
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Report for February 2005. Water quality sampling was performed February 7th through February 10th. Recent weather (previous seven days) in the Sabine River Basin was cold, with daytime highs from the low 40s to the low 60s at Lake Tawakoni and at Lake Fork. Toledo Bend Reservoir and Orange had daytime highs from the mid 40s to the upper 60s. Lows ranged from the low 30s to the low 50s at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the mid 30s to the upper 50s. 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 1.72 and 1.69 inches of rainfall as recorded at Lake Tawakoni and at Lake Fork, respectively. Lake Tawakoni and Lake Fork received 0.52 and 0.42 inches of rainfall the week preceding the sample run. Toledo Bend and Orange received 6.12 and 4.68 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 Upper Basin sites were consistent with water of high quality. The level of Lake Fork was recorded at 402.71 feet msl with 8 cfs releases and the level of Lake Tawakoni was recorded at 437.78 feet msl with 236 cfs releases at the time of sampling. Stations LT23A, LF3, SR22 and SR19 exceeded recommended screening criteria for chlorophyll *a* and stations BS9, SR19, SR17, SR16, SR15, SR14, SR11, and SR10 exceeded Stream Standards numeric criteria for *E. coli*. The sites that exceeded numeric criteria for *E. coli* also exhibited higher than normal turbidities and low secchi depths due to suspended sediment from rainfall run off. An increase in *E. coli* numbers is usually accompanied by higher turbidity values and low secchi depths.

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

The February monthly sampling results were indicative of water of high quality at most sites. The area received 2.66 inches of rain during the week of sampling. The level of Toledo Bend Reservoir was recorded at 170.24 feet msl with 15,279 cfs discharge at the time of sampling. Most reservoir stations were well mixed with similar readings throughout the water column. Due to heavy rains during the sample run, stations TB8, TB7A, TB6J, BA4, SR5, SR3, and BCC1 had *E. coli* results above Stream Standards numeric criteria and station SR5 had a chlorophyll *a* result above the recommended screening criteria.

TIDAL SECTION OF THE SABINE BASIN BELOW MORGAN BLUFF

Most sites sampled in the tidal portion of the Sabine Basin had values consistent with water of high quality. The tidal stations received 1.33 inches of rainfall during the seven days prior to the sample run, with most falling on the two days prior to sampling. Most of the sites in this section of the Basin were well mixed with only slight stratification, and no anoxic conditions were found at any tidal station. Only one site, BB1, recorded salinity values over 1 ppt. All tidal stations except ICW1 and BB1 displayed high bacteriological results due to the recent rainfall.

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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SABINE RIVER AUTHORITY OF TEXAS

Monthly Water Quality Report

February 2005

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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

February 2005

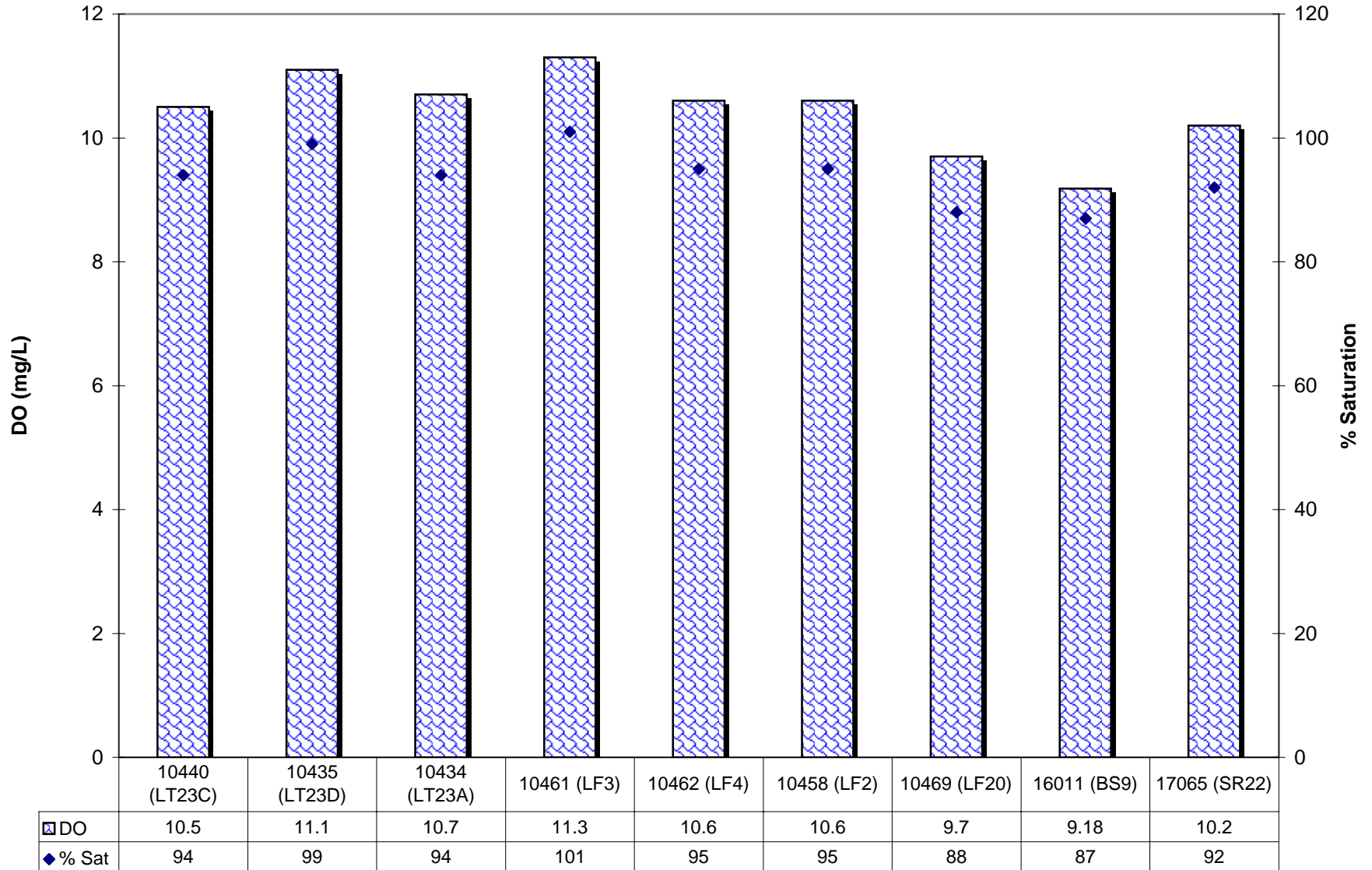
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
2/8/05 10:38 AM	7.00	10440 (LT23C)	9.94	8.2	10.5	94	184	*	0.39	20.6	28	*	< 0.02	0.05	< 0.04	6	*	*	< 10	10.8
2/8/05 11:22 AM	7.00	10435 (LT23D)	9.69	8.41	11.1	99	188	*	0.52	16	3	*	< 0.02	0.04	< 0.04	6	*	*	< 10	12.2
2/8/05 12:15 PM	7.00	10434 (LT23A)	9.22	8.23	10.7	94	181	*	1.09	4.22	1	26	< 0.02	0.03	< 0.04	6	*	*	< 10	10.3
2/8/05 2:00 PM	6.12	10461 (LF3)	10.1	8.23	11.3	101	155	*	1.14	4.06	< 1	29	< 0.02	0.08	< 0.04	6	*	*	15.6	19
2/8/05 1:42 PM	6.12	10462 (LF4)	9.88	7.73	10.6	95	151	*	1.64	2.87	< 1	14	< 0.02	0.11	< 0.04	6	*	*	14.5	18.3
2/8/05 2:45 PM	6.12	10458 (LF2)	9.9	7.68	10.6	95	151	*	1.79	1.75	< 1	13	< 0.02	0.18	< 0.04	6	*	*	14.6	18.2
2/8/05 8:45 AM	6.10	10469 (LF20)	10.7	6.74	9.7	88	327	*	0.39	38.5	105	*	< 0.02	0.08	< 0.04	7	*	*	49.7	57.8
2/9/05 6:32 AM	6.02	16011 (BS9)	12.1	6.53	9.18	87	155	*	0.44	15.2	866	*	< 0.02	0.22	< 0.04	8	*	*	21.4	24.2
2/8/05 9:44 AM	6.00	17065 (SR22)	9.92	7.67	10.2	92	303	*	0.43	24.1	111	17	< 0.02	0.09	< 0.04	7	*	*	26.4	40.4
2/8/05 9:09 AM	6.00	10430 (SR21)	10.5	7.55	10	91	389	*	0.35	25.1	84	*	< 0.02	0.08	< 0.04	7	*	*	52.9	44.1
2/8/05 8:15 AM	6.00	10429 (SR19)	9	7.27	9.57	89	239	*	0.32	38.6	649	14	< 0.02	0.13	< 0.04	8	*	*	26.4	31.7
2/9/05 7:05 AM	5.00	10428 (SR17)	11.9	6.91	8.94	84	162	*	0.24	55.3	2419	*	< 0.02	0.12	< 0.04	9	*	*	19.2	21.6
2/9/05 7:37 AM	5.00	10427 (SR16)	12.2	6.79	8.7	82	159	*	0.27	56.7	> 2419	*	< 0.02	0.11	< 0.04	10	*	*	22.4	18.8
2/9/05 8:04 AM	5.00	10426 (SR15)	12	6.81	8.78	83	158	*	0.27	60.2	> 2419	*	< 0.02	0.11	< 0.04	10	*	*	23	18
2/9/05 8:32 AM	5.00	10423 (SR14)	12.2	6.76	8.63	82	147	*	0.22	73.2	1986	*	< 0.02	0.13	< 0.04	10	*	*	19.4	15.5
2/9/05 9:29 AM	5.00	13628 (SR11)	12.4	6.82	8.54	81	164	*	0.21	99.1	1733	*	< 0.02	0.15	< 0.04	9	*	*	24.4	18.5
2/9/05 10:06 AM	5.00	10415 (SR10)	12.7	6.83	8.51	81	153	*	0.2	89.2	1986	*	< 0.02	0.15	< 0.04	*	*	*	18.2	20.1

*: Not sampled on this run

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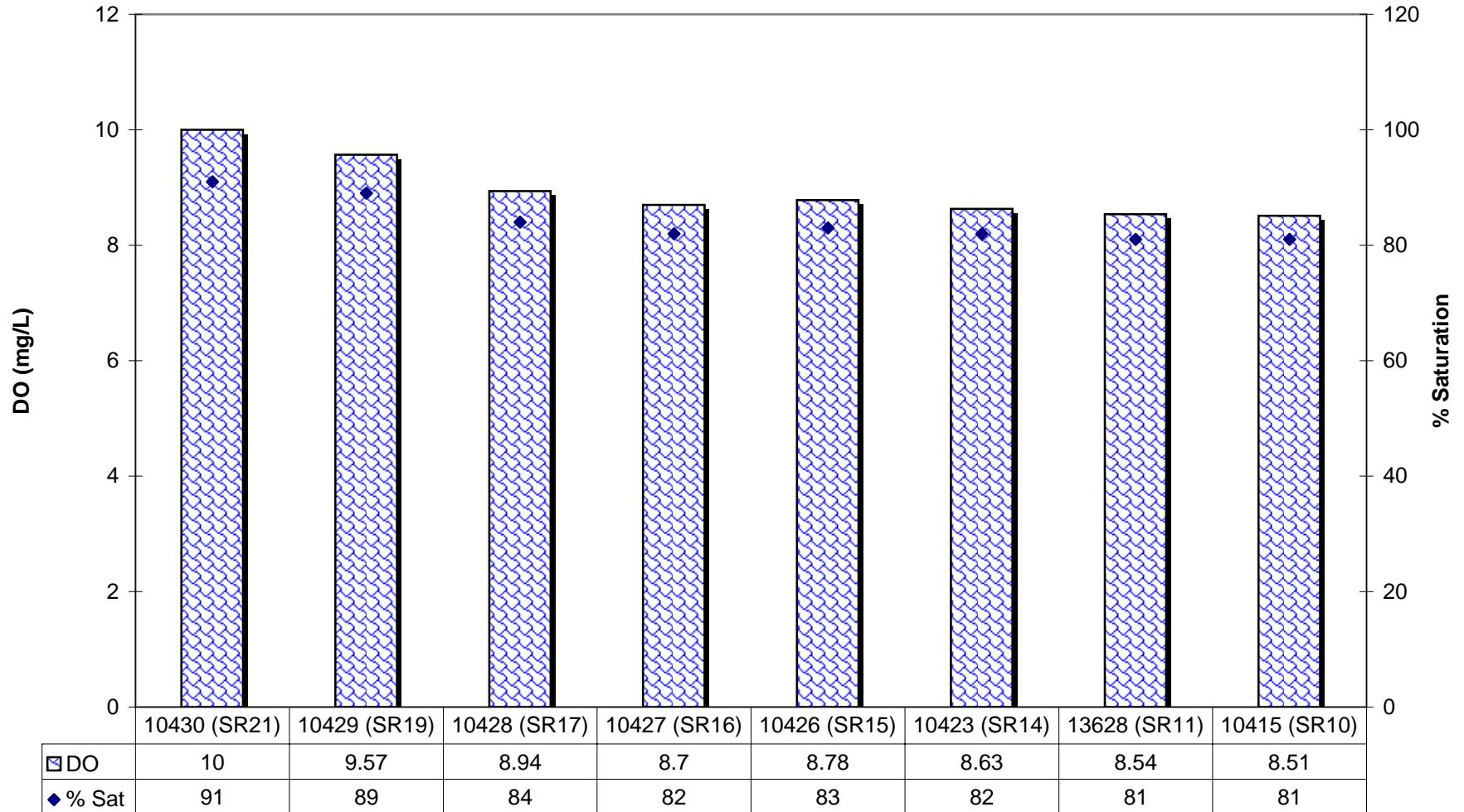
Upper Sabine Basin DO / % Saturation (1 of 2)



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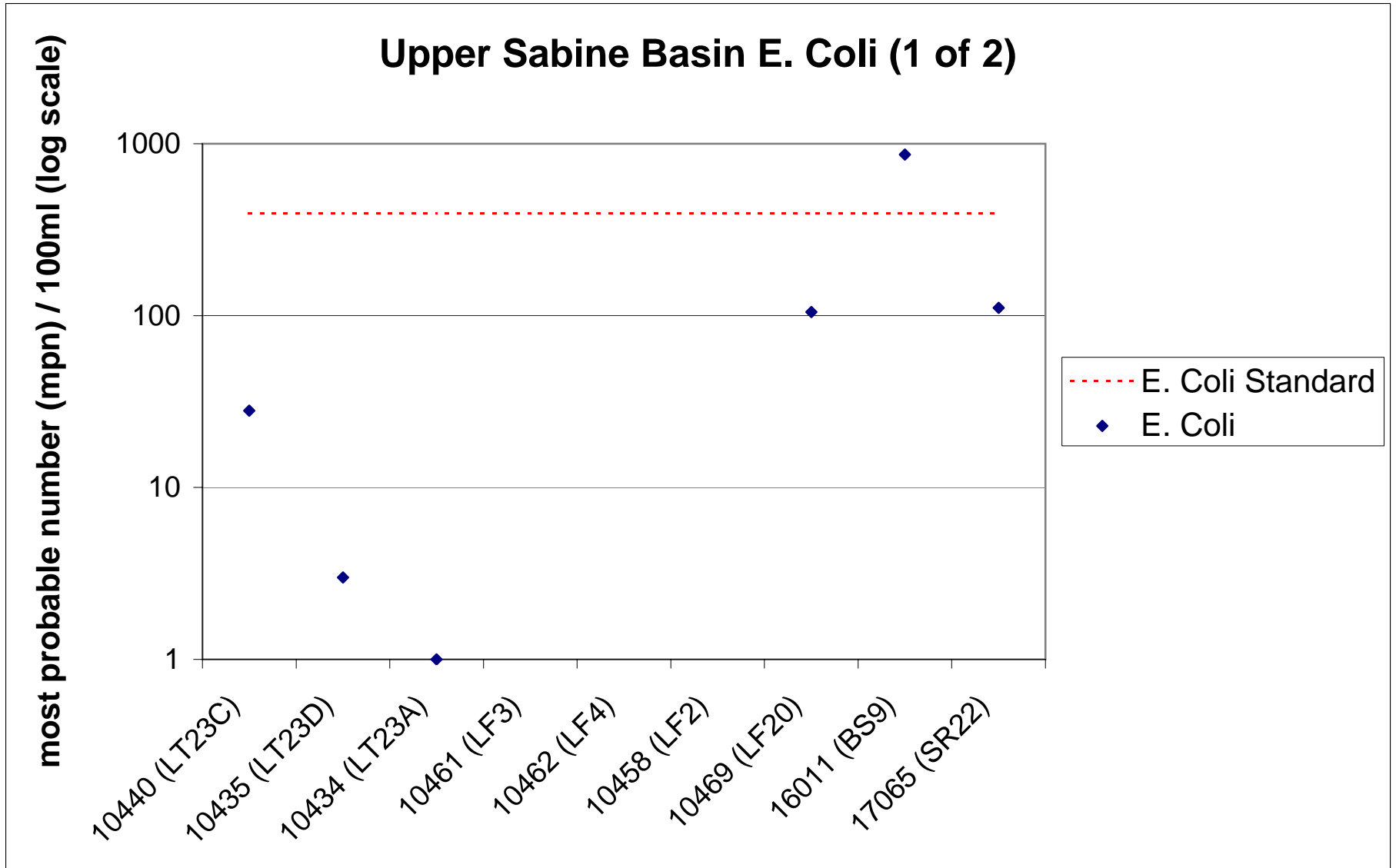
February 2005

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



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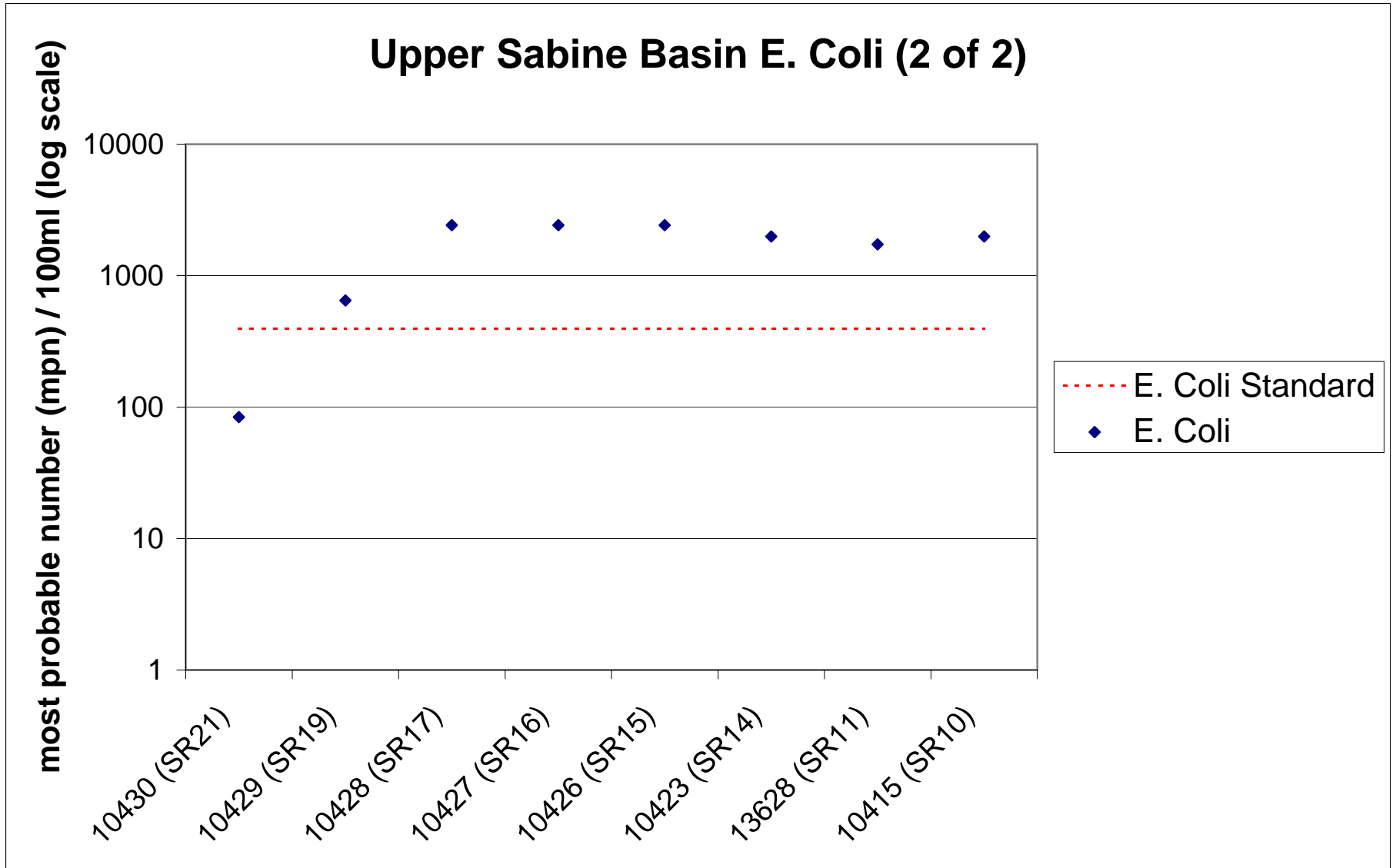
February 2005



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

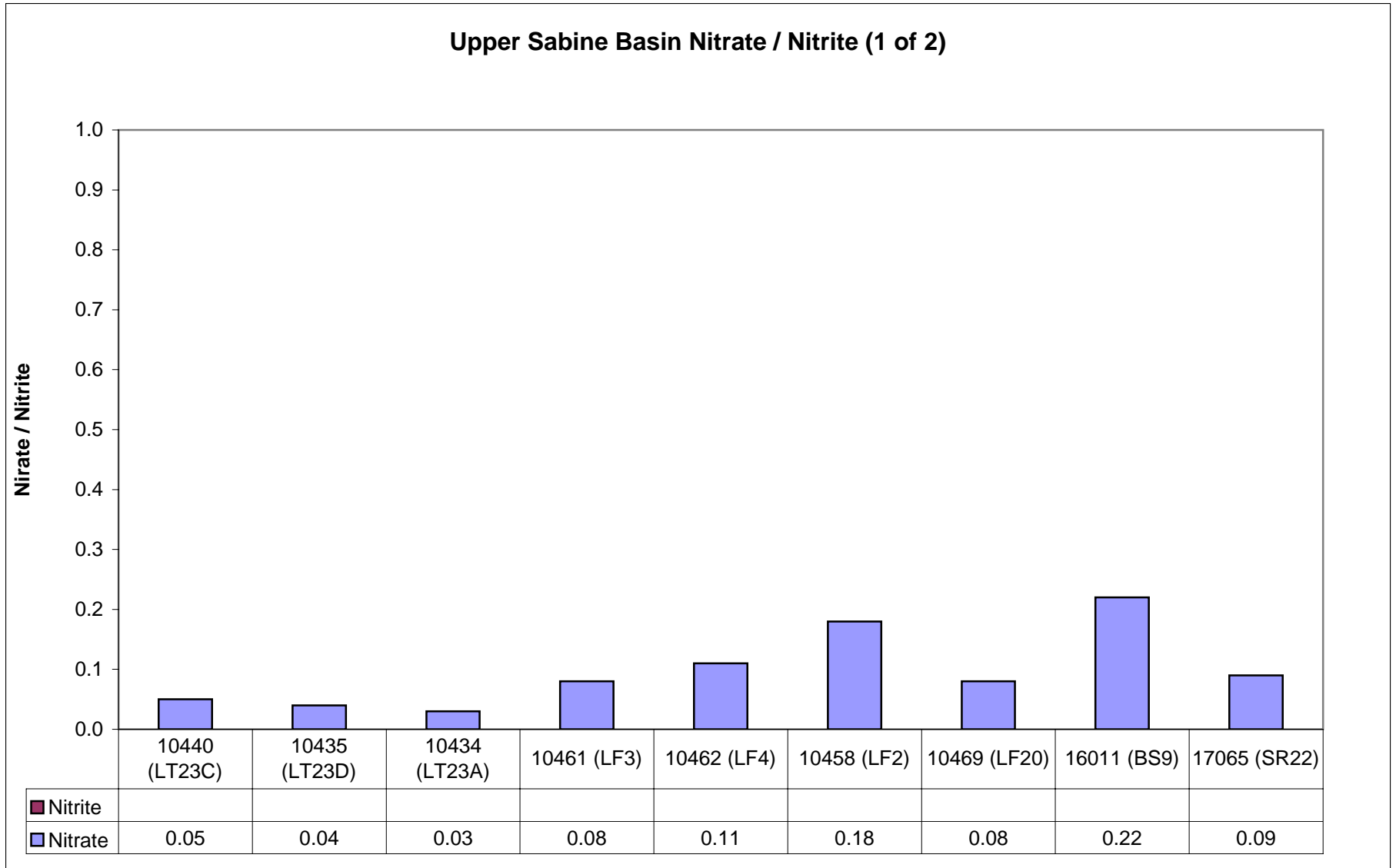
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February 2005

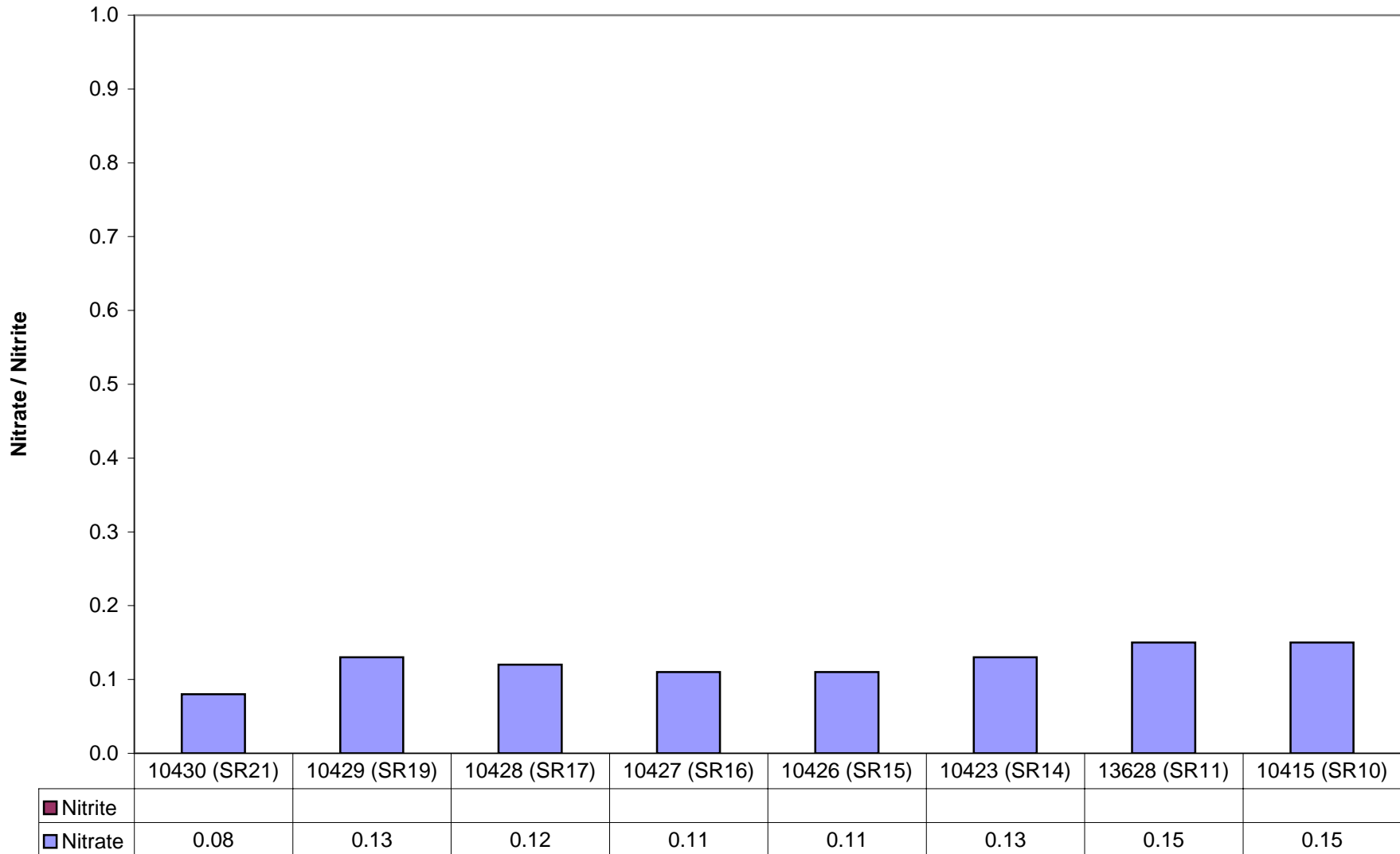


Stations without values were below detection limit (< 0.02 mg/L) on this run (see page 2)

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Upper Sabine Basin Nitrate / Nitrite (2 of 2)



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

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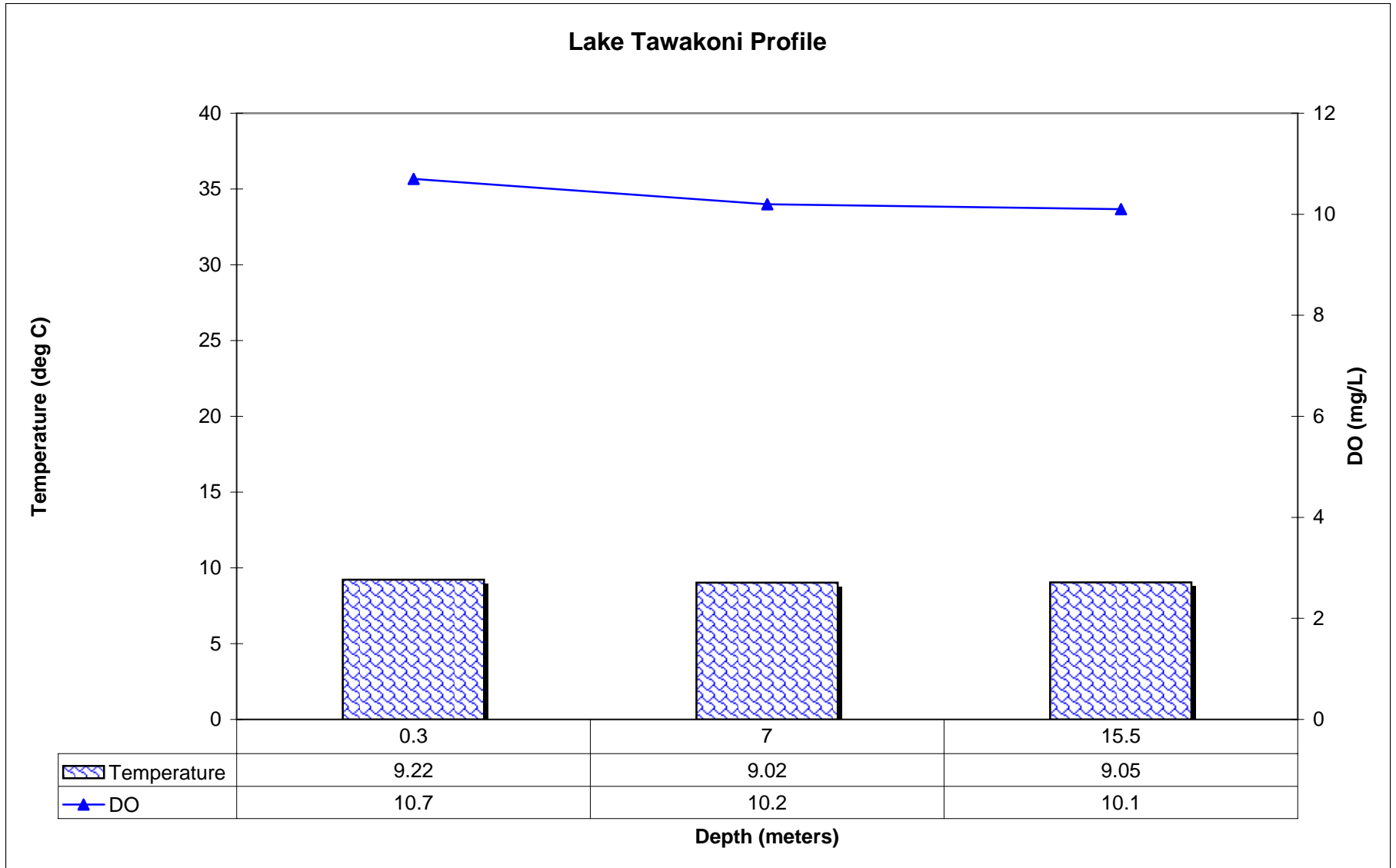
Upper Basin Profiles

February 2005

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
2/8/05 10:38 AM	7.00	10440 (LT23C)	0.3	9.94	8.2	10.5	94	184
			2.1	9.93	8.17	10.4	93	184
			4.2	9.96	8.16	10.6	95	185
2/8/05 11:22 AM	7.00	10435 (LT23D)	0.3	9.69	8.41	11.1	99	188
			4.3	9.46	8.02	10.4	92	195
			8.5	9.5	7.95	10.4	92	195
2/8/05 12:15 PM	7.00	10434 (LT23A)	0.3	9.22	8.23	10.7	94	181
			7	9.02	8.05	10.2	90	182
			15.5	9.05	8.01	10.1	88	182
2/8/05 2:00 PM	6.12	10461 (LF3)	0.3	10.1	8.23	11.3	101	155
			5	9.56	7.62	10.5	93	155
			8.9	9.29	7.17	8.35	74	159
2/8/05 1:42 PM	6.12	10462 (LF4)	0.3	9.88	7.73	10.6	95	151
			6	9.71	7.6	10.3	92	151
			11.4	9.72	7.54	10	89	151
2/8/05 2:45 PM	6.12	10458 (LF2)	0.3	9.9	7.68	10.6	95	151
			8	9.6	7.53	10.2	91	152
			17.3	9.2	7.34	9.21	82	152

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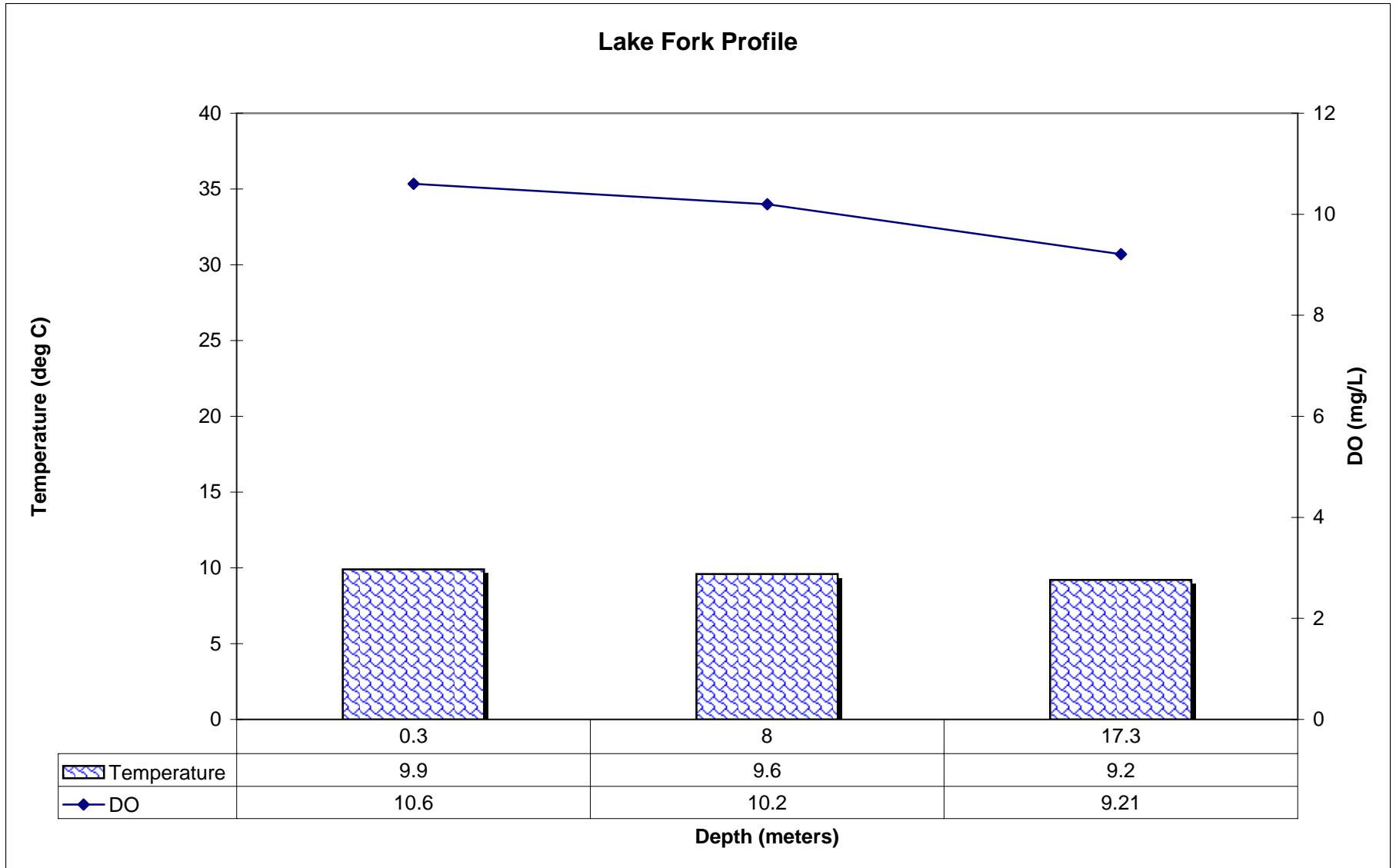
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For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

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Lake Tawakoni Weather and Reservoir Data

February 2005

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
2/1/2005	437.76	0.26	126	44	39	0.00	0.08
2/2/2005	437.81	0.31	236	43	36	0.21	0.00
2/3/2005	437.82	0.32	236	42	32	0.00	0.04
2/4/2005	437.81	0.31	236	54	31	0.00	0.09
2/5/2005	437.79	0.29	236	54	32	0.00	0.09
2/6/2005	437.78	0.28	236	60	38	0.07	0.14
2/7/2005	437.79	0.29	236	59	48	0.24	0.00
2/8/2005	437.78	0.28	236	53	41	0.00	0.10
2/9/2005	437.79	0.29	236	52	40	0.00	0.05
2/10/2005	437.73	0.23	236	47	30	0.00	0.07
2/11/2005	437.70	0.20	126	54	30	0.00	0.09
2/12/2005	437.68	0.18	126	56	42	0.00	0.04
2/13/2005	437.69	0.19	126	61	46	0.24	0.03
2/14/2005	437.68	0.18	126	70	44	0.00	0.15
2/15/2005	437.66	0.16	126	77	43	0.00	0.17
2/16/2005	437.66	0.16	126	79	46	0.00	0.20
2/17/2005	437.62	0.12	126	62	39	0.00	0.15
2/18/2005	437.60	0.10	46	54	39	0.00	0.12
2/19/2005	437.57	0.07	46	58	43	0.03	0.10
2/20/2005	437.56	0.06	46	63	48	0.02	0.05
2/21/2005	437.57	0.07	46	74	58	0.00	0.11
2/22/2005	437.55	0.05	46	78	46	0.00	0.21
2/23/2005	437.59	0.09	46	81	46	1.26	0.22
2/24/2005	437.63	0.13	46	66	44	0.46	0.16
2/25/2005	437.59	0.09	46	49	34	0.05	0.09
2/26/2005	437.58	0.08	46	58	34	0.00	0.05
2/27/2005	437.59	0.09	46	54	42	0.17	0.08
2/28/2005	437.57	0.07	46	50	42	0.02	0.10
Avg or Tot	437.68	0.18	130	59	40	2.77	2.78

	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.

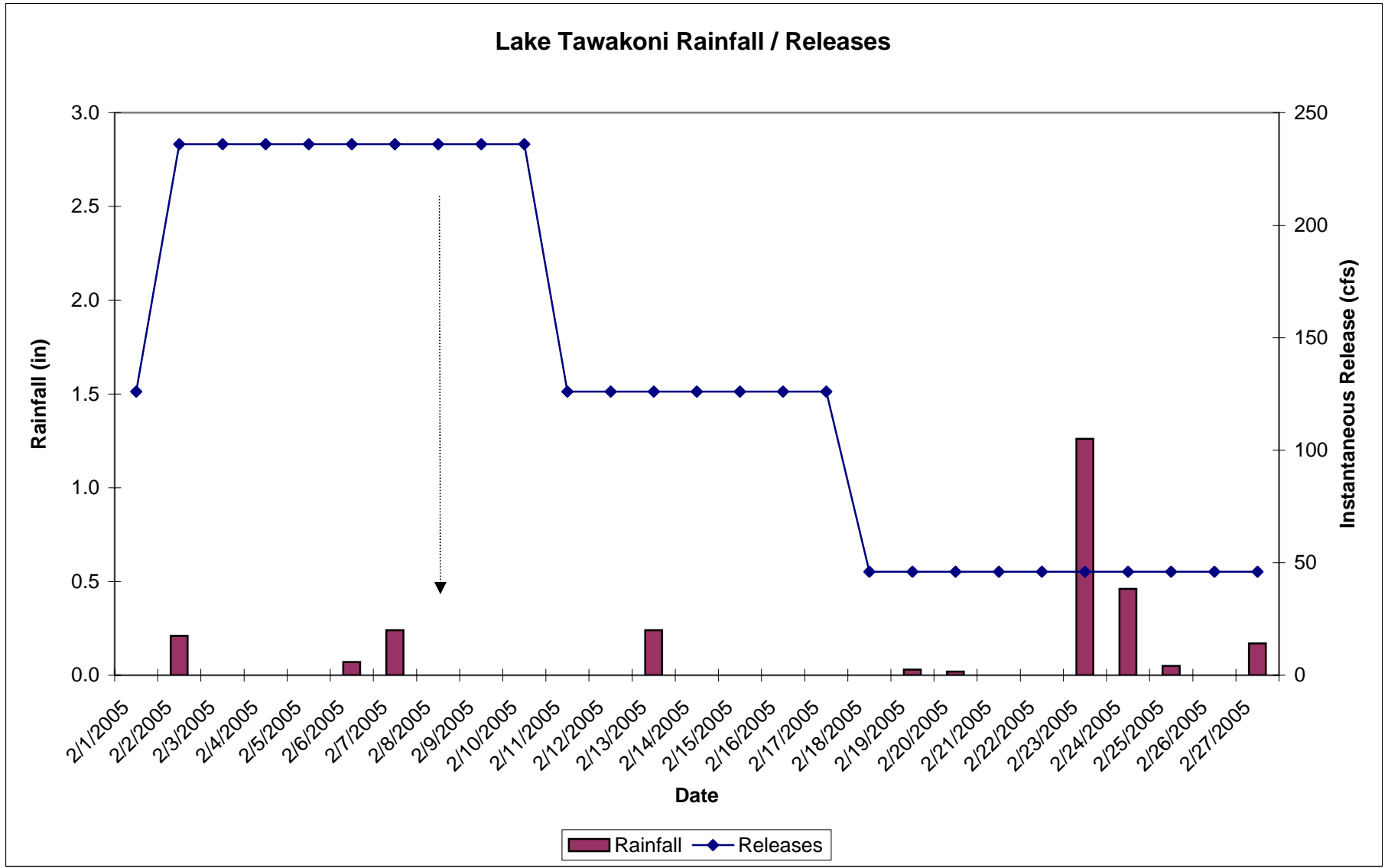
Lake Tawakoni Sampled on 2/8/2005

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 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

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February 2005



Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

February 2005

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
2/1/2005	402.58	(0.42)	8	8	47	40	0.00	0.02
2/2/2005	402.62	(0.38)	8	8	44	40	0.23	0.00
2/3/2005	402.62	(0.38)	8	8	45	40	0.00	0.03
2/4/2005	402.62	(0.38)	8	8	57	30	0.00	0.07
2/5/2005	402.62	(0.38)	8	8	60	30	0.00	0.07
2/6/2005	402.64	(0.36)	8	8	62	36	0.04	0.14
2/7/2005	402.69	(0.31)	8	8	63	50	0.15	0.00
2/8/2005	402.71	(0.29)	8	8	58	41	0.00	0.06
2/9/2005	402.74	(0.26)	8	8	56	41	0.00	0.05
2/10/2005	402.71	(0.29)	8	8	50	28	0.00	0.09
2/11/2005	402.71	(0.29)	8	8	60	30	0.00	0.09
2/12/2005	402.71	(0.29)	8	8	63	42	0.00	0.11
2/13/2005	402.73	(0.27)	8	8	64	47	0.13	0.03
2/14/2005	402.74	(0.26)	8	8	74	42	0.00	0.18
2/15/2005	402.74	(0.26)	8	8	80	42	0.00	0.20
2/16/2005	402.76	(0.24)	8	8	78	47	0.00	0.22
2/17/2005	402.75	(0.25)	8	8	76	40	0.00	0.17
2/18/2005	402.74	(0.26)	8	8	58	40	0.00	0.12
2/19/2005	402.72	(0.28)	8	8	61	44	0.05	0.06
2/20/2005	402.73	(0.27)	8	8	64	47	0.06	0.01
2/21/2005	402.75	(0.25)	8	8	75	60	0.00	0.13
2/22/2005	402.75	(0.25)	8	8	82	46	0.00	0.21
2/23/2005	402.79	(0.21)	8	8	83	46	0.12	0.13
2/24/2005	402.75	(0.25)	1,719	2,061	60	46	0.55	0.24
2/25/2005	402.66	(0.34)	2,051	8	50	33	0.03	0.06
2/26/2005	402.65	(0.35)	8	8	60	36	0.00	0.10
2/27/2005	402.68	(0.32)	8	8	58	42	0.14	0.26
2/28/2005	402.69	(0.31)	8	8	52	43	0.02	0.02
Avg or Tot	402.70	(0.30)	142	81	62	41	1.52	2.87

Units	Avg Feet M.S.L.	Avg Feet	Avg cfs Previous 24 hrs	cfs	Avg Deg F	Avg Deg F	Tot Inches	Tot Inches
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TOP: Top of Pool = 403 Feet M.S.L.

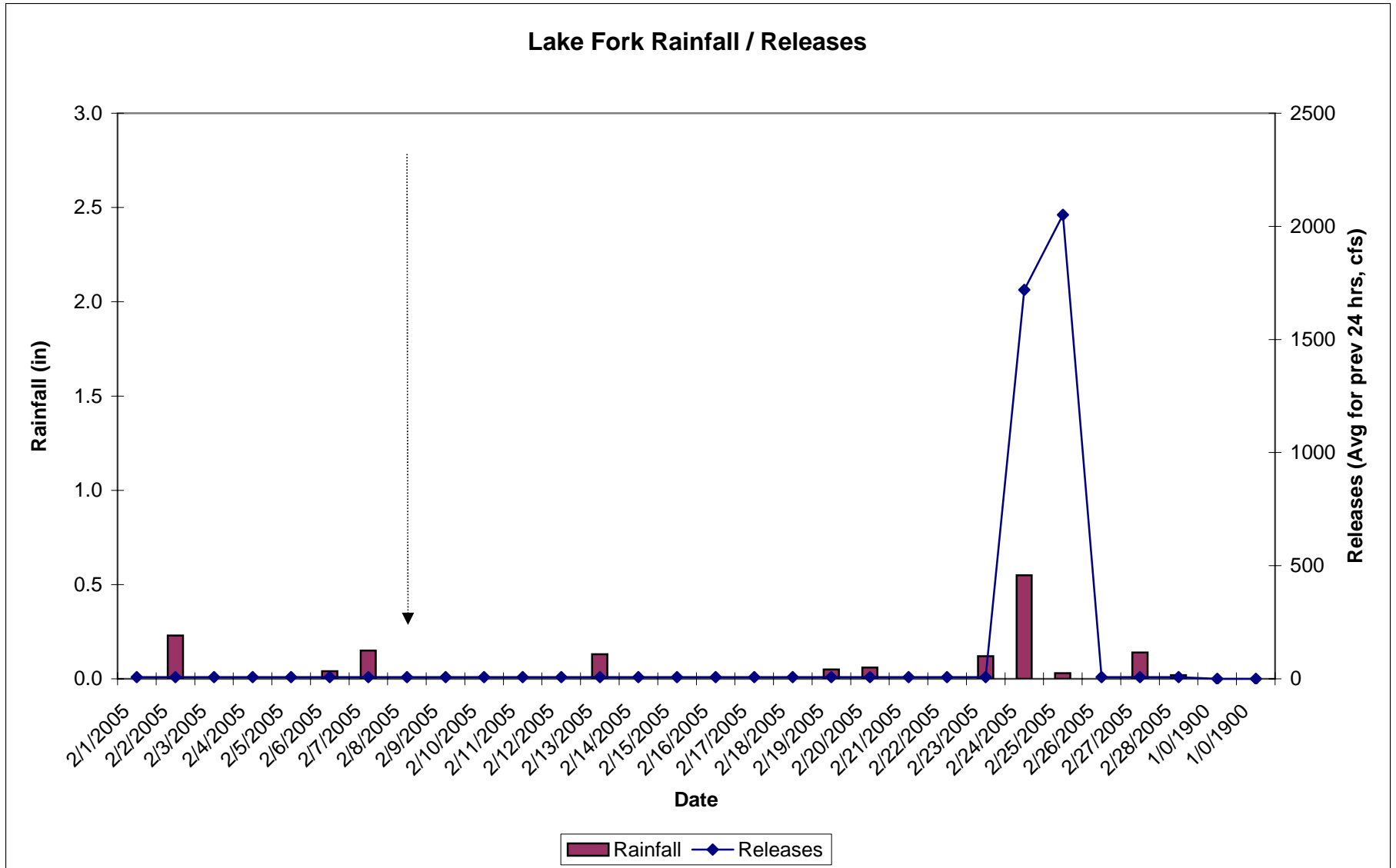
Lake Fork Sampled on 2/8/2005

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 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

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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

February 2005

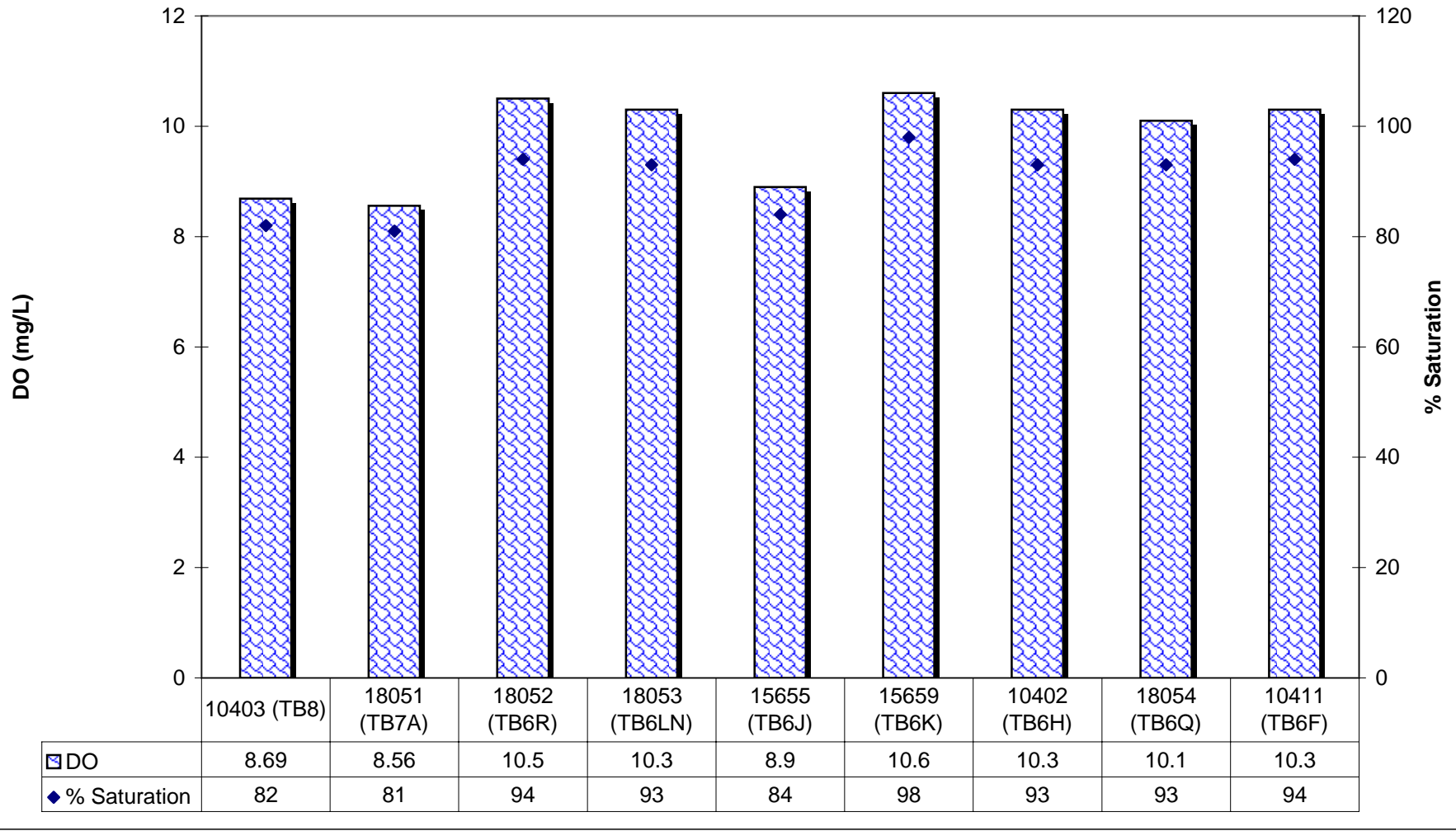
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
2/9/05 10:50 AM	4.00	10403 (TB8)	12.2	6.86	8.69	82	173	*	0.21	53.4	1553	*	< 0.02	0.16	< 0.04	9	*	*	22.4	23.4
2/9/05 11:31 AM	4.00	18051 (TB7A)	12.6	6.76	8.56	81	137	*	0.25	53.7	> 2419	*	< 0.02	0.13	< 0.04	10	*	*	17.7	17.9
2/7/05 9:55 AM	4.00	18052 (TB6R)	10	7.29	10.5	94	187	*	0.61	10.9	1	15	< 0.02	0.18	< 0.04	10	*	*	23.8	24.1
2/7/05 12:05 PM	4.00	18053 (TB6LN)	10.8	7.14	10.3	93	118	*	0.64	9.16	5	*	< 0.02	0.1	< 0.04	9	*	*	14.4	15.3
2/8/05 10:25 AM	4.00	15655 (TB6J)	12.7	6.87	8.9	84	112	*	0.12	108	> 2419	*	< 0.02	0.12	< 0.04	8	*	*	< 10	23.7
2/8/05 12:10 PM	4.00	15659 (TB6K)	12.1	6.98	10.6	98	132	*	0.34	17.7	91	*	< 0.02	0.16	< 0.04	9	*	*	13.6	22.2
2/8/05 11:05 AM	4.00	10402 (TB6H)	10.9	7.08	10.3	93	129	*	0.71	9.47	4	13	< 0.02	0.2	0.04	10	*	*	14.6	16.2
2/7/05 12:50 PM	4.00	18054 (TB6Q)	11.2	7.21	10.1	93	140	*	1.11	3.33	2	*	< 0.02	0.11	< 0.04	8	*	*	16.2	16.6
2/8/05 10:45 AM	4.00	10411 (TB6F)	11.4	6.93	10.3	94	87	*	0.35	21.2	155	*	< 0.02	0.12	< 0.04	5	*	*	< 10	13.8
2/8/05 9:48 AM	4.00	10407 (TB6CN)	12.1	6.47	9.93	93	98	*	0.48	13.7	135	*	< 0.02	0.08	< 0.04	9	*	*	10.1	16.2
2/7/05 1:50 PM	4.00	10404 (TB6A)	10.9	7.39	10.5	95	133	*	1.24	2.6	2	16	< 0.02	0.13	< 0.04	7	*	*	15	15
2/9/05 12:15 PM	3.03	10340 (BA4)	14.3	7.79	9.28	91	80	*	0.1	63.5	> 2419	*	< 0.02	0.04	< 0.04	10	*	*	< 10	10.1
2/9/05 10:35 AM	3.00	10401 (TB6S)	11.1	7.49	11.4	103	136	*	> 1.22	2.68	5	*	< 0.02	0.12	< 0.04	7	*	*	15.6	15.8
2/9/05 11:50 AM	3.00	10399 (SR5)	11.6	7.26	10.8	99	122	*	0.27	20.1	649	14	< 0.02	0.15	< 0.04	7	*	*	14	14.2
2/9/05 12:37 PM	3.00	10398 (SR3)	12.4	7.09	10.3	97	117	*	0.25	24.1	727	11	< 0.02	0.11	< 0.04	8	*	*	12.6	14.2
2/9/05 9:20 AM	2.05	10465 (BCC1)	14.7	6.11	9.16	90	35	*	0.14	50.7	1986	*	< 0.02	0.06	< 0.04	12	*	*	< 10	< 10
2/9/05 8:45 AM	2.00	10397 (SR2)	12.8	7.05	9.79	92	122	*	0.39	12.8	126	11	< 0.02	0.12	< 0.04	7	*	*	13.7	14.8

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

February 2005

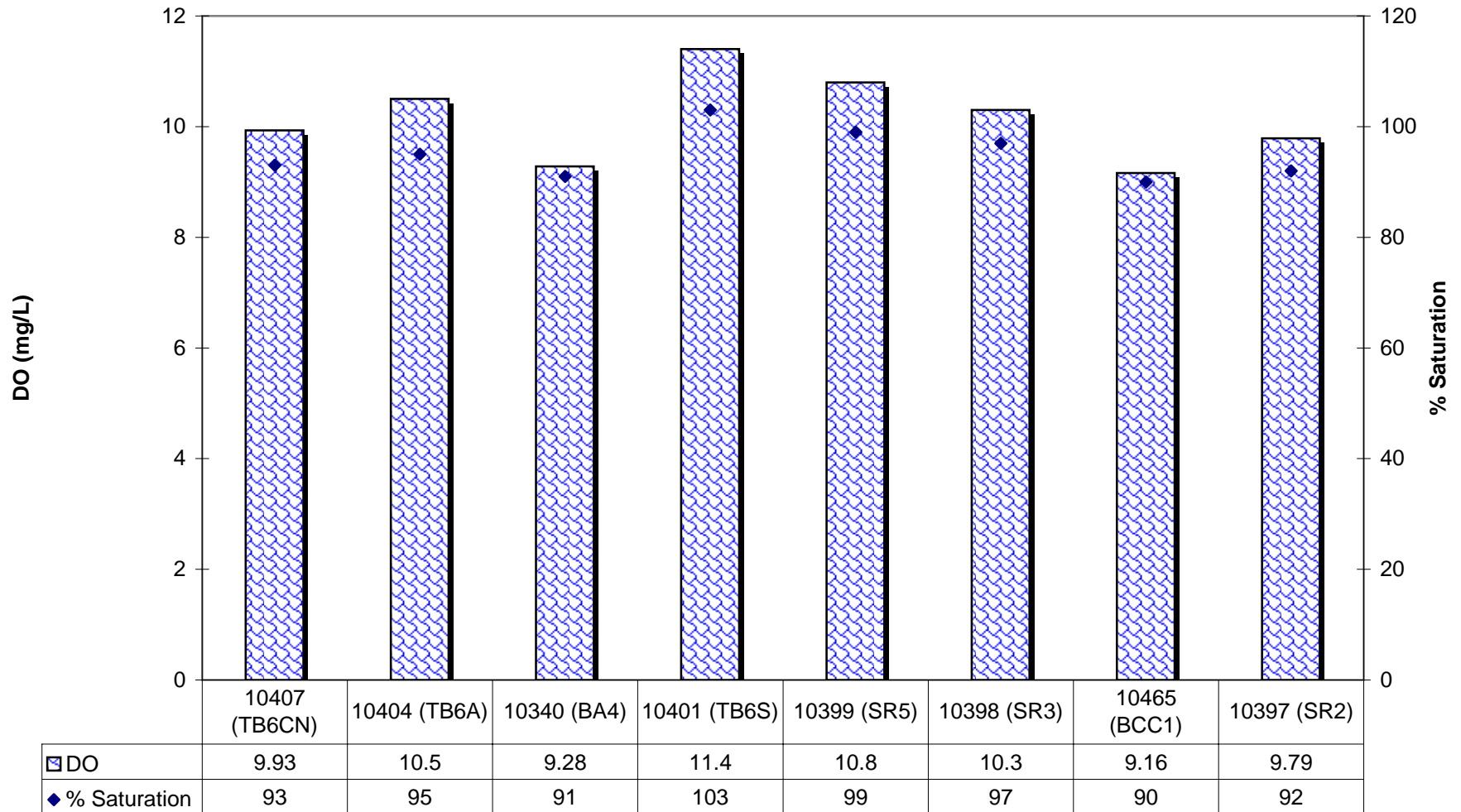
Lower Sabine Basin DO / % Saturation (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

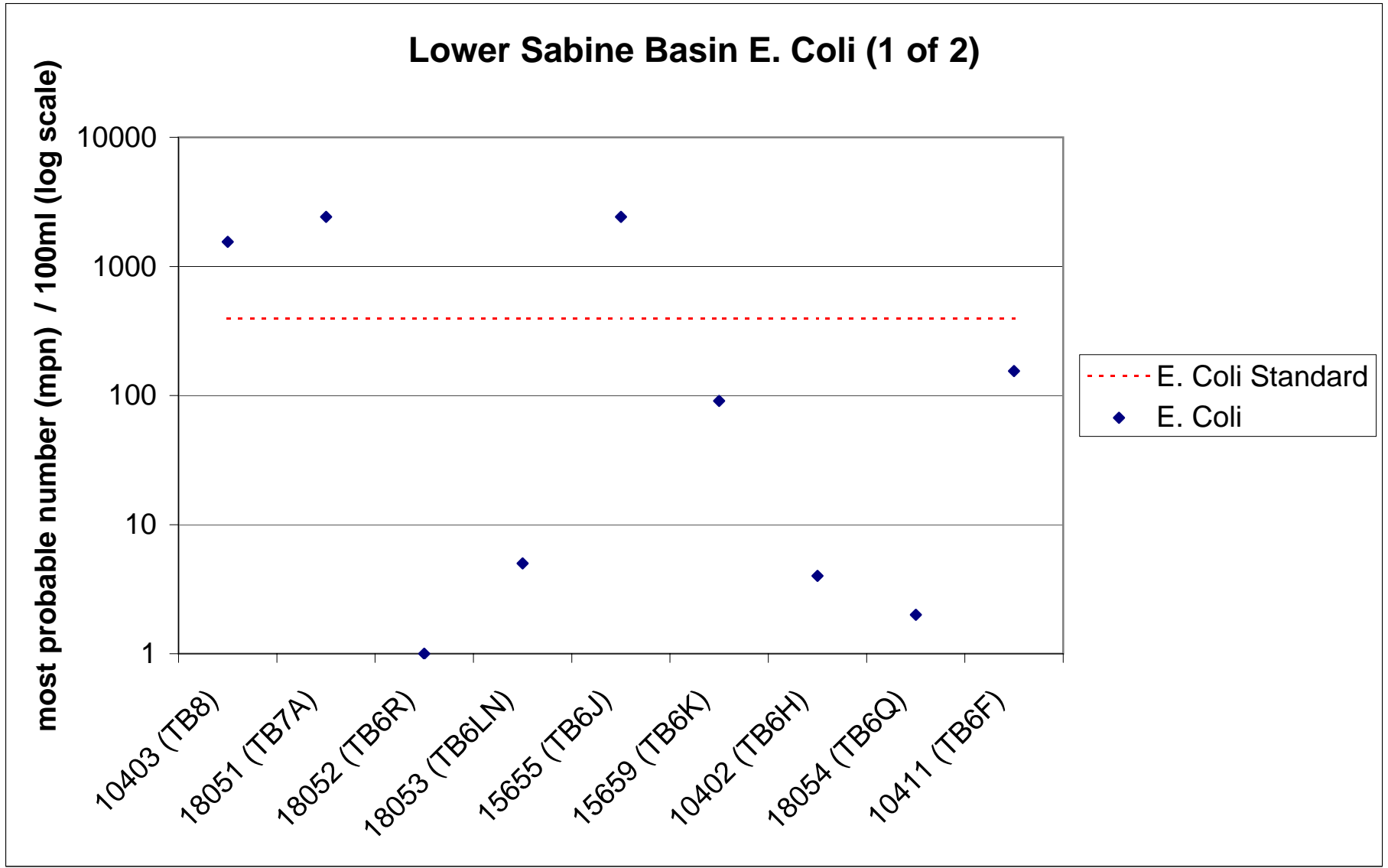
February 2005

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



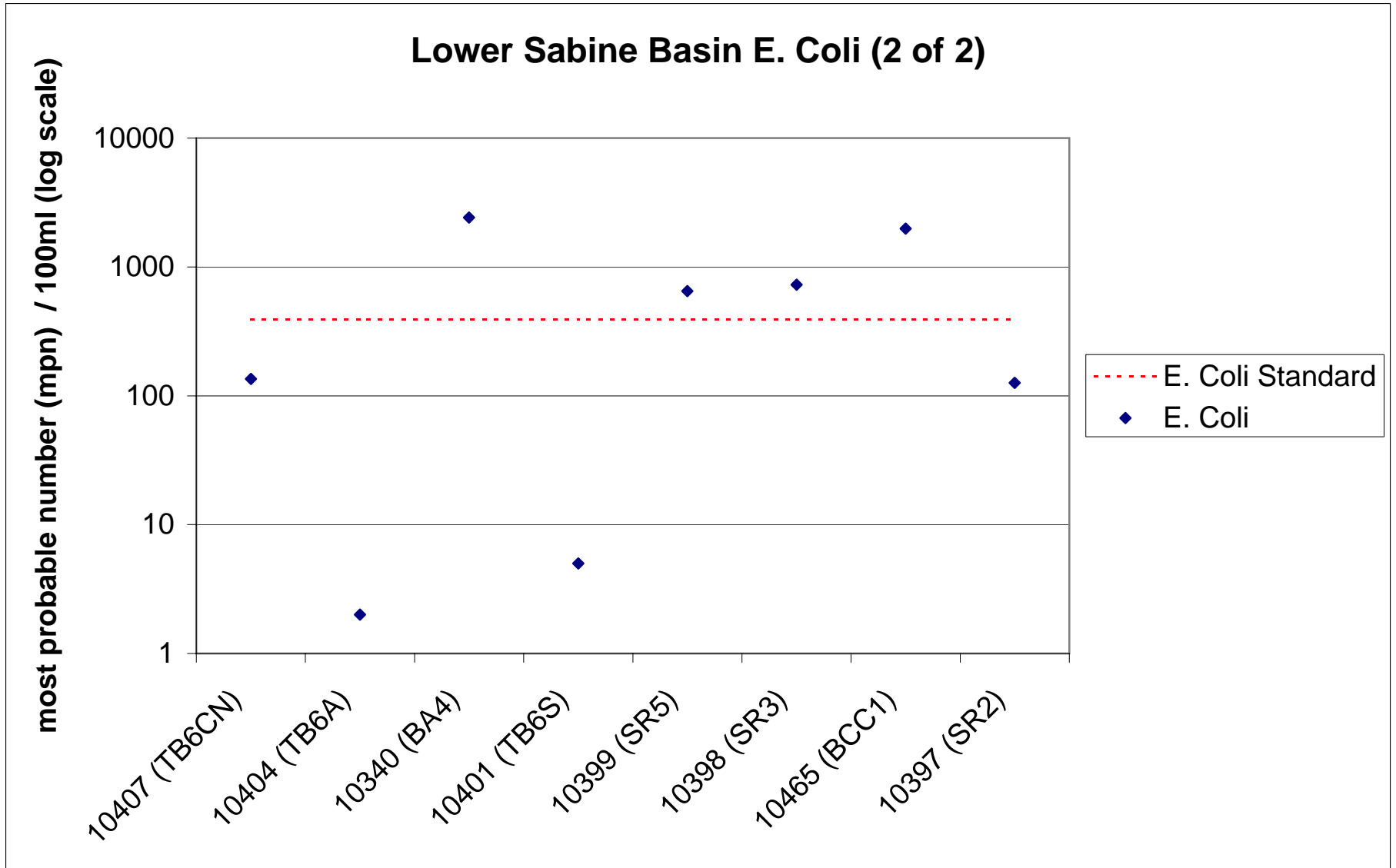
SABINE RIVER AUTHORITY OF TEXAS

February 2005



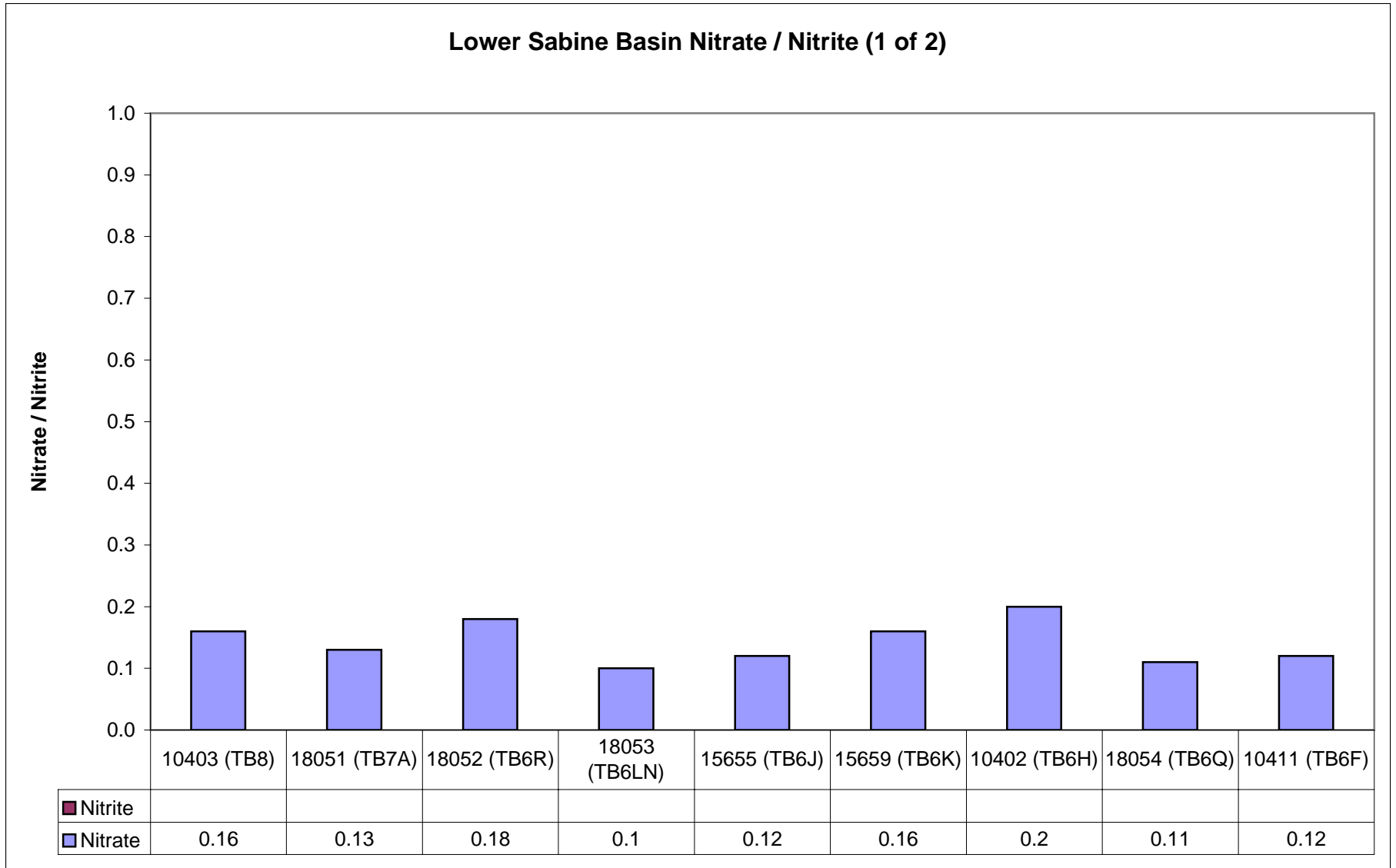
SABINE RIVER AUTHORITY OF TEXAS

February 2005



SABINE RIVER AUTHORITY OF TEXAS

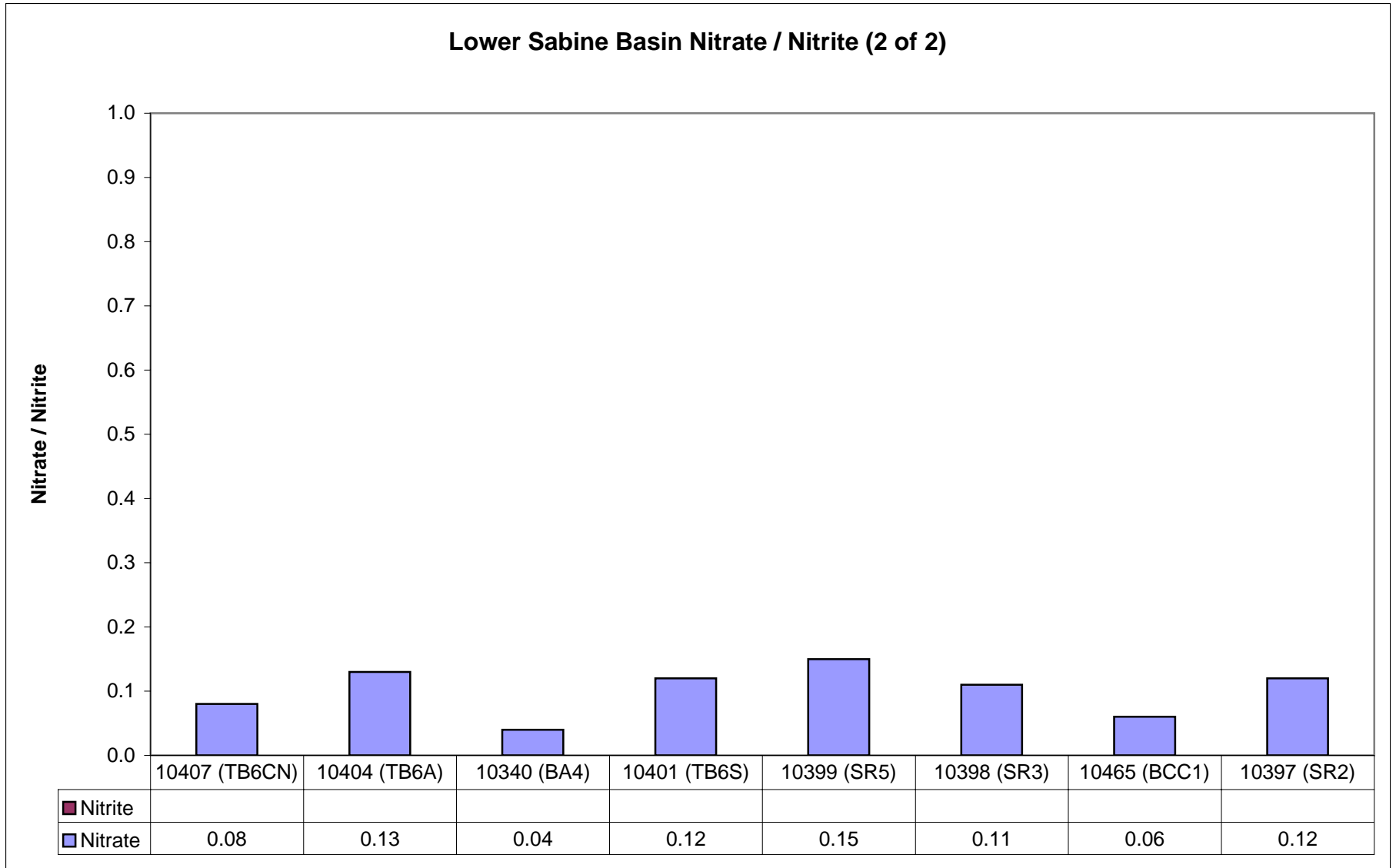
February 2005



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

SABINE RIVER AUTHORITY OF TEXAS

February 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

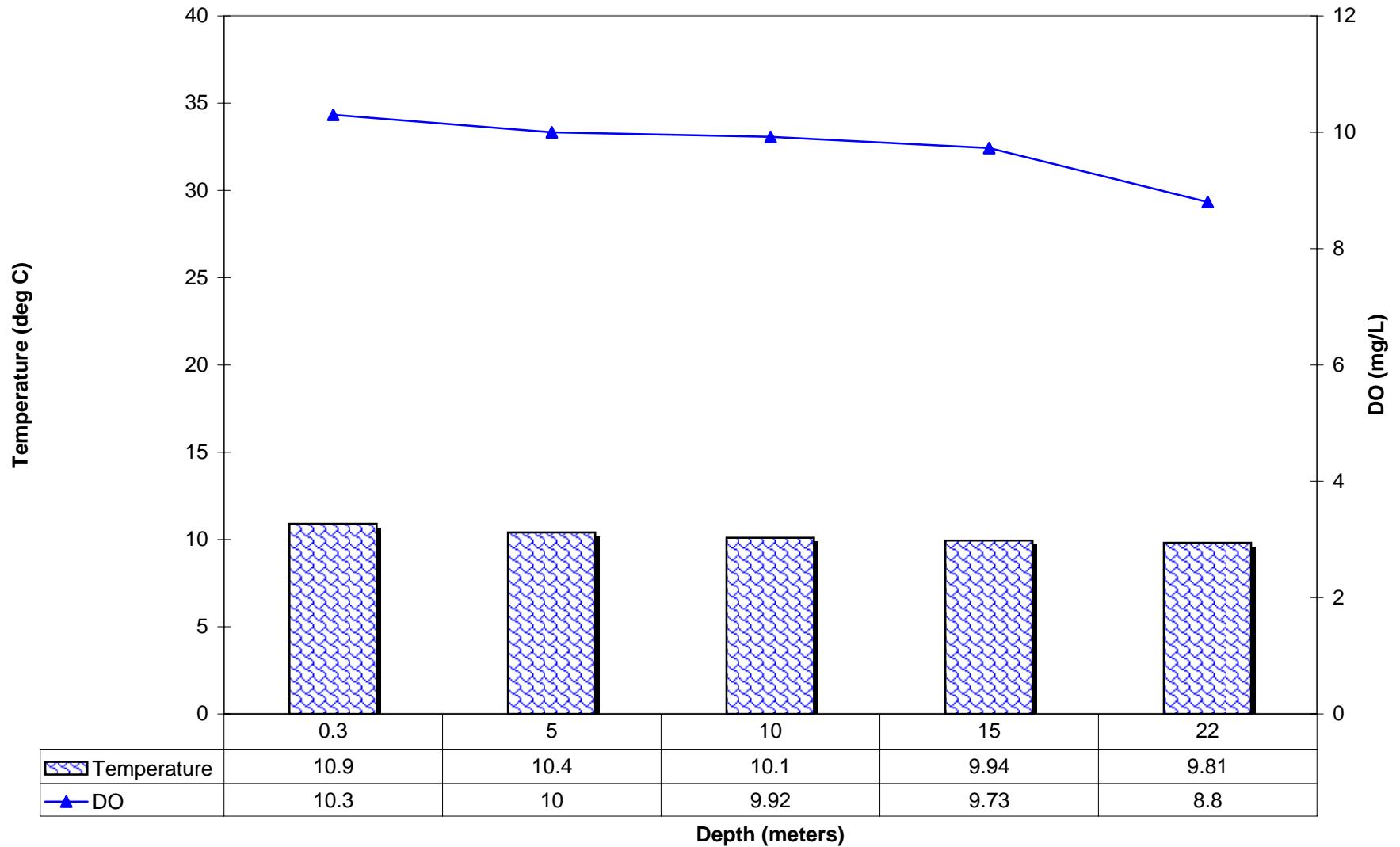
February 2005

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
2/9/05 10:50 AM	4.00	10403 (TB8)	0.3	12.2	6.86	8.69	82	173
			4.6	12.2	6.86	8.68	82	173
			7.3	12.2	6.86	8.66	82	173
2/9/05 11:31 AM	4.00	18051 (TB7A)	0.3	12.6	6.76	8.56	81	137
			5.5	12.6	6.76	8.56	81	137
			8.1	12.6	6.77	8.58	82	136
2/7/05 9:55 AM	4.00	18052 (TB6R)	0.3	10	7.29	10.5	94	187
			5	9.62	7.29	10.4	92	198
			10	9.63	7.31	10.3	91	198
			13.3	9.86	7.22	10.4	91	201
2/7/05 12:05 PM	4.00	18053 (TB6LN)	0.3	10.8	7.14	10.3	93	118
			2.5	10.8	7.18	10.3	93	119
			5.3	10.1	7.31	9.82	87	126
2/8/05 10:25 AM	4.00	15655 (TB6J)	0.3	12.7	6.87	8.9	84	112
			2	12	6.7	9.22	86	145
			4	10.7	6.95	9.69	87	180
2/8/05 12:10 PM	4.00	15659 (TB6K)	0.3	12.1	6.98	10.6	98	132
			4	11	7.02	9.95	90	139
			8.7	10.7	7.14	10	90	139
2/8/05 11:05 AM	4.00	10402 (TB6H)	0.3	10.9	7.08	10.3	93	129
			5	10.4	7.05	10	90	130
			10	10.1	7.02	9.92	88	129
			15	9.94	6.99	9.73	86	129
			22	9.81	6.95	8.8	78	130
2/7/05 12:50 PM	4.00	18054 (TB6Q)	0.3	11.2	7.21	10.1	93	140
			4	10.8	7.23	9.58	87	141
			8.7	11.7	7.34	9.5	85	141
2/8/05 10:45 AM	4.00	10411 (TB6F)	0.3	11.4	6.93	10.3	94	87
			2	11.2	6.98	10.1	92	87
			4.6	10.7	7.05	10.4	92	88
2/8/05 9:48 AM	4.00	10407 (TB6CN)	0.3	12.1	6.47	9.93	93	98
			3	11.7	6.45	9.67	89	100
			6.4	10.6	6.6	8.91	79	102
2/7/05 1:50 PM	4.00	10404 (TB6A)	0.3	10.9	7.39	10.5	95	133
			5	10.8	7.41	10.3	94	133
			8	10.6	7.4	10.1	91	136

SABINE RIVER AUTHORITY OF TEXAS

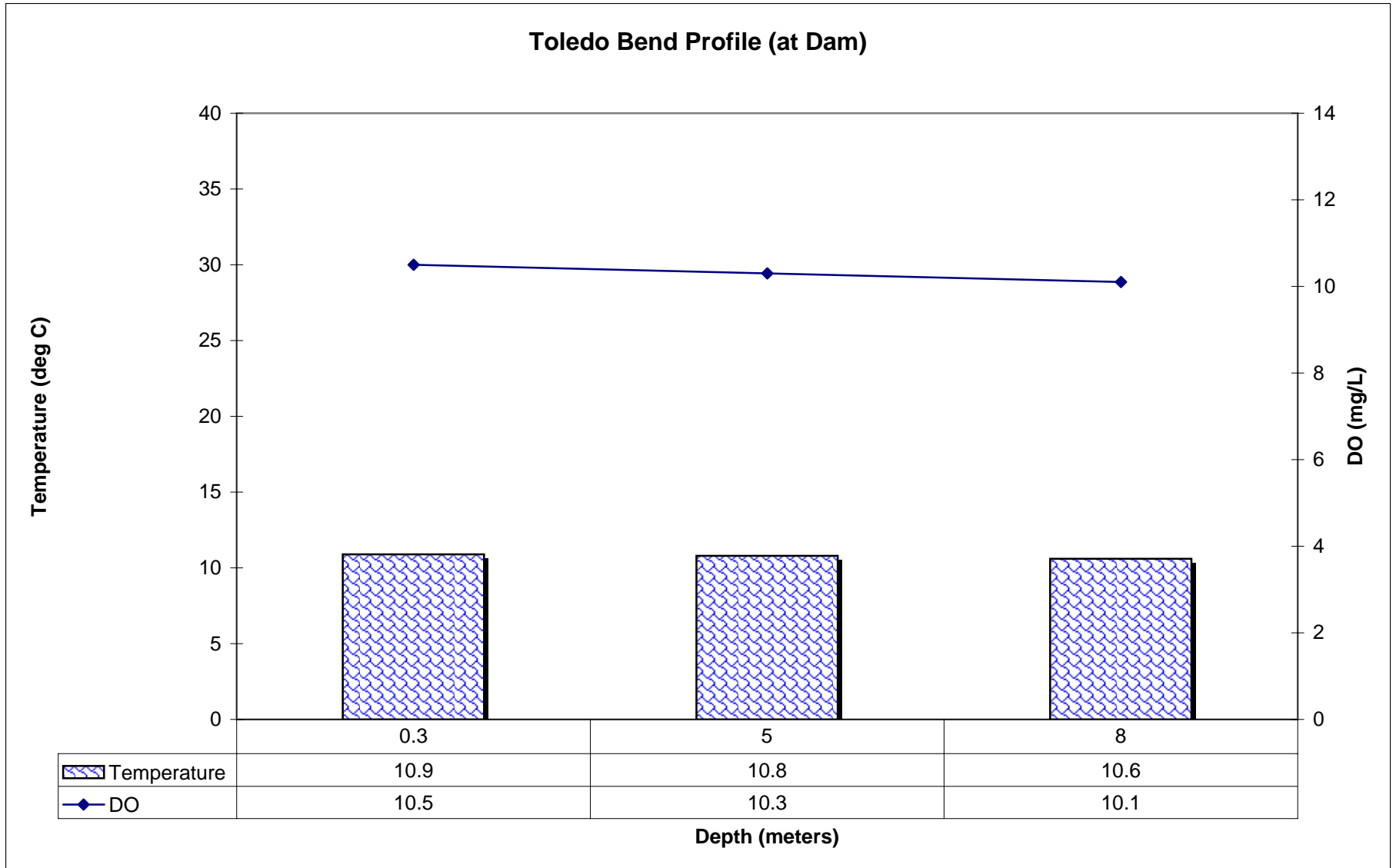
February 2005

Toledo Bend Profile (at Pendleton Bridge)



SABINE RIVER AUTHORITY OF TEXAS

February 2005



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

February 2005

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
2/1/2005	169.08	(2.92)	45	39	0.50	0.05	7,524	14,924	7,574
2/2/2005	169.23	(2.77)	44	40	1.00	0.08	7,624	15,122	7,524
2/3/2005	169.30	(2.70)	45	41	0.00	0.04	7,499	14,874	7,524
2/4/2005	169.33	(2.67)	45	39	0.00	0.02	15,113	29,976	7,474
2/5/2005	169.25	(2.75)	51	36	0.00	0.08	15,259	30,266	15,344
2/6/2005	169.14	(2.86)	60	36	0.00	0.11	15,159	30,067	15,174
2/7/2005	169.40	(2.60)	68	52	0.00	0.09	5,197	10,308	15,144
2/8/2005	169.76	(2.24)	62	51	1.06	0.00	10,423	20,674	204
2/9/2005	170.24	(1.76)	62	52	1.60	0.00	15,204	30,157	15,279
2/10/2005	170.47	(1.53)	55	35	0.00	0.11	15,095	29,940	15,169
2/11/2005	170.55	(1.45)	54	36	0.00	0.08	15,144	30,038	15,019
2/12/2005	170.57	(1.43)	58	40	0.00	0.10	15,169	30,087	15,144
2/13/2005	170.57	(1.43)	62	45	0.00	0.09	15,131	30,012	15,194
2/14/2005	170.72	(1.28)	62	52	0.84	0.00	15,007	29,766	15,069
2/15/2005	170.65	(1.35)	73	51	0.00	0.18	15,070	29,891	14,944
2/16/2005	170.65	(1.35)	75	55	0.00	0.13	15,132	30,014	15,144
2/17/2005	170.60	(1.40)	67	47	0.00	0.09	15,032	29,816	15,119
2/18/2005	170.43	(1.57)	59	45	0.00	0.14	15,044	29,839	14,944
2/19/2005	170.25	(1.75)	59	44	0.00	0.15	15,094	29,939	15,094
2/20/2005	170.11	(1.89)	66	47	0.02	0.13	15,247	30,242	15,094
2/21/2005	170.00	(2.00)	73	58	0.02	0.02	15,291	30,329	15,399
2/22/2005	169.88	(2.12)	75	63	0.00	0.08	15,319	30,385	15,244
2/23/2005	169.81	(2.19)	77	61	0.00	0.10	15,219	30,186	15,344
2/24/2005	169.87	(2.13)	66	48	0.33	0.06	15,344	30,434	15,294
2/25/2005	169.86	(2.14)	49	36	0.77	0.15	15,344	30,434	15,394
2/26/2005	169.83	(2.17)	58	35	0.00	0.12	15,319	30,385	15,394
2/27/2005	169.85	(2.15)	59	40	0.23	0.08	15,250	30,248	15,294
2/28/2005	169.82	(2.18)	50	46	0.15	0.11	15,323	30,393	15,304
Avg or Tot	169.97	(2.03)	60	45	6.52	2.39	13,842	768,746	

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.

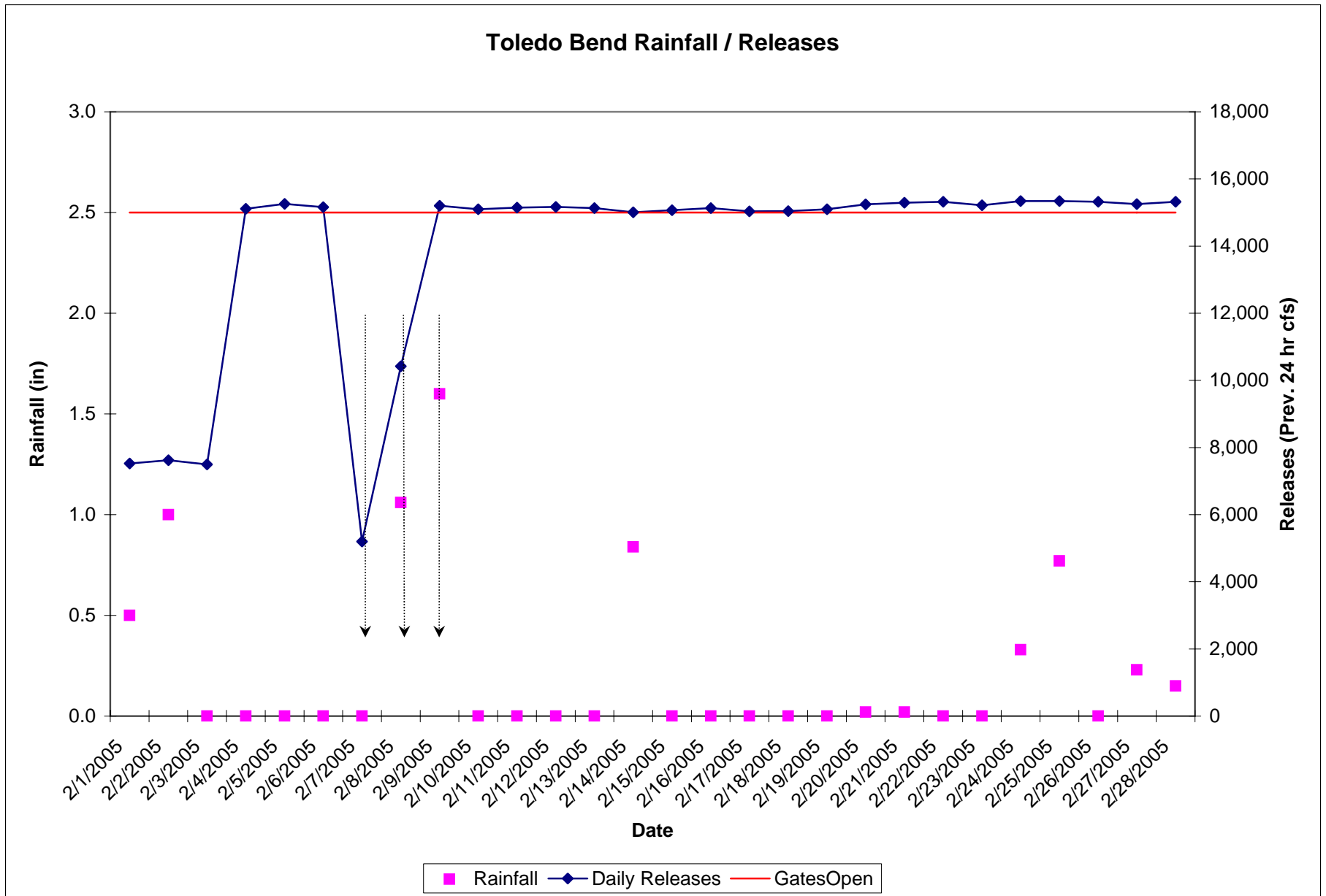
Toledo Bend Sampled on 2/7,8,9/2005

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 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

February 2005



Toledo Bend sampled on 2/7,8,9/2005

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

SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

February 2005

Date	Rainfall	Gauge Height	GH - FS	Flow
2/1/2005	OUT	20.60	(17.40)	8,080
2/2/2005	OUT	21.23	(16.77)	8,990
2/3/2005	OUT	21.06	(16.94)	8,730
2/4/2005	OUT	21.65	(16.35)	9,720
2/5/2005	OUT	25.16	(12.84)	15,700
2/6/2005	OUT	25.47	(12.53)	16,200
2/7/2005	OUT	22.43	(15.57)	11,300
2/8/2005	OUT	20.00	(18.00)	8,030
2/9/2005	OUT	27.20	(10.80)	19,500
2/10/2005	OUT	27.28	(10.72)	19,600
2/11/2005	OUT	26.48	(11.52)	18,100
2/12/2005	OUT	25.79	(12.21)	16,800
2/13/2005	OUT	25.74	(12.26)	16,700
2/14/2005	OUT	26.29	(11.71)	17,700
2/15/2005	OUT	26.10	(11.90)	17,400
2/16/2005	OUT	25.75	(12.25)	16,700
2/17/2005	OUT	25.60	(12.40)	16,500
2/18/2005	OUT	25.54	(12.46)	16,400
2/19/2005	OUT	25.52	(12.48)	16,300
2/20/2005	OUT	25.53	(12.47)	16,300
2/21/2005	OUT	25.55	(12.45)	16,400
2/22/2005	OUT	25.57	(12.43)	16,400
2/23/2005	OUT	25.63	(12.37)	16,500
2/24/2005	OUT	26.00	(12.00)	17,200
2/25/2005	OUT	26.42	(11.58)	18,000
2/26/2005	OUT	26.09	(11.91)	17,400
2/27/2005	OUT	25.84	(12.16)	16,900
2/28/2005	OUT	25.78	(12.22)	16,800
Avg or Tot	0.00	24.90	(13.10)	15,370

	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 38 feet

Lower Sabine Basin Sampled on 2/9/2005

Gauge Height and Flow from USGS daily mean Gage height and Discharge, respectively

USGS 08026000 Sabine Rv nr Burkeville, TX

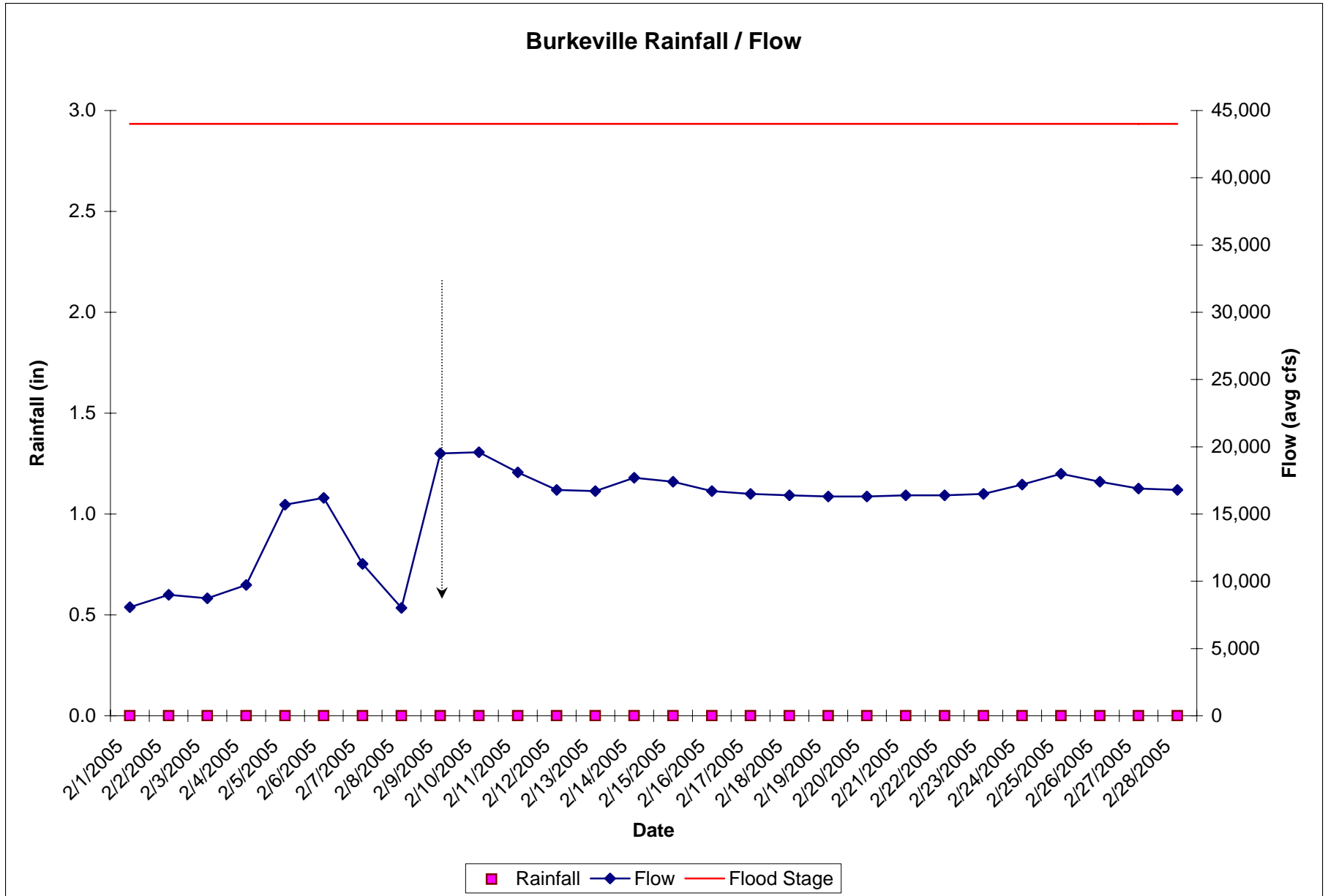
http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08026000&agency_cd=USGS

Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

February 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

February 2005

Date	Gauge Height	GH - FS	Flow Avg	308 Rainfall
2/1/2005	21.44	(8.56)	8,990	OUT
2/2/2005	22.57	(7.43)	10,700	OUT
2/3/2005	23.25	(6.75)	11,800	OUT
2/4/2005	22.70	(7.30)	10,900	OUT
2/5/2005	23.93	(6.07)	13,100	OUT
2/6/2005	25.67	(4.33)	16,300	OUT
2/7/2005	25.70	(4.30)	16,400	OUT
2/8/2005	22.41	(7.59)	10,600	OUT
2/9/2005	26.19	(3.81)	18,000	OUT
2/10/2005	30.11	0.11	27,600	OUT
2/11/2005	29.27	(0.73)	25,100	OUT
2/12/2005	28.09	(1.91)	21,900	OUT
2/13/2005	27.28	(2.72)	19,800	OUT
2/14/2005	28.33	(1.67)	22,500	OUT
2/15/2005	28.26	(1.74)	22,300	OUT
2/16/2005	27.54	(2.46)	20,400	OUT
2/17/2005	26.87	(3.13)	18,800	OUT
2/18/2005	26.45	(3.55)	17,900	OUT
2/19/2005	26.19	(3.81)	17,400	OUT
2/20/2005	26.06	(3.94)	17,100	OUT
2/21/2005	25.99	(4.01)	17,000	OUT
2/22/2005	25.96	(4.04)	16,900	OUT
2/23/2005	25.98	(4.02)	16,900	OUT
2/24/2005	26.42	(3.58)	17,900	OUT
2/25/2005	27.64	(2.36)	20,700	OUT
2/26/2005	27.74	(2.26)	20,900	OUT
2/27/2005	27.17	(2.83)	19,500	OUT
2/28/2005	26.77	(3.23)	18,600	OUT
Avg or Tot	26.14	(3.86)	17,714	0.00

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

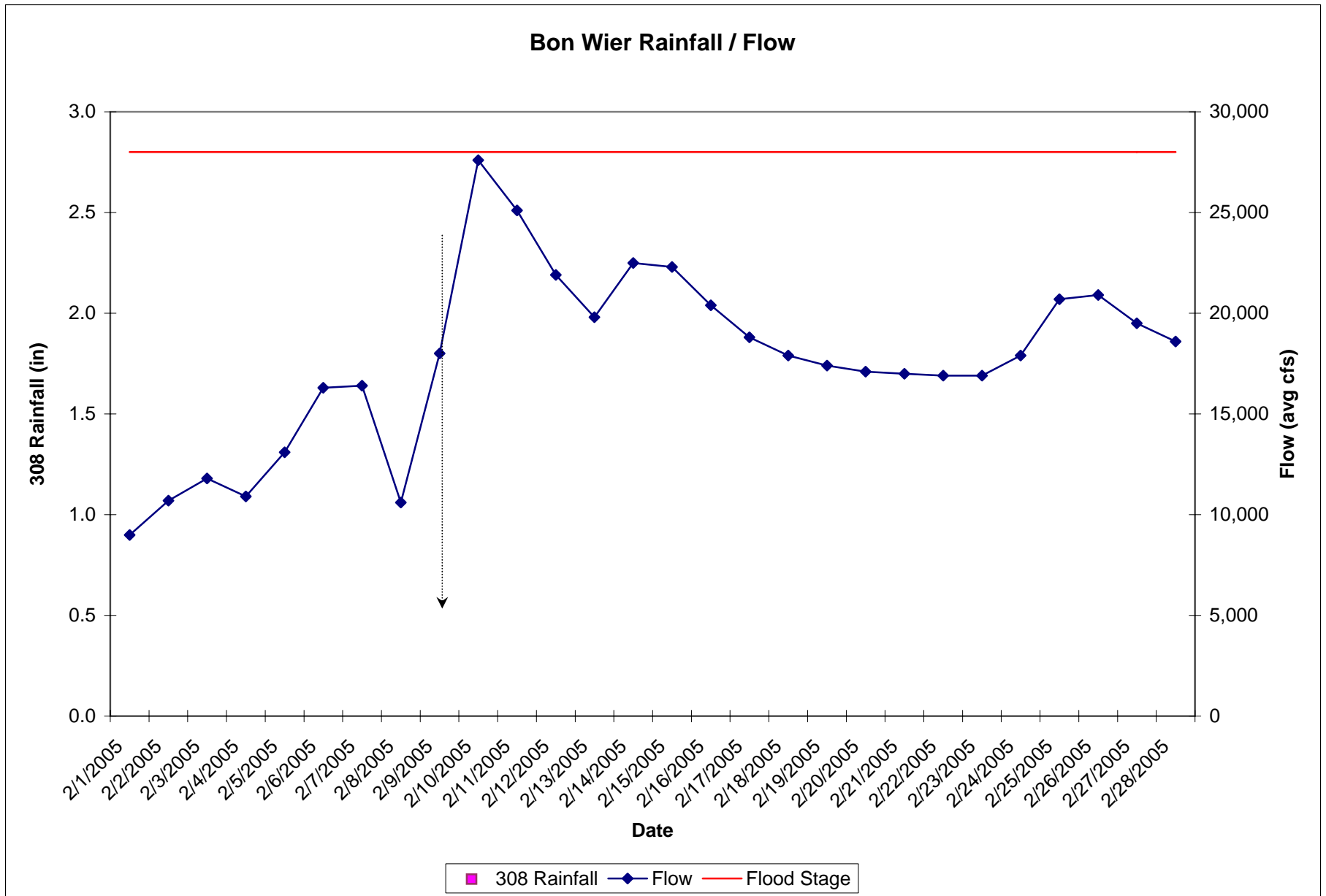
Lower Sabine Basin Sampled on 2/9/2005

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 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

February 2005



Lower Sabine Basin sampled on 2/9/2005

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

February 2005

Date	Gauge Height	GH - FS	Flow cfs	Flow acft	309 Rainfall
2/1/2005	22.91	(1.09)	10,200	20,231	OUT
2/2/2005	23.11	(0.89)	11,100	22,017	OUT
2/3/2005	23.30	(0.70)	12,100	24,000	OUT
2/4/2005	23.45	(0.55)	13,000	25,785	OUT
2/5/2005	23.54	(0.46)	13,600	26,975	OUT
2/6/2005	23.55	(0.45)	13,700	27,174	OUT
2/7/2005	23.54	(0.46)	13,600	26,975	OUT
2/8/2005	23.62	(0.38)	14,300	28,364	OUT
2/9/2005	23.78	(0.22)	15,700	31,140	OUT
2/10/2005	23.85	(0.15)	16,300	32,331	OUT
2/11/2005	23.90	(0.10)	16,800	33,322	OUT
2/12/2005	24.11	0.11	19,200	38,083	OUT
2/13/2005	24.51	0.51	24,400	48,397	OUT
2/14/2005	24.66	0.66	26,600	52,760	OUT
2/15/2005	24.48	0.48	24,100	47,802	OUT
2/16/2005	24.39	0.39	22,900	45,421	OUT
2/17/2005	24.36	0.36	22,400	44,430	OUT
2/18/2005	24.28	0.28	21,200	42,050	OUT
2/19/2005	24.15	0.15	19,600	38,876	OUT
2/20/2005	24.04	0.04	18,300	36,298	OUT
2/21/2005	23.96	(0.04)	17,400	34,512	OUT
2/22/2005	23.90	(0.10)	16,800	33,322	OUT
2/23/2005	23.87	(0.13)	16,600	32,926	OUT
2/24/2005	23.94	(0.06)	17,200	34,116	OUT
2/25/2005	23.99	(0.01)	17,800	35,306	OUT
2/26/2005	24.01	0.01	17,900	35,504	OUT
2/27/2005	24.05	0.05	18,400	36,496	OUT
2/28/2005	24.09	0.09	18,900	37,488	OUT
Avg or Tot	23.91	(0.09)	17,504	972,099	OUT

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

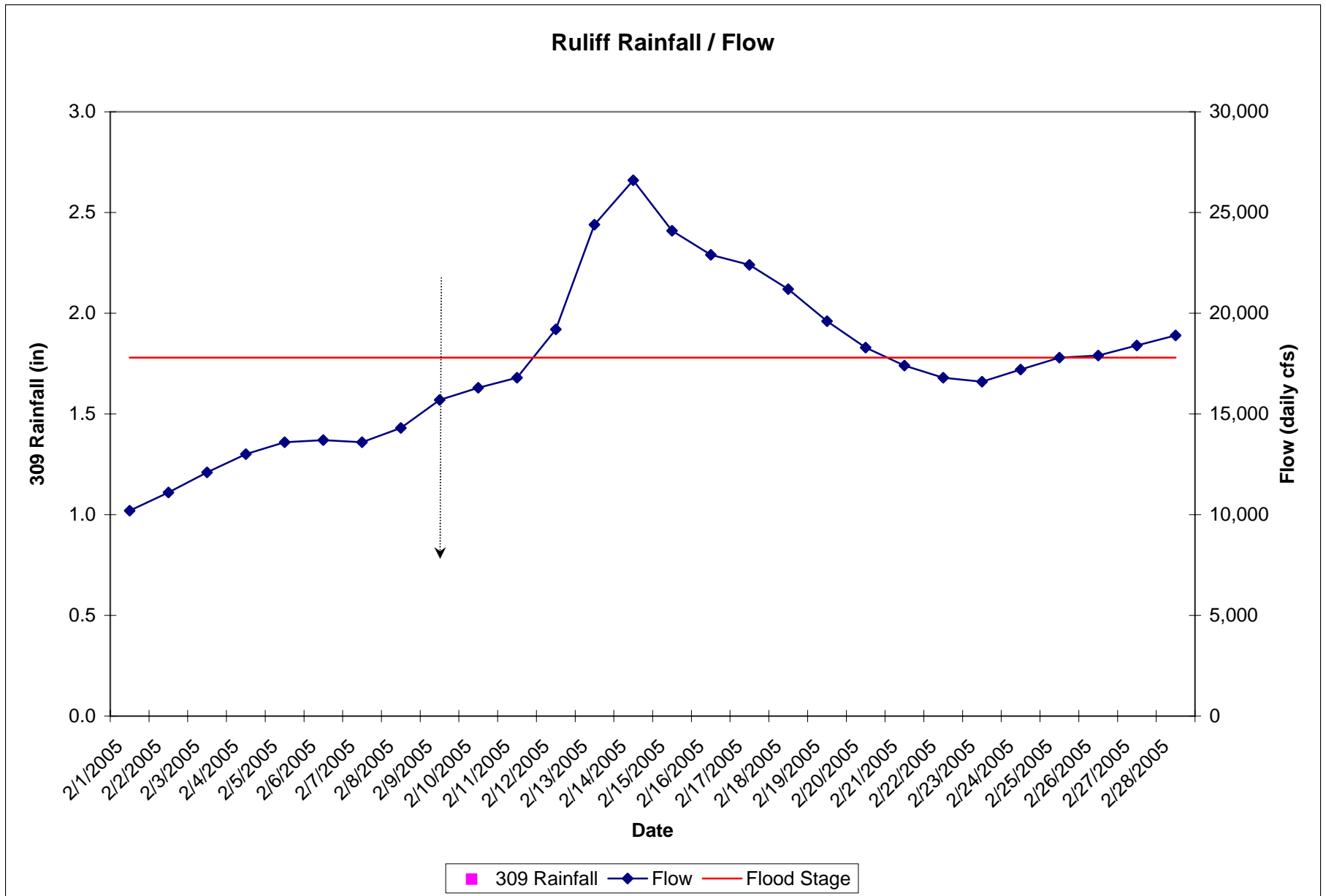
Lower Sabine Basin Sampled on 2/9/2005

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 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

February 2005



Lower Sabine Basin sampled on 2/9/2005

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

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Tidal Report

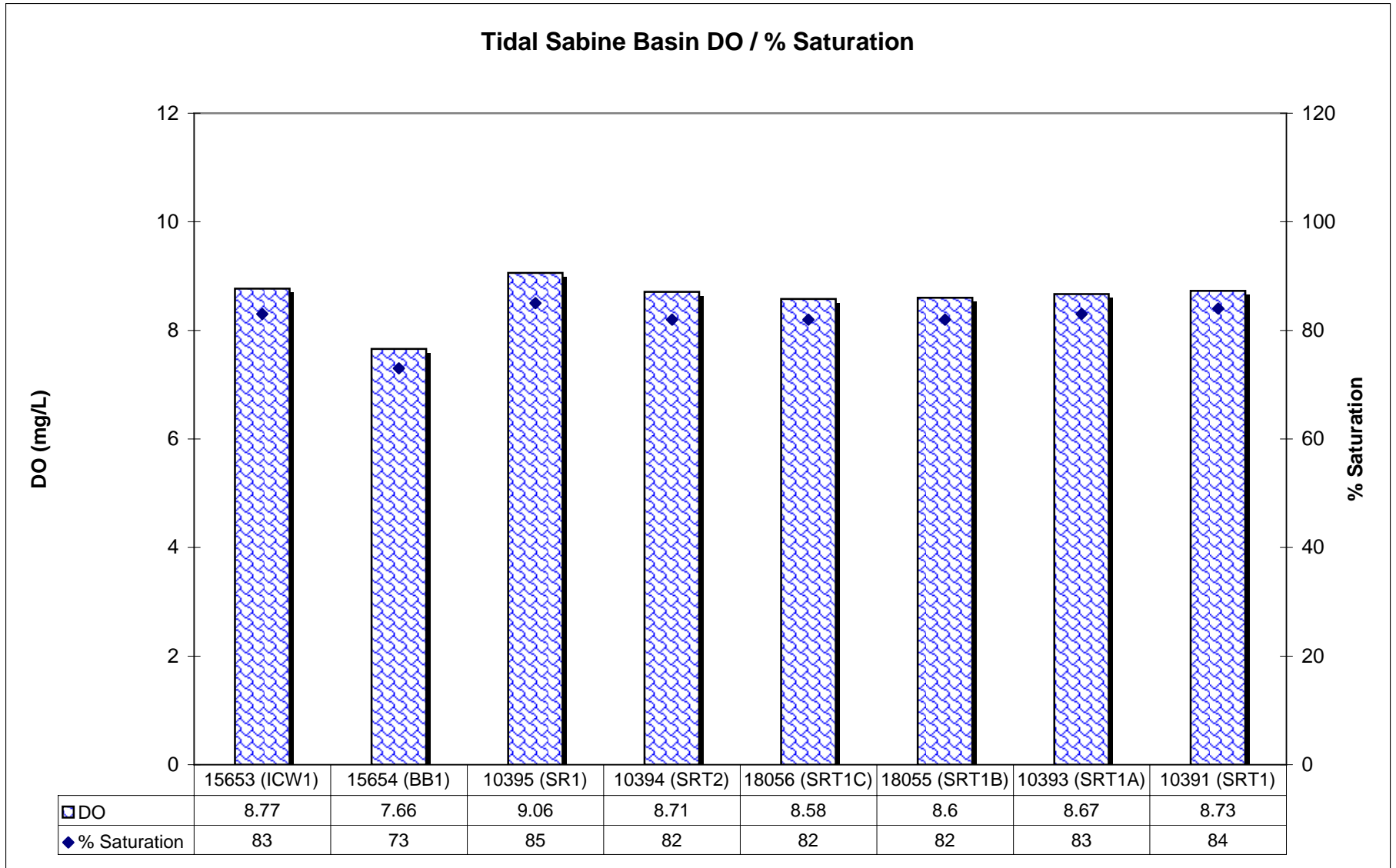
February 2005

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
2/10/05 11:00 AM	1.05	15653 (ICW1)	13.5	6.91	8.77	83	237	< 1	0.38	17.5	128	17	*	< 0.02	0.06	< 0.04	8	*	*
2/10/05 11:50 AM	1.01	15654 (BB1)	13	6.79	7.66	73	2760	1	0.55	8.33	73	41	*	< 0.02	0.02	< 0.04	8	*	*
2/10/05 9:20 AM	1.00	10395 (SR1)	12.5	6.69	9.06	85	138	*	0.31	20.6	517	*	*	< 0.02	0.07	< 0.04	9	*	*
2/10/05 10:02 AM	1.00	10394 (SRT2)	12.8	6.81	8.71	82	135	< 1	0.37	17.6	461	461	*	< 0.02	0.06	< 0.04	8	*	*
2/10/05 10:30 AM	1.00	18056 (SRT1C)	13.1	6.83	8.58	82	137	< 1	0.44	17.3	345	153	*	< 0.02	0.06	< 0.04	8	*	*
2/10/05 11:17 AM	1.00	18055 (SRT1B)	13.5	6.86	8.6	82	146	< 1	0.34	17.8	435	166	*	< 0.02	0.06	< 0.04	8	*	*
2/10/05 11:37 AM	1.00	10393 (SRT1A)	13.6	6.89	8.67	83	193	< 1	0.36	18.3	308	260	*	< 0.02	0.06	< 0.04	8	*	*
2/10/05 12:15 PM	1.00	10391 (SRT1)	13.6	6.95	8.73	84	177	< 1	0.34	21.8	387	435	*	< 0.02	0.06	< 0.04	8	*	*

*: Not sampled on this run

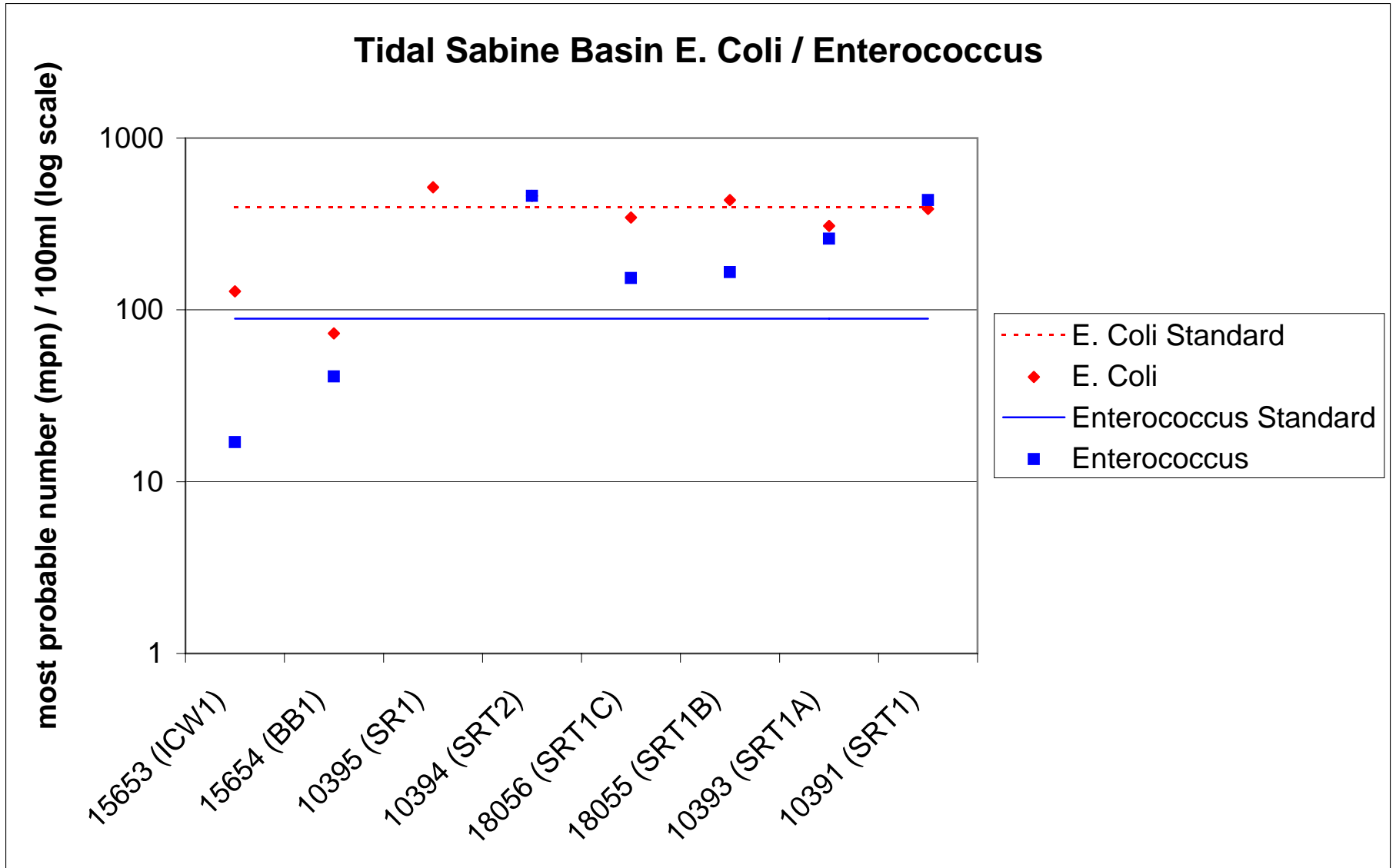
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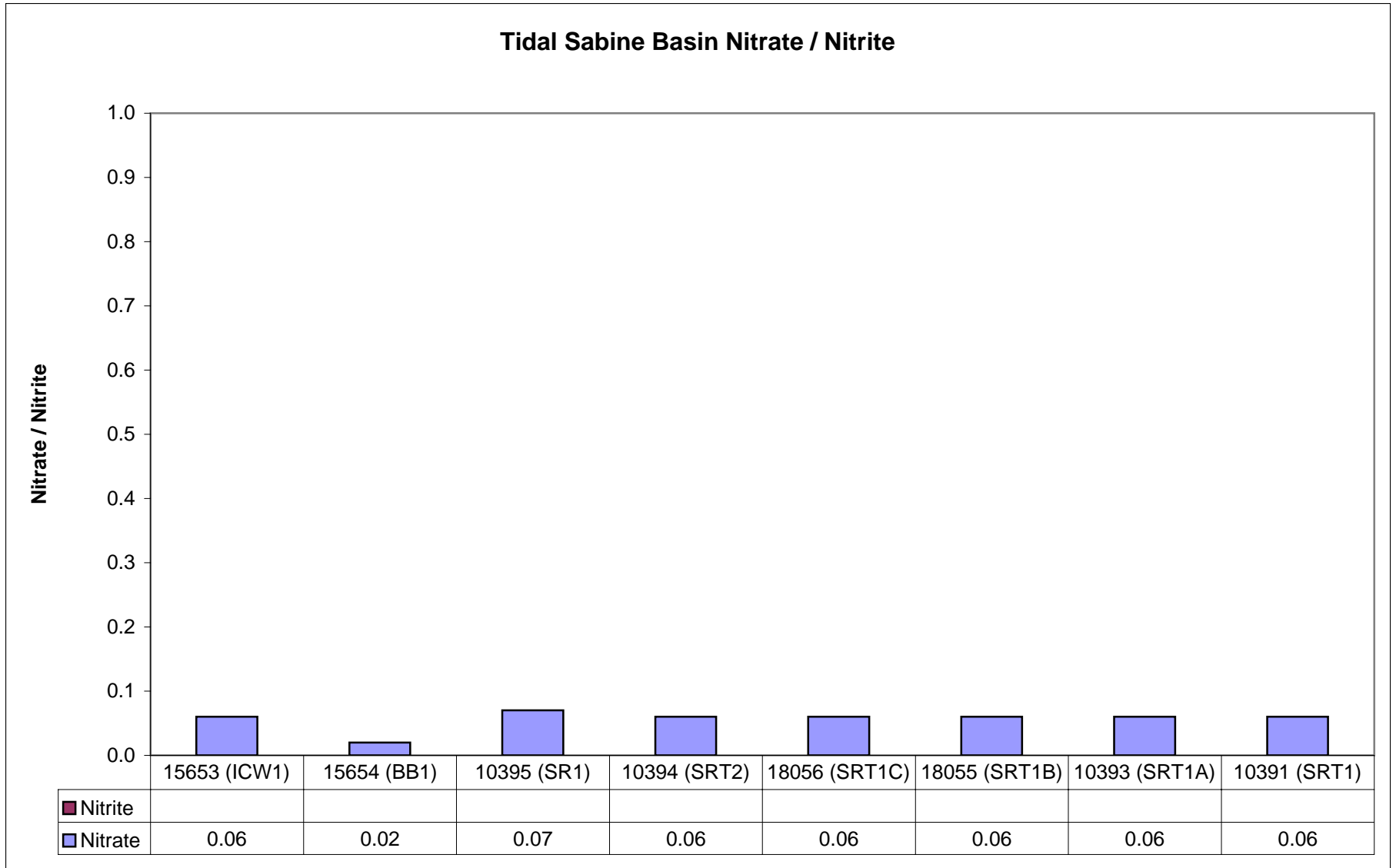
February 2005



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

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

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Tidal Profiles

February 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
2/10/05 11:00 AM	1.05	15653 (ICW1)	0.3	13.5	6.91	8.77	83	237	< 1
			6.1	13.4	6.79	9.16	87	237	< 1
2/10/05 11:50 AM	1.01	15654 (BB1)	0.3	13	6.79	7.66	73	2760	1
			2	13.1	6.75	7.56	72	2820	2
			4.2	13.1	6.74	7.62	73	2820	2
2/10/05 10:02 AM	1.00	10394 (SRT2)	0.3	12.8	6.81	8.71	82	135	< 1
			4	12.8	6.73	9.04	85	134	< 1
			8	12.8	6.62	9.04	84	137	< 1
2/10/05 10:30 AM	1.00	18056 (SRT1C)	0.3	13.1	6.83	8.58	82	137	< 1
			5	13.1	6.73	8.8	82	137	< 1
			11.4	13.1	6.61	8.73	83	137	< 1
2/10/05 11:17 AM	1.00	18055 (SRT1B)	0.3	13.5	6.86	8.6	82	146	< 1
			4	13.5	6.79	8.86	83	148	< 1
			8.4	13.5	6.67	8.77	83	145	< 1
2/10/05 11:37 AM	1.00	10393 (SRT1A)	0.3	13.6	6.89	8.67	83	193	< 1
			4	13.5	6.82	8.8	84	192	< 1
			7.3	13.5	6.73	9.05	84	221	< 1
2/10/05 12:15 PM	1.00	10391 (SRT1)	0.3	13.6	6.95	8.73	84	177	< 1
			9.6	13.6	6.76	8.72	84	176	< 1

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Orange Weather and River Data

February 2005

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
2/1/2005	OUT	OUT	OUT	48	44	44	0.73
2/2/2005	OUT	OUT	OUT	46	43	43	0.55
2/3/2005	OUT	OUT	OUT	47	43	45	0.04
2/4/2005	OUT	OUT	OUT	48	43	43	0.02
2/5/2005	OUT	OUT	OUT	58	40	42	0.00
2/6/2005	OUT	OUT	OUT	61	42	57	0.00
2/7/2005	OUT	OUT	OUT	67	57	60	0.00
2/8/2005	OUT	OUT	OUT	71	54	57	0.62
2/9/2005	OUT	OUT	OUT	68	57	65	0.65
2/10/2005	OUT	OUT	OUT	66	42	42	0.00
2/11/2005	OUT	OUT	OUT	59	40	41	0.00
2/12/2005	OUT	OUT	OUT	65	40	46	0.05
2/13/2005	OUT	OUT	OUT	66	45	63	0.11
2/14/2005	OUT	OUT	OUT	66	57	59	2.78
2/15/2005	OUT	OUT	OUT	78	57	58	0.01
2/16/2005	OUT	OUT	OUT	78	58	66	0.00
2/17/2005	OUT	OUT	OUT	80	55	55	0.00
2/18/2005	OUT	OUT	OUT	64	47	48	0.00
2/19/2005	OUT	OUT	OUT	62	47	49	0.00
2/20/2005	OUT	OUT	OUT	67	43	64	0.06
2/21/2005	OUT	OUT	OUT	74	64	69	0.00
2/22/2005	OUT	OUT	OUT	79	66	66	0.00
2/23/2005	OUT	OUT	OUT	76	66	66	0.00
2/24/2005	OUT	OUT	OUT	70	55	55	0.75
2/25/2005	OUT	OUT	OUT	56	44	44	1.05
2/26/2005	OUT	OUT	OUT	63	46	46	0.02
2/27/2005	OUT	OUT	OUT	58	42	50	0.14
2/28/2005	OUT	OUT	OUT	55	46	47	0.11
Avg or Tot	OUT	OUT	OUT	64	49	53	7.69

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

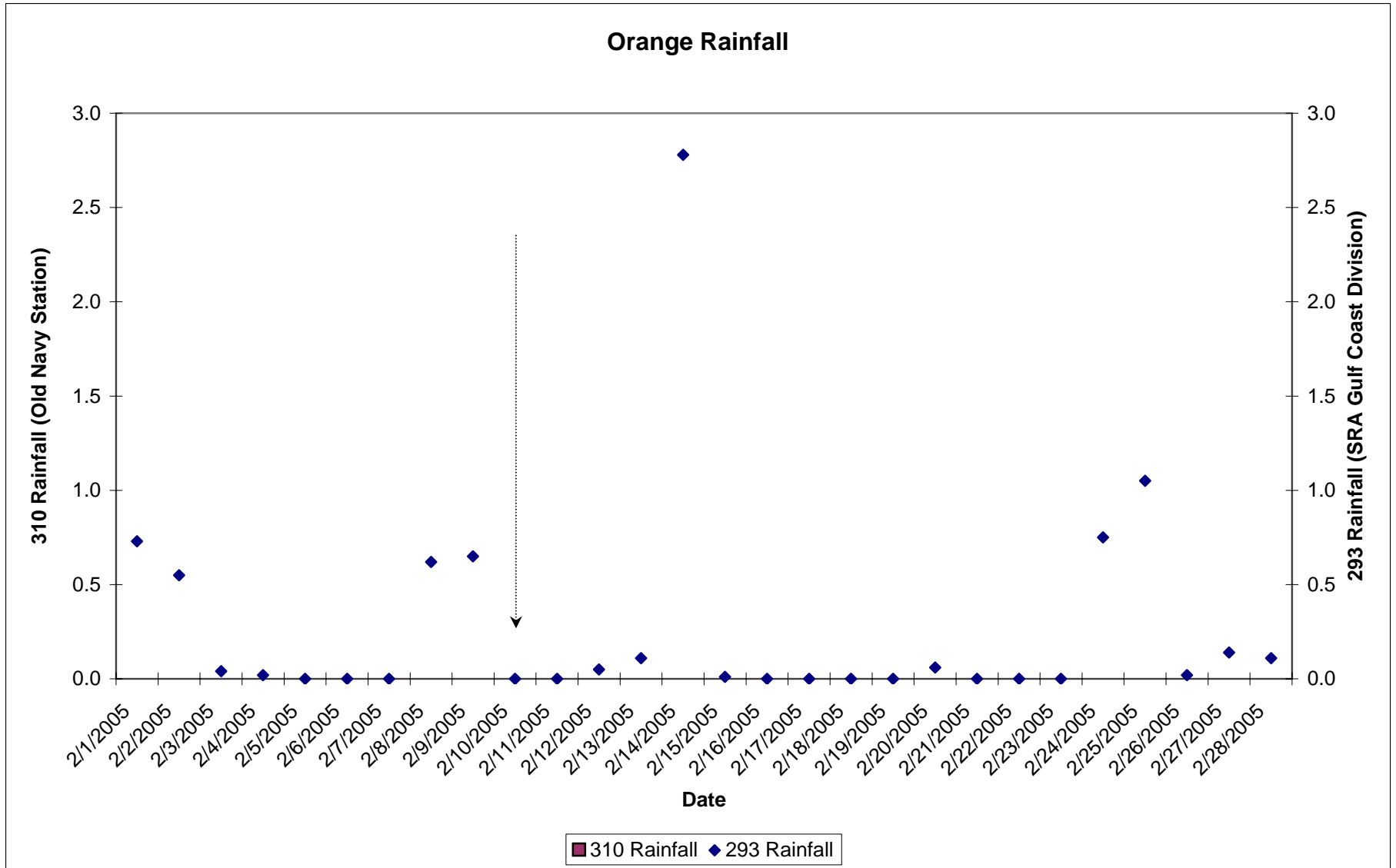
FS: Flood Stage = 4 Feet

OUT: Gage Out

Tidal Sabine Basin Sampled on 2/10/2005

SABINE RIVER AUTHORITY OF TEXAS

February 2005



Tidal Sabine Basin Sampled on 2/10/2005