
SABINE RIVER AUTHORITY OF TEXAS

TO: INTERESTED PARTIES
FROM: WATER RESOURCES BRANCH
RE: NOVEMBER 2005 MONTHLY WATER QUALITY REPORT

This is the Sabine River Authority Water Quality Report for November 2005. Water quality sampling was performed November 7th through November 10th. Recent weather (previous seven days) in the Sabine River Basin was mild, with daytime highs in the upper 60s to mid 80s at Lake Tawakoni and at Lake Fork. Toledo Bend Reservoir and Orange had daytime highs from the mid 60s to the mid 80s. Lows ranged from the low 40s to upper 70s at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the upper 30s to the high 60s. The waters of Lake Tawakoni and Lake Fork were thermally mixed with only the deeper reservoir sites exhibiting a slight stratification. During the 28 days prior to the sample run, the Upper Basin received 2.06 and 1.47 inches of rainfall as recorded at Lake Tawakoni and at Lake Fork, respectively. Lake Tawakoni received 1.35 inches of rain and Lake Fork received 0.86 inches of rain the week preceding the sample run. Toledo Bend and Orange received 1.33 and 0.95 inches of precipitation 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 399.43 feet msl with 8 cfs releases and the level of Lake Tawakoni was recorded at 430.85 feet msl with 6 cfs releases at the time of sampling. Station LT23C exceeded the stream standards numeric criteria for pH. Stations LT23C, LF3 and SR10 exceeded 100 percent saturation for dissolved oxygen. Stations LT23A, LT23D, LT23C, LF3, LF4, SR22 and SR19 exceeded the recommended screening criteria for chlorophyll *a*. High chlorophyll *a* levels in conjunction with dissolved oxygen saturation values exceeding 100% often indicate algal bloom conditions. Station SR22 fell below the stream standards numeric criteria for dissolved oxygen. Station SR14 exceeded the recommended screening criteria for ortho-phosphate.

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 1.33 inches of rainfall the week prior to and during sampling. The level of Toledo Bend Reservoir was recorded at 163.21 feet msl with 174 cfs discharge at the time of sampling. Most reservoir stations were well stratified with dissolved oxygen and temperature

differences throughout the water column. No anoxic conditions were found at any of the lake stations. An algal bloom was present on much of the northern sections of the reservoir as evidenced by several of the stations recording higher than normal pH readings and many of them recording dissolved oxygen percent saturation values above the recommended screening criteria value. Station TB8 recorded a chlorophyll *a* result above the recommended screening criteria as further evidence of the algal bloom. Stations TB8 and TB7A recorded sulfate results above the stream standards numeric criteria and TB8 also displayed a chloride result above the stream standards numeric 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 sites showed a large improvement over the conditions that were present in late September and October due to Hurricane Rita. The dissolved oxygen levels in this section of the Basin were at or near normal levels at all but one site, after being anoxic for a period of time after the Hurricane. The tidal stations received 0.95 inches of rainfall just over seven days prior to the sample event. All stations in this section of the Basin showed stratification, and anoxic conditions were found at two of the deeper stations. Surface salinities were found at all of the tidal stations. The largest salinity value, 20 ppt, was found at Station SRT1 at a depth of 9.8 meters. Station SR1 recorded a dissolved oxygen result below the stream standards numeric criteria, and stations BB1 and SRT1 recorded a bacterial count above the stream standards numeric 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:

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Monthly Water Quality Report

November 2005

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FY 2006 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 2005

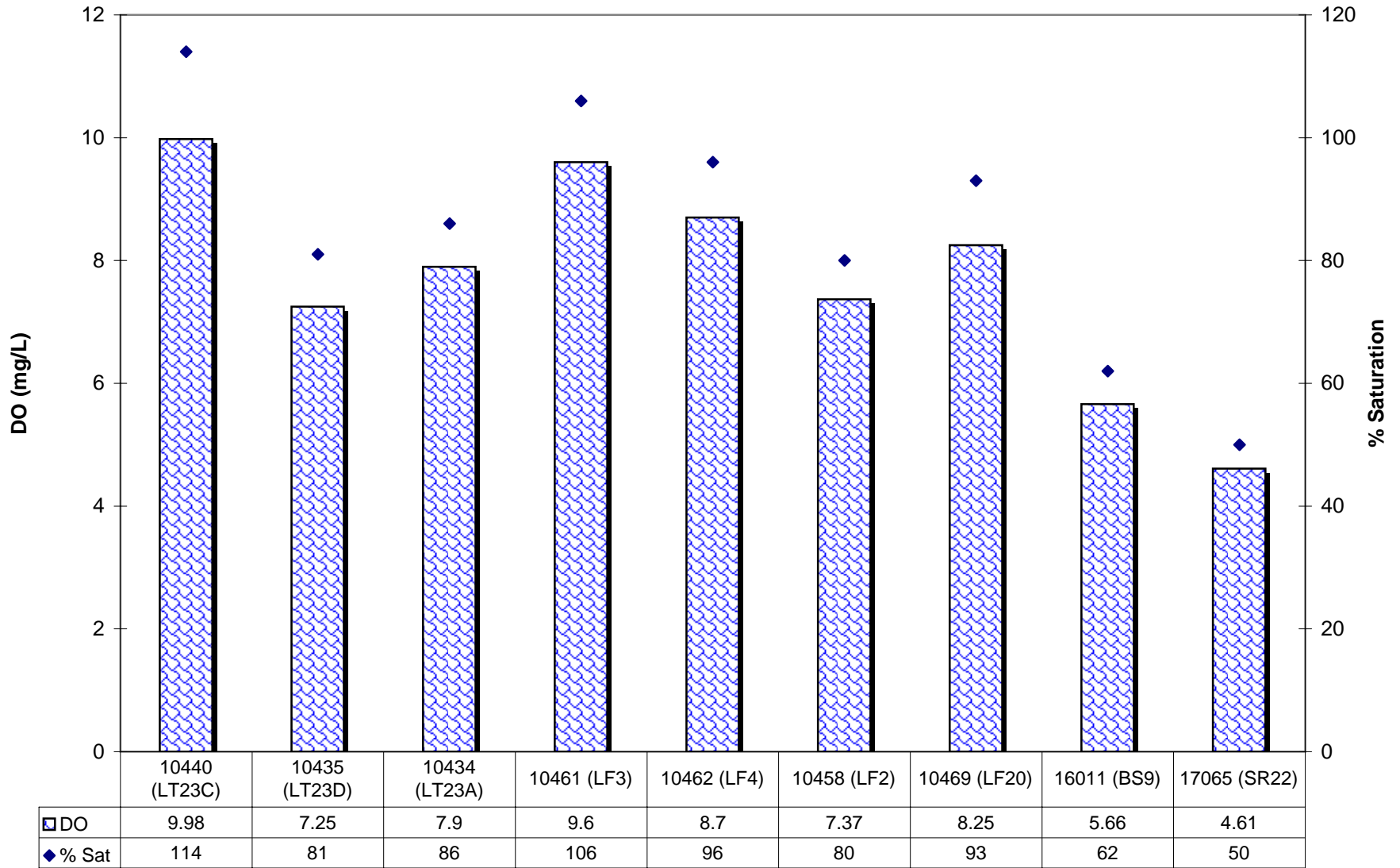
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
11/8/05 11:40 AM	7.00	10440 (LT23C)	21.2	9.02	9.98	114	185	*	0.34	25.9	5	74	< 0.02	< 0.02	0.04	7	80	76	< 10	10.4
11/8/05 10:55 AM	7.00	10435 (LT23D)	19.5	8.3	7.25	81	194	*	0.4	18.7	4	48	< 0.02	< 0.02	< 0.04	7	80	80	< 10	10.4
11/8/05 9:30 AM	7.00	10434 (LT23A)	18.6	7.97	7.9	86	188	*	0.95	4.81	< 1	35	0.04	0.08	< 0.04	6	80	72	< 10	10.7
11/8/05 8:32 AM	6.12	10461 (LF3)	19.5	8.53	9.6	106	178	*	1.03	2.56	< 1	37	< 0.02	< 0.02	< 0.04	6	40	48	18.4	18.5
11/8/05 8:51 AM	6.12	10462 (LF4)	19.4	7.97	8.7	96	179	*	1.07	2.52	< 1	41	< 0.02	0.04	< 0.04	6	40	56	18.1	18.3
11/8/05 7:54 AM	6.12	10458 (LF2)	19.1	7.43	7.37	80	175	*	1.59	1.91	< 1	17	< 0.02	0.14	< 0.04	6	40	52	17.9	17.9
11/8/05 2:21 PM	6.10	10469 (LF20)	20.8	7.45	8.25	93	193	*	0.37	20.7	123	*	< 0.02	0.07	< 0.04	5	40	60	20.3	23
11/9/05 6:30 AM	6.02	16011 (BS9)	19	6.59	5.66	62	83	*	0.99	4.96	248	*	< 0.02	< 0.02	< 0.04	5	20	32	13.2	< 10
11/8/05 1:00 PM	6.00	17065 (SR22)	19.2	7.22	4.61	50	419	*	0.36	22.7	157	14	0.04	0.47	0.04	7	70	120	48.3	44.3
11/8/05 1:49 PM	6.00	10430 (SR21)	19.9	7.36	5.9	66	420	*	0.43	20.3	121	*	< 0.02	0.02	0.09	7	80	100	48.9	43.8
11/8/05 2:42 PM	6.00	10429 (SR19)	21	7.46	7.84	90	281	*	0.31	26.8	201	17	< 0.02	0.09	< 0.04	5	50	68	37.4	28.7
11/9/05 7:10 AM	5.00	10428 (SR17)	20.7	7.2	6.93	78	222	*	0.33	34.7	58	*	< 0.02	0.08	< 0.04	5	40	52	31.1	20.2
11/9/05 7:42 AM	5.00	10427 (SR16)	20.3	7.08	6.17	69	284	*	0.4	30.8	107	*	< 0.02	0.09	< 0.04	5	40	52	46.8	22
11/9/05 8:04 AM	5.00	10426 (SR15)	20.7	7.13	7.08	80	380	*	0.39	26.6	29	*	< 0.02	0.08	< 0.04	7	40	56	75.1	24.7
11/9/05 8:30 AM	5.00	10423 (SR14)	20.9	7.18	7.02	80	697	*	0.37	15	77	*	< 0.02	2.49	0.63	6	40	88	142	40.1
11/9/05 10:01 AM	5.00	13628 (SR11)	20.8	7.32	5.86	66	705	*	0.47	19.6	44	*	0.04	2.49	< 0.04	9	80	124	95.9	86.6
11/9/05 10:35 AM	5.00	10415 (SR10)	21.7	8.32	9.64	111	736	*	0.52	12.2	14	*	0.02	1.29	< 0.04	9	80	120	127	85.7

*: Not sampled on this run

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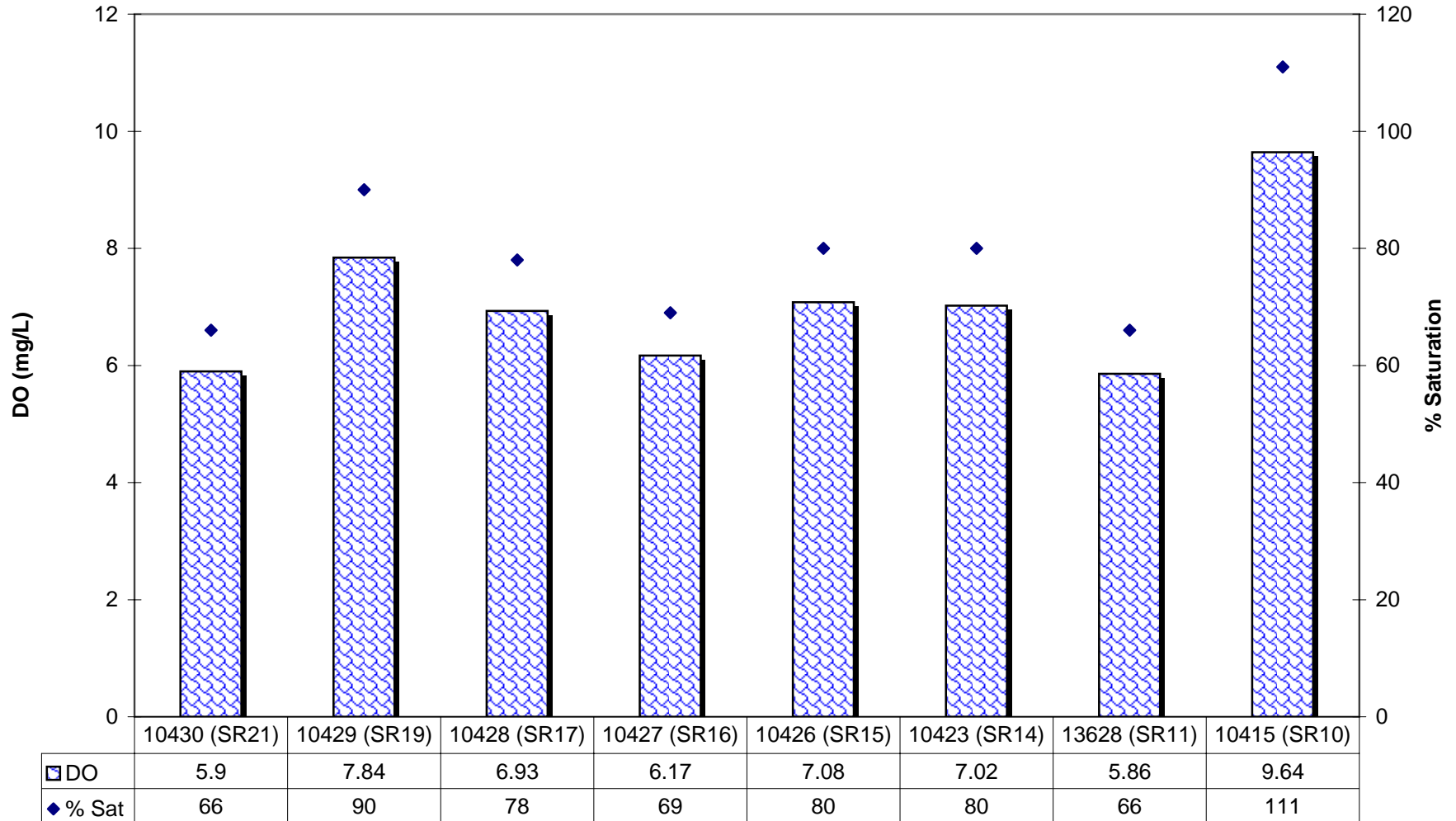
Upper Sabine Basin DO / % Saturation (1 of 2)



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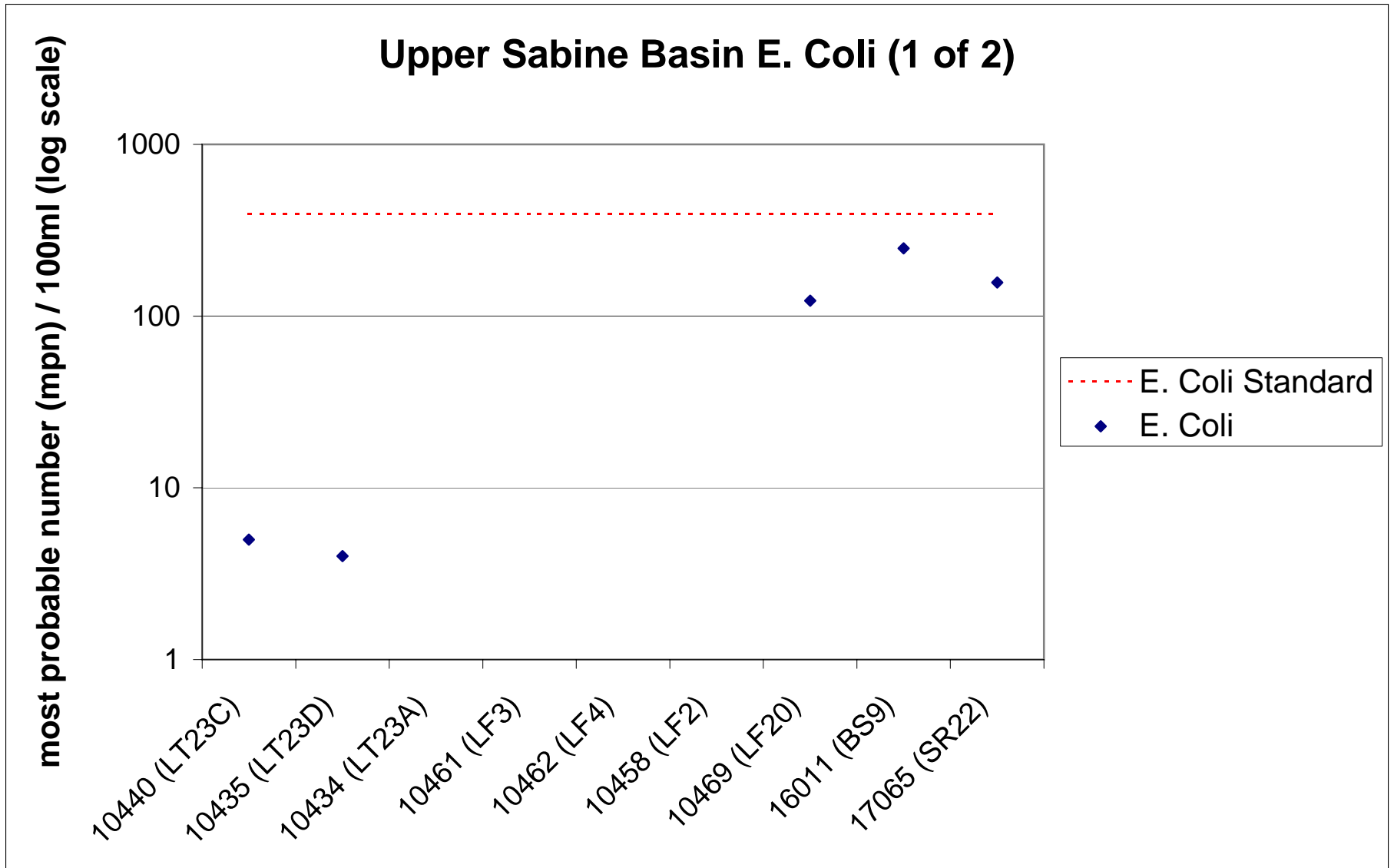
November 2005

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



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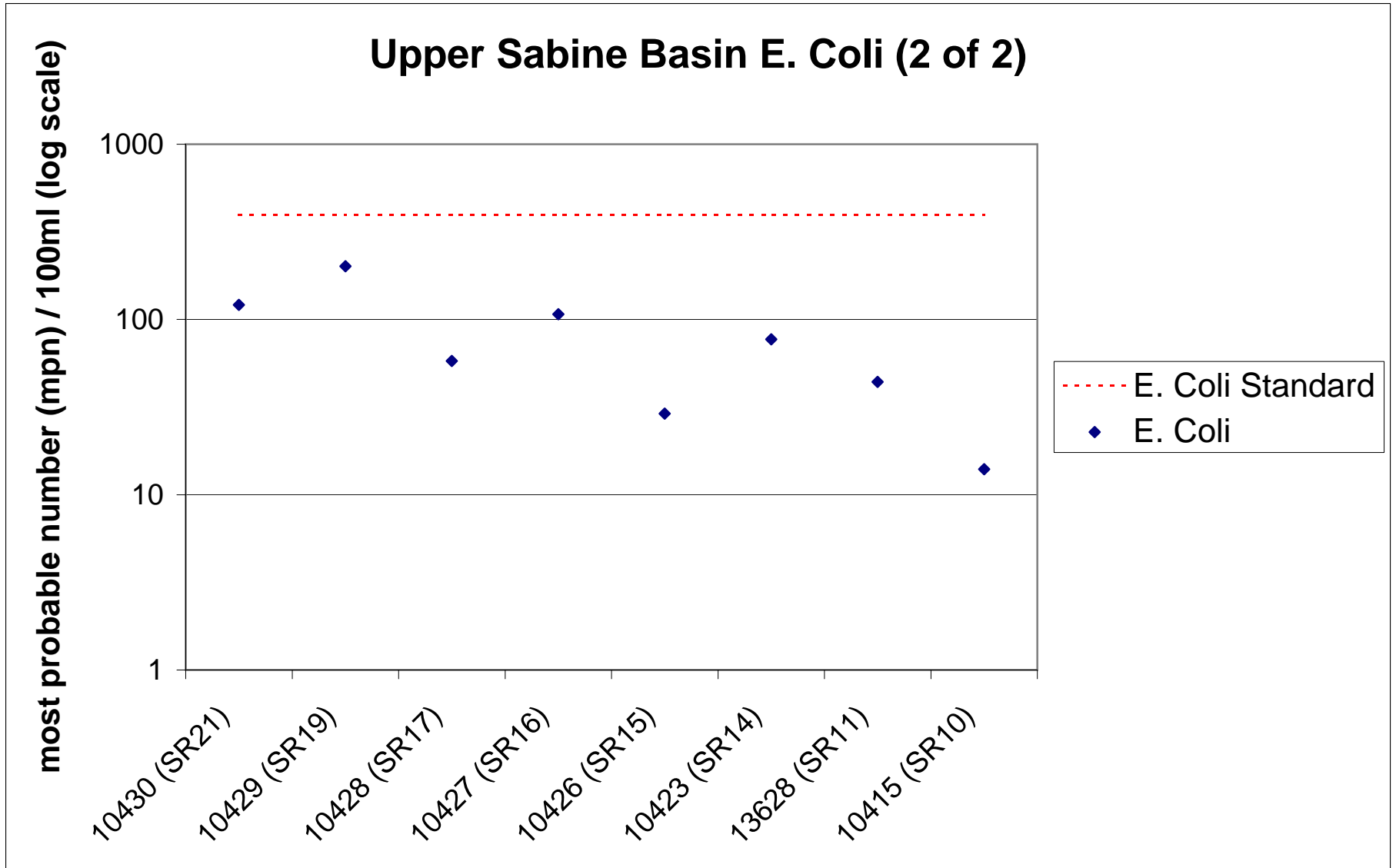
November 2005



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

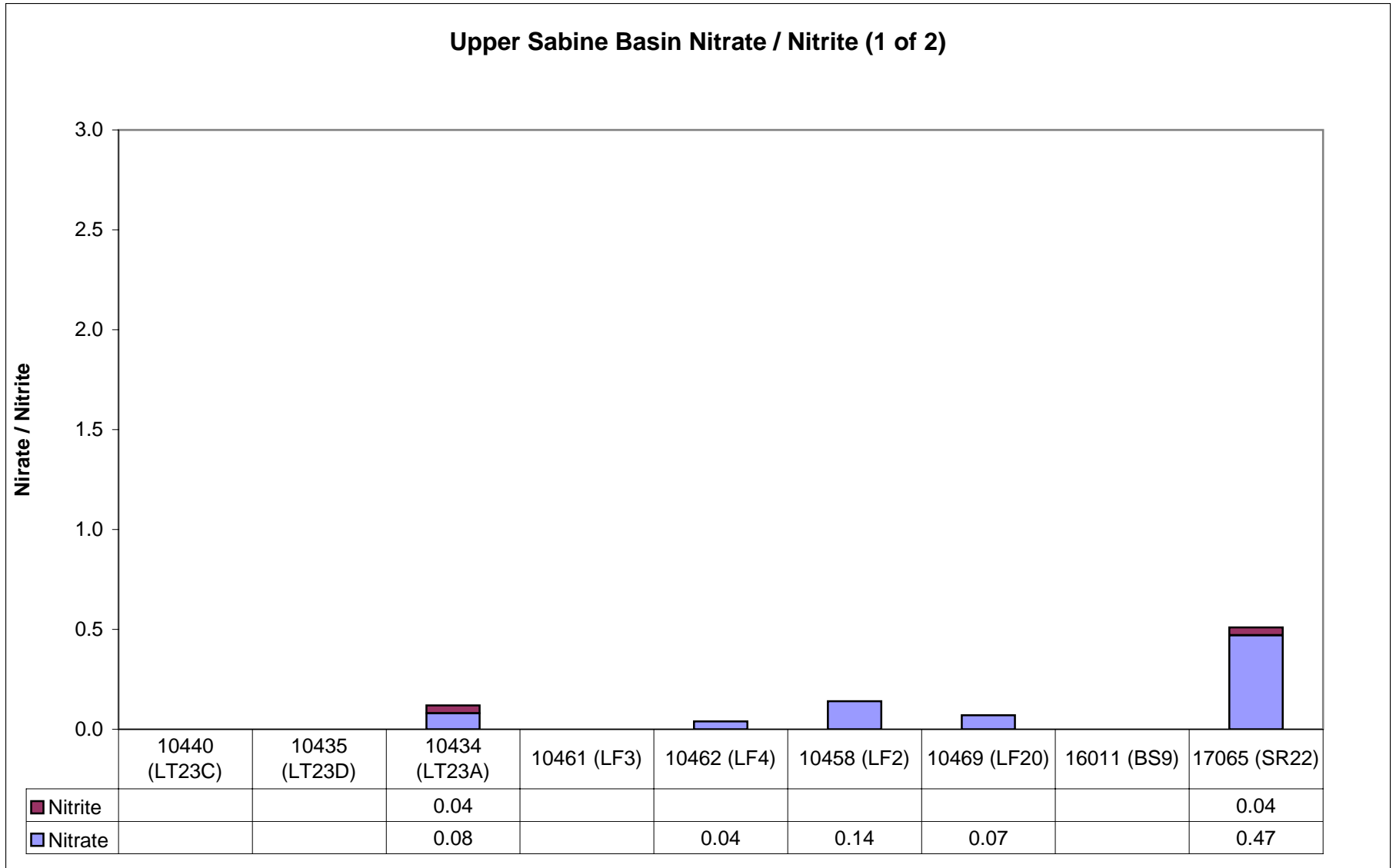
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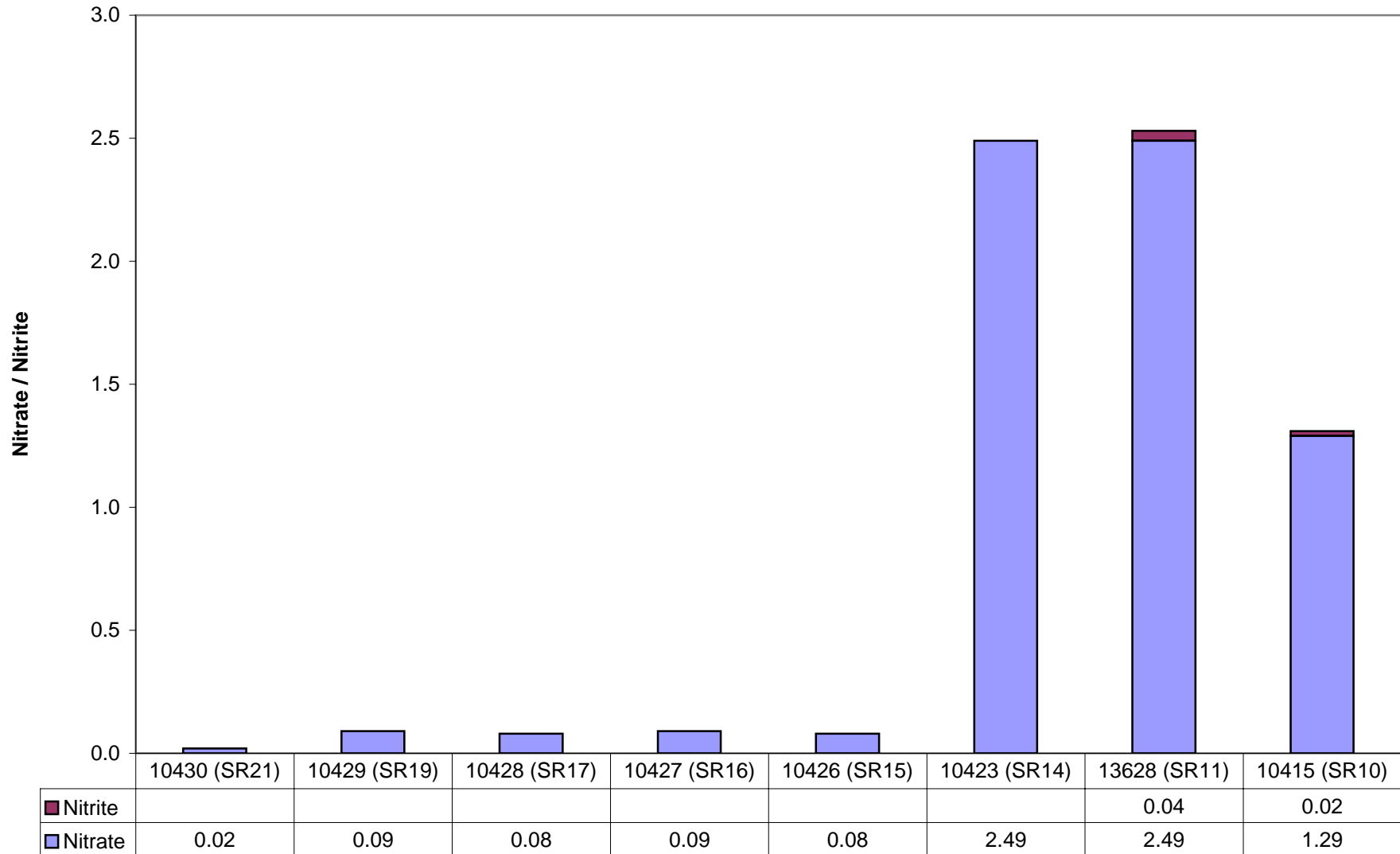
November 2005



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Upper Sabine Basin Nitrate / Nitrite (2 of 2)



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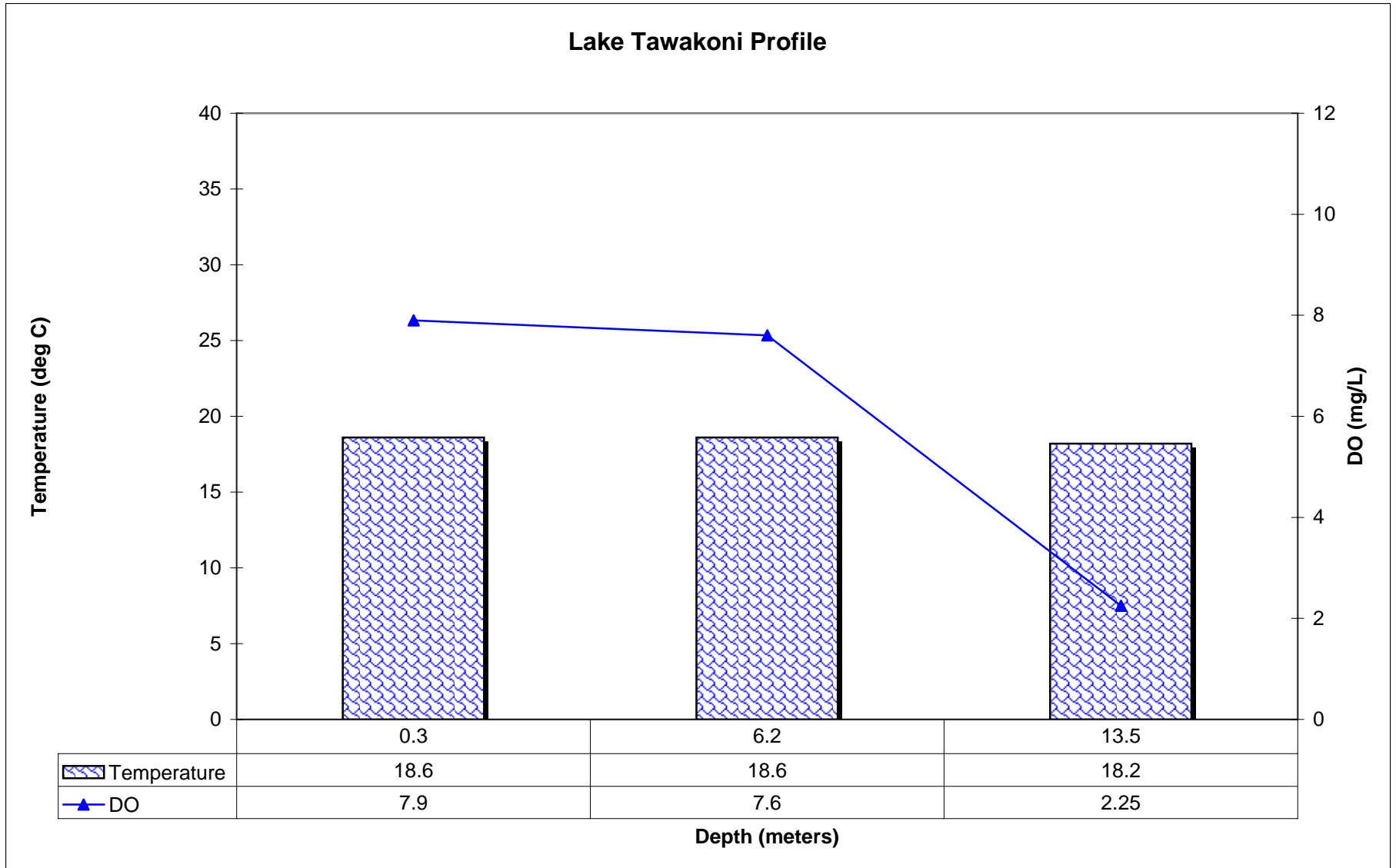
Upper Basin Profiles

November 2005

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
11/8/05 11:40 AM	7.00	10440 (LT23C)	0.3	21.2	9.02	9.98	114	185
			0.9	21.3	9.02	9.76	112	185
			1.8	21.1	8.99	9.84	112	184
11/8/05 10:55 AM	7.00	10435 (LT23D)	0.3	19.5	8.3	7.25	81	194
			2.9	19.3	8.05	6.45	70	195
			5.2	19.3	8	6.55	72	194
11/8/05 9:30 AM	7.00	10434 (LT23A)	0.3	18.6	7.97	7.9	86	188
			6.2	18.6	7.95	7.6	82	188
			13.5	18.2	7.46	2.25	24	196
11/8/05 8:32 AM	6.12	10461 (LF3)	0.3	19.5	8.53	9.6	106	178
			4.3	19.1	7.6	7.95	87	179
			8.6	18.4	7.15	5.73	62	181
11/8/05 8:51 AM	6.12	10462 (LF4)	0.3	19.4	7.97	8.7	96	179
			5.8	19	7.51	7.63	84	180
			9.9	18.6	7.16	5.54	60	182
11/8/05 7:54 AM	6.12	10458 (LF2)	0.3	19.1	7.43	7.37	80	175
			8.1	18.7	7.3	6.61	71	176
			16.7	18.5	7.12	4.94	54	177

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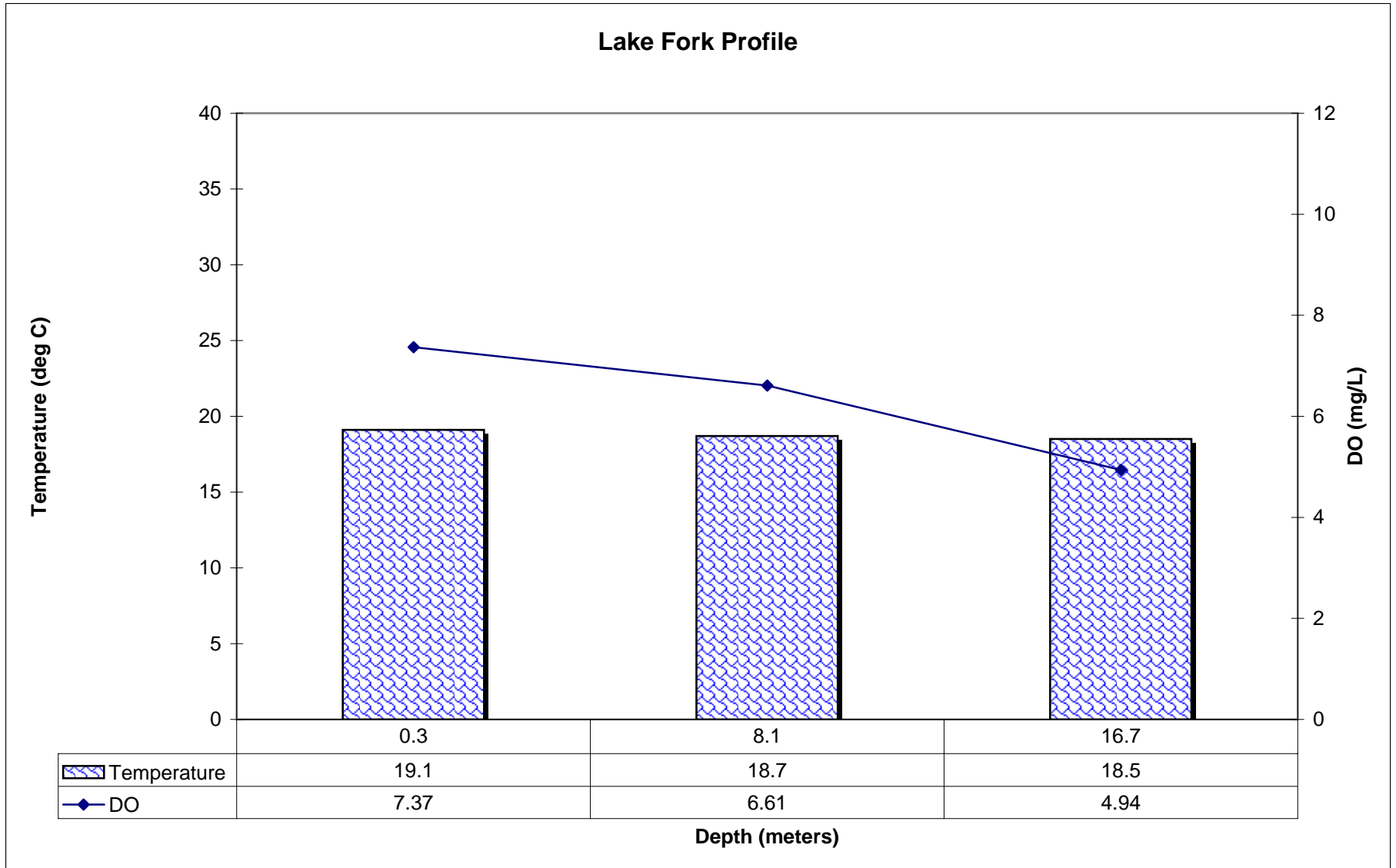
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For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

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Lake Tawakoni Weather and Reservoir Data

November 2005

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
11/1/2005	431.07	(6.43)	6	68	41	1.35	0.20
11/2/2005	431.02	(6.48)	6	68	42	0.00	0.22
11/3/2005	430.97	(6.53)	6	77	43	0.00	0.20
11/4/2005	430.94	(6.56)	6	76	50	0.00	0.19
11/5/2005	430.91	(6.59)	6	76	60	0.00	0.20
11/6/2005	430.91	(6.59)	6	83	78	0.00	0.26
11/7/2005	430.88	(6.62)	6	81	63	0.00	0.13
11/8/2005	430.85	(6.65)	6	84	67	0.00	0.18
11/9/2005	430.84	(6.66)	6	84	68	0.00	0.18
11/10/2005	430.82	(6.68)	6	85	57	0.00	0.04
11/11/2005	430.78	(6.72)	6	66	52	0.00	0.24
11/12/2005	430.74	(6.76)	6	78	68	0.00	0.08
11/13/2005	430.75	(6.75)	6	80	71	0.00	0.13
11/14/2005	430.73	(6.77)	6	82	57	0.26	0.15
11/15/2005	430.77	(6.73)	6	78	56	0.00	0.15
11/16/2005	430.69	(6.81)	6	73	32	0.05	0.00
11/17/2005	430.61	(6.89)	6	51	27	0.00	0.00
11/18/2005	430.58	(6.92)	6	58	33	0.00	0.00
11/19/2005	430.54	(6.96)	6	59	31	0.00	0.11
11/20/2005	430.55	(6.95)	6	65	43	0.00	0.17
11/21/2005	430.51	(6.99)	6	59	36	0.00	0.14
11/22/2005	430.47	(7.03)	6	61	36	0.00	0.13
11/23/2005	430.44	(7.06)	6	66	40	0.00	0.20
11/24/2005	430.42	(7.08)	6	77	39	0.00	0.23
11/25/2005	430.37	(7.13)	6	73	42	0.00	0.15
11/26/2005	430.37	(7.13)	6	62	50	0.00	0.16
11/27/2005	430.38	(7.12)	6	62	54	0.14	0.00
11/28/2005	430.38	(7.12)	6	76	47	0.00	0.30
11/29/2005	430.32	(7.18)	6	58	35	0.00	0.26
11/30/2005	430.24	(7.26)	6	53	26	0.00	0.00
Avg or Tot	430.66	(6.84)	6	71	48	1.80	4.40

	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.

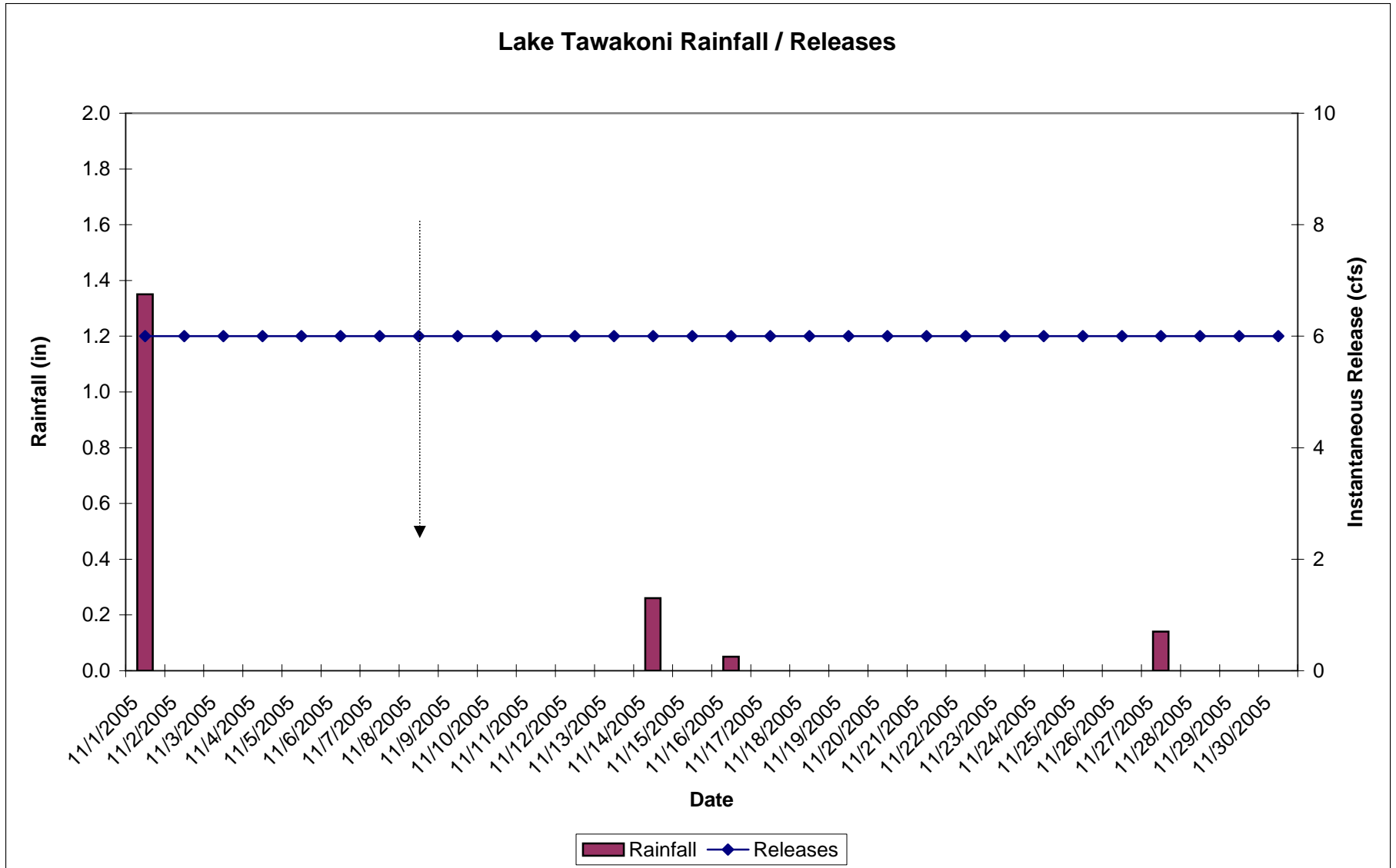
Lake Tawakoni Sampled on 11/8/2005

Lake Elev from USGS daily mean elevation
 USGS 08017400 Lk Tawakoni nr Wills Point, TX
http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08017400&agency_cd=USGS
 Acquired 12/9/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

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Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

November 2005

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
11/1/2005	399.49	(3.51)	64	8	76	48	0.86	0.05
11/2/2005	399.46	(3.54)	8	8	72	46	0.00	0.27
11/3/2005	399.45	(3.55)	8	8	80	50	0.00	0.19
11/4/2005	399.43	(3.57)	8	8	79	61	0.00	0.21
11/5/2005	399.43	(3.57)	8	8	78	54	0.00	0.18
11/6/2005	399.45	(3.55)	8	8	86	63	0.00	0.13
11/7/2005	399.43	(3.57)	8	8	85	63	0.00	0.29
11/8/2005	399.43	(3.57)	8	8	86	69	0.00	0.16
11/9/2005	399.43	(3.57)	8	8	86	70	0.00	0.17
11/10/2005	399.42	(3.58)	8	8	86	62	0.00	0.26
11/11/2005	399.39	(3.61)	8	8	70	54	0.00	0.21
11/12/2005	399.39	(3.61)	8	8	80	68	0.00	0.15
11/13/2005	399.40	(3.60)	8	8	80	70	0.00	0.15
11/14/2005	399.39	(3.61)	8	8	87	60	0.08	0.30
11/15/2005	399.39	(3.61)	8	8	82	70	0.00	0.17
11/16/2005	399.34	(3.66)	120	158	76	38	0.00	0.22
11/17/2005	399.31	(3.69)	75	33	54	30	0.00	0.18
11/18/2005	399.28	(3.72)	33	33	60	28	0.00	0.17
11/19/2005	399.25	(3.75)	33	33	63	44	0.00	0.12
11/20/2005	399.25	(3.75)	33	33	66	48	0.00	0.12
11/21/2005	399.24	(3.76)	33	33	64	38	0.00	0.06
11/22/2005	399.22	(3.78)	33	33	64	46	0.00	0.18
11/23/2005	399.21	(3.79)	33	33	70	40	0.00	0.14
11/24/2005	399.19	(3.81)	33	33	80	39	0.00	0.14
11/25/2005	399.18	(3.82)	33	33	78	50	0.00	0.12
11/26/2005	399.18	(3.82)	33	33	65	55	0.00	0.19
11/27/2005	399.15	(3.85)	33	33	67	60	0.01	0.02
11/28/2005	399.18	(3.82)	33	33	80	46	0.19	0.14
11/29/2005	399.13	(3.87)	33	33	61	40	0.00	0.23
11/30/2005	399.09	(3.91)	33	33	56	28	0.00	0.22
Avg or Tot	399.32	(3.68)	27	25	74	51	1.14	5.14

	Avg	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.

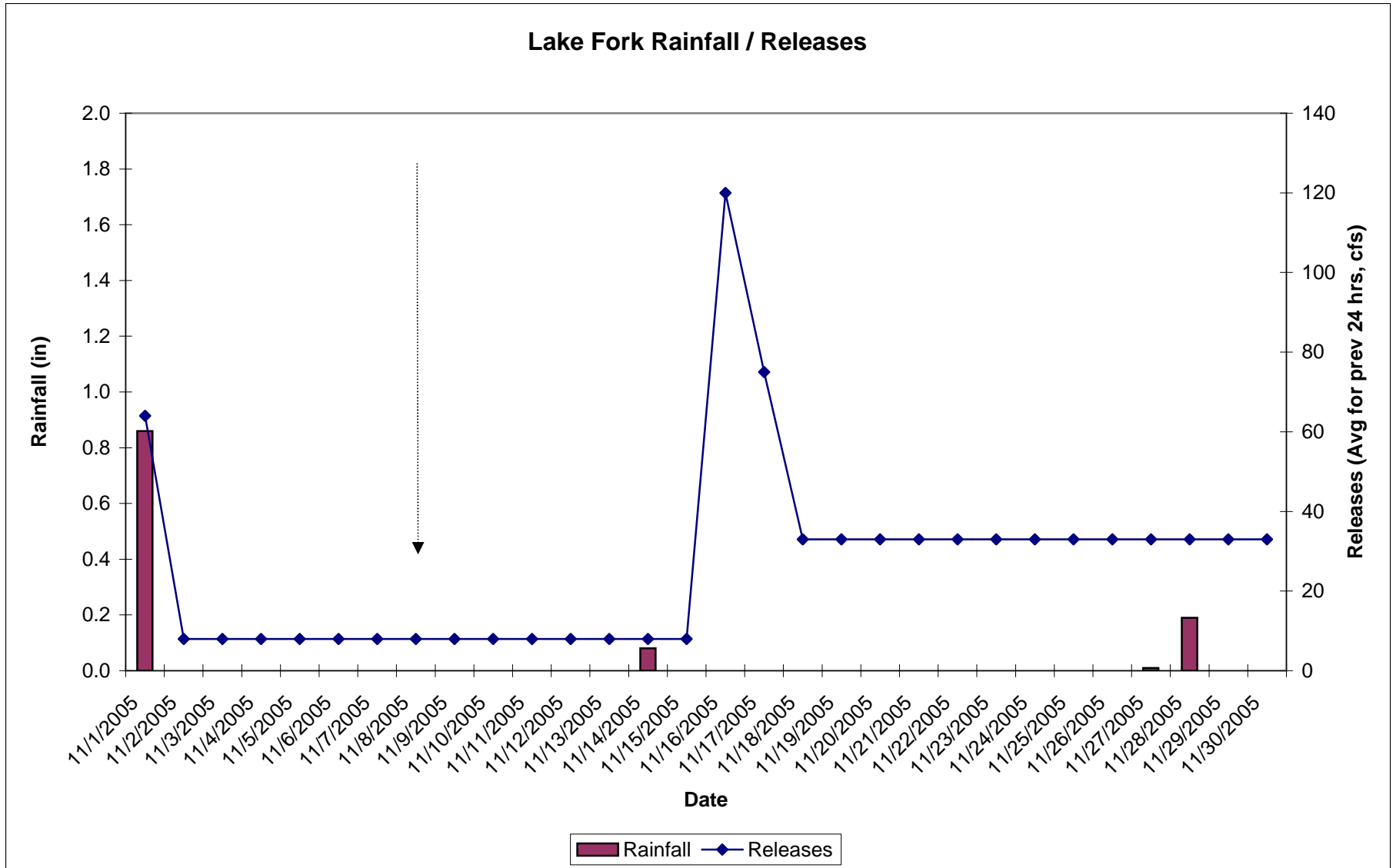
Lake Fork Sampled on 11/8/2005

Lake Elev from USGS daily mean elevation
 USGS 08018800 Lake Fork Res nr Quitman, TX
http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08018800&agency_cd=USGS
 Acquired 12/9/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

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FY 2006 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
3.08	0503	15660 (BT1)	BAYOU TORO AT LA SH 392 IN SABINE PARISH SW OF HORNBECK LA
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

November 2005

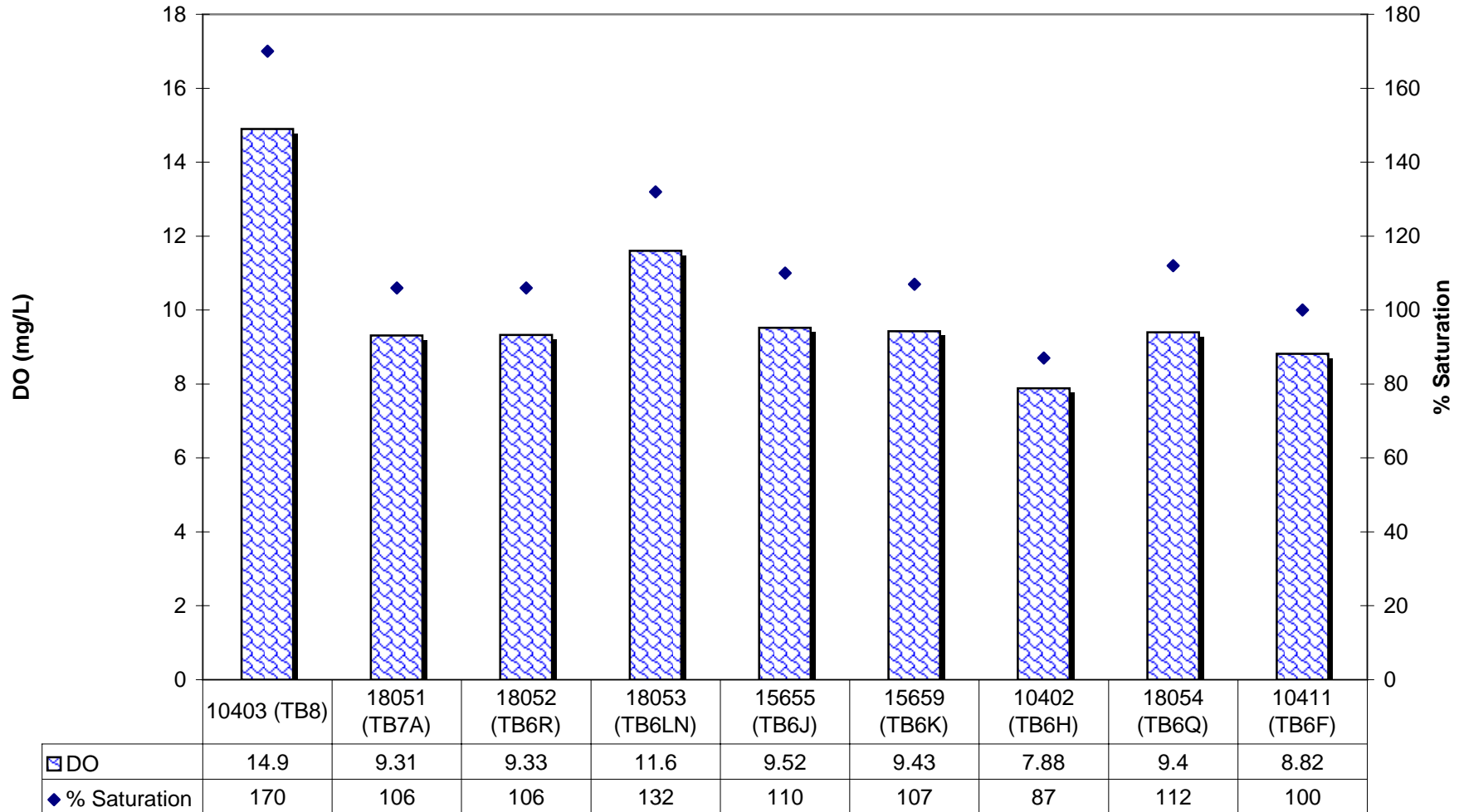
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
11/9/05 11:11 AM	4.00	10403 (TB8)	21.5	8.98	14.9	170	572	*	0.4	12.7	7	204	< 0.02	< 0.02	< 0.04	9	90	104	77.7	72.9
11/9/05 11:57 AM	4.00	18051 (TB7A)	20.9	7.79	9.31	106	477	*	0.46	8.49	7	*	< 0.02	< 0.02	< 0.04	8	80	84	61.1	58.7
11/7/05 10:05 AM	4.00	18052 (TB6R)	21.6	8.17	9.33	106	228	*	*	7.17	1	16	< 0.02	< 0.02	< 0.04	8	40	56	28	21.4
11/7/05 12:11 PM	4.00	18053 (TB6LN)	22.7	8.97	11.6	132	187	*	0.81	5.88	1	*	< 0.02	< 0.02	< 0.04	8	40	48	22.3	19.9
11/8/05 10:40 AM	4.00	15655 (TB6J)	22.7	8.72	9.52	110	181	*	0.6	5.75	< 1	*	< 0.02	0.02	< 0.04	8	30	44	20.7	21.6
11/8/05 12:00 PM	4.00	15659 (TB6K)	21.6	8.44	9.43	107	187	*	0.63	4.33	< 1	*	< 0.02	0.03	< 0.04	7	40	48	22.4	19.2
11/7/05 11:02 AM	4.00	10402 (TB6H)	20.1	7.5	7.88	87	181	*	*	4.39	4	15	0.02	0.24	0.06	7	40	44	25.4	19
11/7/05 12:50 PM	4.00	18054 (TB6Q)	24.4	8.33	9.4	112	167	*	*	2.35	3	*	0.03	0.05	< 0.04	7	30	44	20.1	17
11/8/05 11:00 AM	4.00	10411 (TB6F)	21.8	7.43	8.82	100	126	*	0.73	5.05	1	18	< 0.02	0.04	< 0.04	7	20	36	13.2	17.2
11/8/05 10:03 AM	4.00	10407 (TB6CN)	21.9	6.99	8.16	94	141	*	0.36	11.3	< 1	*	< 0.02	0.08	< 0.04	8	20	36	16	20.8
11/7/05 1:40 PM	4.00	10404 (TB6A)	21.5	7.41	8.61	98	148	*	1.93	0.85	< 1	8	< 0.02	< 0.02	< 0.04	6	30	36	17	16.9
11/8/05 12:45 PM	3.08	15660 (BT1)	20.9	7.18	7.27	81	113	*	0.75	7.3	23	*	< 0.02	0.02	< 0.04	5	30	24	12.5	< 10
11/9/05 12:20 PM	3.03	10340 (BA4)	23.3	7.4	6.38	75	753	*	0.25	9.83	36	*	0.03	0.35	0.19	15	110	64	26	191
11/9/05 10:35 AM	3.00	10401 (TB6S)	20.6	7.48	7.92	88	146	*	> 1.22	1.27	6	*	< 0.02	0.07	< 0.04	6	30	40	17.1	17
11/9/05 11:53 AM	3.00	10399 (SR5)	22.2	7.38	8.42	97	144	*	> 0.9	4.21	16	9	< 0.02	0.03	< 0.04	6	30	36	16.1	15.9
11/9/05 12:42 PM	3.00	10398 (SR3)	24.3	7.33	7.78	93	191	*	0.59	6.96	*	< 3	< 0.02	0.09	< 0.04	6	40	36	15.7	33.1
11/9/05 9:07 AM	2.05	10465 (BCC1)	20.5	6.73	7.74	86	41	*	0.68	8.95	76	*	< 0.02	0.04	< 0.04	6	10	16	< 10	< 10
11/9/05 8:30 AM	2.00	10397 (SR2)	23.1	7.17	7.08	82	224	*	0.38	10.5	6	< 3	< 0.02	0.1	0.04	7	40	36	14.6	42.7

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

November 2005

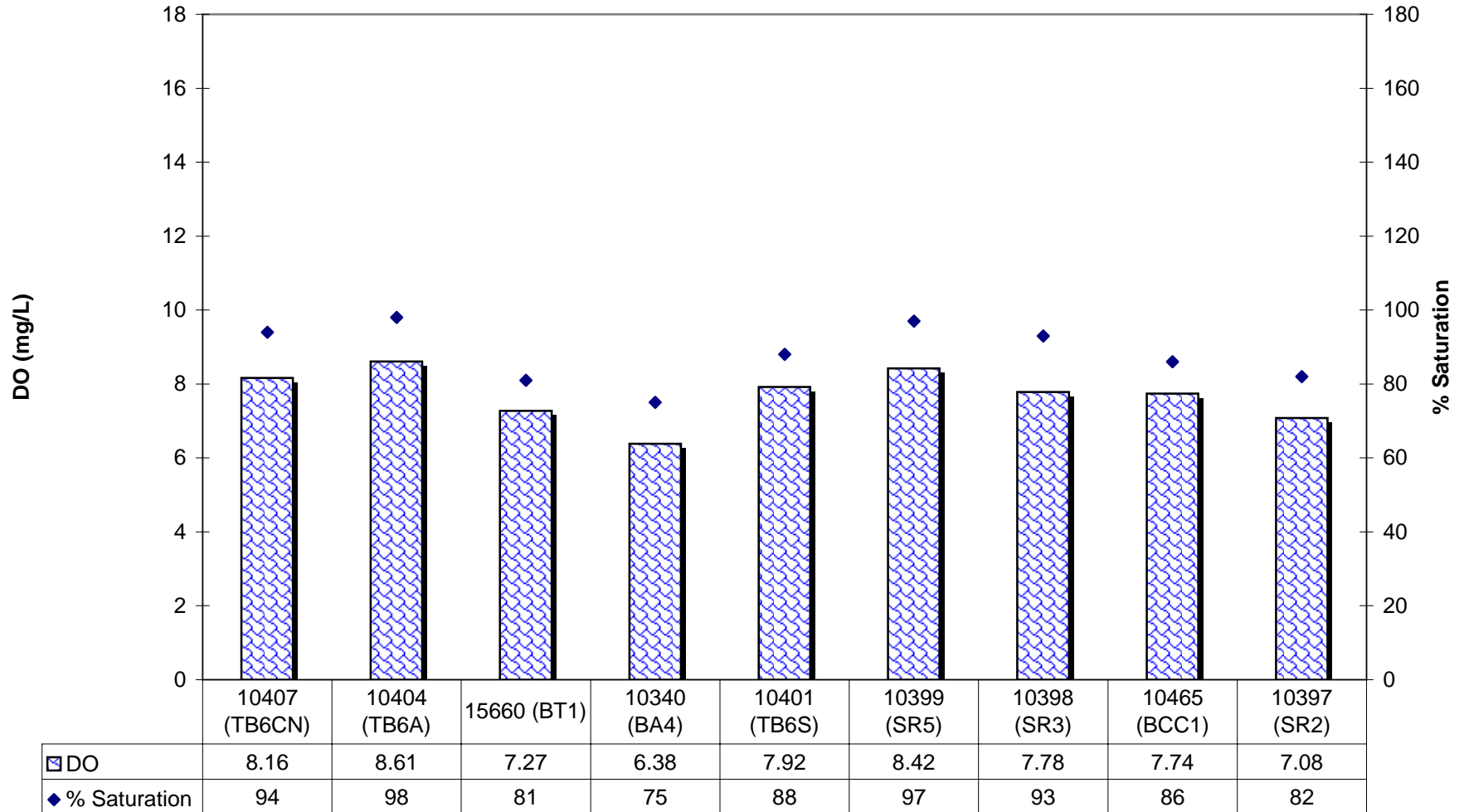
Lower Sabine Basin DO / % Saturation (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

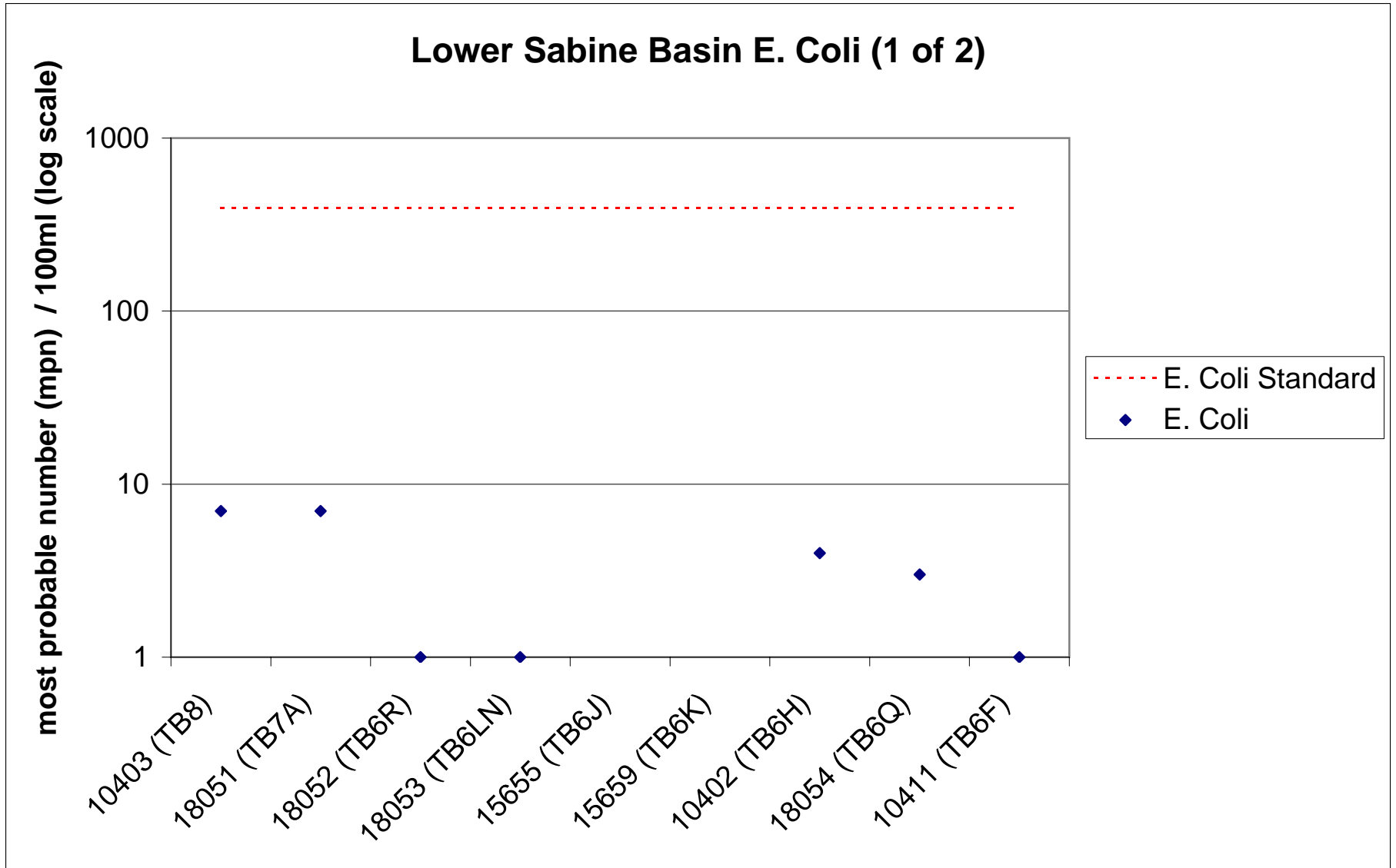
November 2005

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



SABINE RIVER AUTHORITY OF TEXAS

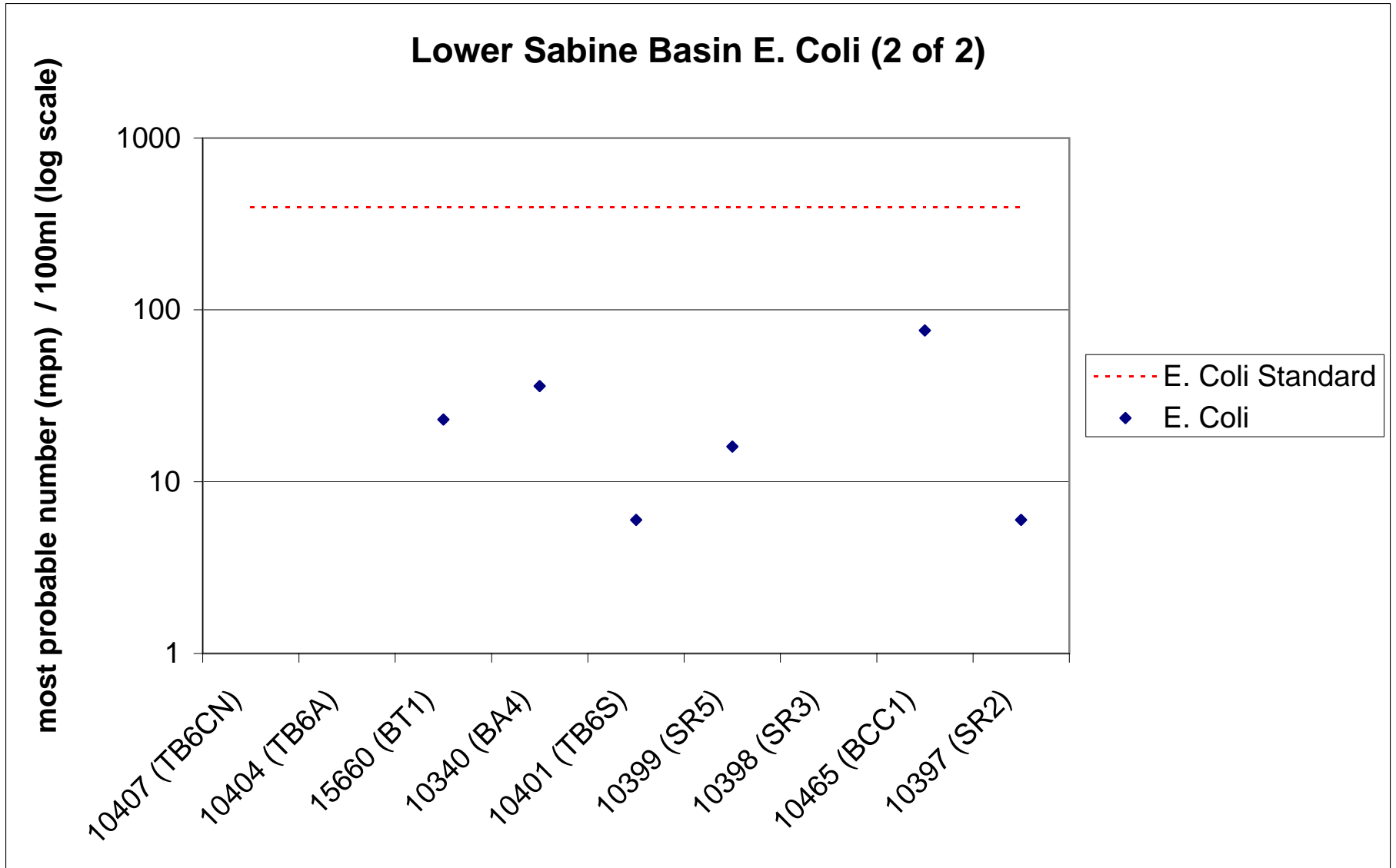
November 2005



Stations without values were not sampled or below detection limit on this run (see page 18)

SABINE RIVER AUTHORITY OF TEXAS

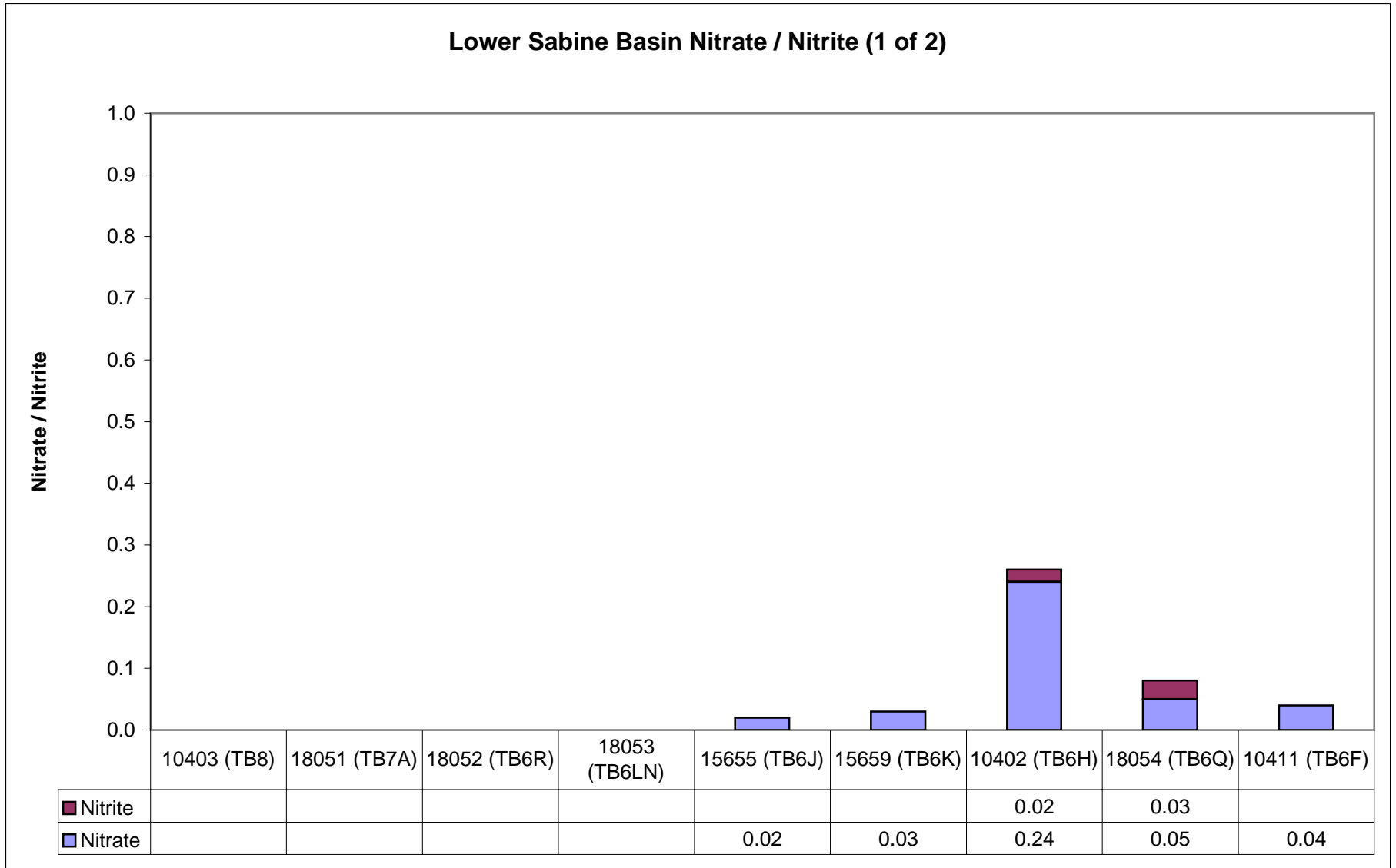
November 2005



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

SABINE RIVER AUTHORITY OF TEXAS

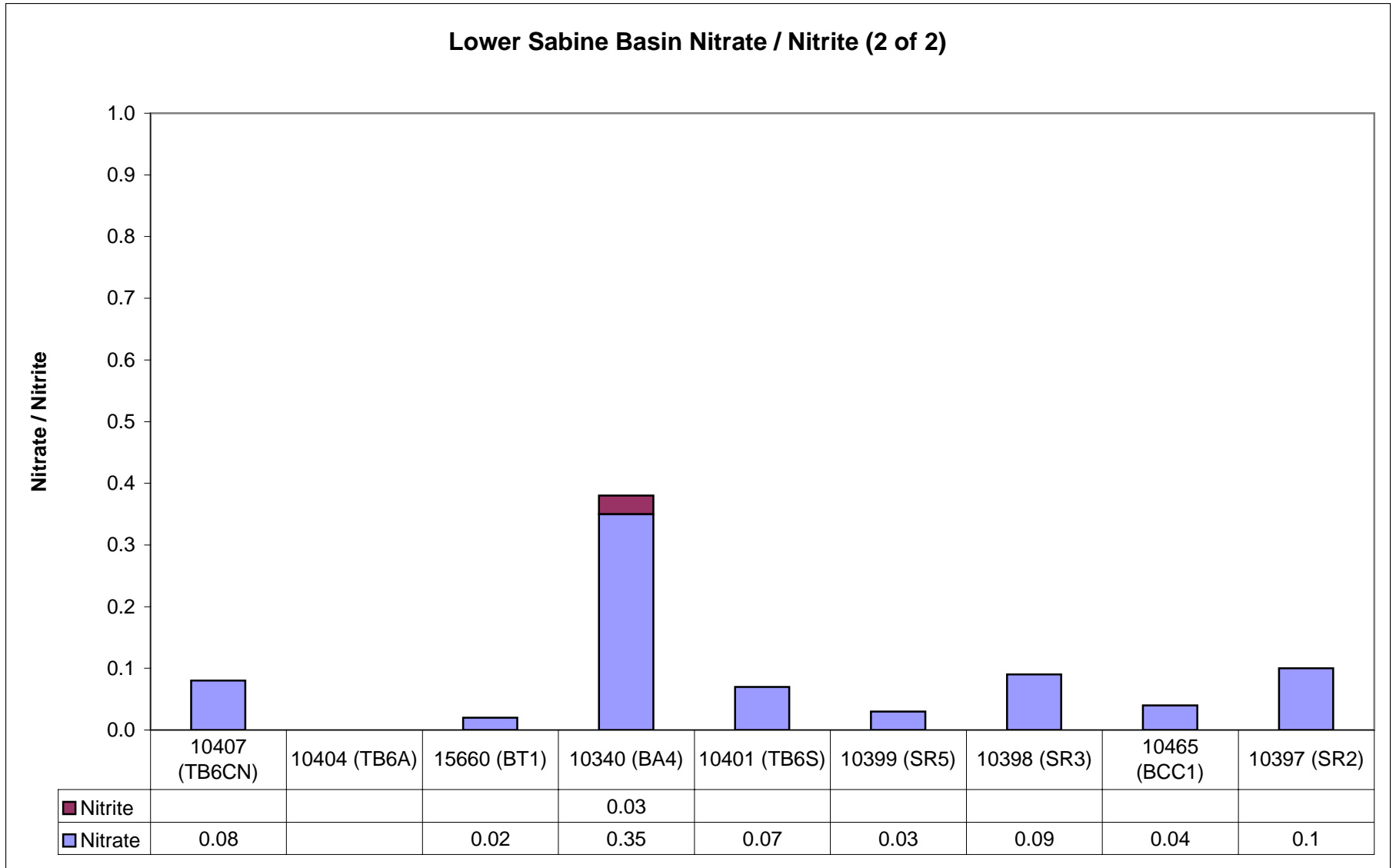
November 2005



Stations without values were not sampled or below detection limit (< 0.02 mg/L) on this run (see page 18)

SABINE RIVER AUTHORITY OF TEXAS

November 2005



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

SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Profiles

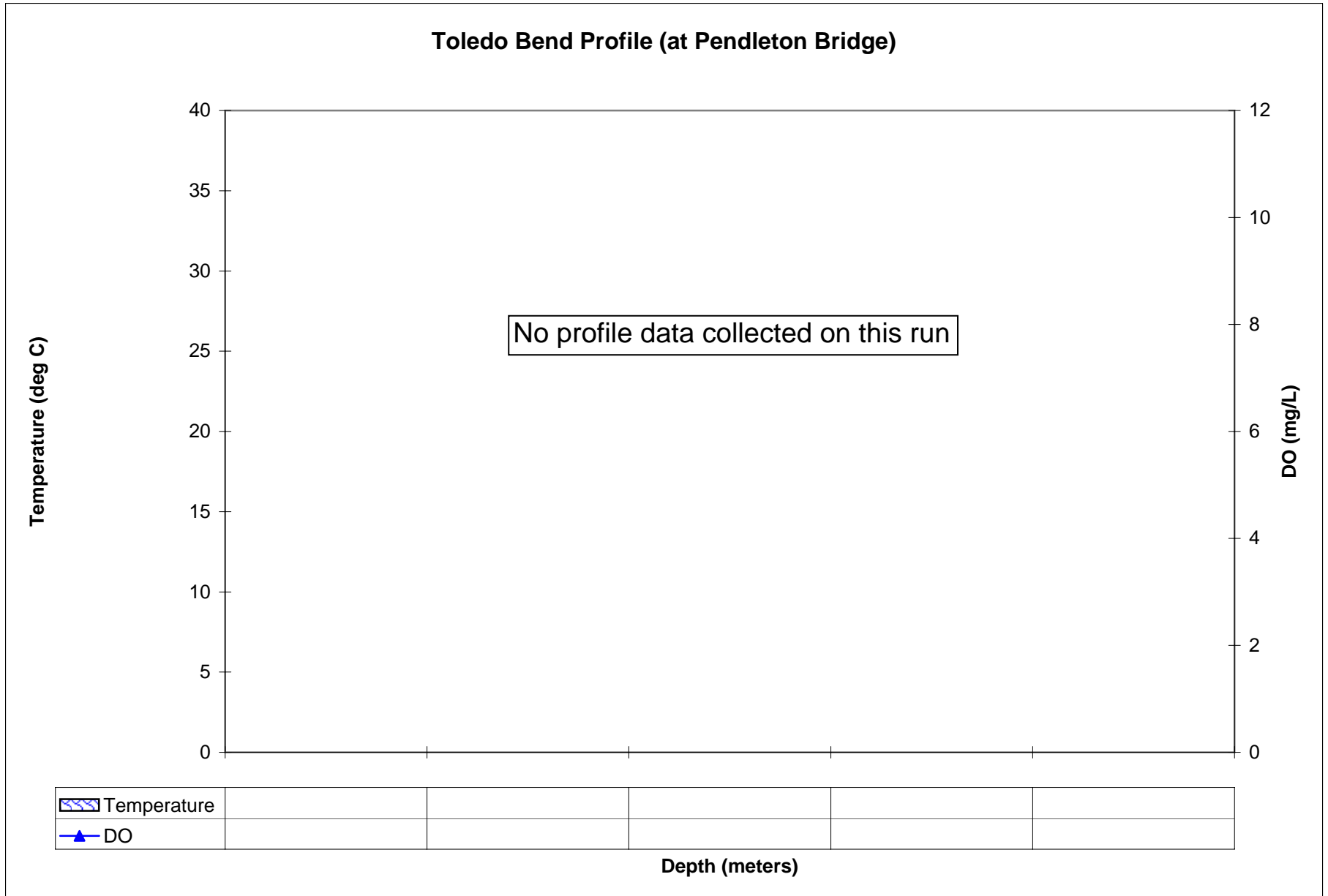
November 2005

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
11/9/05 11:11 AM	4.00	10403 (TB8)	0.3	21.5	8.98	14.9	170	572
			4.4	19.2	7.61	8.9	98	611
			8.8	18.3	7.16	4.6	50	634
11/9/05 11:57 AM	4.00	18051 (TB7A)	0.3	20.9	7.79	9.31	106	477
			3.5	18.4	7.32	6.22	68	604
			7	17.9	7.17	3.83	41	605
11/7/05 12:11 PM	4.00	18053 (TB6LN)	0.3	22.7	8.97	11.6	132	187
			3.7	20.4	7.51	5.6	62	187
11/8/05 10:40 AM	4.00	15655 (TB6J)	0.3	22.7	8.72	9.52	110	181
			2.4	22.2	7.66	7.64	88	181
11/8/05 12:00 PM	4.00	15659 (TB6K)	0.3	21.6	8.44	9.43	107	187
			3	19.6	7.05	5.73	64	190
			6.8	18.3	7.04	2.61	28	193
11/7/05 11:02 AM	4.00	10402 (TB6H)*	0.3	20.1	7.5	7.88	87	181
11/8/05 11:00 AM	4.00	10411 (TB6F)	0.3	21.8	7.43	8.82	100	126
			3	19.9	7.04	4.26	46	127
11/8/05 10:03 AM	4.00	10407 (TB6CN)	0.3	21.9	6.99	8.16	94	141
			2	19.4	6.54	3.68	40	150
			4.1	18.7	6.59	2.94	31	156
11/7/05 1:40 PM	4.00	10404 (TB6A)	0.3	21.5	7.41	8.61	98	148
			5	20.1	7.06	6.97	77	147
			10	20	6.99	6.69	74	146
			20	19.8	7.01	6.33	69	149

*Station 10402 (TB6H): No profile data collected on this run

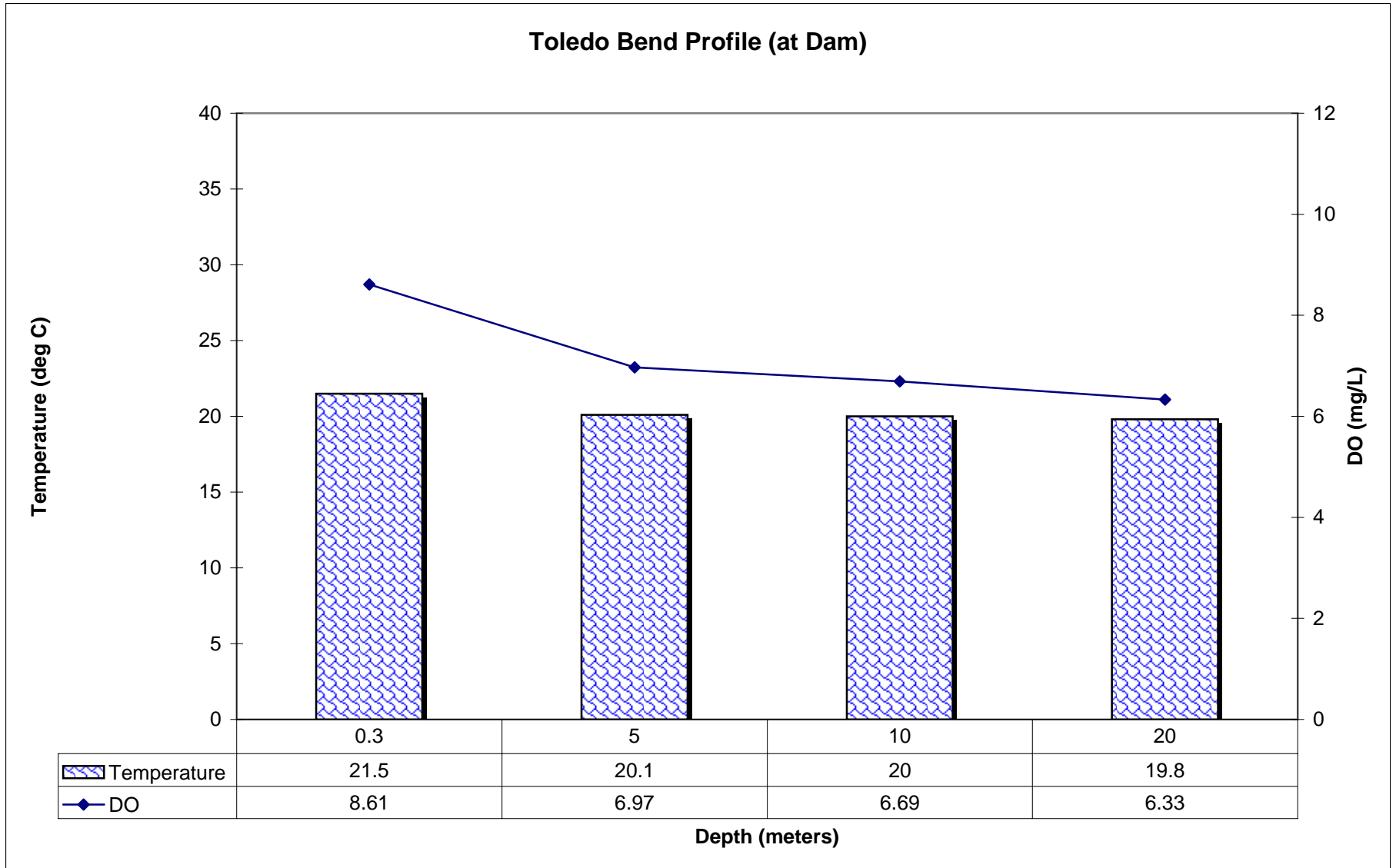
SABINE RIVER AUTHORITY OF TEXAS

November 2005



SABINE RIVER AUTHORITY OF TEXAS

November 2005



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

November 2005

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
11/1/2005	163.45	(8.55)	77	54	1.32	0.31	174	345	174
11/2/2005	163.29	(8.71)	66	49	0.00	0.29	749	1,486	174
11/3/2005	163.23	(8.77)	74	47	0.00	0.17	174	345	174
11/4/2005	163.22	(8.78)	75	40	0.00	0.14	1,107	2,196	174
11/5/2005	163.20	(8.80)	75	63	0.00	0.11	174	345	174
11/6/2005	163.24	(8.76)	81	63	0.00	0.17	174	345	174
11/7/2005	163.22	(8.78)	83	63	0.01	0.13	773	1,533	174
11/8/2005	163.20	(8.80)	82	65	0.00	0.17	174	345	174
11/9/2005	163.21	(8.79)	81	67	0.00	0.11	782	1,551	174
11/10/2005	163.24	(8.76)	82	69	0.00	0.14	174	345	174
11/11/2005	163.17	(8.83)	72	51	0.00	0.17	2,103	4,171	7,844
11/12/2005	163.07	(8.93)	78	44	0.00	0.16	2,041	4,048	7,744
11/13/2005	163.09	(8.91)	78	64	0.00	0.13	1,963	3,894	174
11/14/2005	163.06	(8.94)	82	64	0.00	0.10	152	301	174
11/15/2005	163.19	(8.81)	81	67	0.00	0.22	144	285	144
11/16/2005	163.30	(8.70)	82	40	1.03	0.16	144	285	144
11/17/2005	163.10	(8.90)	54	35	0.00	0.27	144	285	144
11/18/2005	163.05	(8.95)	57	31	0.00	0.13	890	1,765	144
11/19/2005	162.99	(9.01)	58	31	0.00	0.12	157	311	144
11/20/2005	163.04	(8.96)	63	30	0.00	0.13	174	345	174
11/21/2005	163.06	(8.94)	62	36	0.00	0.11	793	1,573	174
11/22/2005	162.99	(9.01)	59	46	0.00	0.15	174	345	174
11/23/2005	162.93	(9.07)	67	42	0.00	0.18	794	1,575	7,544
11/24/2005	162.94	(9.06)	76	44	0.00	0.12	174	345	174
11/25/2005	162.90	(9.10)	71	41	0.00	0.09	1,101	2,184	174
11/26/2005	162.94	(9.06)	66	41	0.00	0.11	174	345	174
11/27/2005	162.91	(9.09)	65	56	1.41	0.11	174	345	174
11/28/2005	163.05	(8.95)	78	56	0.23	0.28	780	1,547	174
11/29/2005	163.06	(8.94)	63	44	0.00	0.31	174	345	174
11/30/2005	162.94	(9.06)	58	33	0.00	0.02	842	1,670	174
Avg or Tot	163.11	(8.89)	72	49	4.00	4.81	585	34,800	

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.

NR: No Reading

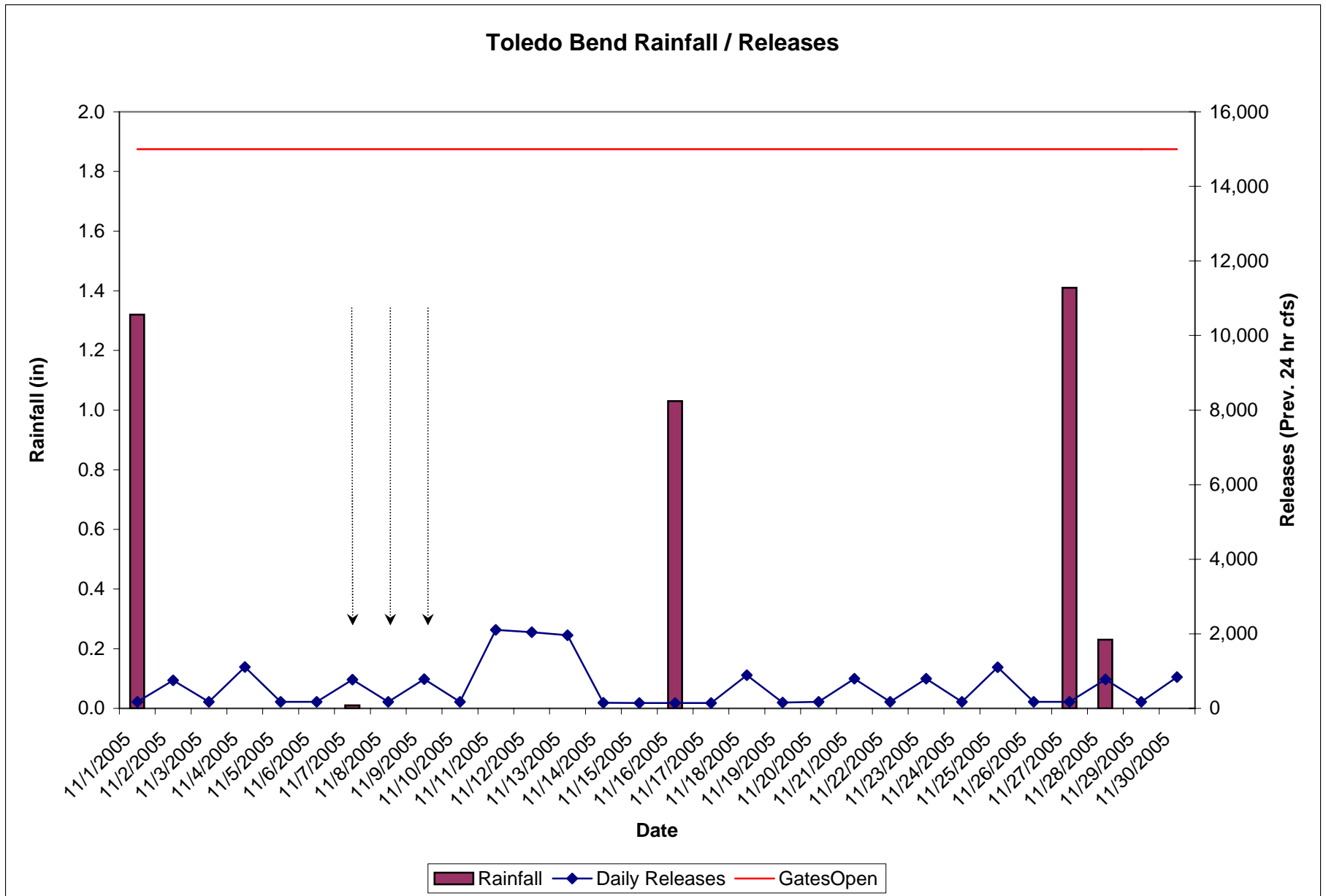
Toledo Bend Sampled on 11/7,8,9/2005

Lake Elev from USGS daily mean elevation
 USGS 08025350 Toledo Bd Res nr Burkeville, TX
http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08025350&agency_cd=USGS
 Acquired 12/9/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

November 2005



Toledo Bend sampled on 11/7,8,9/2005

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

SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

November 2005

Date	Rainfall	Gauge Height	GH - FS	Flow
11/1/2005	OUT	12.71	(25.29)	685
11/2/2005	OUT	12.33	(25.67)	566
11/3/2005	OUT	12.62	(25.38)	643
11/4/2005	OUT	12.62	(25.38)	762
11/5/2005	OUT	12.86	(25.14)	770
11/6/2005	OUT	11.72	(26.28)	285
11/7/2005	OUT	12.24	(25.76)	542
11/8/2005	OUT	12.61	(25.39)	641
11/9/2005	OUT	12.28	(25.72)	554
11/10/2005	OUT	12.60	(25.40)	639
11/11/2005	OUT	14.34	(23.66)	1,880
11/12/2005	OUT	15.08	(22.92)	2,220
11/13/2005	OUT	14.72	(23.28)	1,990
11/14/2005	OUT	12.98	(25.02)	838
11/15/2005	OUT	11.66	(26.34)	268
11/16/2005	OUT	11.63	(26.37)	260
11/17/2005	OUT	11.60	(26.40)	252
11/18/2005	OUT	12.10	(25.90)	468
11/19/2005	OUT	12.57	(25.43)	617
11/20/2005	OUT	11.70	(26.30)	282
11/21/2005	OUT	12.84	(25.16)	808
11/22/2005	OUT	12.05	(25.95)	402
11/23/2005	OUT	12.92	(25.08)	833
11/24/2005	OUT	11.95	(26.05)	364
11/25/2005	OUT	13.17	(24.83)	1,010
11/26/2005	OUT	12.23	(25.77)	463
11/27/2005	OUT	12.10	(25.90)	409
11/28/2005	OUT	13.13	(24.87)	859
11/29/2005	OUT	12.10	(25.90)	387
11/30/2005	OUT	13.03	(24.97)	823
Avg or Tot	OUT	12.62	(25.38)	717

	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 38 feet

OUT: Gage Out

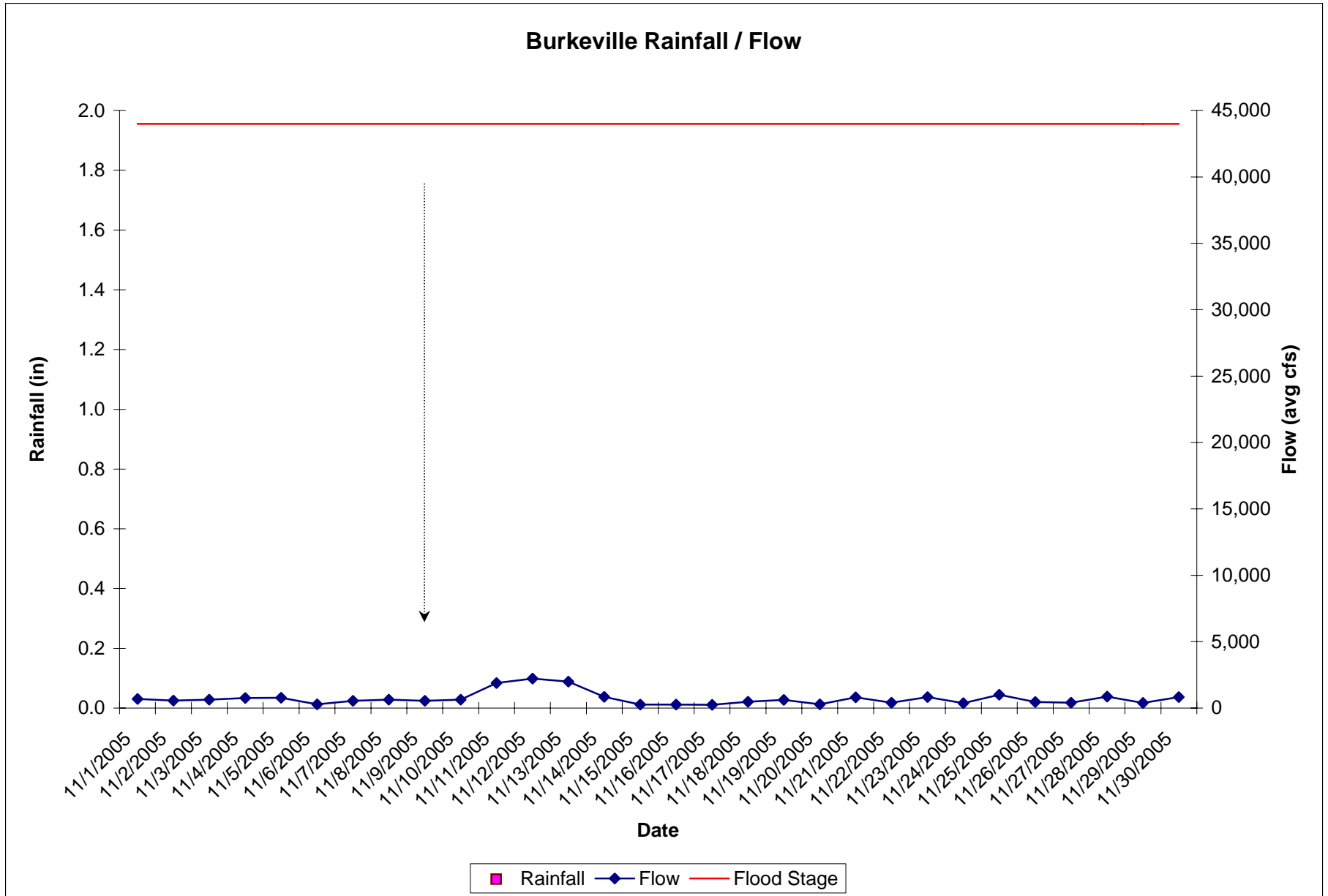
Lower Sabine Basin Sampled on 11/9/2005

Gauge Height and Flow from USGS daily mean Gage height and Discharge, respectively
 USGS 08026000 Sabine Rv nr Burkeville, TX
http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08026000&agency_cd=USGS
 Acquired 12/9/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

November 2005



Flood stage flow of 44,000 cfs calculated from flood stage gage height, 38 ft msl. (latest available rating curve; not USGS Web site)

SABINE RIVER AUTHORITY OF TEXAS

Bon Wier Weather and River Data

November 2005

Date	Gauge Height	GH - FS	Flow Avg	308 Rainfall
11/1/2005	12.94	(17.06)	618	OUT
11/2/2005	13.52	(16.48)	885	OUT
11/3/2005	13.15	(16.85)	707	OUT
11/4/2005	13.45	(16.55)	848	OUT
11/5/2005	13.24	(16.76)	758	OUT
11/6/2005	13.59	(16.41)	922	OUT
11/7/2005	12.77	(17.23)	540	OUT
11/8/2005	12.80	(17.20)	556	OUT
11/9/2005	13.32	(16.68)	786	OUT
11/10/2005	*	*	*	OUT
11/11/2005	13.29	(16.71)	771	OUT
11/12/2005	*	*	*	OUT
11/13/2005	*	*	*	OUT
11/14/2005	*	*	*	OUT
11/15/2005	13.95	(16.05)	1,090	OUT
11/16/2005	13.01	(16.99)	617	OUT
11/17/2005	13.03	(16.97)	627	OUT
11/18/2005	13.03	(16.97)	625	OUT
11/19/2005	12.97	(17.03)	604	OUT
11/20/2005	13.41	(16.59)	804	OUT
11/21/2005	12.85	(17.15)	549	OUT
11/22/2005	13.17	(16.83)	702	OUT
11/23/2005	13.16	(16.84)	686	OUT
11/24/2005	13.24	(16.76)	729	OUT
11/25/2005	13.05	(16.95)	641	OUT
11/26/2005	13.46	(16.54)	847	OUT
11/27/2005	13.57	(16.43)	880	OUT
11/28/2005	13.58	(16.42)	888	OUT
11/29/2005	14.01	(15.99)	1,120	OUT
11/30/2005	13.52	(16.48)	856	OUT
Avg or Tot	13.27	(16.73)	756	OUT

	Avg	Avg	Avg	Tot
Units	Feet	Feet	Feet	Inches

FS: Flood Stage = 30 feet

OUT: Gage Out

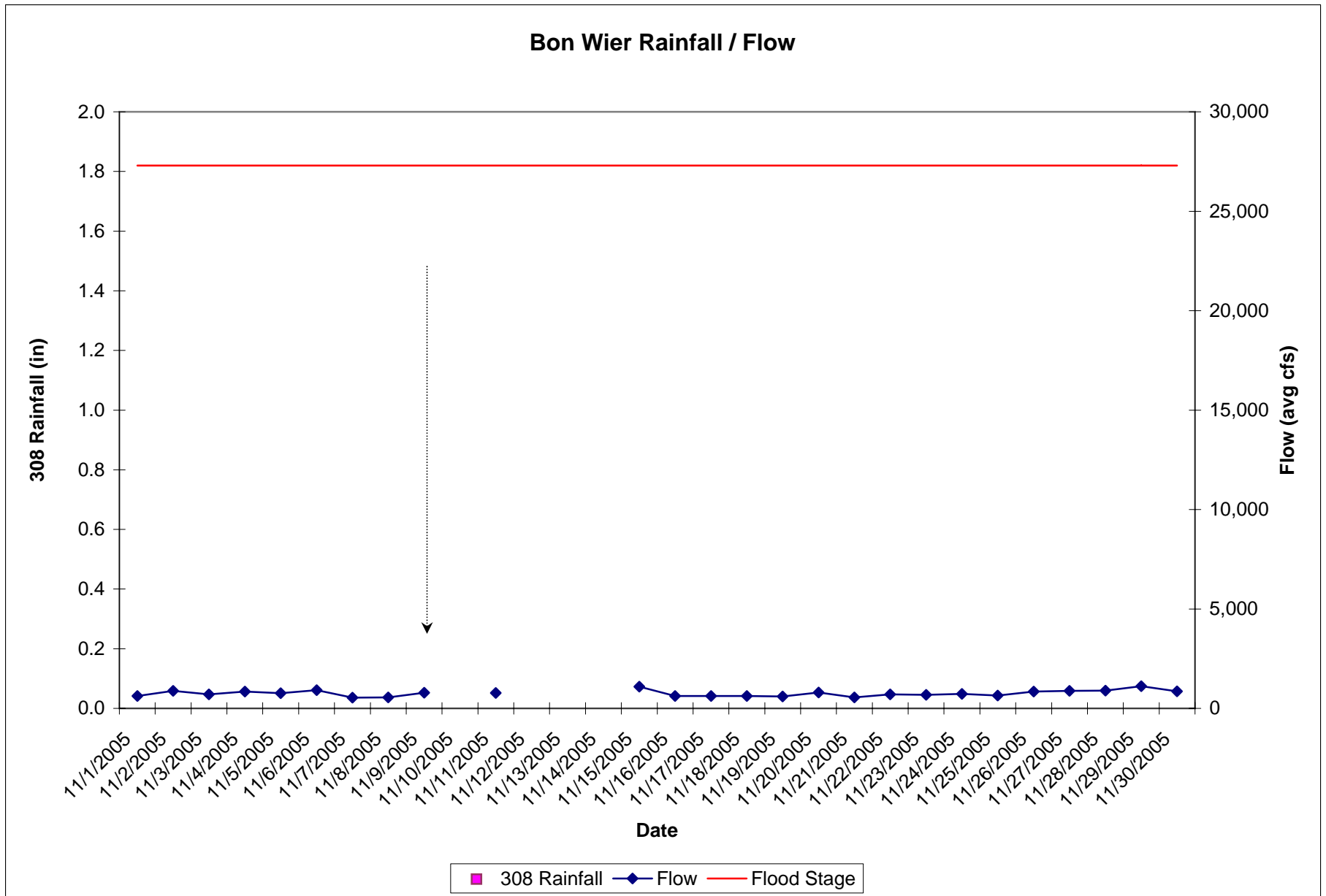
Lower Sabine Basin Sampled on 11/9/2005

Gauge Height and Flow from USGS daily mean Gage height and Discharge, respectively
 USGS 08028500 Sabine Rv nr Bon Wier, TX
http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08028500&agency_cd=USGS
 Acquired 12/9/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

November 2005



Lower Sabine Basin sampled on 11/9/2005

Flood stage flow of 27,300 cfs calculated from flood stage gage height, 30 ft msl. (USGS Web site)

SABINE RIVER AUTHORITY OF TEXAS

Ruliff Weather and River Data

November 2005

Date	Gauge Height	GH - FS	Flow cfs	Flow acft	309 Rainfall
11/1/2005	15.00	(9.00)	1,130	2,241	OUT
11/2/2005	14.44	(9.56)	952	1,888	OUT
11/3/2005	14.79	(9.21)	1,060	2,102	OUT
11/4/2005	15.06	(8.94)	1,140	2,261	OUT
11/5/2005	15.18	(8.82)	1,180	2,340	OUT
11/6/2005	15.10	(8.90)	1,160	2,301	OUT
11/7/2005	15.34	(8.66)	1,240	2,460	OUT
11/8/2005	15.08	(8.92)	1,150	2,281	OUT
11/9/2005	14.39	(9.61)	938	1,860	OUT
11/10/2005	14.56	(9.44)	988	1,960	OUT
11/11/2005	14.64	(9.36)	1,010	2,003	OUT
11/12/2005	14.62	(9.38)	1,010	2,003	OUT
11/13/2005	15.21	(8.79)	1,200	2,380	OUT
11/14/2005	16.90	(7.10)	1,920	3,808	OUT
11/15/2005	17.38	(6.62)	2,190	4,344	OUT
11/16/2005	17.17	(6.83)	2,070	4,106	OUT
11/17/2005	15.81	(8.19)	1,420	2,817	OUT
11/18/2005	14.99	(9.01)	1,120	2,221	OUT
11/19/2005	14.97	(9.03)	1,110	2,202	OUT
11/20/2005	14.87	(9.13)	1,080	2,142	OUT
11/21/2005	14.96	(9.04)	1,110	2,202	OUT
11/22/2005	14.92	(9.08)	1,100	2,182	OUT
11/23/2005	14.50	(9.50)	970	1,924	OUT
11/24/2005	14.85	(9.15)	1,080	2,142	OUT
11/25/2005	14.69	(9.31)	1,030	2,043	OUT
11/26/2005	14.96	(9.04)	1,110	2,202	OUT
11/27/2005	14.96	(9.04)	1,110	2,202	OUT
11/28/2005	15.55	(8.45)	1,310	2,598	OUT
11/29/2005	15.66	(8.34)	1,350	2,678	OUT
11/30/2005	16.11	(7.89)	1,530	3,035	OUT
Avg or Tot	15.22	(8.78)	1,226	72,928	OUT

Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft
-------	-------------	-------------	------------	--------------

FS: Flood Stage 24 feet with 10 foot datum

OUT: Gage Out

Lower Sabine Basin Sampled on 11/9/2005

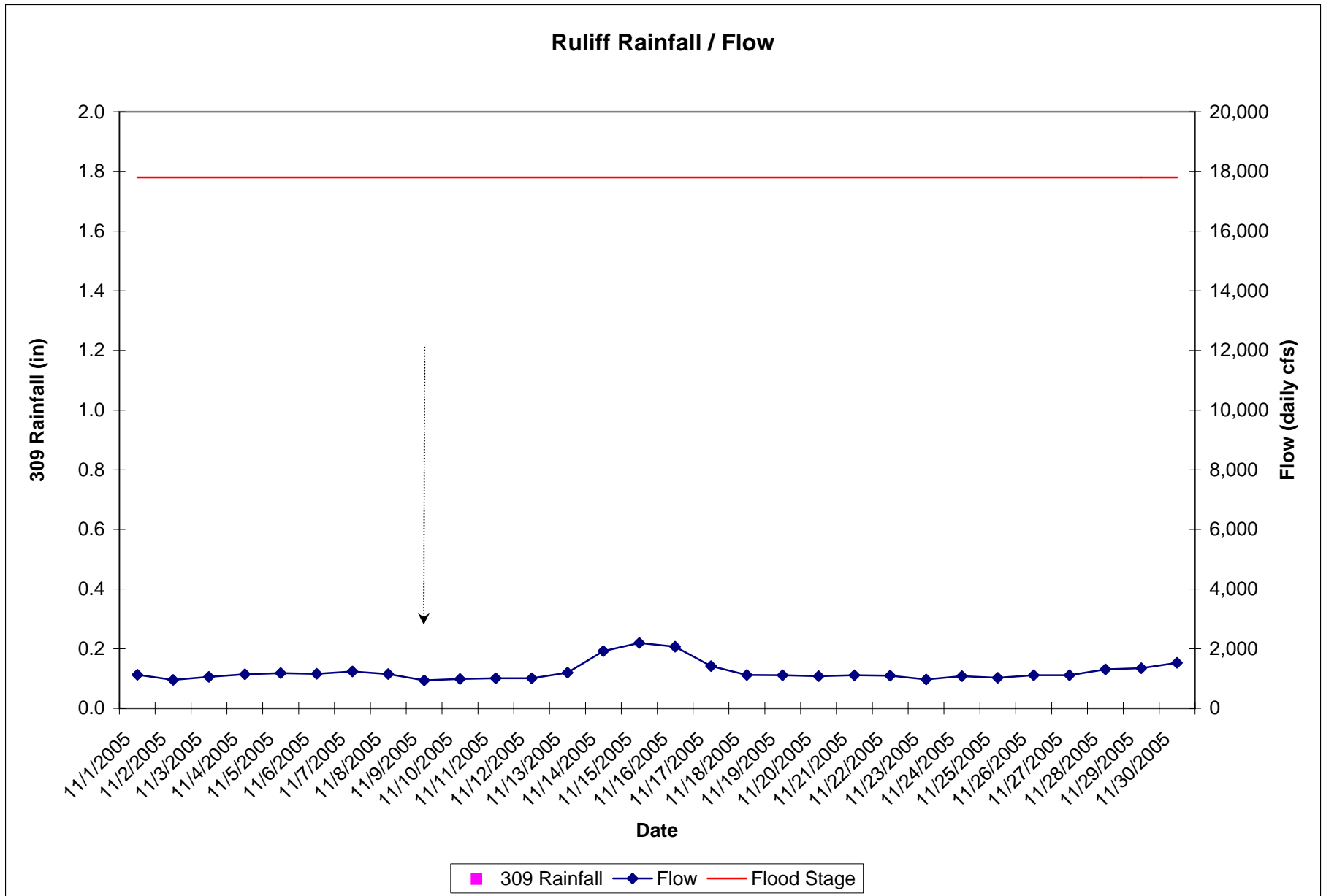
Gauge Height and Flow from USGS daily mean Gage height and Discharge, respectively
 USGS 08030500 Sabine Rv nr Ruliff, TX
http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08030500&agency_cd=USGS
 Acquired 12/9/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

Flow acft = Flow cfs * 1.98347

SABINE RIVER AUTHORITY OF TEXAS

November 2005



Lower Sabine Basin sampled on 11/9/2005

Flood stage flow of 17,800 cfs calculated from flood stage gage height, 24 ft msl. (USGS Web site)

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FY 2006 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 2005

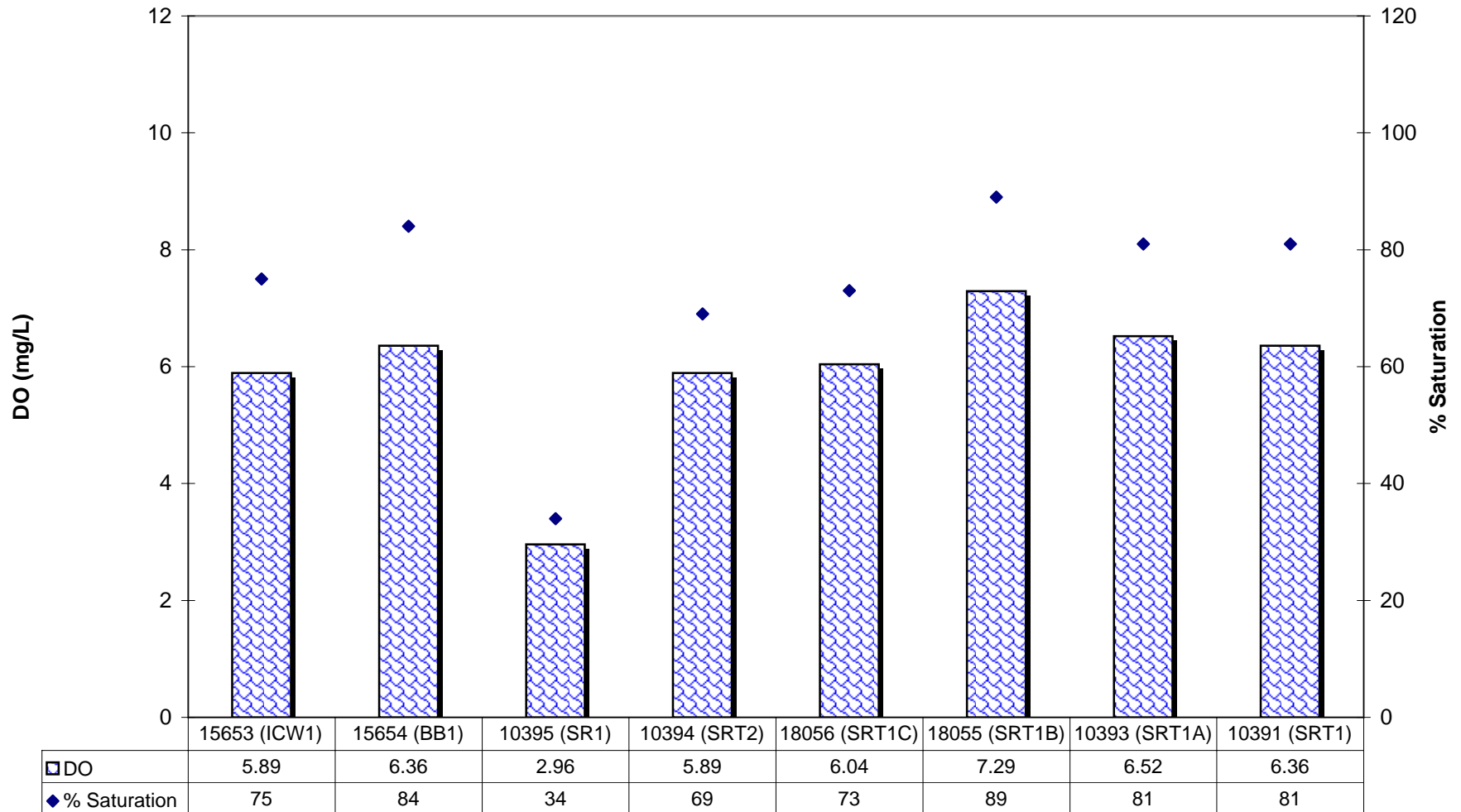
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	<i>Enterococcus</i> mpn/100ml 31701	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900
11/10/05 9:55 AM	1.05	15653 (ICW1)	24.4	7.31	5.89	75	15660	9	0.38	13	148	41	*	< 0.02	0.06	< 0.04	4	70	1680
11/10/05 10:27 AM	1.01	15654 (BB1)	24.6	7.6	6.36	84	23480	14	0.5	9.34	326	291	*	*	0.02	< 0.04	3	90	2660
11/10/05 9:05 AM	1.00	10395 (SR1)	23.1	7.09	2.96	34	416	*	0.33	20.9	6	*	*	0.02	0.07	0.05	9	60	44
11/10/05 9:25 AM	1.00	10394 (SRT2)	22.9	7.07	5.89	69	1860	1	0.6	9.62	23	7	*	< 0.02	0.06	< 0.04	5	40	196
11/10/05 9:38 AM	1.00	18056 (SRT1C)	23.8	7.25	6.04	73	5970	3	0.59	8.69	44	19	*	< 0.02	0.06	< 0.04	5	50	500
11/10/05 10:04 AM	1.00	18055 (SRT1B)	24.1	7.48	7.29	89	10420	6	0.55	6.94	25	10	*	< 0.02	0.08	< 0.04	4	60	1010
11/10/05 10:13 AM	1.00	10393 (SRT1A)	23.9	7.47	6.52	81	14810	8	0.52	7.36	84	21	*	< 0.02	0.08	< 0.04	4	70	1460
11/10/05 10:45 AM	1.00	10391 (SRT1)	23.8	7.52	6.36	81	19730	12	0.52	7.09	101	161	*	*	0.06	< 0.04	3	80	2210

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

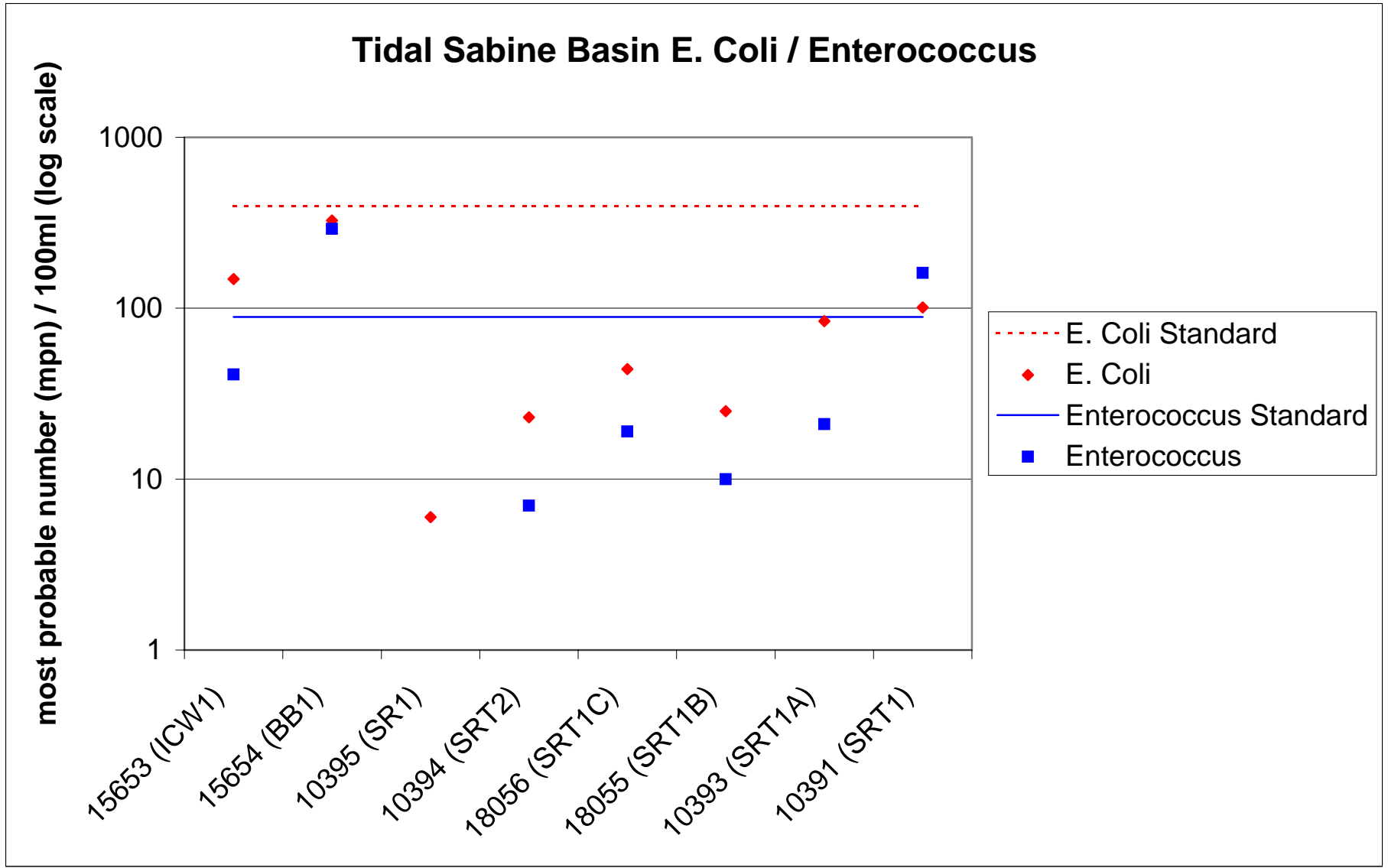
November 2005

Tidal Sabine Basin DO / % Saturation



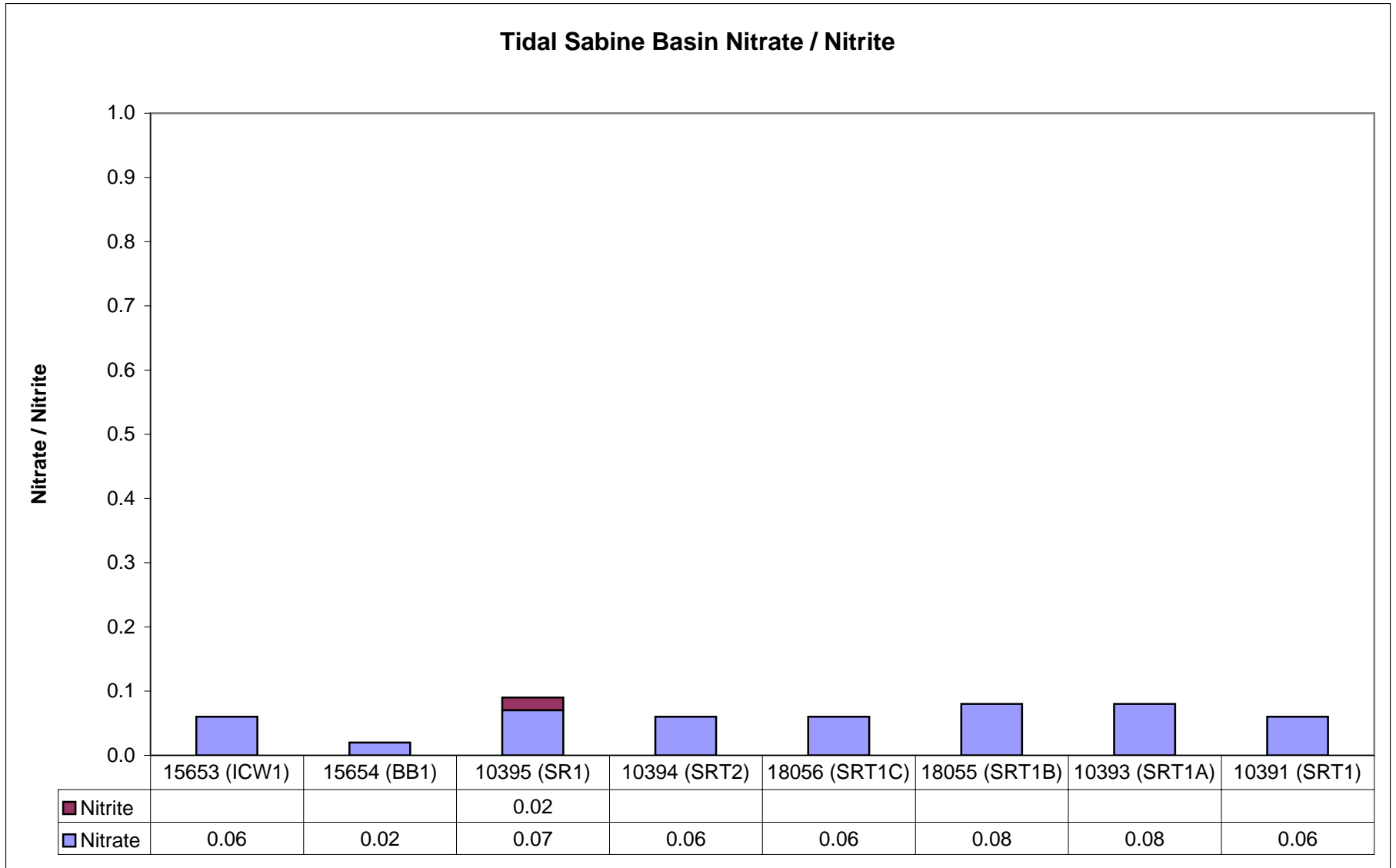
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Tidal Profiles

November 2005

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
11/10/05 9:55 AM	1.05	15653 (ICW1)	0.3	24.4	7.31	5.89	75	15660	9
			5.9	24	7.2	4.65	59	17810	10
11/10/05 10:27 AM	1.01	15654 (BB1)	0.3	24.6	7.6	6.36	84	23480	14
			4	24.4	7.55	5.89	77	24010	14
11/10/05 9:25 AM	1.00	10394 (SRT2)	0.3	22.9	7.07	5.89	69	1860	1
			2	22.9	7.12	5.58	66	2241	1
			3	22.4	6.8	2.31	28	16120	10
			7.3	22.7	6.8	0.38	5	26830	16
11/10/05 9:38 AM	1.00	18056 (SRT1C)	0.3	23.8	7.25	6.04	73	5970	3
			5	21.9	7.1	2.55	32	22710	14
			9.2	21.4	7.11	1.78	23	28070	17
			11	21.6	7.05	0.78	10	30590	19
11/10/05 10:04 AM	1.00	18055 (SRT1B)	0.3	24.1	7.48	7.29	89	10420	6
			4	23.1	7.3	4.6	58	20380	13
			8	22.4	7.35	4.18	54	29470	18
11/10/05 10:13 AM	1.00	10393 (SRT1A)	0.3	23.9	7.47	6.52	81	14810	8
			4	23.9	7.49	5.7	74	22600	14
			6.9	23.3	7.5	5.24	68	27450	17
11/10/05 10:45 AM	1.00	10391 (SRT1)	0.3	23.8	7.52	6.36	81	19730	12
			5	23.6	7.61	5.92	77	26600	16
			9.8	23.2	7.64	5.47	72	32280	20

SABINE RIVER AUTHORITY OF TEXAS

Orange Weather and River Data

November 2005

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
11/1/2005	OUT	OUT	OUT	76	37	51	0.95
11/2/2005	OUT	OUT	OUT	79	37	41	0.00
11/3/2005	OUT	OUT	OUT	78	37	42	0.00
11/4/2005	OUT	OUT	OUT	78	42	63	0.00
11/5/2005	OUT	OUT	OUT	82	63	68	0.00
11/6/2005	OUT	OUT	OUT	83	68	68	0.00
11/7/2005	OUT	OUT	OUT	85	66	71	0.00
11/8/2005	OUT	OUT	OUT	85	67	72	0.00
11/9/2005	OUT	OUT	OUT	85	67	71	0.00
11/10/2005	OUT	OUT	OUT	85	64	66	0.00
11/11/2005	OUT	OUT	OUT	85	55	56	0.02
11/12/2005	OUT	OUT	OUT	75	56	63	0.00
11/13/2005	OUT	OUT	OUT	81	56	70	0.00
11/14/2005	OUT	OUT	OUT	85	68	68	0.00
11/15/2005	OUT	OUT	OUT	85	68	75	0.00
11/16/2005	OUT	OUT	OUT	85	46	46	1.15
11/17/2005	OUT	OUT	OUT	55	36	36	0.00
11/18/2005	OUT	OUT	OUT	57	34	35	0.00
11/19/2005	OUT	OUT	OUT	58	35	46	0.00
11/20/2005	OUT	OUT	OUT	63	50	51	0.00
11/21/2005	OUT	OUT	OUT	64	42	43	0.02
11/22/2005	OUT	OUT	OUT	61	37	38	0.00
11/23/2005	OUT	OUT	OUT	70	37	41	0.00
11/24/2005	OUT	OUT	OUT	79	41	52	0.00
11/25/2005	OUT	OUT	OUT	76	51	53	0.00
11/26/2005	OUT	OUT	OUT	68	52	57	0.09
11/27/2005	OUT	OUT	OUT	67	57	67	2.00
11/28/2005	OUT	OUT	OUT	78	56	58	0.13
11/29/2005	OUT	OUT	OUT	65	38	38	0.00
11/30/2005	OUT	OUT	OUT	62	35	35	0.00
Avg or Tot	OUT	OUT	OUT	75	50	55	4.36

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

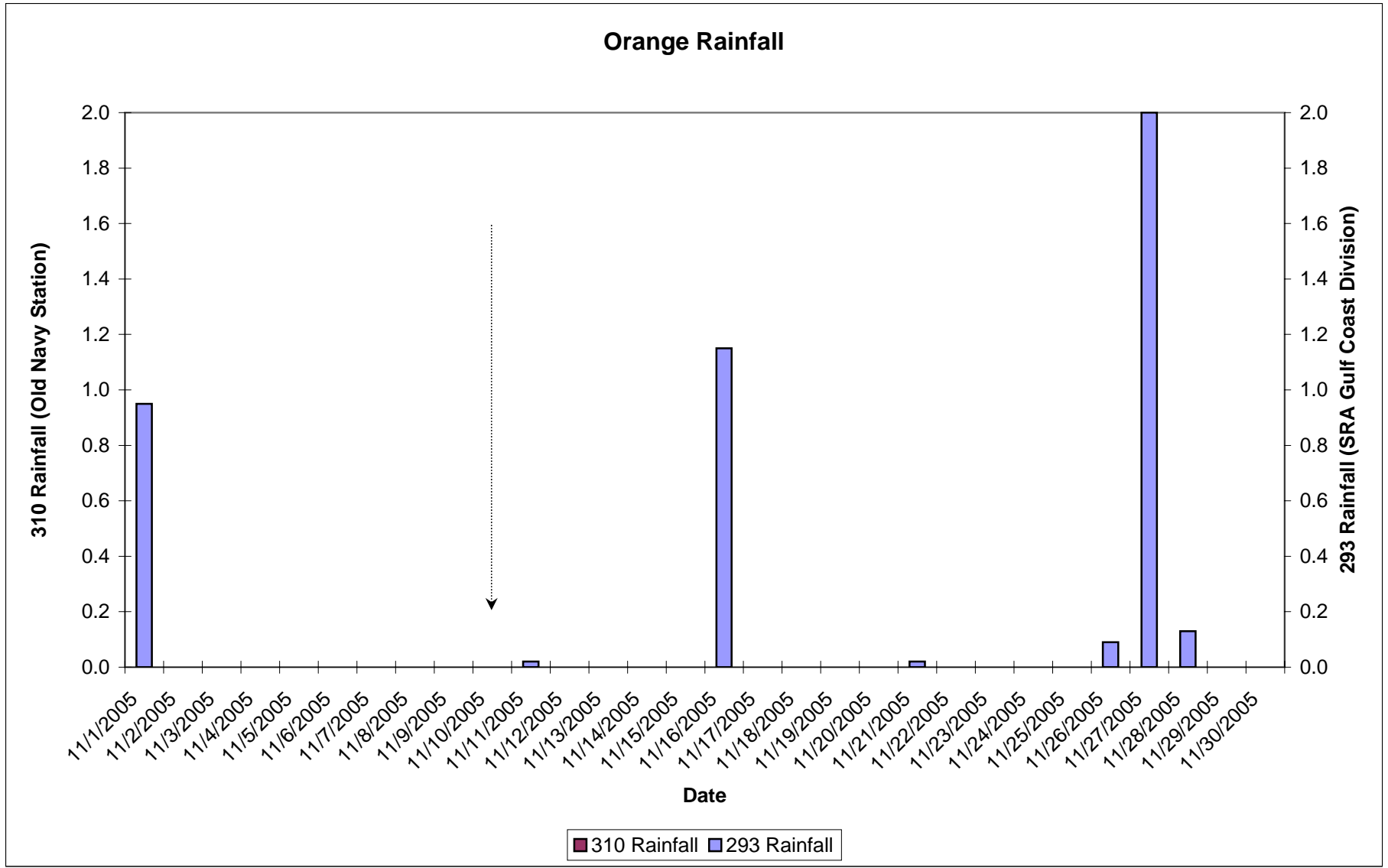
OUT: Gage Out

Tidal Sabine Basin Sampled on 11/10/2005
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Values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

November 2005



Tidal Sabine Basin Sampled on 11/10/2005