

Southeast District - Biennial Assessment 2020-2022 FINAL Verified List

Basins: Everglades, Kissimmee River, Lake Okeechobee, Lake Worth Lagoon - Palm Beach Coast, Southeast Coast - Biscayne Bay, St. Lucie - Loxahatchee

OGC Case Number	Group Name	County	WBID	Waterbody Name	Waterbody Type	Waterbody Class ¹	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Pollutant of Concern for Dissolved Oxygen/Biology Assessment	Criterion Concentration or Threshold Not Met	† Previous Summary Assessment Category ²	† Current Assessment Category ³	† Integrated Report Category Summary Assessment	Summary Assessment Status	Priority for TMDL Development ⁴	Planning Period Assessment Data ⁵	Verified Period Assessment Data ⁵	Comments
22-0855	Lake Okeechobee	Martin,Glades,Okeechobee,Palm Beach	3212D	Lake Okeechobee	Lake	1	Turbidity		≤ 29 NTU + background	3c	5	5	Impaired	Low	18/30	41/89	This waterbody is impaired for this parameter based on the number of exceedances for the sample size. Natural background conditions for turbidity were calculated at the 25th percentile of the period of record data prior to 1991. The threshold value is set at 29 NTU plus 3 NTU (natural background conditions) resulting in 32 NTU. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0856	Lake Okeechobee	Martin,Okeechobee,Palm Beach	3212E	Lake Okeechobee	Lake	1	Turbidity		≤ 29 NTU + background	3c	5	5	Impaired	Low	44/71	102/156	This waterbody is impaired for this parameter based on the number of exceedances for the sample size. Natural background conditions for turbidity were calculated at the 25th percentile of the period of record data prior to 1991. The threshold value is set at 29 NTU plus 8 NTU (natural background conditions) resulting in 37 NTU. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0857	Lake Okeechobee	Glades,Palm Beach,Hendry	3212F	Lake Okeechobee	Lake	1	Turbidity		≤ 29 NTU + background	3c	5	5	Impaired	Low	10/26	22/67	This waterbody is impaired for this parameter based on the number of exceedances for the sample size. Natural background conditions for turbidity were calculated at the 25th percentile of the period of record data prior to 1991. The threshold value is set at 29 NTU plus 3 NTU (natural background conditions) resulting in 32 NTU. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0858	Lake Okeechobee	Palm Beach	3212G	Lake Okeechobee	Lake	1	Turbidity		≤ 29 NTU + background	3c	5	5	Impaired	Low	56/87	109/165	This waterbody is impaired for this parameter based on the number of exceedances for the sample size. Natural background conditions for turbidity were calculated at the 25th percentile of the period of record data prior to 1991. The threshold value is set at 29 NTU plus 9 NTU (natural background conditions) resulting in 38 NTU. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0859	Lake Okeechobee	Palm Beach,Hendry	3212H	Lake Okeechobee	Lake	1	Turbidity		≤ 29 NTU + background	3c	5	5	Impaired	Low	5/89	29/193	This waterbody is impaired for this parameter based on the number of exceedances for the sample size. Natural background conditions for turbidity were calculated at the 25th percentile of the period of record data prior to 1991. The threshold value is set at 29 NTU plus 4 NTU (natural background conditions) resulting in 33 NTU. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0860	Lake Okeechobee	Palm Beach	3212I	Lake Okeechobee	Lake	1	Turbidity		≤ 29 NTU + background	3c	5	5	Impaired	Low	5/20	16/54	This waterbody is impaired for this parameter based on the number of exceedances for the sample size. Natural background conditions for turbidity were calculated at the 25th percentile of the period of record data prior to 1991. The threshold value is set at 29 NTU plus 3 NTU (natural background conditions) resulting in 32 NTU. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0863	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3226E1	Lake Worth Lagoon (Northern Segment)	Estuary	3M	Nutrients (Total Phosphorus)		ENRR1: AGM ≤ 0.044 mg/L	2	5	5	Impaired	Medium	ENRR1 (AGM) 2008 (0.018 mg/L) 2009 (0.024 mg/L) 2010 (0.021 mg/L) 2011 (0.022 mg/L) 2012 (0.024 mg/L) 2013 (0.029 mg/L) 2014 (0.029 mg/L) 2015 (0.028 mg/L) 2016 (0.022 mg/L) 2017 (0.025 mg/L)	ENRR1 (AGM) 2013 (0.029 mg/L) 2014 (0.029 mg/L) 2015 (0.028 mg/L) 2016 (0.022 mg/L) 2017 (0.025 mg/L) 2018 (0.046 mg/L) 2019 (0.052 mg/L) 2020 (0.057 mg/L)	This waterbody is impaired for this parameter because the annual geometric means exceeded the criteria more than once in a three year period. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0864	Lake Worth Lagoon - Palm Beach Coast	Palm Beach,Broward	3226F5	Hillsboro and El Rio Canals	Estuary	3M	Enterococci		≤ 130 Counts / 100 mL	NA	5	5	Impaired	High	2/2	9/19	This waterbody is impaired for this parameter based on the number of exceedances for the sample size and anthropogenic sources have been identified using land use and confirmed using genetic marker and chemical tracer data. Fewer than twenty samples can be used to identify a waterbody as impaired if there are at least five exceedances, per 62-303.390(2)(f) F.A.C. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0871	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3233A	L-8	Stream	3F	Iron		≤ 1.0 mg/L	4c	5	5	Impaired	Medium	20/38	18/35	This waterbody is impaired for this parameter based on the number of exceedances for the sample size. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0872	Everglades	Palm Beach	3238	West Palm Beach Canal	Stream	3F	Turbidity		≤ 29 NTU + background	3c	5	5	Impaired	Low	8/14	6/25	This waterbody is impaired for this parameter based on the number of exceedances for the sample size. Natural background conditions for turbidity were calculated at the 25th percentile of the period of record data prior to 1991. The threshold value is set at 29 NTU plus 5 NTU (natural background conditions) resulting in 34 NTU. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0873	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3245C4	Pine Lake	Lake	3F	Biology	Nutrients	Average score of at least two temporally independent LVI scores ≥ 43; or either of the two most recent LVI scores ≥ 43; or if there are only two LVI scores and there is less than or equal to a 20 point difference.	NA	5	5	Impaired	Medium	No Data	LVI (n=2) WBID Mean (26) Mean 1 (23), Mean 2 (29)	This waterbody is impaired for this parameter based on failing bioassessments and nutrients have been determined to be the causative pollutant. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.

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OGC Case Number	Group Name	County	WBID	Waterbody Name	Waterbody Type	Waterbody Class ¹	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Pollutant of Concern for Dissolved Oxygen/Biology Assessment	Criterion Concentration or Threshold Not Met	† Previous Summary Assessment Category ²	† Current Assessment Category ³	† Integrated Report Category Summary Assessment	Summary Assessment Status	Priority for TMDL Development ⁴	Planning Period Assessment Data ⁵	Verified Period Assessment Data ⁵	Comments
22-0874	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3245C4	Pine Lake	Lake	3F	Nutrients (Total Phosphorus)		Chl-a AGM ≤ 20 µg/L, TP AGM ≤ 0.09 mg/L; if Chl-a has insufficient or No Data to calculate AGM or if Chl-a AGM > 20 µg/L, TP AGM ≤ 0.03 mg/L	2	5	5	Impaired	Medium	AGM 2008 (0.04 mg/L) 2009 (0.11 mg/L) 2010 (0.05 mg/L) 2011 (0.05 mg/L) 2012 (0.07 mg/L) 2013 (0.05 mg/L) 2014 (0.07 mg/L) 2017 (0.06 mg/L)	AGM 2013 (0.05 mg/L) 2014 (0.07 mg/L) 2017 (0.06 mg/L) 2018 (0.07 mg/L) 2019 (0.07 mg/L)	This waterbody is impaired for this parameter. The annual geometric means exceeded the nutrient criteria for a clear, alkaline lake more than once in a three year period. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0875	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3262C	E-2 Canal	Stream	3F	Dissolved Oxygen (Percent Saturation)	Nutrients	≥ 38 %	4d	5	5	Impaired	Medium	4/20	5/25	This waterbody is impaired for this parameter based on the number of exceedances for the sample size and nutrients have been identified as the causative pollutant. Samples used in this assessment were evaluated against a time of day adjustment as described in 62-303.420(9), F.A.C. This parameter is being added to the Verified List and will remain on the 303(d) List.
22-0876	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3262C	E-2 Canal	Stream	3F	Nutrients (Chlorophyll-a)		AGM ≤ 20 µg/L	3c	5	5	Impaired	Medium	AGM 2012 (38 µg/L) 2017 (55 µg/L)	AGM 2017 (55 µg/L) 2018 (48 µg/L) 2019 (31 µg/L)	This waterbody is impaired for this parameter because the annual geometric means exceeded the nutrient threshold of 20 µg/L more than once in a three year period. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0877	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3264B	E-2 Canal	Stream	3F	Nutrients (Chlorophyll-a)		AGM ≤ 20 µg/L	3c	5	5	Impaired	Medium	AGM 2012 (32 µg/L) 2013 (20 µg/L) 2017 (27 µg/L)	AGM 2013 (20 µg/L) 2017 (27 µg/L) 2018 (32 µg/L) 2019 (21 µg/L)	This waterbody is impaired for this parameter because the annual geometric means exceeded the nutrient threshold of 20 µg/L more than once in a three year period. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.
22-0878	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3264D	E-4 Canal	Stream	3F	Escherichia coli		≤ 410 Counts / 100 mL	NA	5	5	Impaired	High	3/5	8/12	This waterbody is impaired for this parameter based on the number of exceedances for the sample size and anthropogenic sources have been identified using land use and confirmed using genetic marker and chemical tracer data. Fewer than twenty samples can be used to identify a waterbody as impaired if there are at least five exceedances, per 62-303.390(2)(f) F.A.C. This parameter is being added to the Verified List and the department is requesting EPA add it to the 303(d) List.

¹ Florida's waterbody classifications are defined as:

- 1 - Potable water supplies
- 2 - Shellfish propagation or harvesting
- 3F - Fish consumption; recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife in fresh water
- 3M - Fish consumption; recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife in marine water
- 3F or 3M - Limited - Fish consumption; recreation or limited recreation; and/or propagation and maintenance of a limited population of fish and wildlife
- 4 - Agricultural water supplies
- 5 - Navigation, utility, and industrial use

² The previous summary assessment is based on the most recent basin assessment. The basin list adoptions are as follows: Group 1 in 2019; Group 2 in 2020, Group 3 in 2016, Group 4 in 2017, Group 5 in 2018.

³ The current assessment includes data from the Planning Period (January 1, 2008 through December 31, 2017) and the Verified Period (January 1, 2013 through June 30, 2020).

† EPA's Integrated Report Category:

- 1 - Attains all designated uses.
- 2 - Attains some designated uses and insufficient or no information or data are present to determine if remaining uses are attained.
- 2b - Attains one or more designated uses and a Reasonable Assurance Plan has already been completed.
- 2e - Attains one or more designated uses and an Alternative Restoration Plan has already been completed.
- 2i - Attains one or more designated uses and a Total Maximum Daily Load (TMDL) has already been completed.
- 3a - No data and information are present to determine if any designated use is attained.
- 3b - Some data and information are present but not enough to determine if any designated use is attained.
- 3c - Enough data and information are present to determine that one or more designated uses may not be attained according to the Planning List methodology.
- 4a - Impaired for one or more designated uses but does not require TMDL development because a TMDL has already been completed.
- 4b - Impaired for one or more designated uses but does not require TMDL development because the water will attain water quality standards due to existing or proposed measures.
- 4c - Impaired for one or more criteria or designated uses but does not require TMDL development because impairment is not caused by a pollutant.
- 4d - Waterbody indicates nonattainment of water quality standards, but the Department does not have enough information to determine a causative pollutant; or current data show a potentially adverse trend in nutrients or nutrient response variables; or there are exceedances of stream nutrient thresholds, but the Department does not have enough information to fully assess nonattainment of the stream nutrient standard.
- 4e - Waterbody indicates nonattainment of water quality standards and pollution control mechanisms or restoration activities are in progress or planned to address nonattainment of water quality standards, but the Department does not have enough information to fully evaluate whether proposed pollution mechanisms will result in attainment of water quality standards.
- 5 - Water quality standards are not attained and a TMDL is required.

⁴ TMDL priorities of High, Medium, and Low are determined per rule 62-303.500, F.A.C. For Mercury (In Fish Tissue) Listings, a statewide TMDL for mercury was adopted in 2012.

⁵ Where data are presented as x/y, x represents the number of exceedances and y represents the total number of samples.

Where Biology data are presented as SCI (n=y), y represents the total number of samples; WBID Mean is the average value of all temporally independent biological health assessment scores over the assessment period; Mean 1 is the first temporally independent average of all biological health assessments within the most recent consecutive three month period; Mean 2 is the second temporally independent average of all biological health assessments within the most recent consecutive three month period prior to the most recent biological health assessment.

Beach advisories are based on FL Dept of Health Enterococcus criterion of >70 CFU/100mL. Beach advisory data are provided by the Florida Department of Health 2020 Beach Advisories.

Fish advisory data are provided by the Florida Department of Health 2021 Fish Advisories.

Abbreviations: WBID - Waterbody Identification; NA - Not Applicable, does not apply, or was not assessed in the previous cycle (i.e. it's a new WBID, waterbody type change, etc.);

ENR - Estuary Nutrient Region; AAM - Annual Arithmetic Mean; AGM - Annual Geometric Mean; LTA - Long Term Average; LTAAM - Long Term Annual Arithmetic Mean; LTAGM - Long Term Annual Geometric Mean; PCT - Percent; SSAC - Site Specific Alternative Criteria; WQBEL - Water Quality Based Effluent Limit.

The Southeast District Verified List is based on IWR Run 60 and the Impaired Waters Rule (IWR), Chapter 62-303, Florida Administrative Code, with the effective date of 10/17/2016.