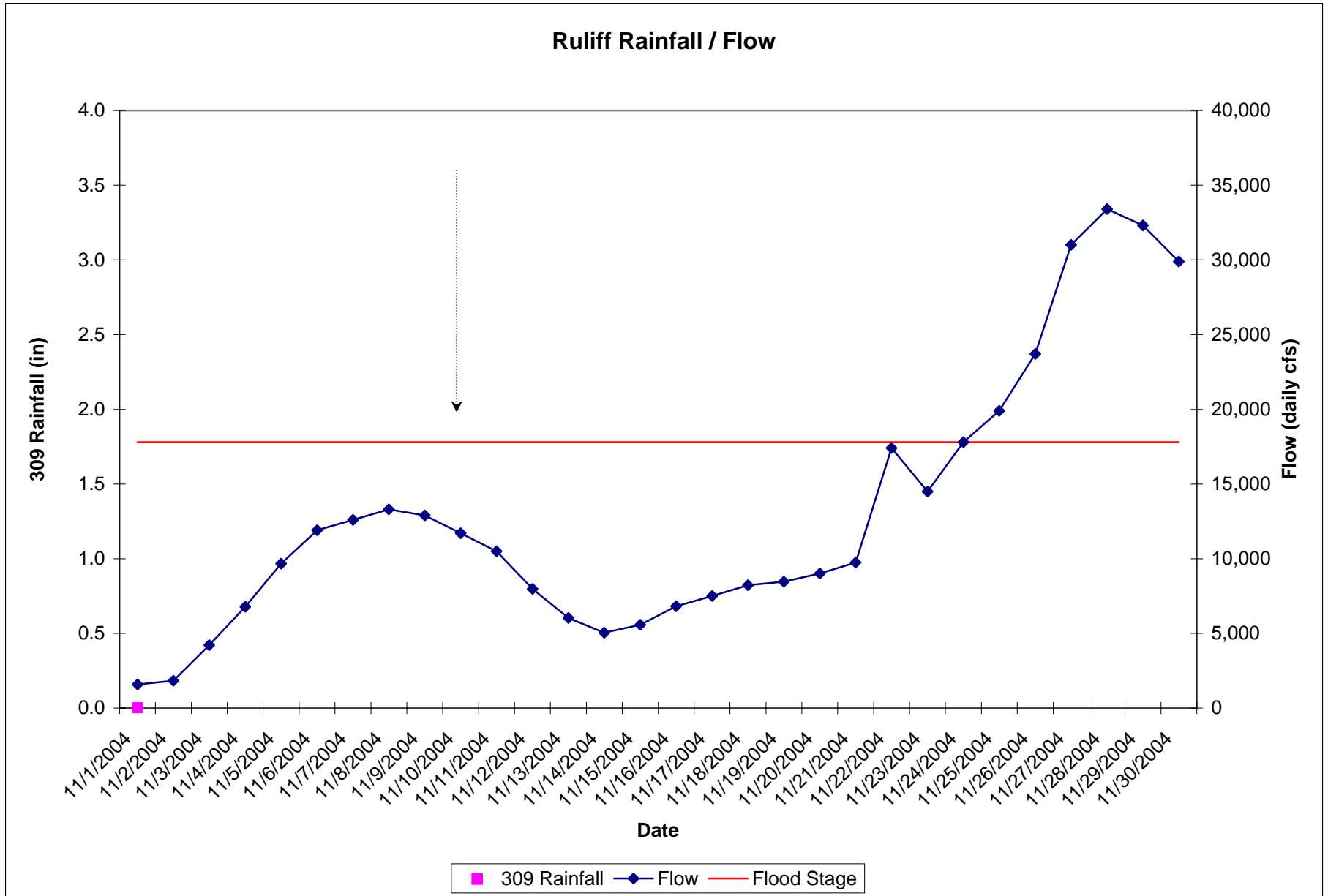
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
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FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 11/10/2004

SABINE RIVER AUTHORITY OF TEXAS

November 2004



Lower Sabine Basin sampled on 11/10/2004

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
November 2004

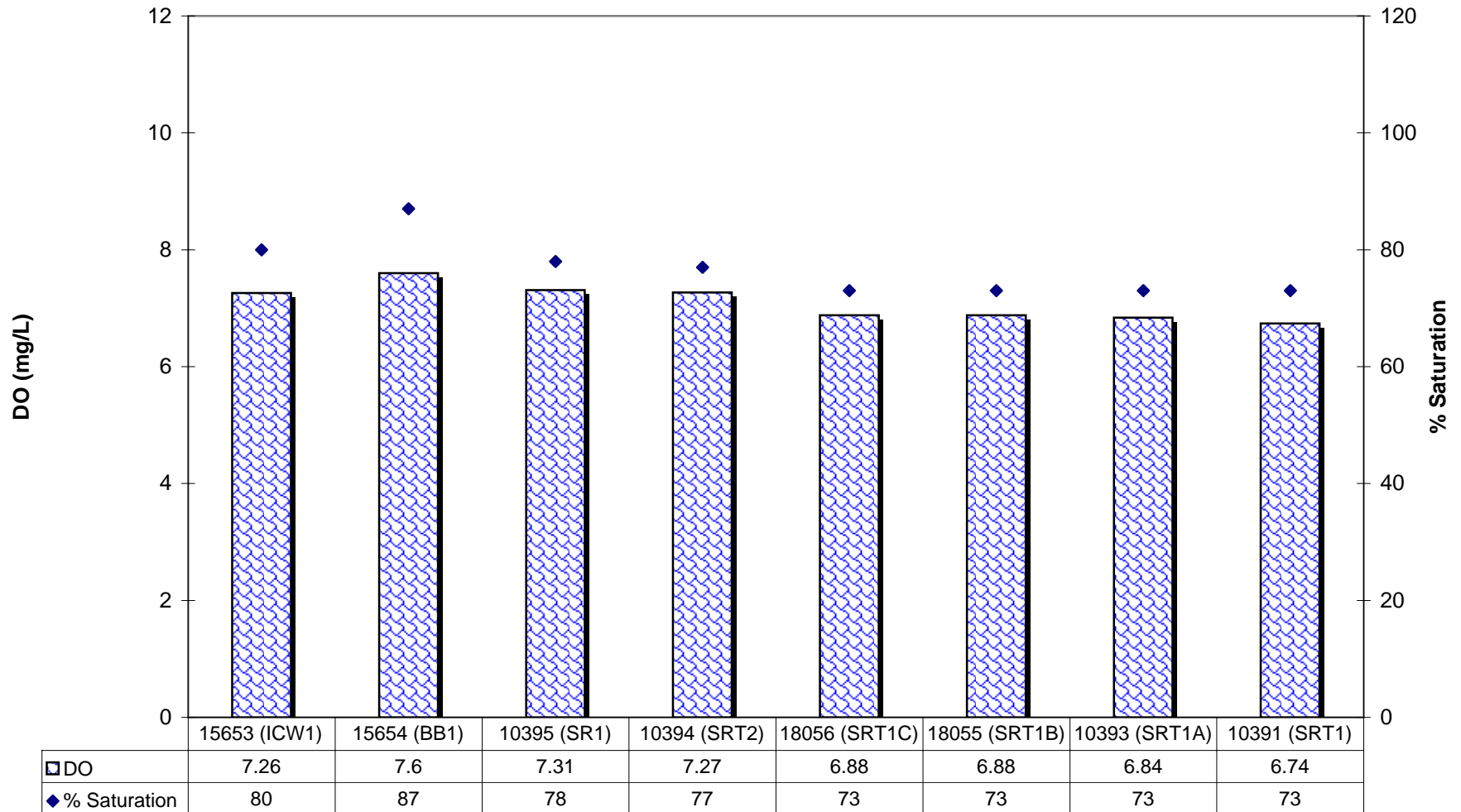
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	<i>Enterococcus</i> mpn/100ml 31701	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900
11/9/04 8:05 AM	1.05	15653 (ICW1)	19.5	6.94	7.26	80	3424	2	0.45	9.07	201	11	*	< 0.02	0.06	< 0.04	6	30	324
11/9/04 8:50 AM	1.01	15654 (BB1)	20.5	7.3	7.6	87	9210	5	0.58	6.37	44	25	*	< 0.02	0.07	< 0.04	5	50	940
11/9/04 7:15 AM	1.00	10395 (SR1)	18.5	6.6	7.31	78	113	*	0.3	21.8	219	*	< 0.02	0.06	< 0.04	10	20	24	
11/9/04 7:35 AM	1.00	10394 (SRT2)	18.4	6.53	7.27	77	104	< 1	0.26	21	228	308	*	< 0.02	0.04	< 0.04	10	20	24
11/9/04 7:50 AM	1.00	18056 (SRT1C)	18.5	6.47	6.88	73	113	< 1	0.26	21.5	19	210	*	< 0.02	0.06	< 0.04	10	20	24
11/9/04 8:24 AM	1.00	18055 (SRT1B)	18.5	6.49	6.88	73	278	< 1	0.27	21	158	236	*	< 0.02	0.05	< 0.04	10	20	36
11/9/04 8:33 AM	1.00	10393 (SRT1A)	18.7	6.53	6.84	73	498	< 1	0.29	19.8	157	179	*	< 0.02	0.14	< 0.04	10	20	56
11/9/04 9:00 AM	1.00	10391 (SRT1)	18.9	6.69	6.74	73	679	< 1	0.29	20.4	88	102	*	< 0.02	0.2	< 0.04	10	20	76

*: Not sampled on this run

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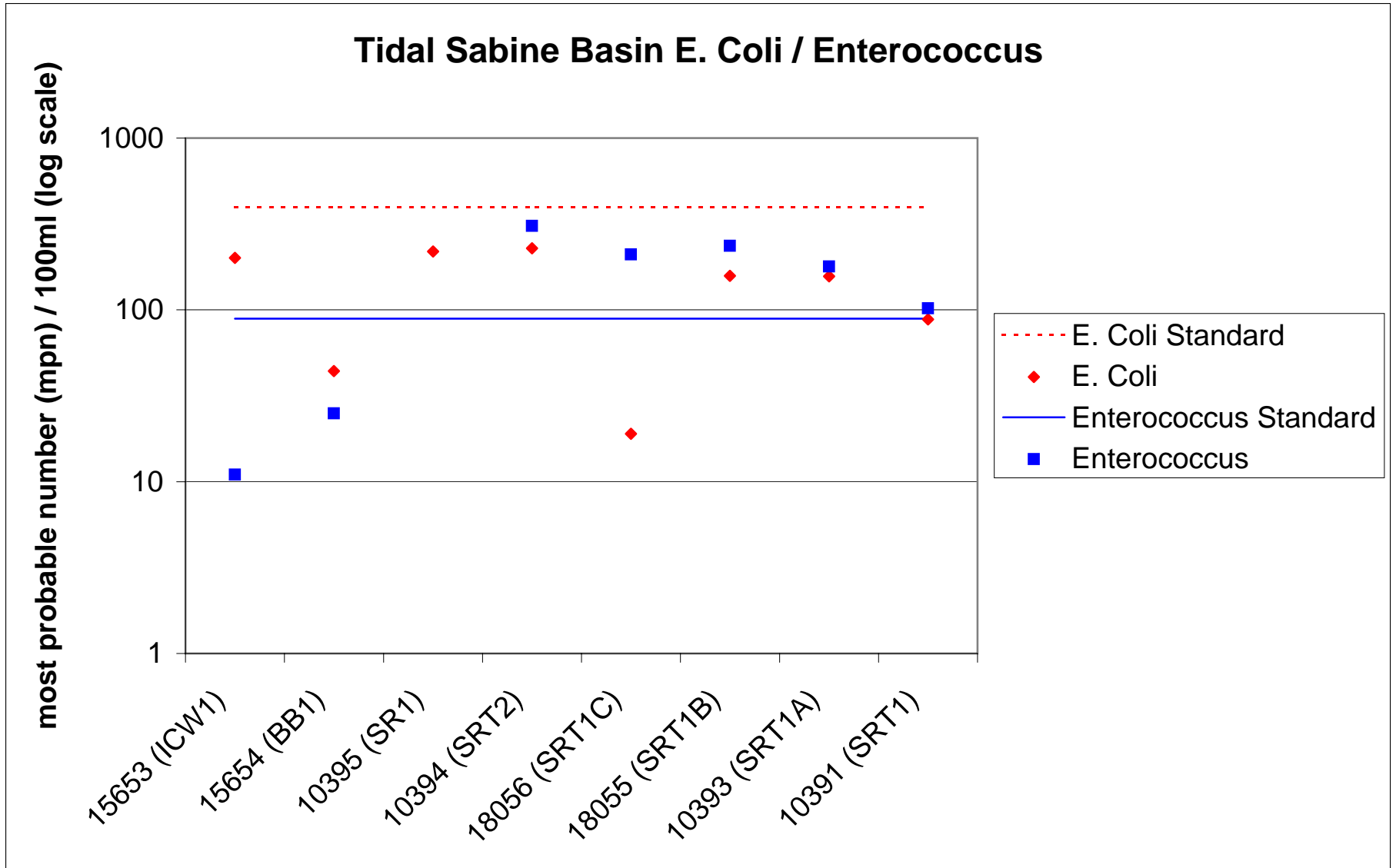
November 2004

Tidal Sabine Basin DO / % Saturation



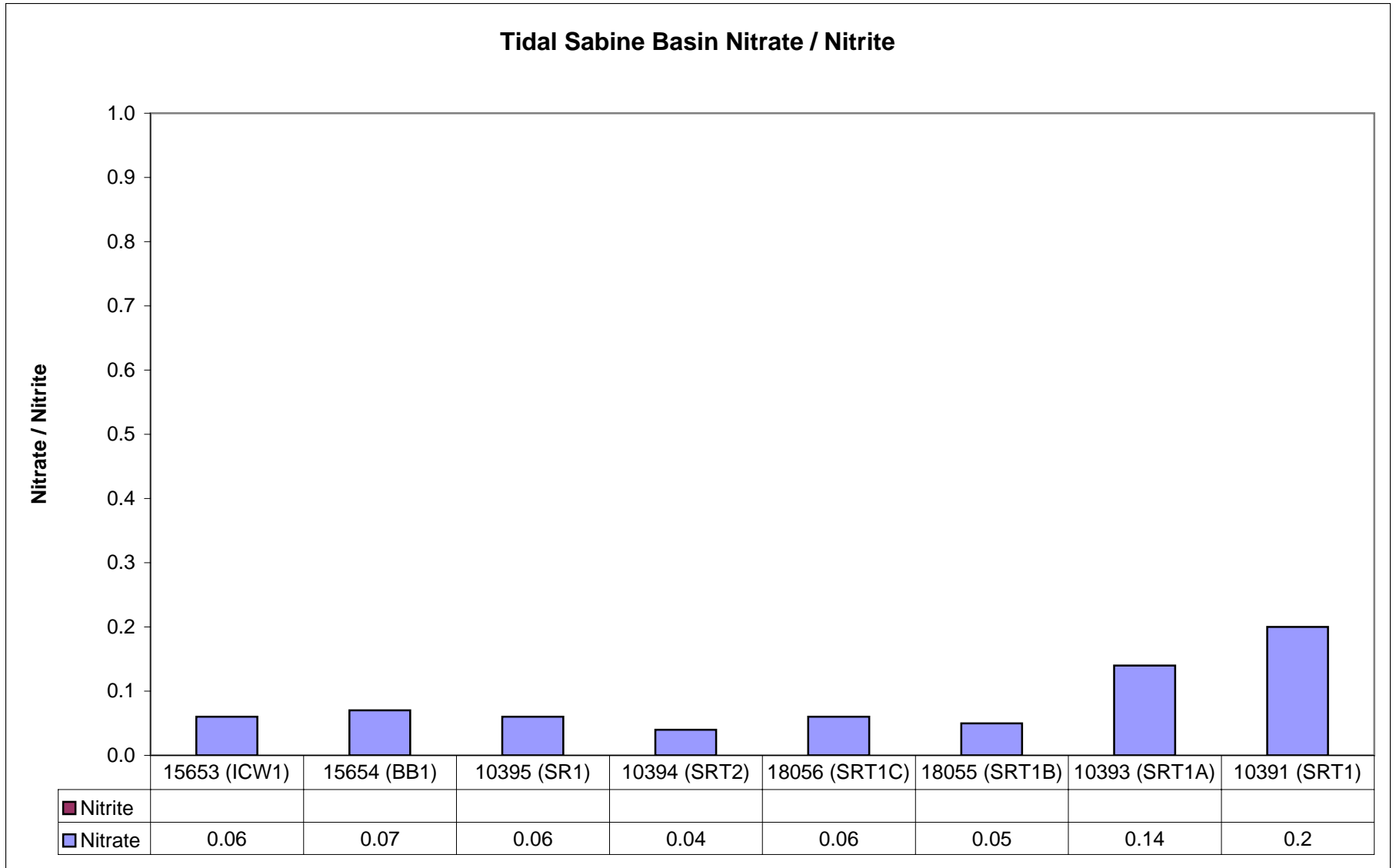
SABINE RIVER AUTHORITY OF TEXAS

November 2004



SABINE RIVER AUTHORITY OF TEXAS

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Tidal Profiles

November 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
11/9/04 8:05 AM	1.05	15653 (ICW1)	0.3	19.5	6.94	7.26	80	3424	2
			2.5	19.6	6.95	7.25	80	3655	2
			6.1	19.7	6.97	7.42	82	4103	2
11/9/04 8:50 AM	1.01	15654 (BB1)	0.3	20.5	7.3	7.6	87	9210	5
			3	20.4	7.3	7.57	87	9220	5
			6	20.2	7.27	7.49	86	9237	5
11/9/04 7:35 AM	1.00	10394 (SRT2)	0.3	18.4	6.53	7.27	77	104	< 1
			4	18.5	6.57	7.04	75	103	< 1
			8	18.5	7.58	6.47	68	214	< 1
11/9/04 7:50 AM	1.00	18056 (SRT1C)	0.3	18.5	6.47	6.88	73	113	< 1
			5	18.5	6.43	6.92	74	114	< 1
			11	18.5	6.52	6.75	72	114	< 1
11/9/04 8:24 AM	1.00	18055 (SRT1B)	0.3	18.5	6.49	6.88	73	278	< 1
			4	18.6	6.6	6.85	73	273	< 1
			8	18.6	6.62	6.75	72	399	< 1
11/9/04 8:33 AM	1.00	10393 (SRT1A)	0.3	18.7	6.53	6.84	73	498	< 1
			4	18.7	6.6	6.82	74	527	< 1
			8	18.7	6.67	6.87	74	538	< 1
11/9/04 9:00 AM	1.00	10391 (SRT1)	0.3	18.9	6.69	6.74	73	679	< 1
			5	18.9	6.96	6.57	71	1022	< 1
			9.7	20.9	6.85	5.72	66	8287	5

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Orange Weather and River Data

November 2004

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
11/1/2004	OUT	OUT	OUT	85	66	78	0.18
11/2/2004	OUT	OUT	OUT	82	68	68	3.48
11/3/2004	OUT	OUT	OUT	69	60	61	3.53
11/4/2004	OUT	OUT	OUT	61	46	47	0.00
11/5/2004	OUT	OUT	OUT	66	45	45	0.00
11/6/2004	OUT	OUT	OUT	70	44	44	0.00
11/7/2004	OUT	OUT	OUT	76	45	50	0.00
11/8/2004	OUT	OUT	OUT	71	51	53	0.00
11/9/2004	OUT	OUT	OUT	78	47	48	0.00
11/10/2004	OUT	OUT	OUT	70	48	57	0.00
11/11/2004	OUT	OUT	OUT	78	57	60	0.04
11/12/2004	OUT	OUT	OUT	74	51	51	0.00
11/13/2004	OUT	OUT	OUT	57	51	52	0.00
11/14/2004	OUT	OUT	OUT	54	52	52	0.00
11/15/2004	OUT	OUT	OUT	52	63	63	0.00
11/16/2004	OUT	OUT	OUT	70	62	62	0.00
11/17/2004	OUT	OUT	OUT	77	60	65	0.00
11/18/2004	OUT	OUT	OUT	73	64	68	1.10
11/19/2004	OUT	OUT	OUT	74	53	54	0.00
11/20/2004	OUT	OUT	OUT	75	53	60	0.63
11/21/2004	OUT	OUT	OUT	69	60	69	0.32
11/22/2004	OUT	OUT	OUT	74	60	68	0.13
11/23/2004	OUT	OUT	OUT	72	65	70	1.07
11/24/2004	OUT	OUT	OUT	79	56	56	0.39
11/25/2004	OUT	OUT	OUT	59	39	40	0.00
11/26/2004	OUT	OUT	OUT	61	40	46	0.00
11/27/2004	OUT	OUT	OUT	70	46	70	0.75
11/28/2004	OUT	OUT	OUT	70	44	46	0.00
11/29/2004	OUT	OUT	OUT	65	46	57	0.00
11/30/2004	OUT	OUT	OUT	75	57	61	0.12
Avg or Tot	OUT	OUT	OUT	70	53	57	11.74

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

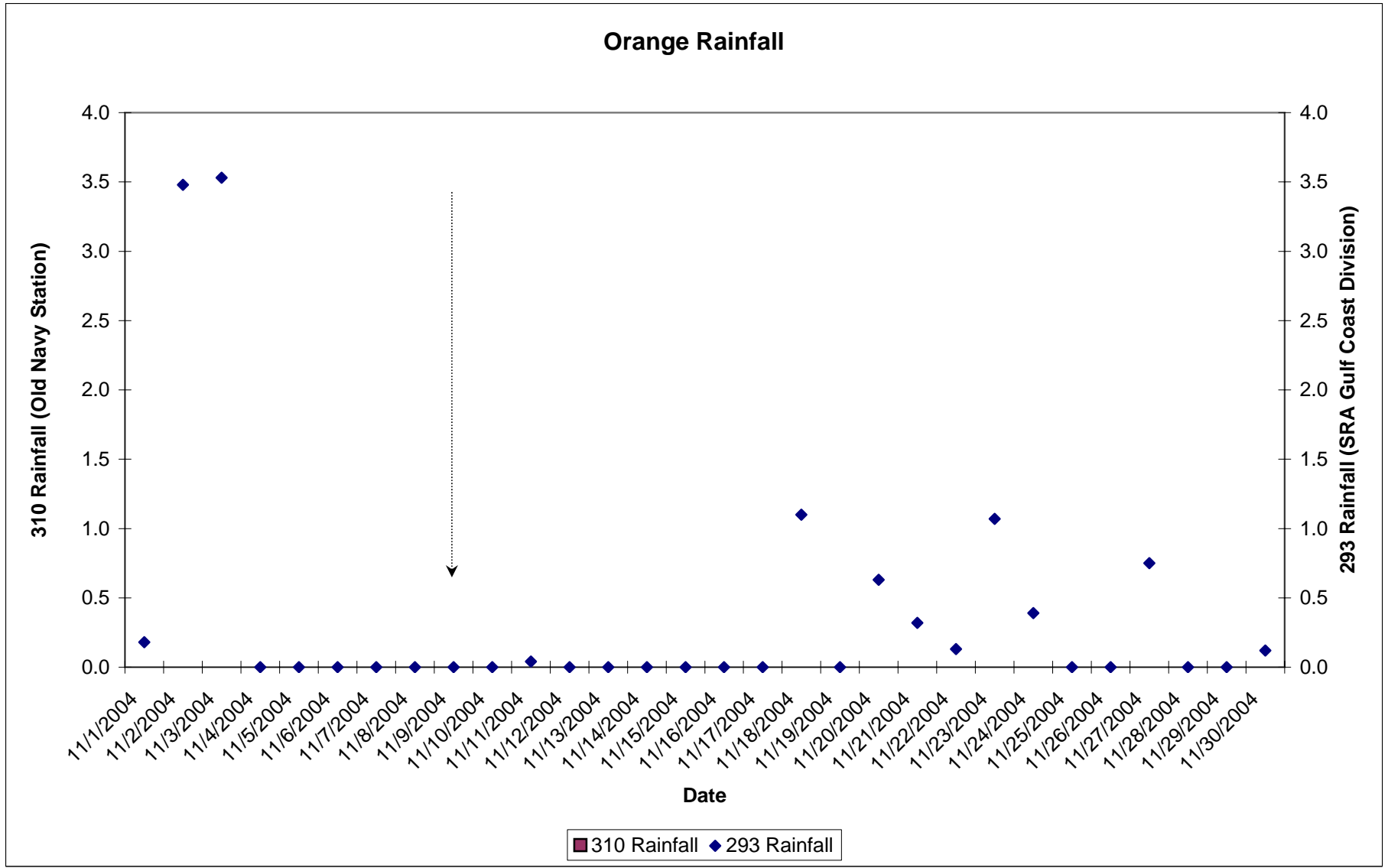
FS: Flood Stage = 4 Feet

OUT: Gage Out

Tidal Sabine Basin Sampled on 11/9/2004

SABINE RIVER AUTHORITY OF TEXAS

November 2004



Tidal Sabine Basin Sampled on 11/9/2004