

Bayou Texar South-1 (Escambia County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 30°25'40", Longitude 87°11'24"

Period of record: 9 sampling dates; June 3, 2000 to July 27, 2001

Geologic formation (Brooks 1981a):

The geology is dominated by fine sand and silt with lenses of gravel and clay of the Apalachicola paleo-cusplate delta and alluvial plain

Physiographic region (Brooks 1981b):

The station lies in the Coastal Strip division of the Southern Pine Hills District

Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 3 sampling dates:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	8	11	15
Long-term specific conductance (mmhos)	8	14	18

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 9 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	8	31	84
Long-term total nitrogen concentrations (µg/L)	180	481	840
Long-term total chlorophyll concentrations (µg/L)	1.0	7.0	18.0
Long-term Secchi depth (ft)	0.7	3.0	4.5

2001 Florida LAKEWATCH Data

Numbers reported below are monthly averages calculated from 1 station for total phosphorus (TP, µg/L), total nitrogen (TN, µg/L), chlorophyll (CHL, µg/L) and Secchi depth (SECCHI, ft) during 2001:

<u>Date</u>	<u>TP (µg/L)</u>	<u>TN (µg/L)</u>	<u>CHL (µg/L)</u>	<u>SECCHI (ft)</u>
Jan-28	8	180	2.0	2.5
Mar-17	18	390	1.0	0.7
Jul-27	30	400	18.0	3.0
2001 Average	19	323	7.0	2.1

Bayou Texar South-2 (Escambia County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 30°25'25", Longitude 87°11'13"

Period of record: 9 sampling dates; June 3, 2000 to July 27, 2001

Geologic formation (Brooks 1981a):

The geology is dominated by fine sand and silt with lenses of gravel and clay of the Apalachicola paleo-cusate delta and alluvial plain

Physiographic region (Brooks 1981b):

The station lies in the Coastal Strip division of the Southern Pine Hills District

Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 3 sampling dates:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	12	19	31
Long-term specific conductance (mmhos)	8	15	24

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 9 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	12	34	83
Long-term total nitrogen concentrations (µg/L)	190	463	690
Long-term total chlorophyll concentrations (µg/L)	1.0	14.5	66.0
Long-term Secchi depth (ft)	0.3	2.9	5.0

2001 Florida LAKEWATCH Data

Numbers reported below are monthly averages calculated from 1 station for total phosphorus (TP, µg/L), total nitrogen (TN, µg/L), chlorophyll (CHL, µg/L) and Secchi depth (SECCHI, ft) during 2001:

<u>Date</u>	<u>TP (µg/L)</u>	<u>TN (µg/L)</u>	<u>CHL (µg/L)</u>	<u>SECCHI (ft)</u>
Jan-28	12	190	3.0	2.0
Mar-17	23	490	66.0	0.3
Jul-27	36	540	18.0	3.3
2001 Average	24	407	29.0	1.9

Carpenters Creek-1 (Escambia County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 30°29'3", Longitude 87°13'18"

Period of record: 15 sampling dates; June 3, 2000 to September 14, 2001

Geologic formation (Brooks 1981a):

The geology is dominated by undifferentiated sand with humate zones and concentrations of heavy minerals of the Pliocene

Physiographic region (Brooks 1981b):

The lake lies in the Escambia Terraced Lands division of the Southern Pine Hills District

Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 1 sampling date:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	12	12	12

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 15 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	5	26	105
Long-term total nitrogen concentrations (µg/L)	280	533	1300
Long-term total chlorophyll concentrations (µg/L)	1.0	20.3	139.0
Long-term Secchi depth (ft)	1.0	1.7	2.0

2001 Florida LAKEWATCH Data

Numbers reported below are monthly averages calculated from 1 station for total phosphorus (TP, µg/L), total nitrogen (TN, µg/L), chlorophyll (CHL, µg/L) and Secchi depth (SECCHI, ft) during 2001:

<u>Date</u>	<u>TP (µg/L)</u>	<u>TN (µg/L)</u>	<u>CHL (µg/L)</u>	<u>SECCHI (ft)</u>
Jan-28	5	360	1.0	.
Feb-26	20	430	3.0	.
Mar-30	10	290	3.0	.
Apr-27	13	310	1.0	.
Jun-17	19	540	3.0	.
Jul-29	18	720	4.0	2.0
Aug-28	16	550	2.0	1.0
Sep-14	22	430	1.0	2.0
2001 Average	15	454	2.3	1.7

Carpenters Creek-2 (Escambia County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 30°28'54", Longitude 87°13'14"

Period of record: 15 sampling dates; June 3, 2000 to September 14, 2001

Geologic formation (Brooks 1981a):

The geology is dominated by undifferentiated sand with humate zones and concentrations of heavy minerals of the Pliocene

Physiographic region (Brooks 1981b):

The lake lies in the Escambia Terraced Lands division of the Southern Pine Hills District

Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 1 sampling date:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	10	10	10

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 15 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	6	20	90
Long-term total nitrogen concentrations (µg/L)	280	525	1940
Long-term total chlorophyll concentrations (µg/L)	0.0	3.4	21.0
Long-term Secchi depth (ft)	1.0	1.0	1.0

2001 Florida LAKEWATCH Data

Numbers reported below are monthly averages calculated from 1 station for total phosphorus (TP, µg/L), total nitrogen (TN, µg/L), chlorophyll (CHL, µg/L) and Secchi depth (SECCHI, ft) during 2001:

<u>Date</u>	<u>TP (µg/L)</u>	<u>TN (µg/L)</u>	<u>CHL (µg/L)</u>	<u>SECCHI (ft)</u>
Jan-28	6	310	1.0	.
Feb-26	21	280	2.0	.
Mar-30	21	350	1.0	.
Apr-27	14	390	2.0	.
Jun-17	16	490	3.0	.
Jul-29	16	400	6.0	.
Aug-28	13	480	2.0	.
Sep-14	16	520	1.0	1.0
2001 Average	15	403	2.3	1.0

Crescent (Escambia County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 30°28'1", Longitude 87°16'24"

Period of record: 3 sampling dates; July 25, 1998 to October 18, 1998

Surface Area (Shafer et al. 1986): 85 acres

Lake Region (Griffith et al. 1997): Gulf Coast Lowlands (75-01)

Geologic formation (Brooks 1981a):

The geology is dominated by fine sand and silt with lenses of gravel and clay of the Apalachicola paleo-cusate delta and alluvial plain

Physiographic region (Brooks 1981b):

The lake lies in the Escambia Terraced Lands division of the Southern Pine Hills District

Supplemental water chemistry data

Data reported are means from 1 sampling date:

pH	6.7	Total alkalinity (mg/L as CaCO ₃)	11.0
Conductance (µS/cm @ 25 °C)	59	Color (Pt-Co units)	17
Chloride (mg/L)	8.5		

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 3 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	7	8	10
Long-term total nitrogen concentrations (µg/L)	260	320	420
Long-term total chlorophyll concentrations (µg/L)	2.7	6.8	13.0
Long-term Secchi depth (ft)	5.3	7.6	8.8

2001 Florida LAKEWATCH Data

No samples collected in 2001