
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Report for October 2004. Water quality sampling was performed October 11th through October 14th. Recent weather (previous seven days) in the Sabine River Basin was mild, with daytime highs from the mid 60s 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 mid 80s. Lows ranged from the low to upper 60s at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the low 50s to the low 70s. 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 2.33 and 4.76 inches of rainfall as recorded at Lake Tawakoni and at Lake Fork, respectively. Lake Tawakoni and Lake Fork received 1.77 and 4.13 inches of rainfall the week preceding the sample run. Toledo Bend and Orange received 5.87 and 5.09 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 October sample run. The level of Lake Fork was recorded at 401.73 feet msl with 64 cfs releases and the level of Lake Tawakoni was recorded at 436.51 feet msl with 0 cfs releases (temporary non-release to accommodate construction) at the time of sampling. LT23A exceeded the screening criteria for chlorophyll *a*, and LT23D exceeded the screening criteria for ortho-phosphate. All reservoir and stream sites were within stream standard levels for *E. coli*.

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

The October monthly sampling results were indicative of water of high quality at most sites. The area received approximately two inches of rainfall during the seven days prior to sampling. The level of Toledo Bend Reservoir was recorded at 168.42 feet msl with 174 cfs discharge at the time of sampling. All reservoir stations were stratified, with pH and dissolved oxygen differences throughout the water column, but anoxic conditions were only found at the two deepest lake stations. All measured parameters were within the stream standards criteria.

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 3.47 inches of rainfall the week prior to the sample run. Most of the sites in this section of the Basin showed some stratification, but anoxic conditions were only found at one station. Surface salinities were found at all but one tidal station with the highest value of 6 ppt found at station SRT1. The overall greatest salinity value of 14 ppt was found at station SRT1C at a depth of 11.0 meters. Station BB1 recorded *Enterococcus* results that were above the stream standard criteria.

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:

- *Upper Sabine Basin*
Terry Wilson, Upper Basin Field Office Coordinator
903-878-2420 (twilson@sra.dst.tx.us)
- *Lower and Tidal Sabine Basin*
Jerry Wiegreffe, Lower Basin Field Office Coordinator
409-746-3284 (jwiegreffe@sra.dst.tx.us)
- If above are unavailable
John Payne, Special Projects Administrator
409-746-2192 (jpayne@sra.dst.tx.us)
or
Miles Hall, Resource Management/ Project Development Division Manager
409-746-2192 (mhall@sra.dst.tx.us)

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Monthly Water Quality Report

October 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

October 2004

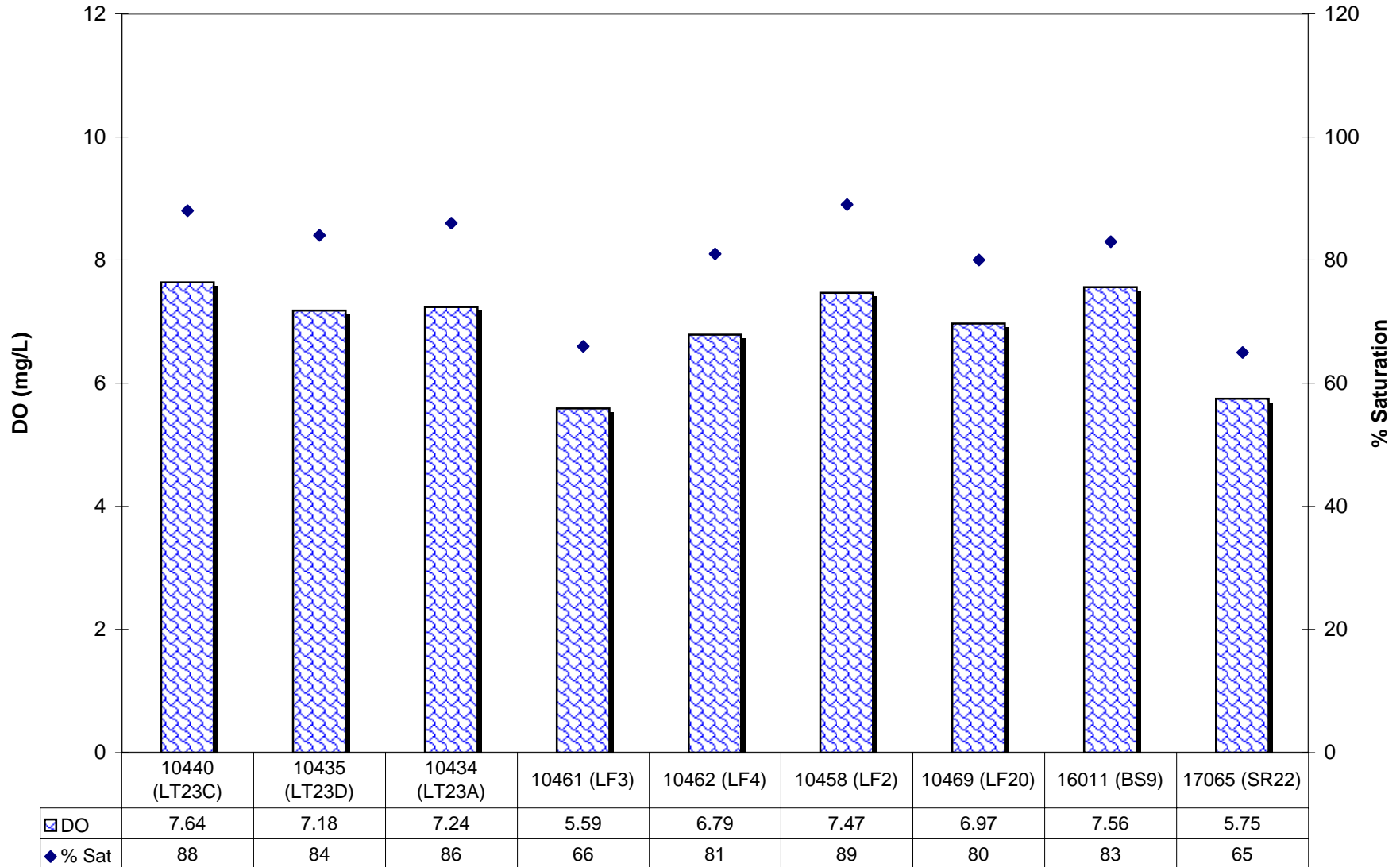
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
10/12/04 11:04 AM	7.00	10440 (LT23C)	21.6	8.23	7.64	88	202	*	0.52	15.4	< 1	*	< 0.02	< 0.02	< 0.04	6	*	*	< 10	< 10
10/12/04 11:55 AM	7.00	10435 (LT23D)	22.4	8.16	7.18	84	202	*	0.55	12.9	< 1	*	< 0.02	0.02	0.08	6	*	*	< 10	10
10/12/04 11:47 AM	7.00	10434 (LT23A)	23	7.87	7.24	86	201	*	0.86	5.31	3	41	< 0.02	0.21	< 0.04	6	*	*	< 10	11
10/12/04 2:24 PM	6.12	10461 (LF3)	23	7.11	5.59	66	180	*	1.15	3.59	3	11	< 0.02	0.04	< 0.04	6	*	*	16	20
10/12/04 2:04 PM	6.12	10462 (LF4)	23.2	7.31	6.79	81	178	*	1.43	3.05	1	15	0.05	0.03	< 0.04	6	*	*	15	20
10/12/04 2:45 PM	6.12	10458 (LF2)	23.4	7.52	7.47	89	176	*	1.22	2.51	< 1	16	0.02	0.02	< 0.04	21	*	*	15	20
10/12/04 9:00 AM	6.10	10469 (LF20)	21.3	7	6.97	80	238	*	0.35	34.9	89	*	< 0.02	0.09	< 0.04	6	*	*	30	29
10/13/04 6:53 AM	6.02	16011 (BS9)	18.8	6.72	7.56	83	121	*	0.62	5.76	131	*	< 0.02	0.16	< 0.04	6	*	*	14	11
10/12/04 10:07 AM	6.00	17065 (SR22)	20.4	6.96	5.75	65	271	*	0.25	67	153	< 3	< 0.02	0.13	0.27	11	*	*	30	36
10/12/04 9:30 AM	6.00	10430 (SR21)	20.5	6.83	6.43	73	397	*	0.27	60.5	185	*	< 0.02	0.14	0.12	10	*	*	70	53
10/12/04 8:26 AM	6.00	10429 (SR19)	20.8	6.86	7.25	83	337	*	0.23	79.8	365	4	< 0.02	0.15	0.04	8	*	*	60	37
10/13/04 7:27 AM	5.00	10428 (SR17)	20.1	7.04	7.42	83	222	*	0.25	59.4	135	*	< 0.02	0.23	0.05	7	*	*	27	30
10/13/04 8:00 AM	5.00	10427 (SR16)	20.3	7.1	7.25	82	286	*	0.26	57.8	42	*	< 0.02	0.17	< 0.04	6	*	*	45	30
10/13/04 8:32 AM	5.00	10426 (SR15)	20.3	6.96	7.2	81	460	*	0.23	62.1	111	*	< 0.02	0.26	< 0.04	7	*	*	96	37
10/13/04 9:00 AM	5.00	10423 (SR14)	20.2	7.06	7.42	84	708	*	0.27	49.5	84	*	< 0.02	0.91	0.15	6	*	*	158	38
10/13/04 10:12 AM	5.00	13628 (SR11)	20.2	7.22	7.15	81	299	*	0.3	47.9	79	*	< 0.02	0.61	0.09	7	*	*	33	43
10/13/04 10:47 AM	5.00	10415 (SR10)	20.4	7.1	7.03	79	263	*	0.3	42.8	75	*	< 0.02	0.5	0.08	10	*	*	31	35

*: Not sampled on this run

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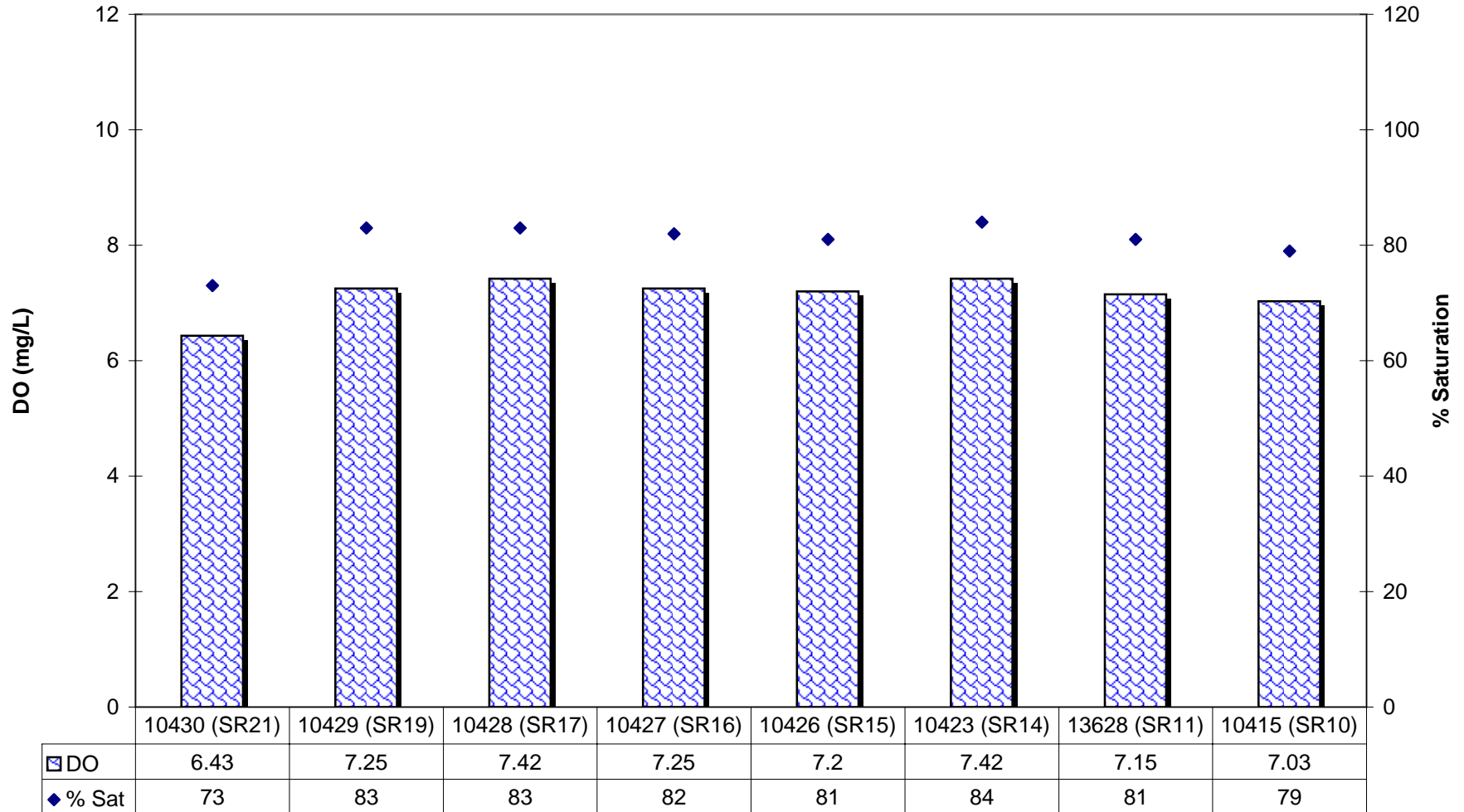
Upper Sabine Basin DO / % Saturation (1 of 2)



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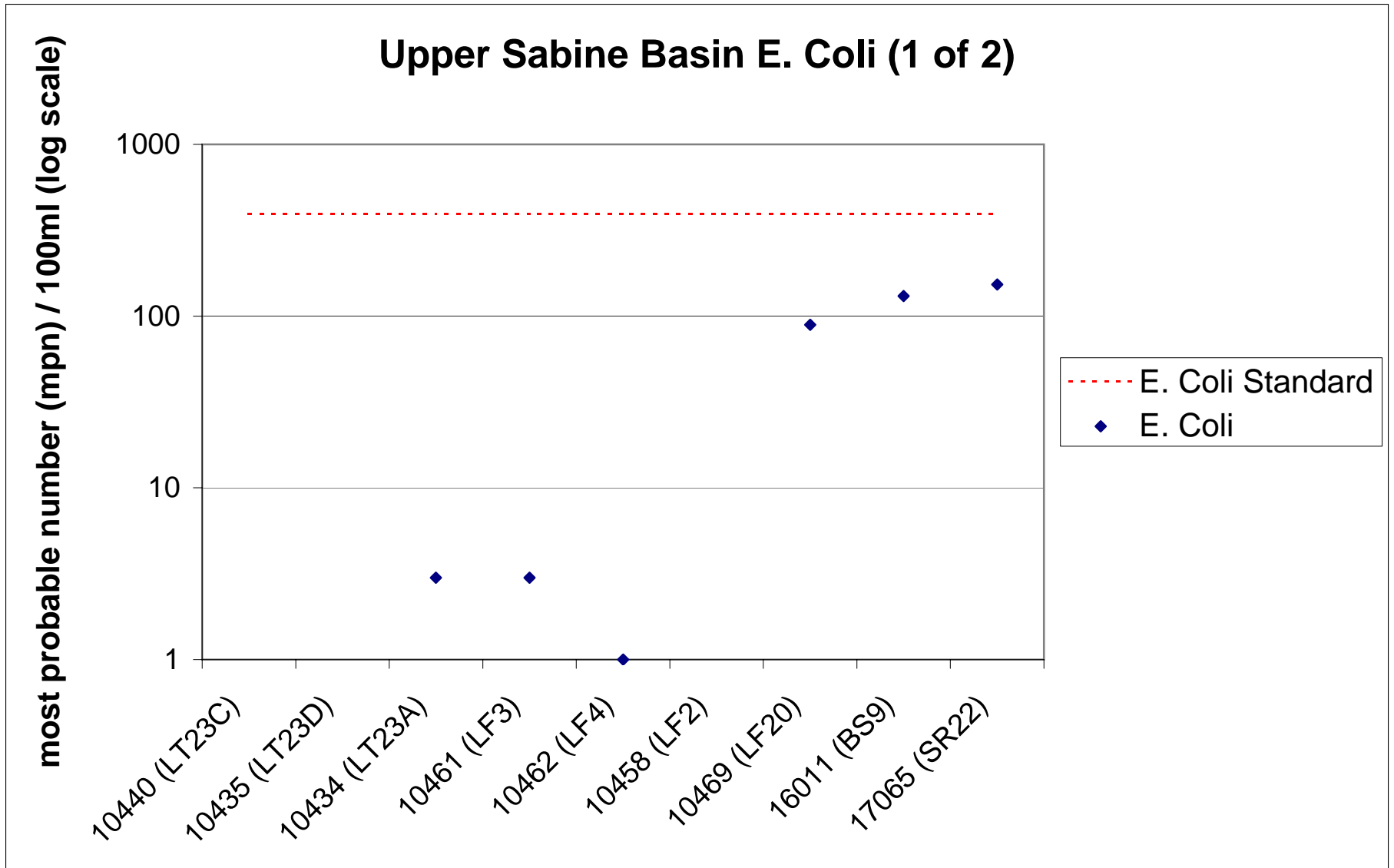
October 2004

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



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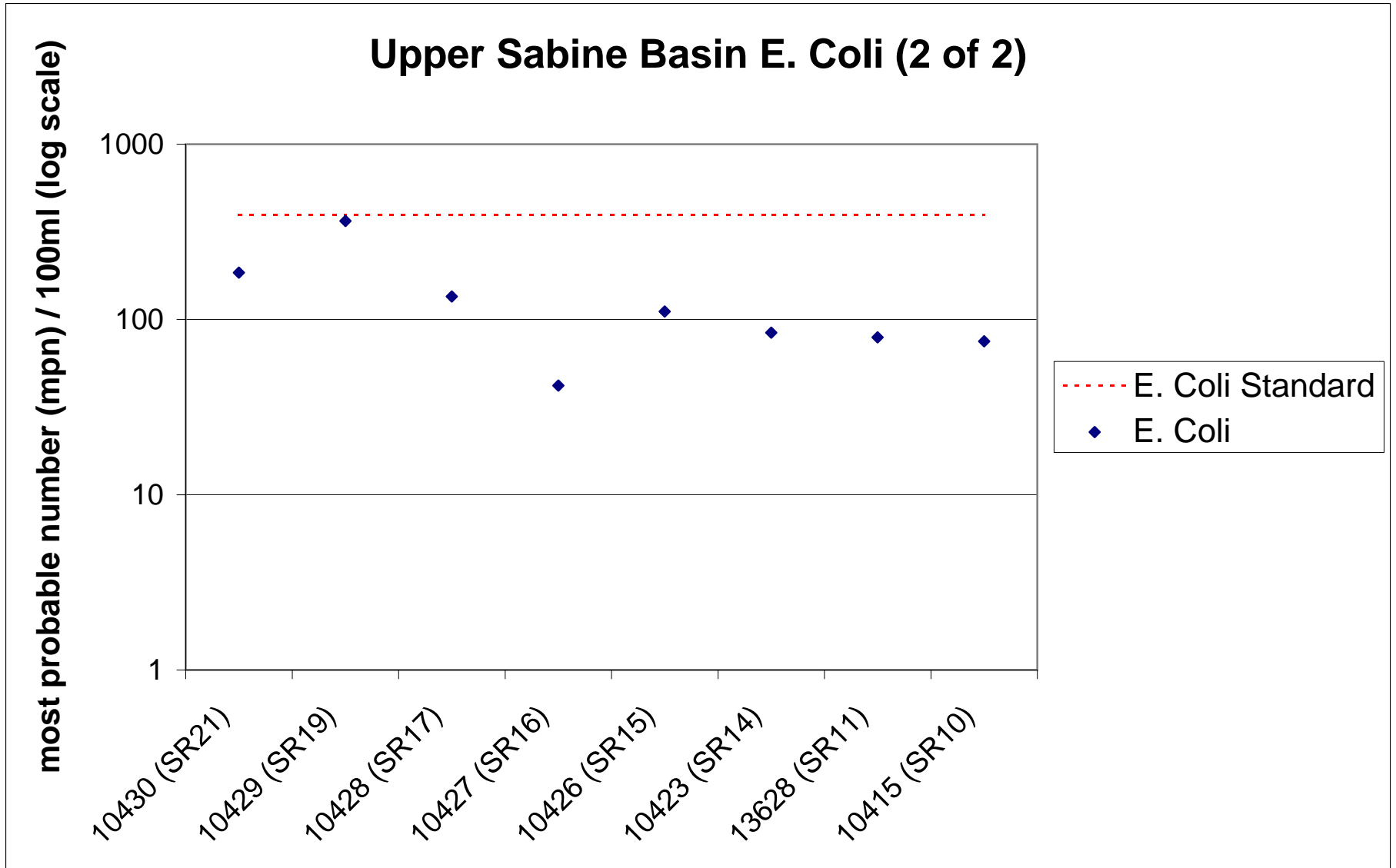
October 2004



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

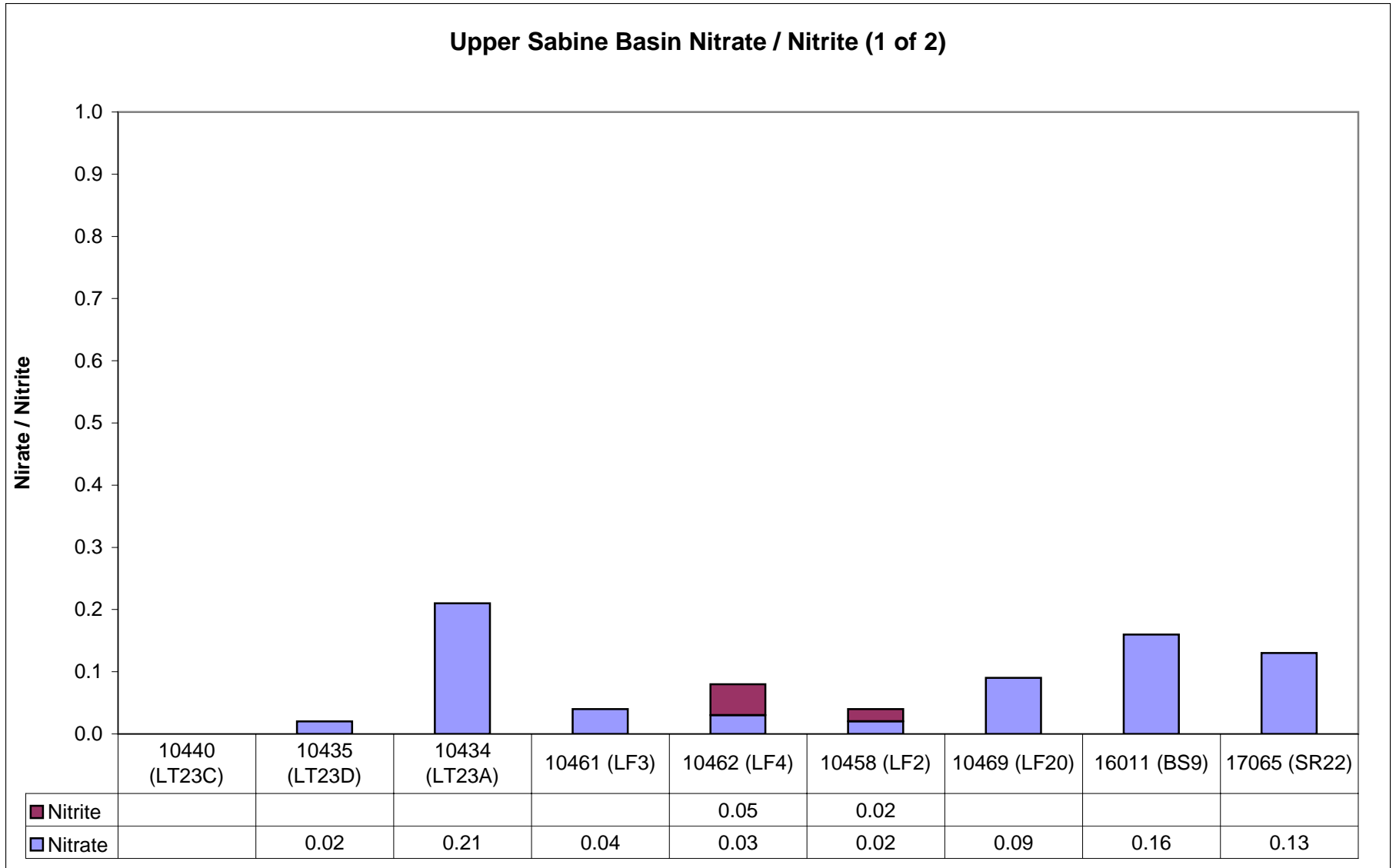
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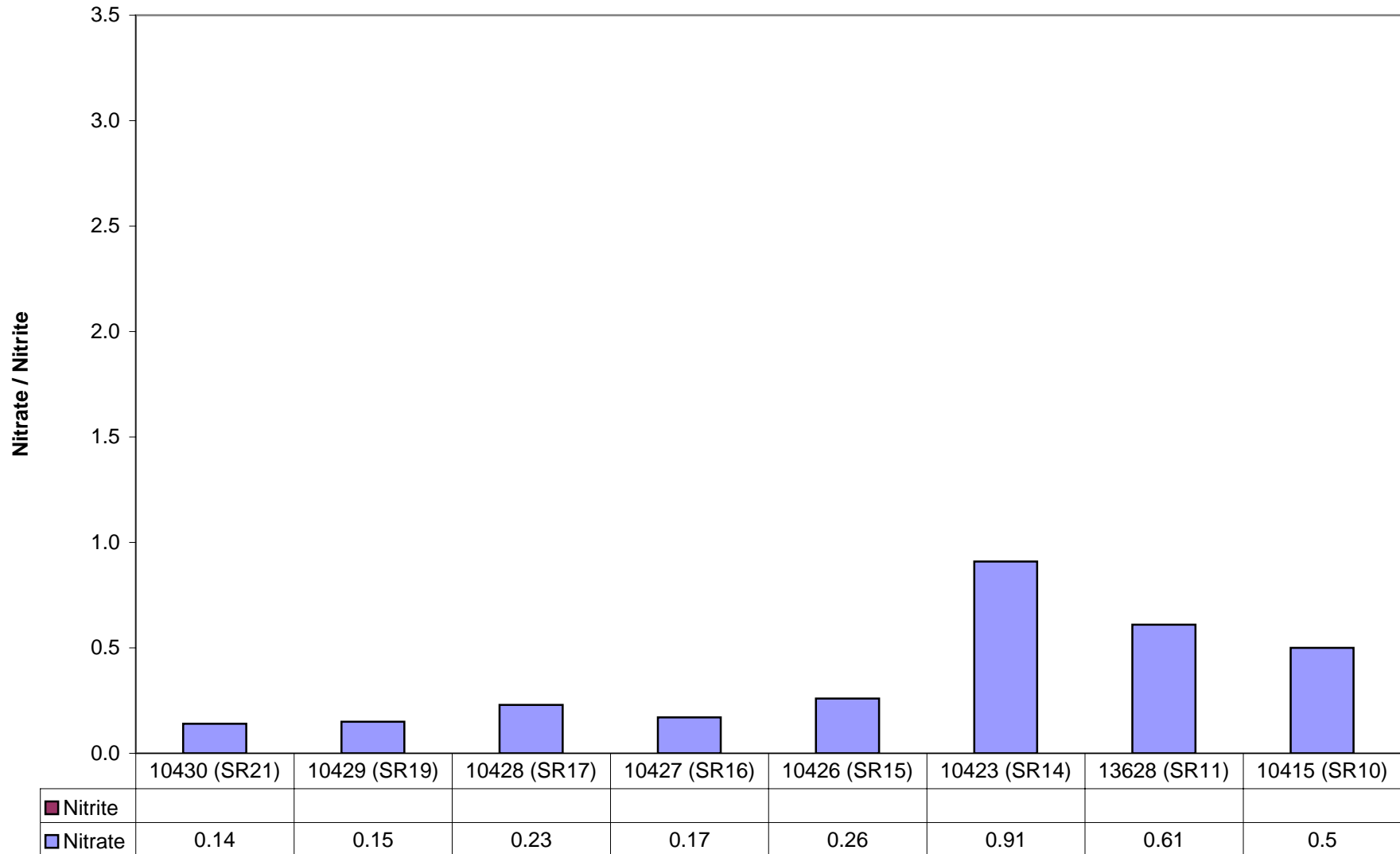


Stations without values below detection limit (< 0.02 mg/L) on this run (see page 2)

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Upper Sabine Basin Nitrate / Nitrite (2 of 2)



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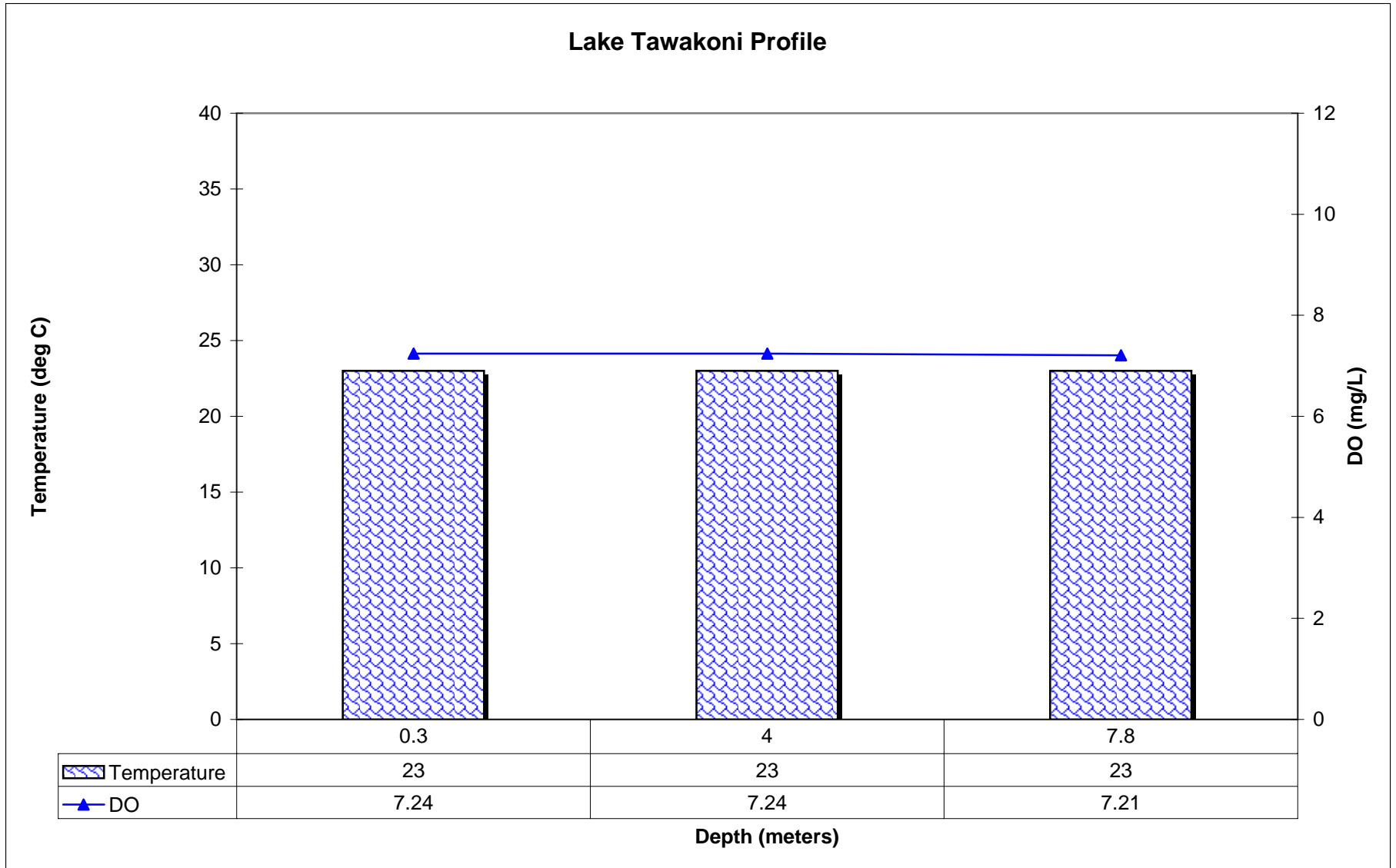
Upper Basin Profiles

October 2004

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
10/12/04 11:04 AM	7.00	10440 (LT23C)	0.3	21.6	8.23	7.64	88	202
			1.8	21.6	8.21	7.63	88	202
			3.4	21.6	8.21	7.61	88	202
10/12/04 11:55 AM	7.00	10435 (LT23D)	0.3	22.4	8.16	7.18	84	202
			4.5	22.3	8.11	7.15	84	204
			8.5	21.7	8.1	7.41	86	203
10/12/04 11:47 AM	7.00	10434 (LT23A)	0.3	23	7.87	7.24	86	201
			4	23	7.78	7.24	86	203
			7.8	23	7.84	7.21	85	204
10/12/04 2:24 PM	6.12	10461 (LF3)	0.3	23	7.11	5.59	66	180
			4.6	23	7.11	5.57	66	179
			9.2	22.8	7.11	5.43	64	181
10/12/04 2:04 PM	6.12	10462 (LF4)	0.3	23.2	7.31	6.79	81	178
			5	23.1	7.24	6.44	77	175
			10.9	23	7.25	6.41	76	177
10/12/04 2:45 PM	6.12	10458 (LF2)	0.3	23.4	7.52	7.47	89	176
			6	23.3	7.45	7.29	87	175
			12.2	23	7.37	6.91	82	181

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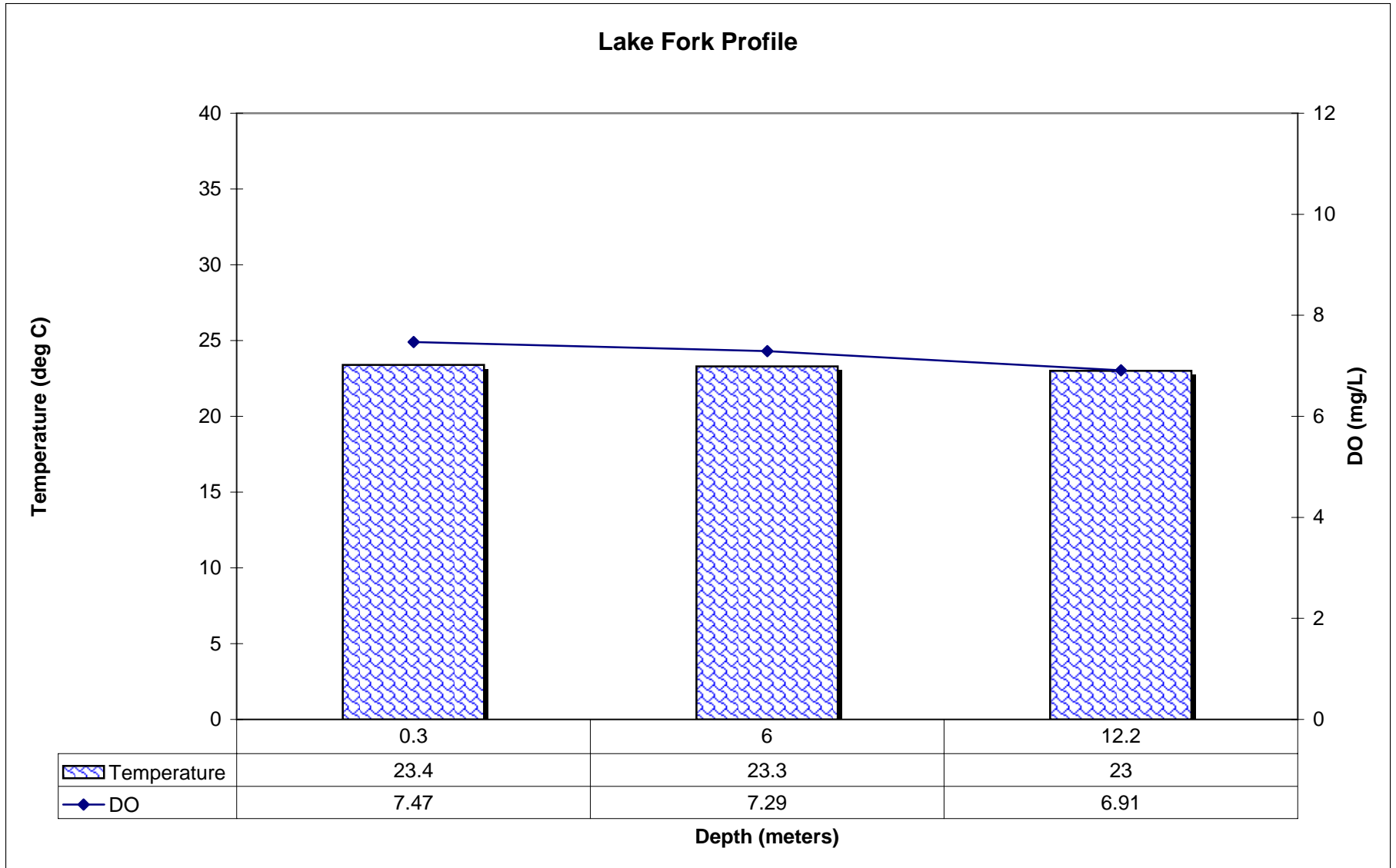
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For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

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Lake Tawakoni Weather and Reservoir Data

October 2004

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
10/1/2004	436.43	(1.07)	5	85	62	0.00	0.30
10/2/2004	436.44	(1.06)	5	86	65	0.07	0.23
10/3/2004	436.40	(1.10)	5	78	62	0.00	0.24
10/4/2004	436.40	(1.10)	0	82	64	0.05	0.18
10/5/2004	436.47	(1.03)	0	66	62	0.99	0.00
10/6/2004	436.43	(1.07)	0	77	63	0.00	0.20
10/7/2004	436.43	(1.07)	0	82	66	0.11	0.22
10/8/2004	436.45	(1.05)	0	82	65	0.24	0.06
10/9/2004	436.45	(1.05)	0	80	68	0.00	0.00
10/10/2004	436.46	(1.04)	0	68	64	0.24	0.00
10/11/2004	436.46	(1.04)	0	67	64	0.14	0.05
10/12/2004	436.51	(0.99)	0	71	60	0.05	0.12
10/13/2004	436.42	(1.08)	0	69	59	0.00	0.23
10/14/2004	436.40	(1.10)	0	77	55	0.06	0.24
10/15/2004	436.37	(1.13)	5	63	55	0.00	0.22
10/16/2004	436.32	(1.18)	5	78	56	0.00	0.22
10/17/2004	436.31	(1.19)	5	74	56	0.00	0.19
10/18/2004	436.28	(1.22)	5	82	60	0.00	0.15
10/19/2004	436.31	(1.19)	5	84	78	0.00	0.21
10/20/2004	436.30	(1.20)	5	86	66	0.00	0.22
10/21/2004	436.29	(1.21)	5	88	68	0.00	0.16
10/22/2004	436.29	(1.21)	5	82	68	0.00	0.10
10/23/2004	436.35	(1.15)	5	83	64	0.69	0.09
10/24/2004	436.35	(1.15)	5	77	50	0.00	0.27
10/25/2004	436.34	(1.16)	5	80	54	0.21	0.21
10/26/2004	436.39	(1.11)	5	74	65	0.41	0.00
10/27/2004	436.38	(1.12)	5	79	65	0.03	0.20
10/28/2004	436.38	(1.12)	5	82	70	0.00	0.06
10/29/2004	436.37	(1.13)	5	82	69	0.00	0.26
10/30/2004	436.38	(1.12)	5	80	58	0.32	0.00
10/31/2004	436.38	(1.12)	5	82	58	0.00	0.15
Avg or Tot	436.39	(1.11)	3	78	63	3.61	4.78

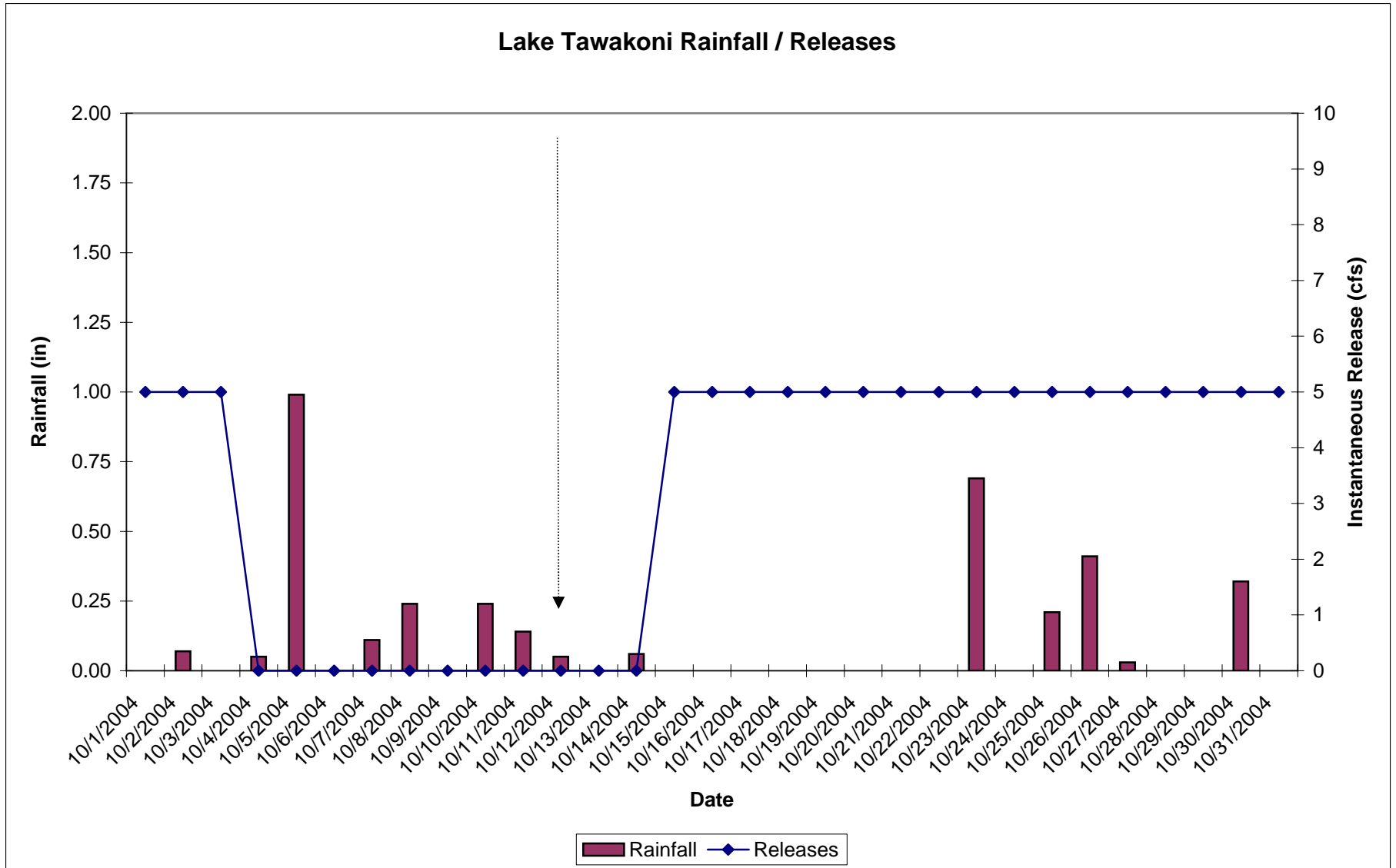
	Avg	Avg	Avg	Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	Deg F	Deg F	Inches	Inches
			Instantaneous				
			appx. 8 a.m.				

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

Lake Tawakoni Sampled on 10/12/2004

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October 2004



Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

October 2004

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
10/1/2004	401.41	(1.59)	64	64	90	60	0.00	0.29
10/2/2004	401.41	(1.59)	64	64	92	64	0.08	0.28
10/3/2004	401.36	(1.64)	64	64	86	62	0.00	0.25
10/4/2004	401.35	(1.65)	64	64	88	64	0.10	0.20
10/5/2004	401.41	(1.59)	64	64	70	60	1.10	0.10
10/6/2004	401.38	(1.62)	64	64	81	62	0.00	0.23
10/7/2004	401.37	(1.63)	64	64	86	61	0.04	0.21
10/8/2004	401.52	(1.48)	64	64	86	67	1.40	0.20
10/9/2004	401.51	(1.49)	64	64	86	66	0.00	0.12
10/10/2004	401.52	(1.48)	64	64	71	62	0.26	0.05
10/11/2004	401.68	(1.32)	64	64	70	62	1.30	0.00
10/12/2004	401.73	(1.27)	64	64	74	60	0.03	0.11
10/13/2004	401.65	(1.35)	64	64	74	55	0.00	0.27
10/14/2004	401.66	(1.34)	64	64	82	53	0.03	0.10
10/15/2004	401.60	(1.40)	64	64	78	56	0.00	0.22
10/16/2004	401.59	(1.41)	64	64	83	54	0.00	0.19
10/17/2004	401.55	(1.45)	64	64	80	54	0.00	0.17
10/18/2004	401.56	(1.44)	64	64	83	54	0.00	0.17
10/19/2004	401.53	(1.47)	64	64	90	74	0.00	0.19
10/20/2004	401.52	(1.48)	64	64	90	64	0.00	0.21
10/21/2004	401.52	(1.48)	64	64	90	70	0.00	0.11
10/22/2004	401.51	(1.49)	64	64	90	70	0.00	0.16
10/23/2004	401.54	(1.46)	64	64	88	66	0.85	0.23
10/24/2004	401.56	(1.44)	64	64	82	53	0.00	0.17
10/25/2004	401.57	(1.43)	64	64	86	66	0.40	0.23
10/26/2004	401.58	(1.42)	64	64	80	68	0.15	0.08
10/27/2004	401.57	(1.43)	64	64	86	68	0.00	0.13
10/28/2004	401.56	(1.44)	64	64	88	70	0.00	0.17
10/29/2004	401.55	(1.45)	64	64	87	70	0.00	0.18
10/30/2004	401.61	(1.39)	64	64	84	60	1.10	0.28
10/31/2004	401.63	(1.37)	64	64	86	58	0.00	0.13
Avg or Tot	401.53	(1.47)	64	64	83	62	6.84	5.43

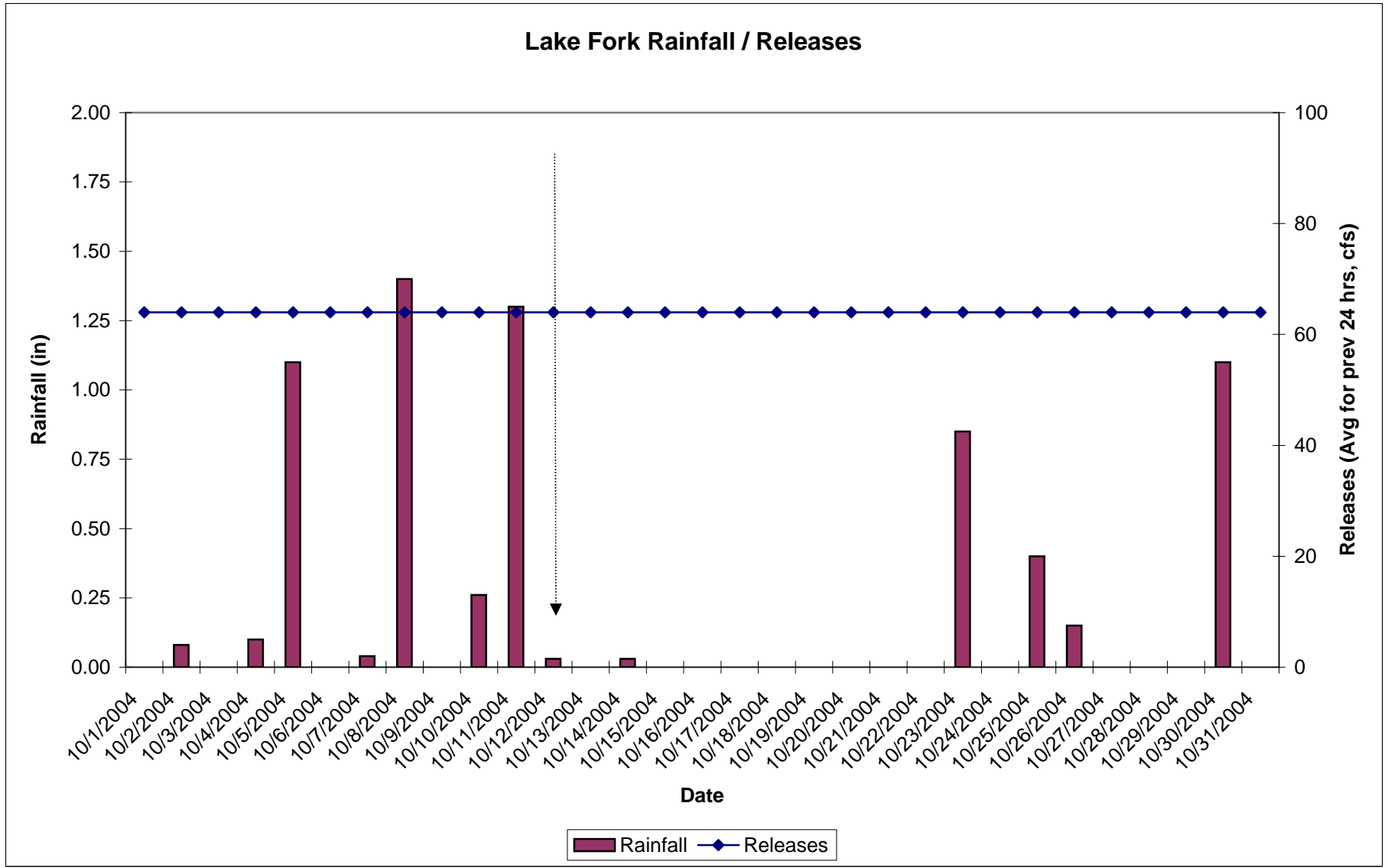
	Avg	Avg	Avg		Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	cfs	Deg F	Deg F	Inches	Inches
			Previous 24 hrs					

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

Lake Fork Sampled on 10/12/2004

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October 2004



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FY 2005 Fixed Monitoring Stations

Lower Sabine Basin

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

SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Report

October 2004

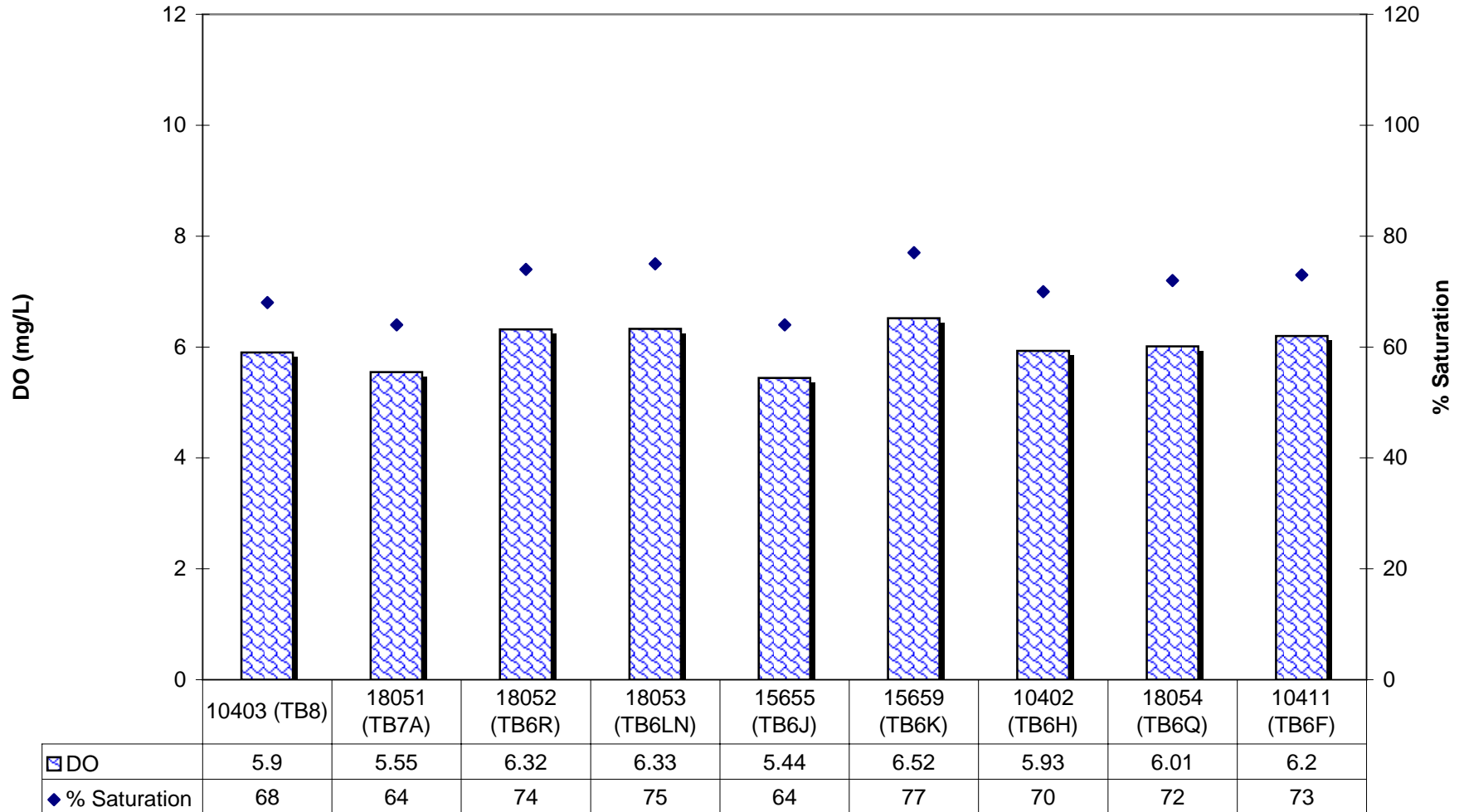
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
10/13/04 11:25 AM	4.00	10403 (TB8)	21.5	6.78	5.9	68	191	*	0.44	28.5	42	*	< 0.02	0.28	0.09	12	*	*	21	23
10/13/04 12:00 PM	4.00	18051 (TB7A)	21.8	6.74	5.55	64	190	*	0.33	28.6	42	*	< 0.02	0.24	0.07	12	*	*	22	22
10/11/04 10:04 AM	4.00	18052 (TB6R)	23.6	7.31	6.32	74	165	*	0.76	3.48	< 1	*	< 0.02	< 0.02	< 0.04	9	*	*	18	13
10/11/04 12:00 PM	4.00	18053 (TB6LN)	24	7.19	6.33	75	149	*	0.81	3.69	1	*	< 0.02	< 0.02	< 0.04	8	*	*	16	14
10/12/04 10:33 AM	4.00	15655 (TB6J)	23.5	7.05	5.44	64	155	*	0.51	6.46	36	*	< 0.02	0.02	< 0.04	7	*	*	17	15
10/12/04 12:40 PM	4.00	15659 (TB6K)	23.6	7.14	6.52	77	147	*	0.62	4.34	< 1	*	0.02	0.03	< 0.04	7	*	*	16	14
10/12/04 11:40 AM	4.00	10402 (TB6H)	24	7.17	5.93	70	152	*	1.02	1.7	< 1	13	< 0.02	0.04	< 0.04	8	*	*	16	14
10/11/04 12:40 PM	4.00	18054 (TB6Q)	24.5	7.17	6.01	72	147	*	0.92	1.89	3	*	0.03	< 0.02	< 0.04	7	*	*	16	14
10/12/04 10:55 AM	4.00	10411 (TB6F)	23.8	7.06	6.2	73	133	*	0.63	5.49	2	*	< 0.02	0.02	< 0.04	6	*	*	14	14
10/12/04 9:55 AM	4.00	10407 (TB6CN)	22.9	6.65	6.96	81	123	*	0.58	11.3	2	*	< 0.02	< 0.02	< 0.04	7	*	*	14	15
10/11/04 1:35 PM	4.00	10404 (TB6A)	24.9	7.2	6.86	83	138	*	2.2	0.91	< 1	6	< 0.02	< 0.02	< 0.04	6	*	*	15	15
10/13/04 12:10 PM	3.03	10340 (BA4)	21.8	7.23	7.42	85	440	*	0.22	20.2	45	*	0.02	0.2	0.12	15	*	*	14	121
10/13/04 10:15 AM	3.00	10401 (TB6S)	19	6.63	7.89	85	152	*	> 1.22	4.6	< 1	*	< 0.02	< 0.02	< 0.04	6	*	*	15	12
10/13/04 11:43 AM	3.00	10399 (SR5)	22.1	6.89	7.79	89	129	*	0.82	4.16	20	5	< 0.02	0.04	< 0.04	7	*	*	14	15
10/13/04 12:30 PM	3.00	10398 (SR3)	22.6	7.08	7.38	85	171	*	0.41	9.71	20	< 3	< 0.02	0.1	< 0.04	8	*	*	11	33
10/13/04 9:00 AM	2.05	10465 (BCC1)	19.8	6.69	8.03	88	43	*	0.28	15.3	126	*	< 0.02	0.05	< 0.04	11	*	*	< 10	< 10
10/13/04 8:22 AM	2.00	10397 (SR2)	22.9	6.92	7.44	86	122	*	0.35	10.3	14	< 3	< 0.02	0.14	< 0.04	7	*	*	10	18

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

October 2004

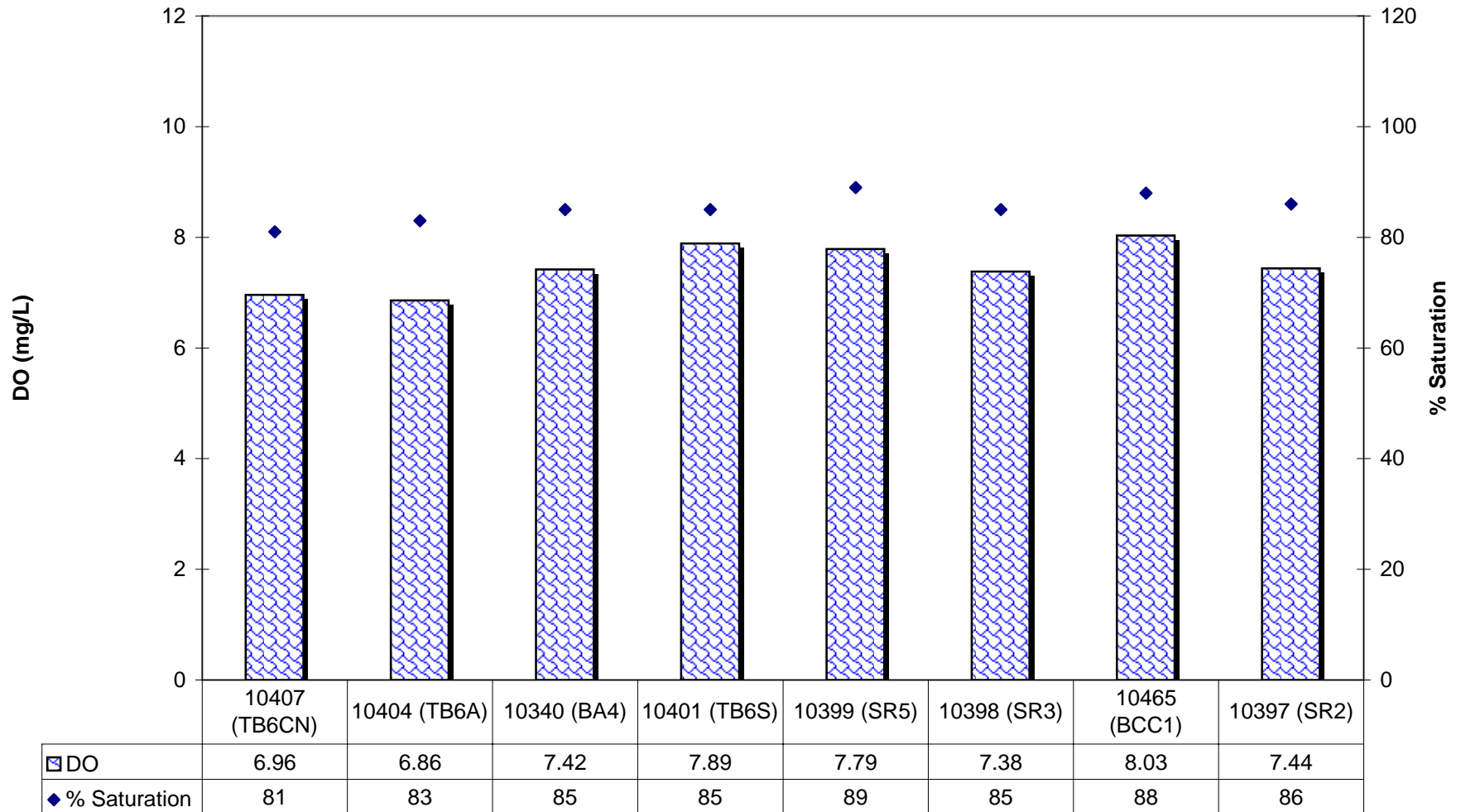
Lower Sabine Basin DO / % Saturation (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

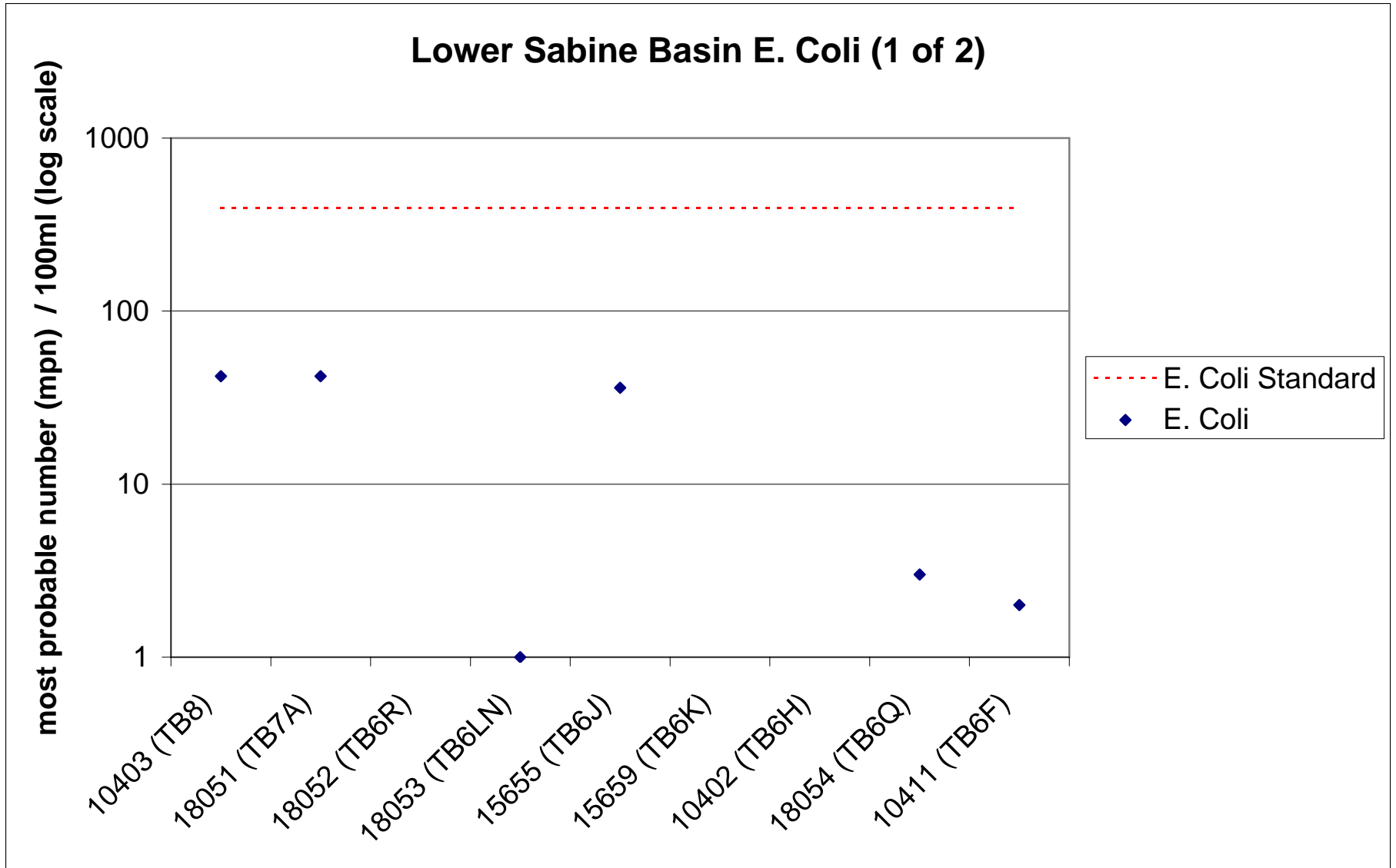
October 2004

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



SABINE RIVER AUTHORITY OF TEXAS

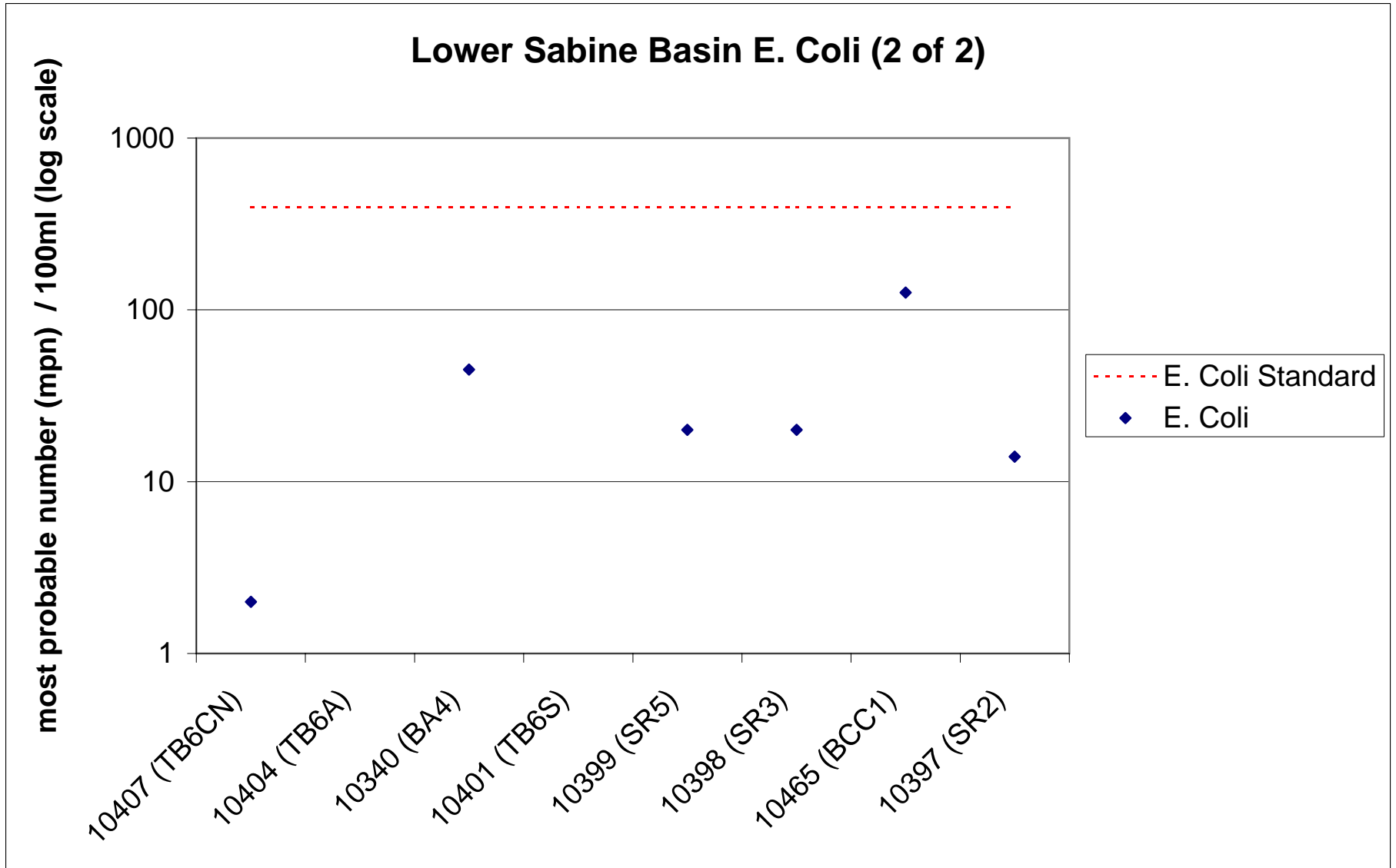
October 2004



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

SABINE RIVER AUTHORITY OF TEXAS

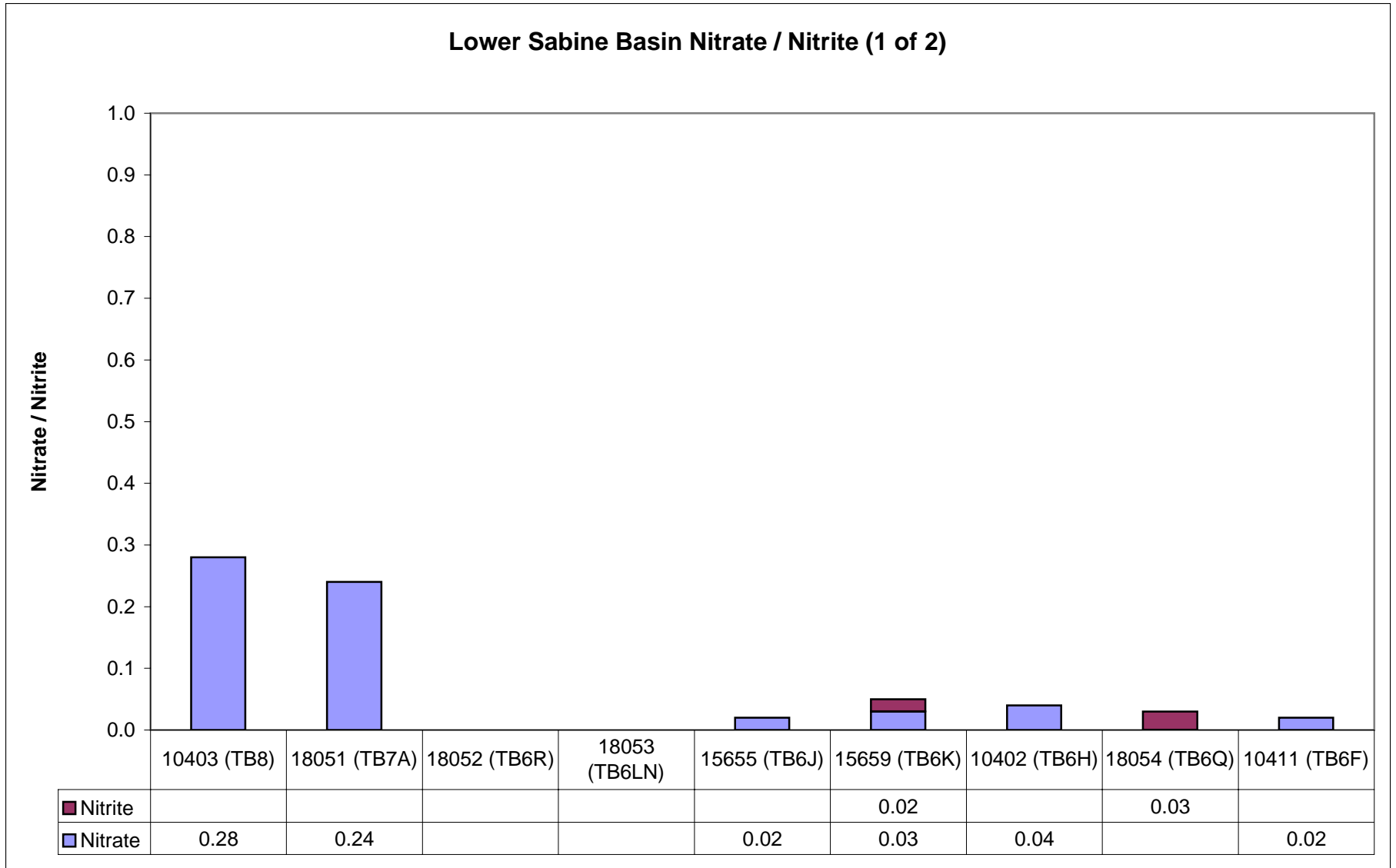
October 2004



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

SABINE RIVER AUTHORITY OF TEXAS

October 2004

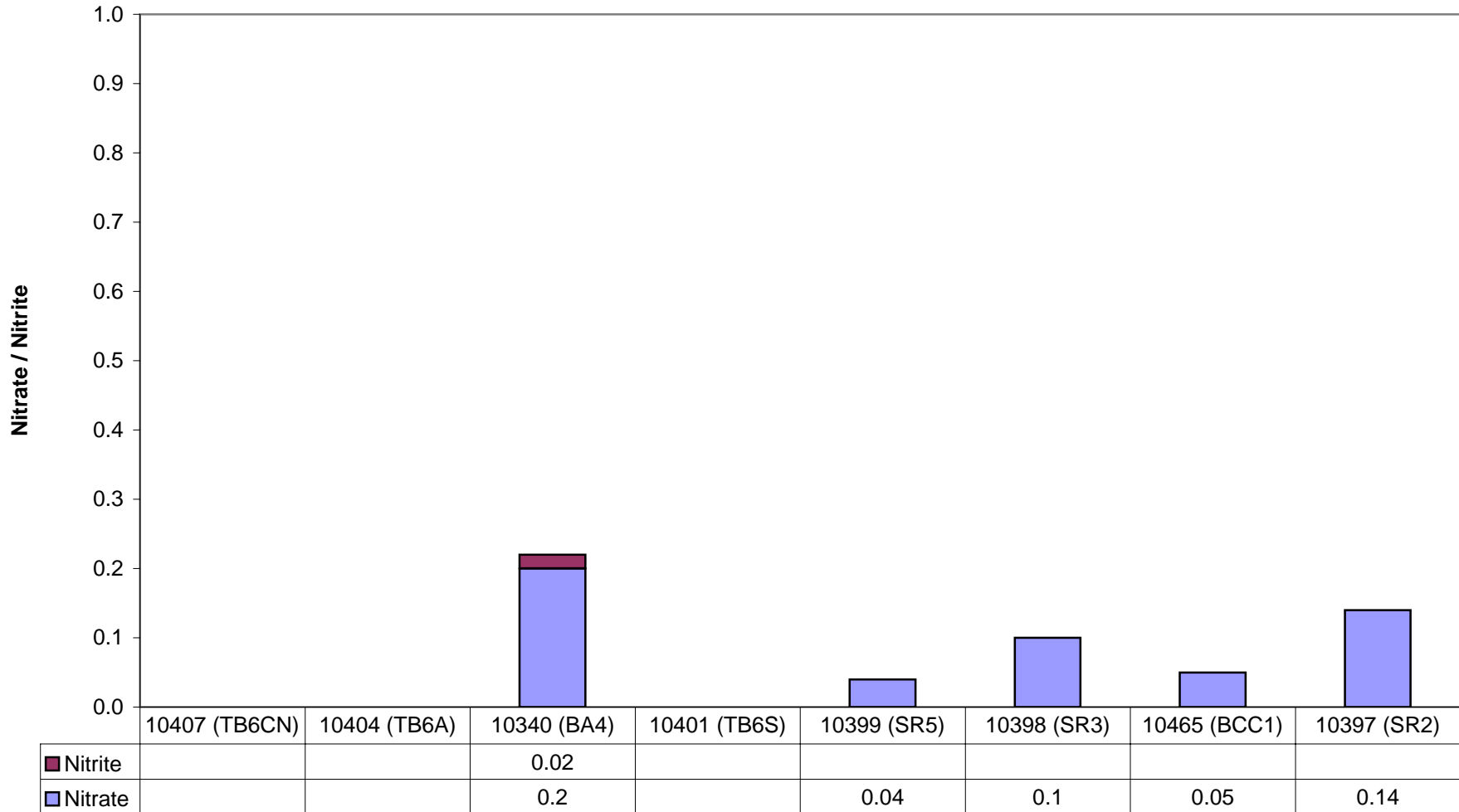


Stations without values below detection limit (< 0.02 mg/L) on this run (see page 18)

SABINE RIVER AUTHORITY OF TEXAS

October 2004

Lower Sabine Basin Nitrate / Nitrite (2 of 2)



SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Profiles

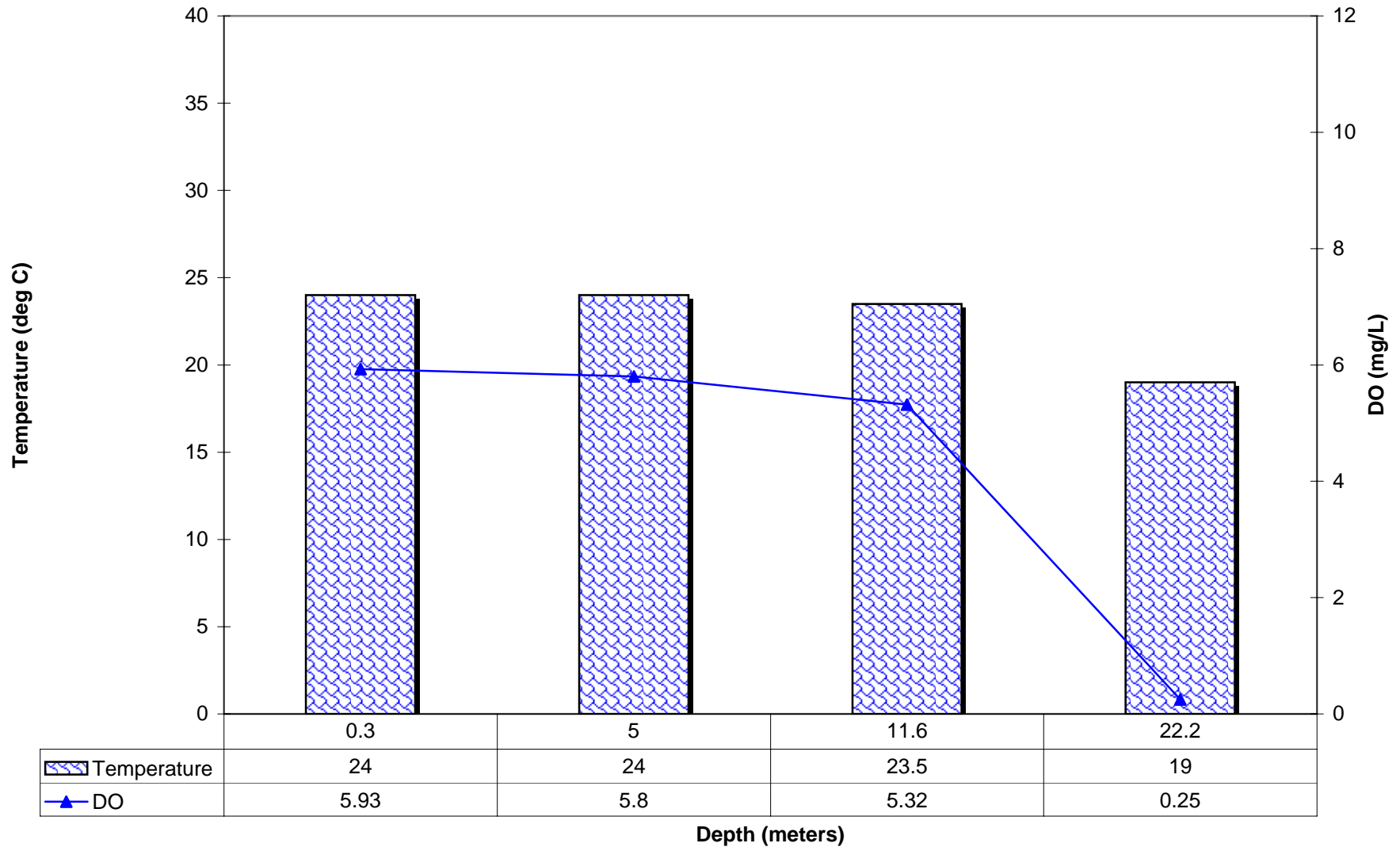
October 2004

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity
				°C 00010	Units 00400	mg/L 00300	Saturation 00301	µS/cm 00094
10/13/04 11:25 AM	4.00	10403 (TB8)	0.3	21.5	6.78	5.9	68	191
			5	21	6.76	5.83	67	193
			10	21	6.76	5.84	67	192
10/13/04 12:00 PM	4.00	18051 (TB7A)	0.3	21.8	6.74	5.55	64	190
			4.5	21	6.71	5.31	61	189
			9.5	21	6.71	5.33	61	191
10/11/04 10:04 AM	4.00	18052 (TB6R)	0.3	23.6	7.31	6.32	74	165
			5	23.6	7.25	6.17	73	165
			10	23.5	7.25	6.23	74	164
			14	23.5	7.2	6.53	77	165
10/11/04 12:00 PM	4.00	18053 (TB6LN)	0.3	24	7.19	6.33	75	149
			2.5	24	7.19	6.28	75	149
			5.1	23.9	7.24	6.16	73	149
10/12/04 10:33 AM	4.00	15655 (TB6J)	0.3	23.5	7.05	5.44	64	155
			1.5	23.4	7.05	5.13	60	155
			3.5	23.1	7.17	5.24	61	155
10/12/04 12:40 PM	4.00	15659 (TB6K)	0.3	23.6	7.14	6.52	77	147
			2	23.5	7.11	6.42	76	147
			4	23.5	7.14	6.1	72	146
			8.4	23.3	7.09	6.01	71	146
10/12/04 11:40 AM	4.00	10402 (TB6H)	0.3	24	7.17	5.93	70	152
			5	24	7.13	5.8	68	152
			11.6	23.5	7.03	5.32	63	153
			22.2	19	6.81	0.25	3	215
10/11/04 12:40 PM	4.00	18054 (TB6Q)	0.3	24.5	7.17	6.01	72	147
			2.5	24.5	7.14	5.97	72	146
			5	24.4	7.12	5.96	72	146
			8.5	24.3	6.91	2.3	27	159
10/12/04 10:55 AM	4.00	10411 (TB6F)	0.3	23.8	7.06	6.2	73	133
			2.5	23.8	7.01	5.73	68	132
			4.5	23.5	7.02	3.64	43	133
10/12/04 9:55 AM	4.00	10407 (TB6CN)	0.3	22.9	6.65	6.96	81	123
			3.1	22.6	6.36	5.56	65	115
			6.1	21.8	6.14	3.77	43	110
10/11/04 1:35 PM	4.00	10404 (TB6A)	0.3	24.9	7.2	6.86	83	138
			2.5	24.9	7.18	6.78	82	138
			5	24.9	7.13	6.83	82	139
			11	24.8	6.9	6.54	77	138
			16	18.3	6.59	0.34	4	150

SABINE RIVER AUTHORITY OF TEXAS

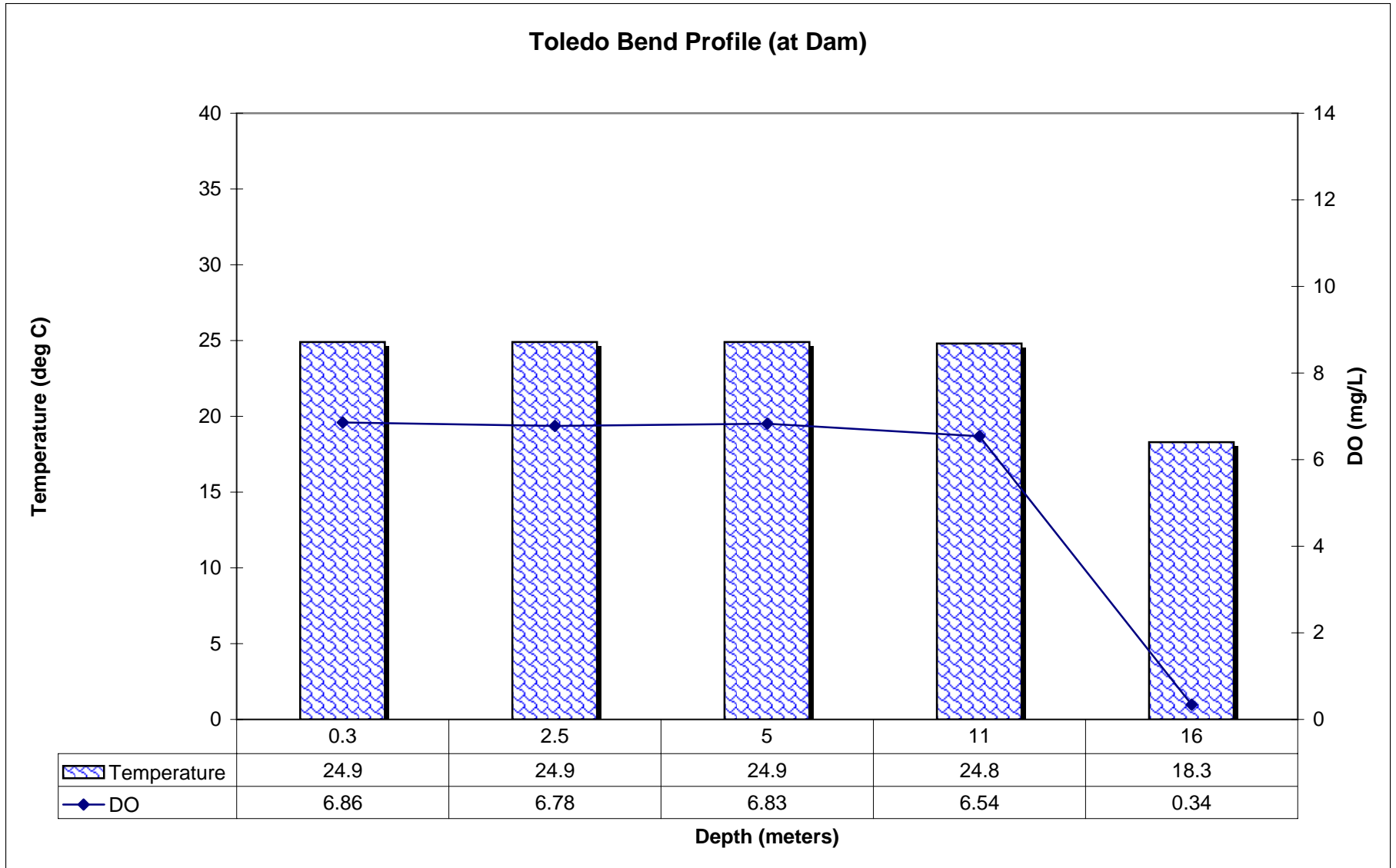
October 2004

Toledo Bend Profile (at Pendleton Bridge)



SABINE RIVER AUTHORITY OF TEXAS

October 2004



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

October 2004

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
10/1/2004	167.91	(4.09)	86	64	0.00	0.25	204	405	204
10/2/2004	168.12	(3.88)	87	64	0.74	0.28	204	405	204
10/3/2004	168.01	(3.99)	83	67	0.16	0.12	204	405	204
10/4/2004	167.97	(4.03)	83	67	0.00	0.15	816	1,619	204
10/5/2004	168.10	(3.90)	82	59	0.77	0.28	152	301	174
10/6/2004	168.10	(3.90)	82	59	0.00	0.18	806	1,599	144
10/7/2004	168.05	(3.95)	85	67	0.78	0.33	152	301	144
10/8/2004	168.14	(3.86)	80	69	0.14	0.10	806	1,599	144
10/9/2004	168.32	(3.68)	75	68	0.38	0.06	959	348	174
10/10/2004	168.31	(3.69)	73	66	0.25	0.18	174	345	174
10/11/2004	168.36	(3.64)	73	65	0.30	0.01	745	1,478	174
10/12/2004	168.45	(3.55)	73	64	0.00	0.06	174	345	174
10/13/2004	168.42	(3.58)	71	53	0.00	0.13	798	1,583	174
10/14/2004	168.48	(3.52)	80	55	0.23	0.17	174	345	174
10/15/2004	168.36	(3.64)	67	46	0.00	0.31	1,061	2,104	174
10/16/2004	168.38	(3.62)	77	48	0.00	0.17	174	345	174
10/17/2004	168.38	(3.62)	82	54	0.00	0.20	174	345	174
10/18/2004	168.33	(3.67)	85	64	0.00	0.16	716	1,420	174
10/19/2004	168.37	(3.63)	86	74	0.00	0.18	174	345	174
10/20/2004	168.42	(3.58)	87	74	0.00	0.26	1,561	3,096	174
10/21/2004	168.38	(3.62)	88	73	0.00	0.24	1,640	3,253	174
10/22/2004	168.38	(3.62)	88	73	0.00	0.14	174	345	174
10/23/2004	168.38	(3.62)	86	73	0.03	0.15	174	345	174
10/24/2004	168.42	(3.58)	80	67	0.00	0.08	174	345	174
10/25/2004	168.46	(3.54)	84	68	1.05	0.24	808	1,603	174
10/26/2004	168.47	(3.53)	85	67	0.00	0.13	174	345	174
10/27/2004	168.44	(3.56)	85	67	0.00	0.14	751	1,489	174
10/28/2004	168.47	(3.53)	86	68	0.00	0.16	174	345	174
10/29/2004	168.43	(3.57)	84	68	0.00	0.20	1,064	2,110	174
10/30/2004	168.48	(3.52)	85	69	0.00	0.21	174	345	174
10/31/2004	168.45	(3.55)	84	68	0.00	0.19	174	345	174
Avg or Tot	168.31	(3.69)	82	65	4.83	5.46	507	29,603	

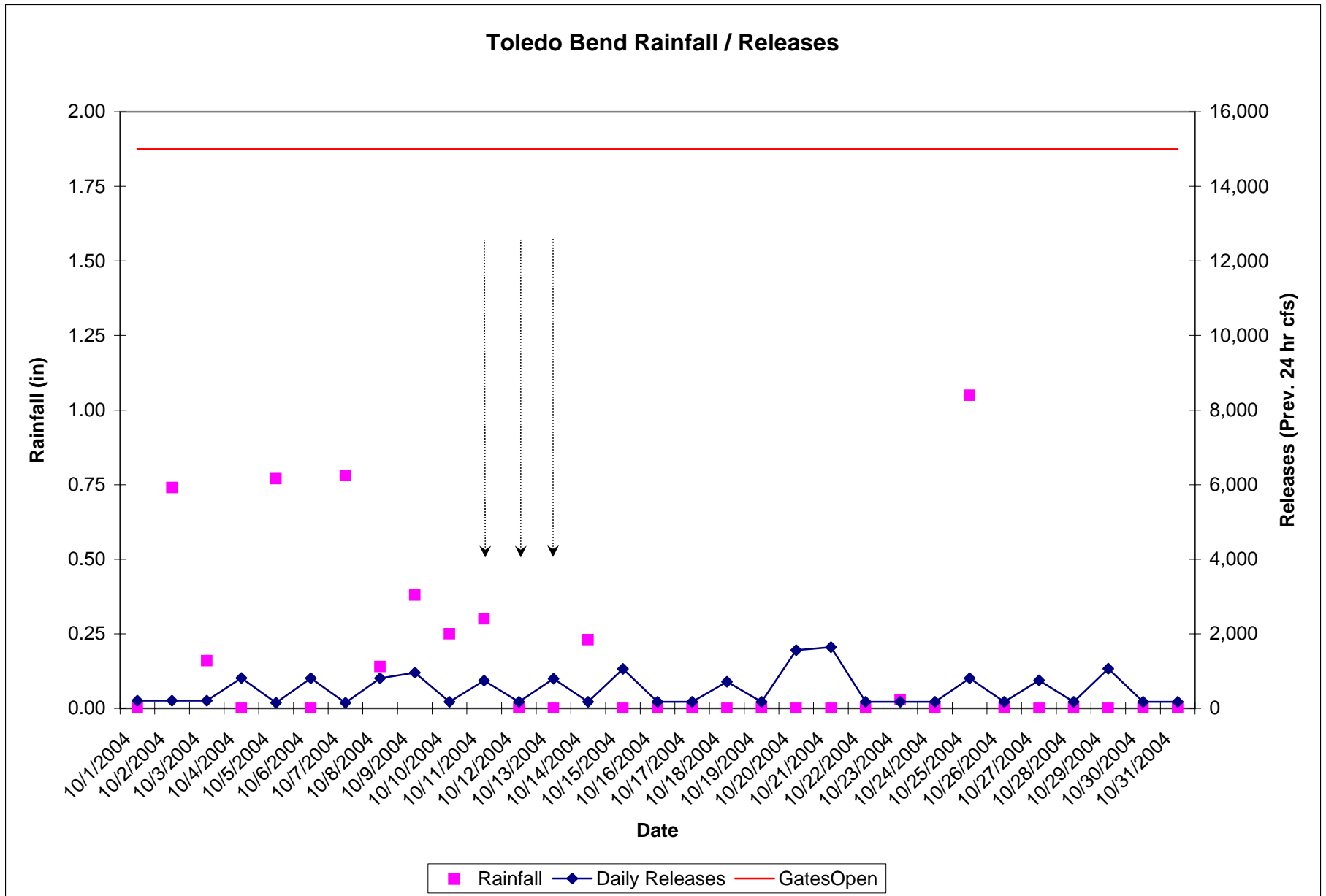
Units	Avg Feet M.S.L.	Avg Feet	Avg Deg. F	Avg Deg. F	Tot Inches	Tot Inches	Avg cfs	Tot Ac. Ft.	cfs
									approx. 8:00 a.m.

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

Toledo Bend Sampled on 10/11,12,13/2004

SABINE RIVER AUTHORITY OF TEXAS

October 2004



Toledo Bend sampled on 10/11,12,13/2004

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

SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

October 2004

Date	<i>Rainfall</i>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow</i>
10/1/2004	0.01	12.27	(25.73)	146
10/2/2004	0.61	12.26	(25.74)	143
10/3/2004	0.83	12.38	(25.62)	170
10/4/2004	0.00	12.31	(25.69)	154
10/5/2004	0.50	13.79	(24.21)	638
10/6/2004	0.00	12.30	(25.70)	152
10/7/2004	1.03	14.07	(23.93)	764
10/8/2004	1.22	12.48	(25.52)	194
10/9/2004	1.38	14.39	(23.61)	921
10/10/2004	0.11	12.71	(25.29)	254
10/11/2004	0.12	12.72	(25.28)	257
10/12/2004	0.00	14.37	(23.63)	911
10/13/2004	0.00	12.47	(25.53)	192
10/14/2004	0.25	14.35	(23.65)	900
10/15/2004	0.03	12.30	(25.70)	152
10/16/2004	0.00	14.69	(23.31)	1,080
10/17/2004	0.00	12.23	(25.77)	137
10/18/2004	0.00	12.13	(25.87)	117
10/19/2004	0.01	14.18	(23.82)	816
10/20/2004	0.00	12.19	(25.81)	129
10/21/2004	0.01	18.63	(19.37)	4,240
10/22/2004	0.00	13.05	(24.95)	358
10/23/2004	0.00	12.76	(25.24)	269
10/24/2004	0.12	12.76	(25.24)	269
10/25/2004	0.56	12.76	(25.24)	269
10/26/2004	OUT	OUT	OUT	OUT
10/27/2004	OUT	OUT	OUT	OUT
10/28/2004	0.00	14.11	(23.89)	783
10/29/2004	0.00	12.24	(25.76)	139
10/30/2004	0.00	14.61	(23.39)	1,040
10/31/2004	0.00	12.18	(25.82)	127
Avg or Tot	6.79	13.23	(24.77)	542

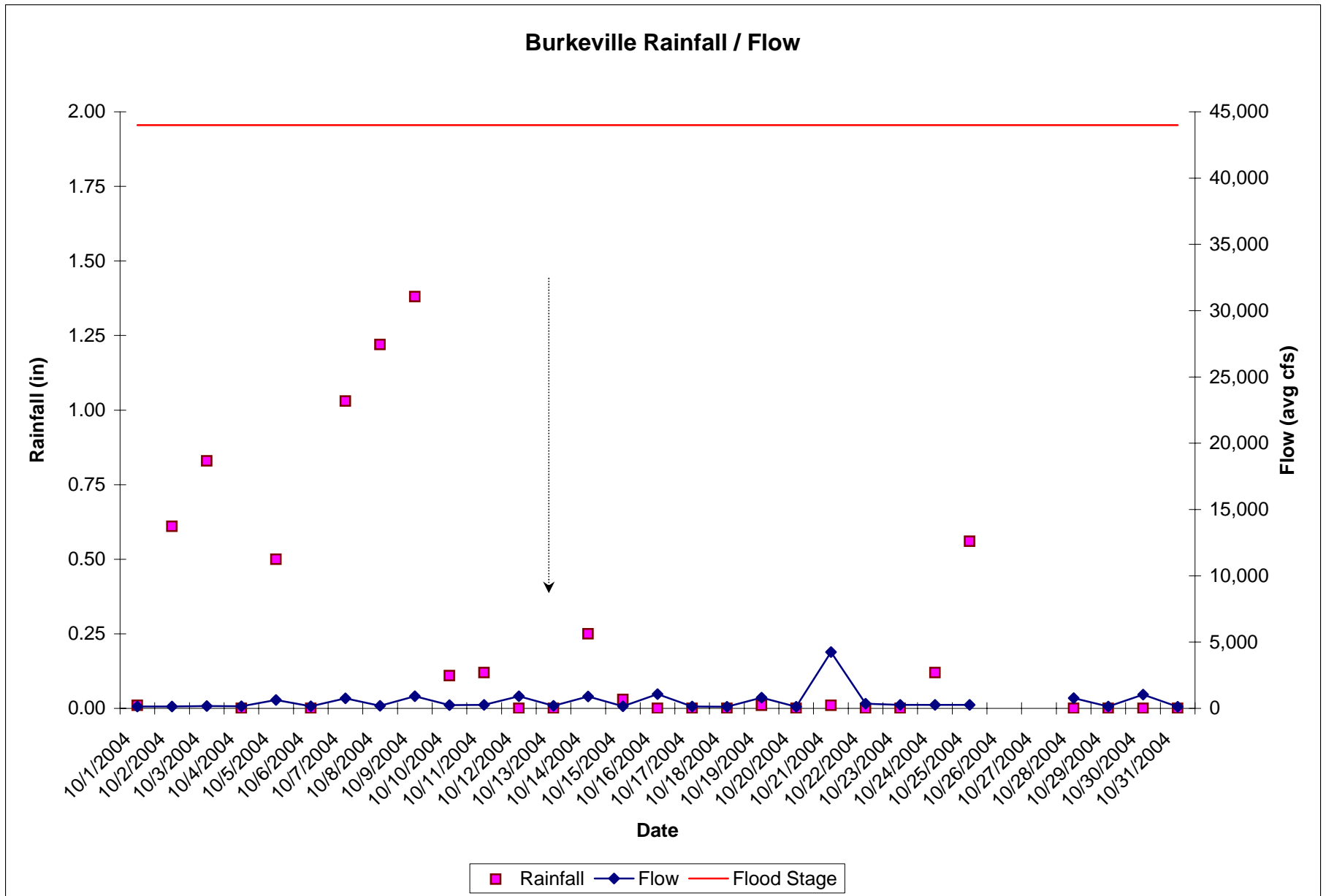
	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 38 feet

Lower Sabine Basin Sampled on 10/13/2004

SABINE RIVER AUTHORITY OF TEXAS

October 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

October 2004

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
10/1/2004	13.55	(16.45)	1,080	0.00
10/2/2004	13.25	(16.75)	921	0.00
10/3/2004	13.35	(16.65)	973	0.91
10/4/2004	13.41	(16.59)	1,010	0.00
10/5/2004	13.36	(16.64)	979	0.87
10/6/2004	14.30	(15.70)	1,530	0.08
10/7/2004	13.41	(16.59)	1,010	0.02
10/8/2004	14.56	(15.44)	1,690	0.02
10/9/2004	13.70	(16.30)	1,160	0.02
10/10/2004	14.75	(15.25)	1,820	0.02
10/11/2004	14.08	(15.92)	1,390	0.01
10/12/2004	14.18	(15.82)	1,450	0.01
10/13/2004	14.75	(15.25)	1,820	0.00
10/14/2004	13.85	(16.15)	1,250	0.00
10/15/2004	14.51	(15.49)	1,660	0.00
10/16/2004	13.64	(16.36)	1,130	0.00
10/17/2004	14.61	(15.39)	1,730	0.00
10/18/2004	13.41	(16.59)	1,010	0.00
10/19/2004	13.18	(16.82)	885	0.00
10/20/2004	14.02	(15.98)	1,350	0.00
10/21/2004	13.20	(16.80)	895	0.00
10/22/2004	16.61	(13.39)	3,410	0.00
10/23/2004	13.81	(16.19)	1,230	0.00
10/24/2004	13.08	(16.92)	835	0.04
10/25/2004	13.02	(16.98)	806	0.02
10/26/2004	13.08	(16.92)	835	0.00
10/27/2004	14.20	(15.80)	1,460	0.00
10/28/2004	13.32	(16.68)	958	0.00
10/29/2004	14.13	(15.87)	1,420	0.00
10/30/2004	13.25	(16.75)	921	0.00
10/31/2004	14.36	(15.64)	1,560	0.00
Avg or Tot	13.87	(16.13)	1,296	2.02

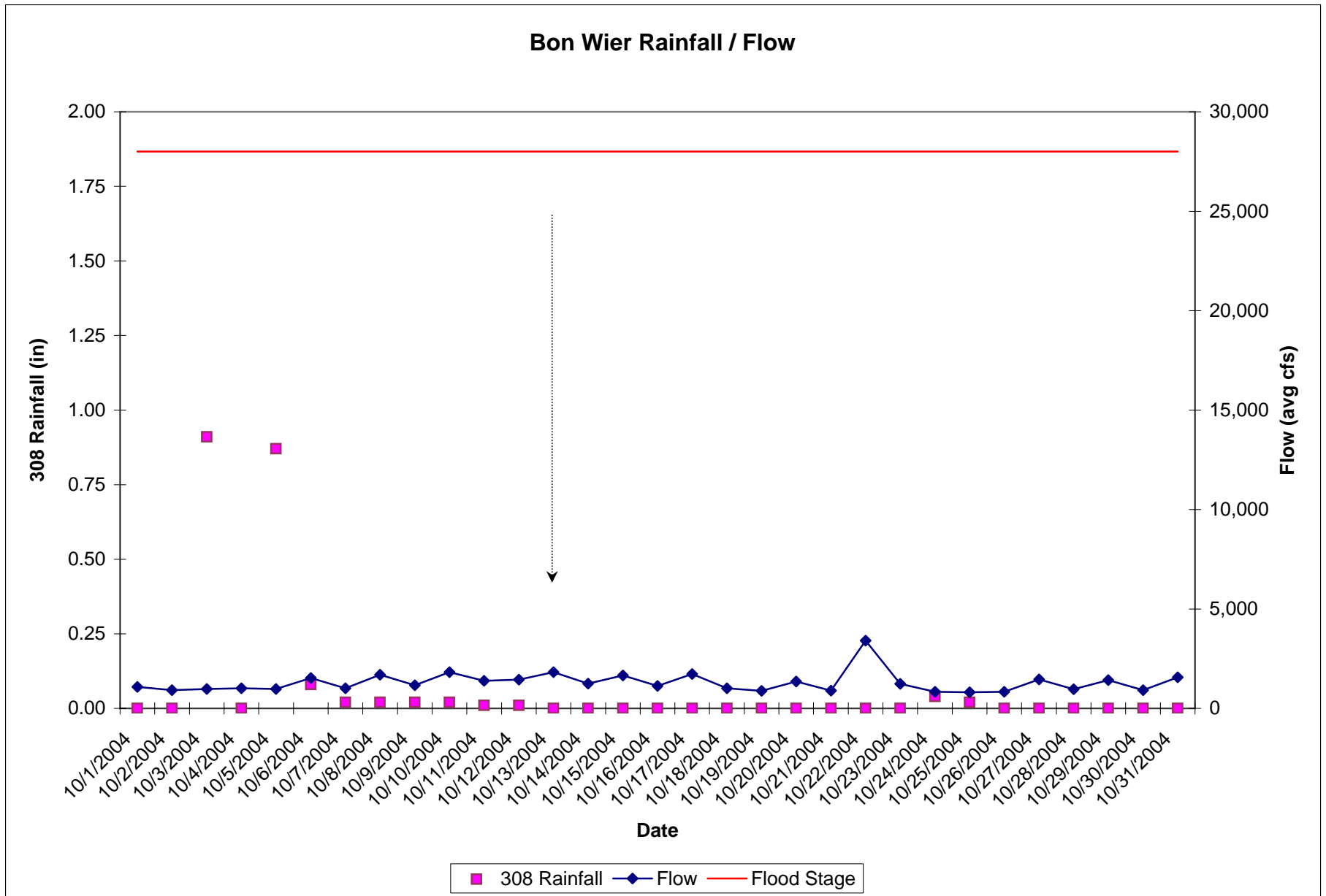
Units	Avg Feet	Avg Feet	Avg	Tot Inches
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FS: Flood Stage = 30 feet

Lower Sabine Basin Sampled on 10/13/2004

SABINE RIVER AUTHORITY OF TEXAS

October 2004



Lower Sabine Basin sampled on 10/13/2004

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

October 2004

Date	Gauge Height	GH - FS	Flow cfs	Flow acft	Flow avg	309 Rainfall
10/1/2004	18.60	(5.40)	3,320	6,585	3,320	0.00
10/2/2004	17.38	(6.62)	2,540	5,038	2,930	0.00
10/3/2004	15.92	(8.08)	1,780	3,531	2,547	0.36
10/4/2004	15.41	(8.59)	1,580	3,134	2,305	0.00
10/5/2004	15.59	(8.41)	1,650	3,273	2,174	0.50
10/6/2004	15.67	(8.33)	1,680	3,332	2,092	0.03
10/7/2004	16.04	(7.96)	1,830	3,630	2,054	0.01
10/8/2004	16.14	(7.86)	1,880	3,729	2,033	0.00
10/9/2004	16.68	(7.32)	2,150	4,264	2,045	0.00
10/10/2004	16.76	(7.24)	2,190	4,343	2,060	0.01
10/11/2004	16.99	(7.01)	2,310	4,581	2,082	0.01
10/12/2004	17.03	(6.97)	2,340	4,641	2,104	0.03
10/13/2004	16.83	(7.17)	2,230	4,423	2,114	0.03
10/14/2004	17.00	(7.00)	2,320	4,602	2,129	0.01
10/15/2004	16.70	(7.30)	2,160	4,284	2,131	0.01
10/16/2004	16.30	(7.70)	1,960	3,888	2,120	0.00
10/17/2004	16.22	(7.78)	1,920	3,808	2,108	0.00
10/18/2004	16.21	(7.79)	1,910	3,788	2,097	0.01
10/19/2004	16.15	(7.85)	1,880	3,729	2,086	0.00
10/20/2004	15.32	(8.68)	1,550	3,074	2,059	0.01
10/21/2004	15.25	(8.75)	1,520	3,015	2,033	0.00
10/22/2004	15.55	(8.45)	1,640	3,525	2,015	0.00
10/23/2004	16.58	(7.42)	2,100	4,165	2,019	0.00
10/24/2004	17.30	(6.70)	2,490	4,939	2,039	0.00
10/25/2004	15.75	(8.25)	1,710	3,392	2,026	0.00
10/26/2004	15.05	(8.95)	1,450	2,876	2,004	0.00
10/27/2004	14.77	(9.23)	1,350	2,678	1,979	0.00
10/28/2004	15.24	(8.76)	1,520	3,014	2,016	0.00
10/29/2004	15.63	(8.37)	1,670	3,312	2,004	0.00
10/30/2004	15.38	(8.62)	1,570	3,114	1,990	0.00
10/31/2004	15.52	(8.48)	1,630	3,233	1,978	0.00
Avg or Tot	16.16	(7.84)	1,930	118,940		1.02

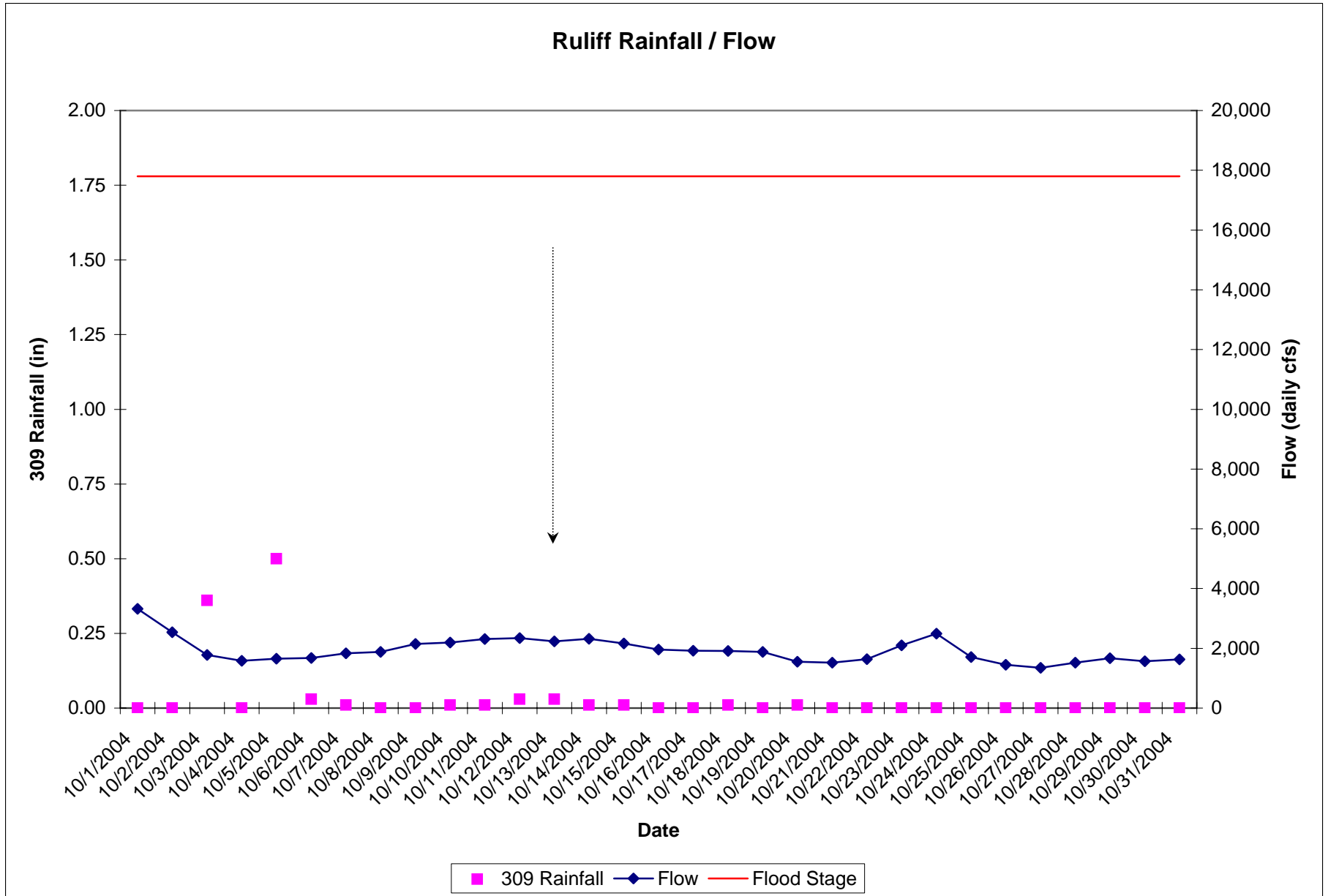
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
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FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 10/13/2004

SABINE RIVER AUTHORITY OF TEXAS

October 2004



Lower Sabine Basin sampled on 10/13/2004

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

October 2004

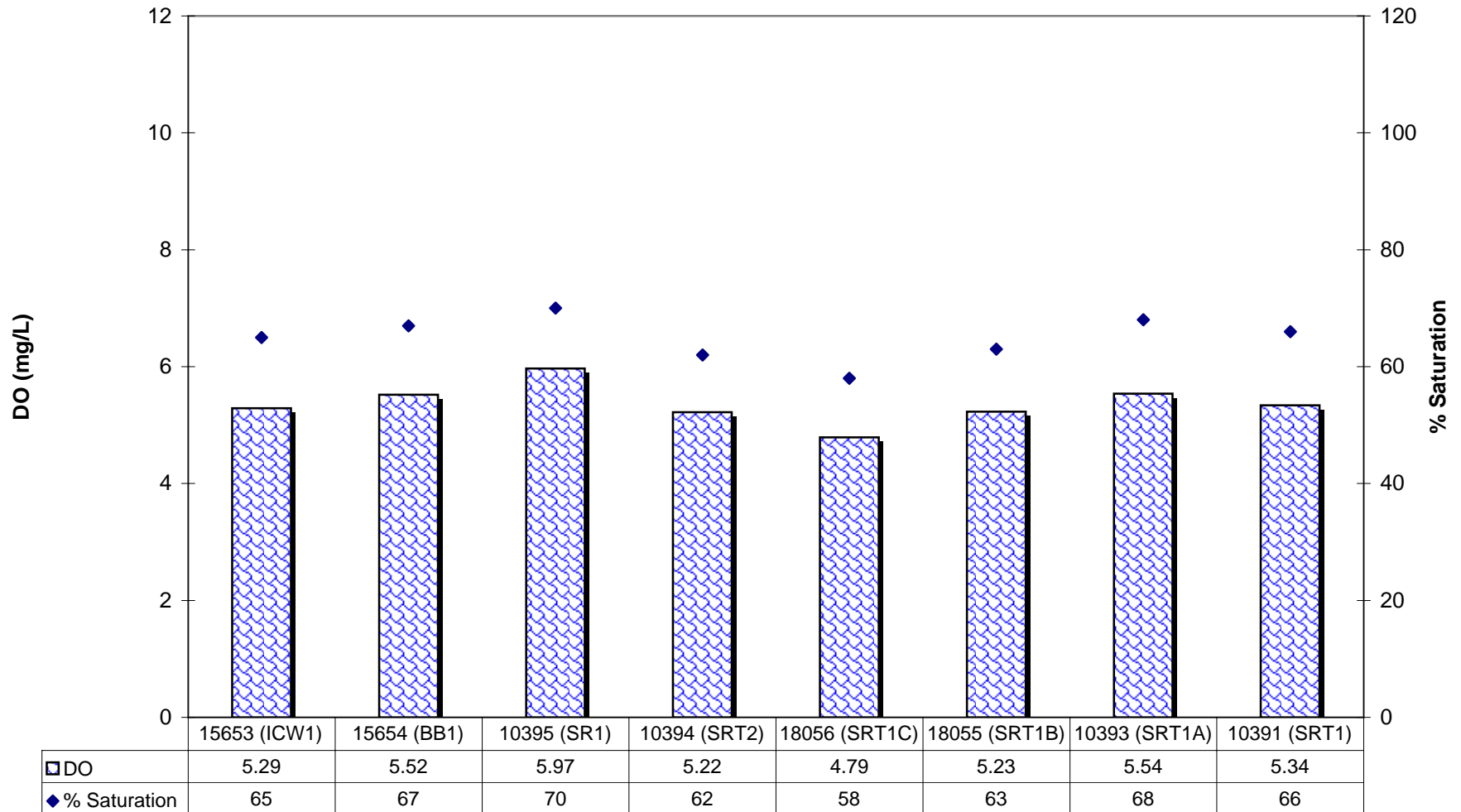
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	<i>Enterococcus</i> mpn/100ml 31701	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900
10/14/04 10:07 AM	1.05	15653 (ICW1)	24.3	6.84	5.29	65	7573	4	0.6	9.53	194	11	*	< 0.02	0.11	< 0.04	4	*	*
10/14/04 10:45 AM	1.01	15654 (BB1)	23.1	6.88	5.52	67	11330	6	0.55	14.6	291	154	*	< 0.02	< 0.02	< 0.04	4	*	*
10/14/04 9:07 AM	1.00	10395 (SR1)	23.5	6.93	5.97	70	233	*	0.36	19.7	18	*	< 0.02	0.14	< 0.04	8	*	*	
10/14/04 9:40 AM	1.00	10394 (SRT2)	23.7	6.86	5.22	62	1184	< 1	0.44	13.1	20	15	*	< 0.02	0.12	< 0.04	6	*	*
10/14/04 9:50 AM	1.00	18056 (SRT1C)	23.7	6.87	4.79	58	1902	1	0.49	12.2	29	22	*	< 0.02	0.11	< 0.04	6	*	*
10/14/04 10:20 AM	1.00	18055 (SRT1B)	23.9	6.86	5.23	63	4951	3	0.64	7.01	20	17	*	< 0.02	0.11	< 0.04	5	*	*
10/14/04 10:30 AM	1.00	10393 (SRT1A)	24	6.91	5.54	68	7424	4	0.68	5.16	50	21	*	< 0.02	0.11	< 0.04	4	*	*
10/14/04 10:55 AM	1.00	10391 (SRT1)	24.2	6.93	5.34	66	10550	6	0.67	11.5	144	29	*	< 0.02	0.1	0.04	3	*	*

*: Not sampled on this run

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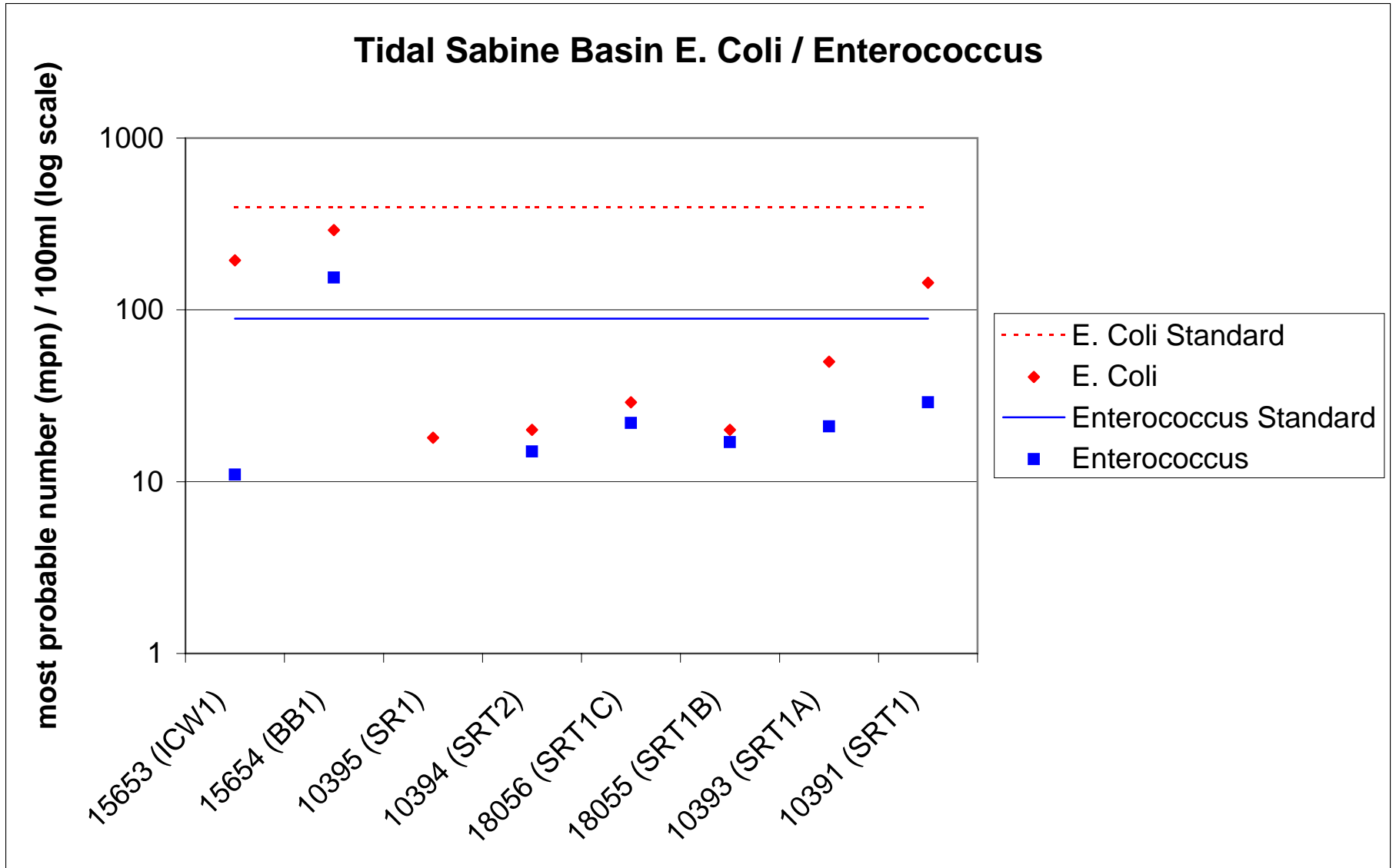
October 2004

Tidal Sabine Basin DO / % Saturation



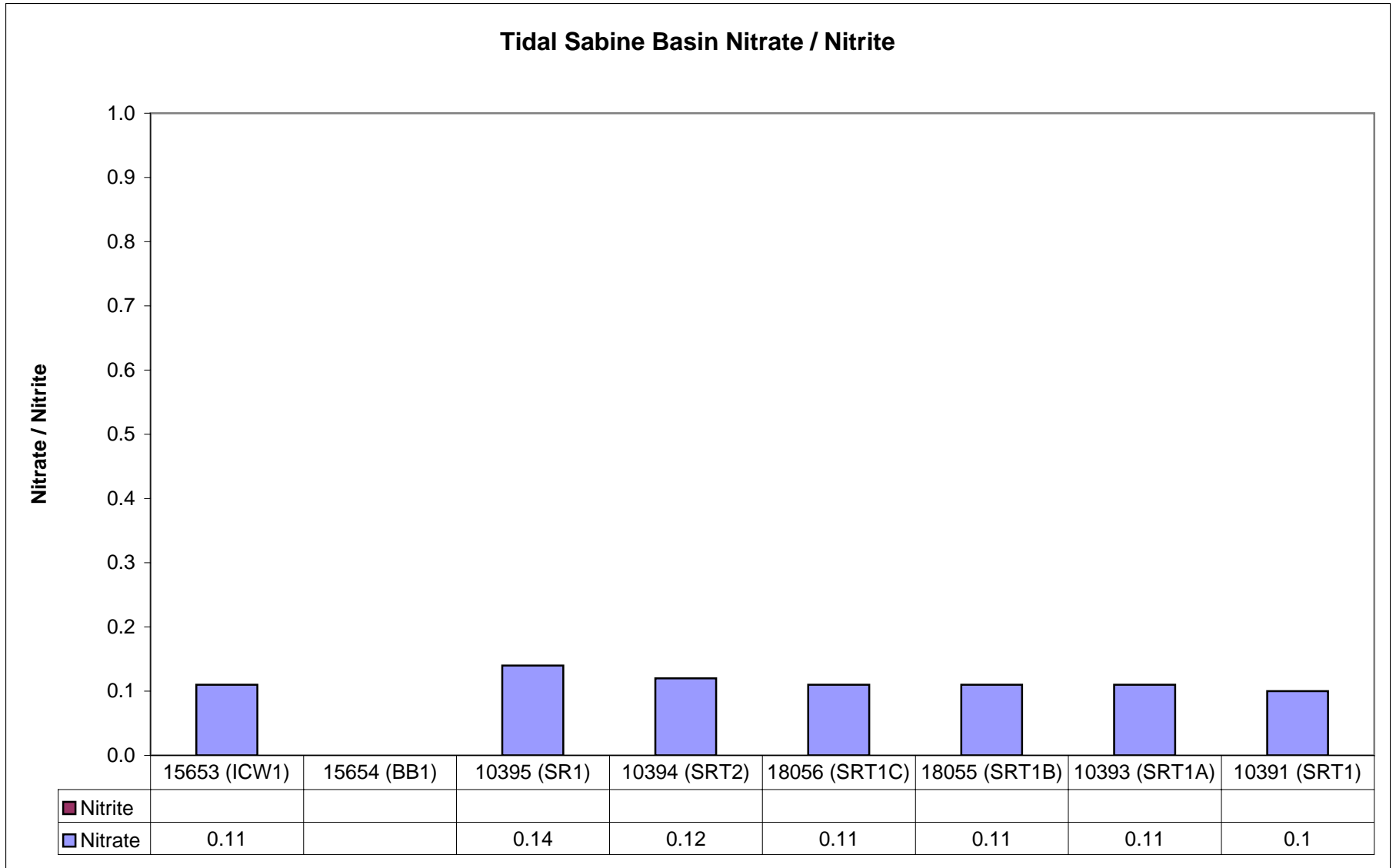
SABINE RIVER AUTHORITY OF TEXAS

October 2004



SABINE RIVER AUTHORITY OF TEXAS

October 2004



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

SABINE RIVER AUTHORITY OF TEXAS

Tidal Profiles

October 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
10/14/04 10:07 AM	1.05	15653 (ICW1)	0.3	24.3	6.84	5.29	65	7573	4
			3	24.2	6.83	5.11	62	7569	4
			5.7	24.2	6.82	5.31	65	7574	4
10/14/04 10:45 AM	1.01	15654 (BB1)	0.3	23.1	6.88	5.52	67	11330	6
			4.8	22.9	6.85	5.55	67	11340	7
10/14/04 9:40 AM	1.00	10394 (SRT2)	0.3	23.7	6.86	5.22	62	1184	< 1
			3.5	23.8	6.93	5.02	60	1408	< 1
			5.4	25.1	6.67	2.74	35	9834	6
			7.3	26.4	6.61	0.95	12	17780	10
10/14/04 9:50 AM	1.00	18056 (SRT1C)	0.3	23.7	6.87	4.79	58	1902	1
			2.5	24.6	6.79	3.8	47	6992	4
			7	25.7	6.83	2.82	37	16210	10
			11	26.7	6.92	1.84	25	23490	14
10/14/04 10:20 AM	1.00	18055 (SRT1B)	0.3	23.9	6.86	5.23	63	4951	3
			4	24.5	6.87	4.81	60	9167	5
			8.8	25.7	6.84	2.26	30	18660	11
10/14/04 10:30 AM	1.00	10393 (SRT1A)	0.3	24	6.91	5.54	68	7424	4
			3	24.4	6.88	5.15	64	9572	5
			7	24.7	6.87	4.33	52	11760	8
10/14/04 10:55 AM	1.00	10391 (SRT1)	0.3	24.2	6.93	5.34	66	10550	6
			5	24.4	6.97	5.12	64	11380	6
			10	25.1	7.04	2.96	38	17260	10

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Orange Weather and River Data

October 2004

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
10/1/2004	OUT	OUT	OUT	86	58	64	0.00
10/2/2004	OUT	OUT	OUT	89	64	75	0.00
10/3/2004	OUT	OUT	OUT	83	68	69	0.45
10/4/2004	OUT	OUT	OUT	89	69	69	0.00
10/5/2004	OUT	OUT	OUT	89	61	65	0.07
10/6/2004	OUT	OUT	OUT	81	64	69	0.00
10/7/2004	OUT	OUT	OUT	85	68	72	0.10
10/8/2004	OUT	OUT	OUT	80	71	72	1.83
10/9/2004	OUT	OUT	OUT	76	68	65	0.46
10/10/2004	OUT	OUT	OUT	75	65	70	1.10
10/11/2004	OUT	OUT	OUT	75	63	63	0.03
10/12/2004	OUT	OUT	OUT	78	61	61	0.01
10/13/2004	OUT	OUT	OUT	76	56	56	0.00
10/14/2004	OUT	OUT	OUT	83	55	67	0.04
10/15/2004	OUT	OUT	OUT	70	48	51	0.12
10/16/2004	OUT	OUT	OUT	80	51	55	0.00
10/17/2004	OUT	OUT	OUT	84	54	67	0.00
10/18/2004	OUT	OUT	OUT	85	67	78	0.00
10/19/2004	OUT	OUT	OUT	87	77	80	0.00
10/20/2004	OUT	OUT	OUT	89	76	77	0.00
10/21/2004	OUT	OUT	OUT	89	74	74	0.00
10/22/2004	OUT	OUT	OUT	89	74	74	0.00
10/23/2004	OUT	OUT	OUT	87	72	72	0.00
10/24/2004	OUT	OUT	OUT	84	72	73	0.06
10/25/2004	OUT	OUT	OUT	85	71	73	0.55
10/26/2004	OUT	OUT	OUT	87	69	70	0.00
10/27/2004	OUT	OUT	OUT	86	68	72	0.00
10/28/2004	OUT	OUT	OUT	86	68	69	0.00
10/29/2004	OUT	OUT	OUT	86	62	73	0.00
10/30/2004	OUT	OUT	OUT	85	71	72	0.00
10/31/2004	OUT	OUT	OUT	86	66	67	0.00
Avg or Tot	OUT	OUT	OUT	84	66	69	4.82

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

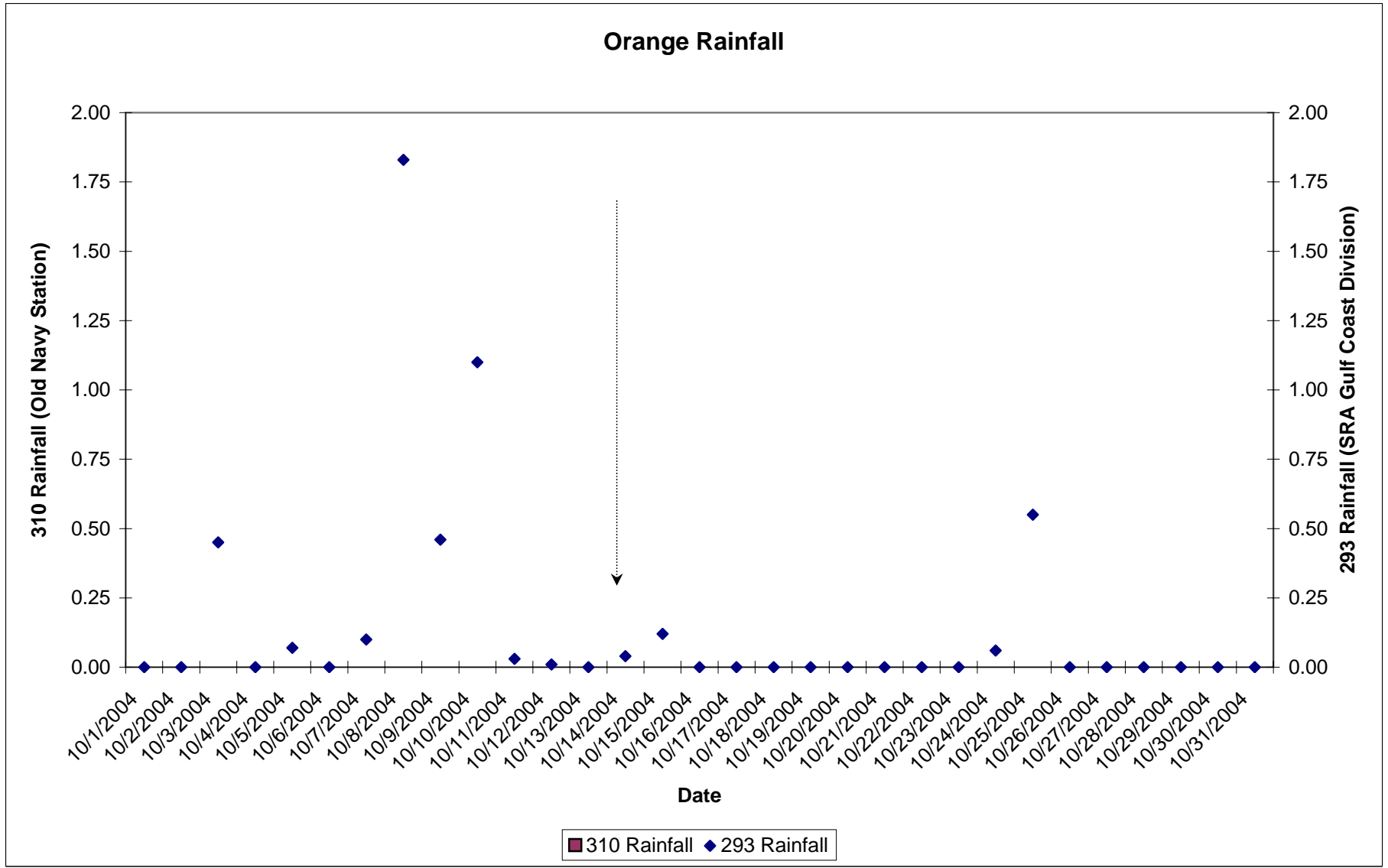
FS: Flood Stage = 4 Feet

OUT: Gage Out

Tidal Sabine Basin Sampled on 10/14/2004

SABINE RIVER AUTHORITY OF TEXAS

October 2004



Tidal Sabine Basin Sampled on 10/14/2004