LAKEWATCH Report for East Bay-1 in Santa Rosa County Estuary and Estuary Segment: Pensacola Bay Blackwater Bay Using Data Downloaded 12/9/2022

Introduction for Estuaries

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data averages and ranges and the final part are trend plots for nutrients, chlorophyll, and Secchi depth. Plots were only made for systems with five or more years of data.

The near shore Florida coastline is separated into estuary and estuary segments within the estuary. Deeper coastal waters are separated into coastal nutrient regions and coastal nutrient segments within the regions. Numeric nutrient criteria are established for all estuary segments, including criteria for total nitrogen, total phosphorus, and chlorophyll a. For open ocean coastal waters, numeric criteria are established for chlorophyll a, that is derived from satellite remote sensing techniques. For those locations without defined segments there are narrative nutrient criteria (e.g., Florida Keys Halo Zone).

The maps defining individual estuaries and coastal segments can be found at the following link: https://www.flrules.org/Gateway/reference.asp?No=Ref-05420

The individual nutrient criteria can be found at the following link: https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20 STANDARDS&ID=62-302.532

Base File Data for Estuaries: Definitions:

- County: Name of county adjacent to the system.
- Name: System name that LAKEWATCH uses for the station.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

County	Santa Rosa
Name	East Bay-1
GNIS Number	
Water Body Type	Estuary
Period of Record (years, range)	1 (2001 to 2001)
Latitude	30.5203
Longitude	-87.0283

- Total Phosphorus (µg/L): Nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10 (by mass).
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algae.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filtered out.
- Specific Conductance (μS/cm@25°C), Salinity (ppt): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 2. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance/salinity (collected quarterly).

Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus (μg/L)	6 - 6	6(1)
Total Nitrogen (µg/L)	260 - 260	260 (1)
Chlorophyll- uncorrected (µg/L)	1 - 1	1 (1)
Secchi (ft)	7.0 - 7.0	7.0 (1)
Secchi (m)	2.1 - 2.1	2.1 (1)
Color (Pt-Co Units)	8 - 8	8 (1)
Specific Conductance (µS/cm@25 C)	8000 - 8000	8000 (1)
Salinity (ppt)	5 - 5	5 (1)

LAKEWATCH Report for East Bay-2 in Santa Rosa County Estuary and Estuary Segment: Pensacola Bay Blackwater Bay Using Data Downloaded 12/9/2022

Introduction for Estuaries

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data averages and ranges and the final part are trend plots for nutrients, chlorophyll, and Secchi depth. Plots were only made for systems with five or more years of data.

The near shore Florida coastline is separated into estuary and estuary segments within the estuary. Deeper coastal waters are separated into coastal nutrient regions and coastal nutrient segments within the regions. Numeric nutrient criteria are established for all estuary segments, including criteria for total nitrogen, total phosphorus, and chlorophyll a. For open ocean coastal waters, numeric criteria are established for chlorophyll a, that is derived from satellite remote sensing techniques. For those locations without defined segments there are narrative nutrient criteria (e.g., Florida Keys Halo Zone).

The maps defining individual estuaries and coastal segments can be found at the following link: https://www.flrules.org/Gateway/reference.asp?No=Ref-05420

The individual nutrient criteria can be found at the following link: https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20 STANDARDS&ID=62-302.532

Base File Data for Estuaries: Definitions:

- County: Name of county adjacent to the system.
- Name: System name that LAKEWATCH uses for the station.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

County	Santa Rosa
Name	East Bay-2
GNIS Number	
Water Body Type	Estuary
Period of Record (years, range)	1 (2001 to 2001)
Latitude	30.5072
Longitude	-87.0314

- Total Phosphorus (µg/L): Nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10 (by mass).
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algae.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filtered out.
- Specific Conductance (μS/cm@25°C), Salinity (ppt): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 2. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance/salinity (collected quarterly).

Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus (μg/L)	4 - 4	4(1)
Total Nitrogen (μg/L)	200 - 200	200 (1)
Chlorophyll- uncorrected (µg/L)	2 - 2	2 (1)
Secchi (ft)	6.5 - 6.5	6.5 (1)
Secchi (m)	2.0 - 2.0	2.0 (1)
Color (Pt-Co Units)	6 - 6	6 (1)
Specific Conductance (µS/cm@25 C)	7000 - 7000	7000 (1)
Salinity (ppt)	4 - 4	4(1)

LAKEWATCH Report for East Bay-3 in Santa Rosa County Estuary and Estuary Segment: Pensacola Bay East Bay Using Data Downloaded 12/9/2022

Introduction for Estuaries

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data averages and ranges and the final part are trend plots for nutrients, chlorophyll, and Secchi depth. Plots were only made for systems with five or more years of data.

The near shore Florida coastline is separated into estuary and estuary segments within the estuary. Deeper coastal waters are separated into coastal nutrient regions and coastal nutrient segments within the regions. Numeric nutrient criteria are established for all estuary segments, including criteria for total nitrogen, total phosphorus, and chlorophyll a. For open ocean coastal waters, numeric criteria are established for chlorophyll a, that is derived from satellite remote sensing techniques. For those locations without defined segments there are narrative nutrient criteria (e.g., Florida Keys Halo Zone).

The maps defining individual estuaries and coastal segments can be found at the following link: https://www.flrules.org/Gateway/reference.asp?No=Ref-05420

The individual nutrient criteria can be found at the following link: https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20 STANDARDS&ID=62-302.532

Base File Data for Estuaries: Definitions:

- County: Name of county adjacent to the system.
- Name: System name that LAKEWATCH uses for the station.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

County	Santa Rosa
Name	East Bay-3
GNIS Number	
Water Body Type	Estuary
Period of Record (years, range)	1 (2001 to 2001)
Latitude	30.4950
Longitude	-87.0338

- Total Phosphorus (µg/L): Nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10 (by mass).
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algae.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filtered out.
- Specific Conductance (μS/cm@25°C), Salinity (ppt): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 2. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance/salinity (collected quarterly).

Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus (μg/L)	6 - 6	6(1)
Total Nitrogen (µg/L)	310 - 310	310(1)
Chlorophyll- uncorrected (µg/L)	2 - 2	2 (1)
Secchi (ft)	6.5 - 6.5	6.5 (1)
Secchi (m)	2.0 - 2.0	2.0(1)
Color (Pt-Co Units)	11 - 11	11 (1)
Specific Conductance (µS/cm@25 C)	17000 - 17000	17000 (1)
Salinity (ppt)	10 - 10	10(1)

LAKEWATCH Report for Santa Rosa Sound-1 in Santa Rosa County Estuary and Estuary Segment: Pensacola Bay Santa Rosa Sound Using Data Downloaded 12/9/2022

Introduction for Estuaries

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data averages and ranges and the final part are trend plots for nutrients, chlorophyll, and Secchi depth. Plots were only made for systems with five or more years of data.

The near shore Florida coastline is separated into estuary and estuary segments within the estuary. Deeper coastal waters are separated into coastal nutrient regions and coastal nutrient segments within the regions. Numeric nutrient criteria are established for all estuary segments, including criteria for total nitrogen, total phosphorus, and chlorophyll a. For open ocean coastal waters, numeric criteria are established for chlorophyll a, that is derived from satellite remote sensing techniques. For those locations without defined segments there are narrative nutrient criteria (e.g., Florida Keys Halo Zone).

The maps defining individual estuaries and coastal segments can be found at the following link: https://www.flrules.org/Gateway/reference.asp?No=Ref-05420

The individual nutrient criteria can be found at the following link: https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20 STANDARDS&ID=62-302.532

Base File Data for Estuaries: Definitions:

- County: Name of county adjacent to the system.
- Name: System name that LAKEWATCH uses for the station.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

County	Santa Rosa
Name	Santa Rosa Sound-1
GNIS Number	
Water Body Type	Estuary
Period of Record (years, range)	3 (2001 to 2003)
Latitude	30.3958
Longitude	-86.8688

- Total Phosphorus (µg/L): Nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10 (by mass).
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algae.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filtered out.
- Specific Conductance (μS/cm@25°C), Salinity (ppt): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 2. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance/salinity (collected quarterly).

Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus (μg/L)	12 - 14	13 (3)
Total Nitrogen (μg/L)	178 - 297	247 (3)
Chlorophyll- uncorrected (µg/L)	1 - 6	3 (3)
Secchi (ft)	5.0 - 9.0	7.1 (3)
Secchi (m)	1.5 - 2.7	2.2 (3)
Color (Pt-Co Units)	4 - 10	7 (3)
Specific Conductance (µS/cm@25 C)	27459 - 31027	28690 (3)
Salinity (ppt)	17 - 19	18 (3)

LAKEWATCH Report for Santa Rosa Sound-2 in Santa Rosa County Estuary and Estuary Segment: Pensacola Bay Santa Rosa Sound Using Data Downloaded 12/9/2022

Introduction for Estuaries

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data averages and ranges and the final part are trend plots for nutrients, chlorophyll, and Secchi depth. Plots were only made for systems with five or more years of data.

The near shore Florida coastline is separated into estuary and estuary segments within the estuary. Deeper coastal waters are separated into coastal nutrient regions and coastal nutrient segments within the regions. Numeric nutrient criteria are established for all estuary segments, including criteria for total nitrogen, total phosphorus, and chlorophyll a. For open ocean coastal waters, numeric criteria are established for chlorophyll a, that is derived from satellite remote sensing techniques. For those locations without defined segments there are narrative nutrient criteria (e.g., Florida Keys Halo Zone).

The maps defining individual estuaries and coastal segments can be found at the following link: https://www.flrules.org/Gateway/reference.asp?No=Ref-05420

The individual nutrient criteria can be found at the following link: https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20 STANDARDS&ID=62-302.532

Base File Data for Estuaries: Definitions:

- County: Name of county adjacent to the system.
- Name: System name that LAKEWATCH uses for the station.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

County	Santa Rosa
Name	Santa Rosa Sound-2
GNIS Number	
Water Body Type	Estuary
Period of Record (years, range)	3 (2001 to 2003)
Latitude	30.3931
Longitude	-86.8926

- Total Phosphorus (µg/L): Nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10 (by mass).
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algae.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filtered out.
- Specific Conductance (μS/cm@25°C), Salinity (ppt): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 2. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance/salinity (collected quarterly).

Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus (µg/L)	9 - 13	11 (3)
Total Nitrogen (μg/L)	139 - 264	204 (3)
Chlorophyll- uncorrected (µg/L)	1 - 5	2 (3)
Secchi (ft)	5.5 - 8.7	7.3 (3)
Secchi (m)	1.7 - 2.7	2.2 (3)
Color (Pt-Co Units)	4 - 7	6 (3)
Specific Conductance (µS/cm@25 C)	20494 - 31177	26367 (3)
Salinity (ppt)	13 - 19	16 (3)

LAKEWATCH Report for Santa Rosa Sound-3 in Santa Rosa County Estuary and Estuary Segment: Pensacola Bay Santa Rosa Sound Using Data Downloaded 12/9/2022

Introduction for Estuaries

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data averages and ranges and the final part are trend plots for nutrients, chlorophyll, and Secchi depth. Plots were only made for systems with five or more years of data.

The near shore Florida coastline is separated into estuary and estuary segments within the estuary. Deeper coastal waters are separated into coastal nutrient regions and coastal nutrient segments within the regions. Numeric nutrient criteria are established for all estuary segments, including criteria for total nitrogen, total phosphorus, and chlorophyll a. For open ocean coastal waters, numeric criteria are established for chlorophyll a, that is derived from satellite remote sensing techniques. For those locations without defined segments there are narrative nutrient criteria (e.g., Florida Keys Halo Zone).

The maps defining individual estuaries and coastal segments can be found at the following link: https://www.flrules.org/Gateway/reference.asp?No=Ref-05420

The individual nutrient criteria can be found at the following link: https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20 STANDARDS&ID=62-302.532

Base File Data for Estuaries: Definitions:

- County: Name of county adjacent to the system.
- Name: System name that LAKEWATCH uses for the station.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

County	Santa Rosa
Name	Santa Rosa Sound-3
GNIS Number	
Water Body Type	Estuary
Period of Record (years, range)	3 (2001 to 2003)
Latitude	30.3907
Longitude	-86.9226

- Total Phosphorus (µg/L): Nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10 (by mass).
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algae.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filtered out.
- Specific Conductance (μS/cm@25°C), Salinity (ppt): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 2. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance/salinity (collected quarterly).

Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus (μg/L)	8 - 14	11 (3)
Total Nitrogen (µg/L)	208 - 284	234 (3)
Chlorophyll- uncorrected (µg/L)	2 - 5	3 (3)
Secchi (ft)	5.0 - 9.0	7.1 (3)
Secchi (m)	1.5 - 2.7	2.2 (3)
Color (Pt-Co Units)	5 - 9	7 (3)
Specific Conductance (µS/cm@25 C)	26115 - 38188	32044 (3)
Salinity (ppt)	16 - 24	20 (3)

LAKEWATCH Report for Santa Rosa Sound-4 in Santa Rosa County Estuary and Estuary Segment: Pensacola Bay Santa Rosa Sound Using Data Downloaded 12/9/2022

Introduction for Estuaries

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data averages and ranges and the final part are trend plots for nutrients, chlorophyll, and Secchi depth. Plots were only made for systems with five or more years of data.

The near shore Florida coastline is separated into estuary and estuary segments within the estuary. Deeper coastal waters are separated into coastal nutrient regions and coastal nutrient segments within the regions. Numeric nutrient criteria are established for all estuary segments, including criteria for total nitrogen, total phosphorus, and chlorophyll a. For open ocean coastal waters, numeric criteria are established for chlorophyll a, that is derived from satellite remote sensing techniques. For those locations without defined segments there are narrative nutrient criteria (e.g., Florida Keys Halo Zone).

The maps defining individual estuaries and coastal segments can be found at the following link: https://www.flrules.org/Gateway/reference.asp?No=Ref-05420

The individual nutrient criteria can be found at the following link: https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20 STANDARDS&ID=62-302.532

Base File Data for Estuaries: Definitions:

- County: Name of county adjacent to the system.
- Name: System name that LAKEWATCH uses for the station.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

County	Santa Rosa
Name	Santa Rosa Sound-4
GNIS Number	
Water Body Type	Estuary
Period of Record (years, range)	1 (2003 to 2003)
Latitude	30.4011
Longitude	-86.8067

- Total Phosphorus (µg/L): Nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10 (by mass).
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algae.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filtered out.
- Specific Conductance (μS/cm@25°C), Salinity (ppt): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 2. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance/salinity (collected quarterly).

Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus (μg/L)	5 - 5	5 (1)
Total Nitrogen (µg/L)	200 - 200	200 (1)
Chlorophyll- uncorrected (µg/L)	1 - 1	1 (1)
Secchi (ft)	12.0 - 12.0	12.0(1)
Secchi (m)	3.7 - 3.7	3.7 (1)
Color (Pt-Co Units)	7 - 7	7 (1)
Specific Conductance (µS/cm@25 C)	14000 - 14000	14000 (1)
Salinity (ppt)	8 - 8	8 (1)

LAKEWATCH Report for Santa Rosa Sound-5 in Santa Rosa County Estuary and Estuary Segment: Pensacola Bay Santa Rosa Sound Using Data Downloaded 12/9/2022

Introduction for Estuaries

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data averages and ranges and the final part are trend plots for nutrients, chlorophyll, and Secchi depth. Plots were only made for systems with five or more years of data.

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The maps defining individual estuaries and coastal segments can be found at the following link: https://www.flrules.org/Gateway/reference.asp?No=Ref-05420

The individual nutrient criteria can be found at the following link: https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20 STANDARDS&ID=62-302.532

Base File Data for Estuaries: Definitions:

- County: Name of county adjacent to the system.
- Name: System name that LAKEWATCH uses for the station.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

County	Santa Rosa
Name	Santa Rosa Sound-5
GNIS Number	
Water Body Type	Estuary
Period of Record (years, range)	1 (2003 to 2003)
Latitude	30.3972
Longitude	-86.8291

- Total Phosphorus (µg/L): Nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10 (by mass).
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algae.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filtered out.
- Specific Conductance (μS/cm@25°C), Salinity (ppt): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 2. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance/salinity (collected quarterly).

Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus (μg/L)	9 - 9	9 (1)
Total Nitrogen (μg/L)	260 - 260	260 (1)
Chlorophyll- uncorrected (µg/L)	1 - 1	1 (1)
Secchi (ft)	12.0 - 12.0	12.0(1)
Secchi (m)	3.7 - 3.7	3.7 (1)
Color (Pt-Co Units)	11 - 11	11 (1)
Specific Conductance (µS/cm@25 C)	23000 - 23000	23000 (1)
Salinity (ppt)	14 - 14	14 (1)

LAKEWATCH Report for Santa Rosa Sound-6 in Santa Rosa County Estuary and Estuary Segment: Pensacola Bay Santa Rosa Sound Using Data Downloaded 12/9/2022

Introduction for Estuaries

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data averages and ranges and the final part are trend plots for nutrients, chlorophyll, and Secchi depth. Plots were only made for systems with five or more years of data.

The near shore Florida coastline is separated into estuary and estuary segments within the estuary. Deeper coastal waters are separated into coastal nutrient regions and coastal nutrient segments within the regions. Numeric nutrient criteria are established for all estuary segments, including criteria for total nitrogen, total phosphorus, and chlorophyll a. For open ocean coastal waters, numeric criteria are established for chlorophyll a, that is derived from satellite remote sensing techniques. For those locations without defined segments there are narrative nutrient criteria (e.g., Florida Keys Halo Zone).

The maps defining individual estuaries and coastal segments can be found at the following link: https://www.flrules.org/Gateway/reference.asp?No=Ref-05420

The individual nutrient criteria can be found at the following link: https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20 STANDARDS&ID=62-302.532

Base File Data for Estuaries: Definitions:

- County: Name of county adjacent to the system.
- Name: System name that LAKEWATCH uses for the station.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

County	Santa Rosa
Name	Santa Rosa Sound-6
GNIS Number	
Water Body Type	Estuary
Period of Record (years, range)	1 (2003 to 2003)
Latitude	30.3976
Longitude	-86.8434

- Total Phosphorus (µg/L): Nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10 (by mass).
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algae.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filtered out.
- Specific Conductance (μS/cm@25°C), Salinity (ppt): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 2. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance/salinity (collected quarterly).

Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus (μg/L)	7 - 7	7 (1)
Total Nitrogen (μg/L)	180 - 180	180 (1)
Chlorophyll- uncorrected (µg/L)	1 - 1	1 (1)
Secchi (ft)	12.0 - 12.0	12.0(1)
Secchi (m)	3.7 - 3.7	3.7 (1)
Color (Pt-Co Units)	8 - 8	8 (1)
Specific Conductance (µS/cm@25 C)	18000 - 18000	18000 (1)
Salinity (ppt)	11 - 11	11 (1)