(Incorporated in Rule 40E-4.091(1)(c) (eff. 11/17/2016))

CHAPTER 62-302 SURFACE WATER QUALITY STANDARDS

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62-302.200 Definitions.

As used in this chapter:

- (1) "Acute toxicity" shall mean a concentration greater than one-third (1/3) of the amount lethal to 50% of the test organisms in 96 hours (96 hr LC₅₀) for a species protective of the indigenous aquatic community for a substance not identified in paragraph 62-302.500(1)(c), F.A.C., or for mixtures of substances, including effluents.
- (2) "Annual average flow" is the long-term harmonic mean flow of the receiving water, or an equivalent flow based on generally accepted scientific procedures in waters for which such a mean cannot be calculated. For waters for which flow records have been kept for at least the last three years, "long-term" shall mean the period of record. For all other waters, "long-term" shall mean three years (unless the Department finds the data from that period not representative of present flow conditions, based on evidence of land use or other changes a ffecting the flow) or the period of records sufficient to show a variation of flow of at least three orders of magnitude, whichever period is less. For nontidal portions of rivers and streams, the harmonic mean (Q_{hm}) shall be calculated as

$$Q_{hm} = \frac{n}{ \underbrace{ \frac{1}{1} + \ \dots + \ \frac{1}{1} }_{Q_1} } }_{Q_2} \ Q_3 \ Q_4 \ Q_n}$$

in which each Q is an individual flow record and n is the total number of records. In lakes and reservoirs, the annual average flow shall be based on the hydraulic residence time, which shall be calculated a ccording to generally accepted scientific procedures, using the harmonic mean flows for the inflow sources. In tidal estuaries and coastal systems or tidal portions of rivers and streams, the annual average flow shall be determined using methods described in EPA publication no. 600/6-85/002b pages 142-227, incorporated by reference in paragraph 62-4.246(9)(k), F.A.C., or by other generally accepted scientific procedures, using the harmonic mean flow for any freshwater inflow. If there are insufficient data to determine the harmonic mean then the harmonic mean shall be estimated by methods as set forth in the EPA publication *Technical Support Document for Water Quality-Based Toxics Control* (March 1991), incorporated by reference in paragraph 62-4.246(9)(d), F.A.C., or other generally accepted scientific procedures. In situations with seasonably variable effluent discharge rates, hold-and-release treatment systems, and effluent-dominated sites, annual average flow shall mean modeling techniques that calculate long-term average daily concentrations from long-term individual daily flows and concentrations in accordance with generally accepted scientific procedures.

- (3) "Background" shall mean the condition of waters in the absence of the activity or discharge under consideration, based on the best scientific information available to the Department.
- (4) "Biological Health Assessment" shall mean one of the following a quatic community-based biological evaluations: Stream Condition Index (SCI), Lake Vegetation Index (LVI), or Shannon-Weaver Diversity Index.
 - (5) "Chronic Toxicity."

- (a) For a substance without an aquatic life-based criterion in Rule 62-302.530, F.A.C., and where chronic toxicity studies evaluating the toxicity of the substance are available, or for mixtures of substances, including effluents, chronic toxicity shall mean the concentration that equals or exceeds the IC_{25} on species protective of the indigenous aquatic community, or
- (b) For a substance without an aquatic life-based criterion in Rule 62-302.530, F.A.C., and where chronic toxicity studies evaluating the toxicity of the substance on species protective of the indigenous aquatic community are not available, the chronic toxicity of a substance shall be established as a concentration greater than one-twentieth (1/20) of the amount lethal to 50% of the test organisms in 96 hours (96 hr LC_{50}) for a species protective of the indigenous a quatic community.
 - (6) "Commission" shall mean the Environmental Regulation Commission.
- (7) "Compensation point for photosynthetic activity" shall mean the depth within the water column at which one percent of the surface Photosynthetically Active Radiation remains unabsorbed. The light intensities immediately below the surface and at depth shall be measured by irradiance meters that measure the total irradiance of light between 400 and 700 nm.
 - (8) "Department" shall mean the Department of Environmental Protection.
- (9) "Designated use" shall mean the present and future most beneficial use of a body of water as designated by the Environmental Regulation Commission by means of the Classification system contained in this chapter.
 - (10) "Dissolved metal" shall mean the metal fraction that passes through a 0.45 micron filter.
- (11) "Effluent limitation" shall mean any restriction established by the Department on quantities, rates or concentrations of chemical, physical, biological or other constituents which are discharged from sources into waters of the State.
- (12) "Exceptional ecological significance" shall mean that a waterbody is a part of an ecosystem of unusual value. The exceptional significance may be in unusual species, productivity, diversity, ecological relationships, ambient water quality, scientific or educational interest, or in other a spects of the ecosystem's setting or processes.
- (13) "Exceptional recreational significance" shall mean unusual value as a resource for outdoor recreation activities. Outdoor recreation activities include, but are not limited to, fishing, boating, canoeing, water skiing, swimming, scuba diving, or nature observation. The exceptional significance may be in the intensity of present recreational usage, in an unusual quality of recreational experience, or in the potential for unusual future recreational use or experience.
 - (14) "Existing uses" shall mean any actual beneficial use of the waterbody on or after November 28, 1975.
- (15) "IC₂₅" or "Inhibition Concentration 25%" shall mean the concentration of toxicant that causes a 25% reduction in a biological response such as biomass, growth, fecundity, or reproduction in the test population when compared to the control population response.
- (16) "Lake" shall mean, for purposes of interpreting the narrative nutrient criterion in paragraph 62-302.530(47)(b), F.A.C., a lentic fresh waterbody with a relatively long water residence time and an open water area that is free from emergent vegetation under typical hydrologic and climatic conditions. Aquatic plants, as defined in subsection 62-340.200(1), F.A.C., may be present in the open water. Lakes do not include springs, wetlands, or streams (except portions of streams that exhibit lake-like characteristics, such as long water residence time, increased width, or predominance of biological taxa typically found in non-flowing conditions).
- (17) "Lake Vegetation Index (LVI)" shall mean a Biological Health Assessment that measures lake biological health in predominantly freshwaters using a quatic and wetland plants, performed and calculated using the Standard Operating Procedures for the LVI in the document titled LVI 1000: Lake Vegetation Index Methods (DEP-SOP-003/11 LVI 1000), dated 3/1/14 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06037), and the methodology in Sampling and Use of the Lake Vegetation Index (LVI) for Assessing Lake Plant Communities in Florida: A Primer (DEP-SAS-002/11), dated 10-24-11 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06038), which are incorporated by reference herein. Copies of the documents may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS#6511, Tallahassee, FL 32399-2400.
- (18) "Man-induced conditions which cannot be controlled or a bated" shall mean conditions that have been influenced by human activities; and,
 - (a) Would remain a fter removal of all point sources;
 - (b) Would remain after imposition of best management practices for non-point sources; and,
- (c) Cannot be restored or a bated by physical alteration of the waterbody, or there is no reasonable relationship between the economic, social and environmental costs and the benefits of restoration or physical alteration.
- (19) "Natural background" shall mean the condition of waters in the absence of man-induced alterations based on the best scientific information available to the Department. The establishment of natural background for an altered waterbody may be based upon a similar unaltered waterbody, historical pre-alteration data, paleolimnological examination of sediment cores, or examination

of geology and soils. When determining natural background conditions for a lake, the lake's location and regional characteristics as described and depicted in the U.S. Environmental Protection Agency document titled Lake Regions of Florida (EPA/R-97/127, dated 1997, U.S. Environmental Protection Agency, National Health and Environmental Effects Research Laboratory, Corvallis, OR) (http://www.flrules.org/Gateway/reference.asp?No=Ref-06267), which is incorporated by reference herein, shall also be considered. The lake regions in this document are grouped according to ambient total phosphorus and total nitrogen concentrations in the following lake zones:

- (a) The TP1 phosphorus zone consists of the USEPA Lake Regions 65-03, and 65-05.
- (b) The TP2 phosphorus zone consists of the USEPA Lake Regions 75-04, 75-09, 75-14, 75-15 and 75-33.
- (c) The TP3 phosphorus zone consists of the USEPA Lake Regions 65-01, 65-02, 75-01, 75-03, 75-05, 75-11, 75-12, 75-16, 75-19, 75-20, 75-23, 75-24, 75-27, 75-32 and 76-03.
- (d) The TP4 phosphorus zone consists of the USEPA Lake Regions 65-04, 75-02, 75-06, 75-08, 75-10, 75-13, 75-17, 75-21, 75-22, 75-26, 75-29, 75-31, 75-34, 76-01 and 76-02.
 - (e) The TP5 phosphorus zone consists of the USEPA Lake Regions 75-18, 75-25, 75-35, 75-36 and 76-04.
 - (f) The TP6 phosphorus zone consists of the USEPA Lake Regions 65-06, 75-07, 75-28, 75-30 and 75-37.
 - (g) The TN1 nitrogen zone consists of the USEPA Lake Region 65-03.
 - (h) The TN2 nitrogen zone consists of the USEPA Lake Regions 65-05 and 75-04.
- (i) The TN3 nitrogen zone consists of the USEPA Lake Regions 65-01, 65-02, 65-04, 75-01, 75-02, 75-03, 75-09, 75-11, 75-15, 75-20, 75-23, 75-33 and 76-03.
- (j) The TN4 nitrogen zone consists of the USEPA Lake Regions 65-06, 75-05, 75-06, 75-10, 75-12, 75-13, 75-14, 75-16, 75-17, 75-18, 75-19, 75-21, 75-22, 75-24, 75-26, 75-27 and 75-29, 75-31, 75-32, 75-34 and 76-02.
- (k) The TN5 nitrogen zone consists of the USEPA Lake Regions 75-07,75-08, 75-25, 75-28, 75-30, 75-35, 75-36, 75-37, 76-01 and 76-04.

The Lake Regions document may be obtained from the website above or by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400.

- (20) "Nuisance species" shall mean species of flora or fauna whose noxious characteristics or presence in sufficient number, biomass, or areal extent may reasonably be expected to prevent, or unreasonably interfere with, a designated use of those waters.
- (21) "Nursery area of indigenous aquatic life" shall mean any bed of the following a quatic plants, either in monoculture or mixed: Halodule wrightii, Halophila spp., Potamogeton spp. (pondweed), Ruppia maritima (widgeon-grass), Sagittaria spp. (arrowhead), Syringodium filiforme (manatee-grass), Thalassia testudinum (turtle grass), or Vallisneria spp. (eel-grass), or any area used by the early-life stages, larvae and post-larvae, of aquatic life during the period of rapid growth and development into the juvenile states.
 - (22) "Nutrient" shall mean total nitrogen (TN), total phosphorus (TP), or their organic or inorganic forms.
- (23) "Nutrient response variable" shall mean a biological variable, such as chlorophyll a, biomass, or structure of the phytoplankton, periphyton or vascular plant community, that responds to nutrient load or concentration in a predictable and measurable manner. For purposes of interpreting paragraph 62-302.530(47)(b), F.A.C., dissolved oxygen (DO) shall also be considered a nutrient response variable if it is demonstrated for the waterbody that DO conditions result in biological imbalance and the DO responds to a nutrient load or concentration in a predictable and measurable manner.
- (24) "Nutrient Threshold" shall mean a concentration of nutrients that applies to a Nutrient Watershed Region and is derived from a statistical distribution of data from reference or benchmark sites. Nutrient Thresholds are only applied to streams as specified in para graph 62-302.531(2)(c), F.A.C.
- (25) "Nutrient Watershed Region" shall mean a drainage area over which the nutrient thresholds in paragraph 62-302.531(2)(c), F.A.C., apply.
- (a) The Panhandle West region consists of the Perdido Bay Watershed, Pensacola Bay Watershed, Choctawhatchee Bay Watershed, St. Andrew Bay Watershed, and Apalachicola Bay Watershed.
 - (b) The Panhandle East region consists of the Apalachee Bay Watershed, and Econfina/Steinhatchee Coastal Drainage Area.
- (c) The North Central region consists of the Suwannee River Watershed and the "stream to sink" region in Alachua, Marion and Levy Counties that is a ffected by the Hawthorne Formation.
- (d) The West Central region consists of the Peace, Myakka, Hillsborough, Ala fia, Manatee, Little Manatee River Watersheds, Sara sota/Lemon Bay Watershed and small, direct Tampa Bay tributary watersheds south of the Hillsborough River Watershed.
 - (e) The Peninsula region consists of the Waccasassa Coastal Drainage Area, Withlacoochee Coastal Drainage Area,

Crystal/Pithlachascotee Coastal Drainage Area, small, direct Tampa Bay tributary watersheds west of the Hillsborough River Watershed, small, direct Charlotte Harbor tributary watersheds south of the Peace River Watershed, Caloosahatchee River Watershed, Estero Bay Watershed, Imperial River Watershed, Kissimmee River/Lake Okeechobee Drainage Area, Loxahatchee/St. Lucie Watershed, Indian River Watershed, Daytona/St. Augustine Coastal Drainage Area, St. John's River Watershed, Nassau Coastal Drainage Area, and St. Mary's River Watershed.

- (f) The South Florida region consists of those areas south of the Peninsula region, such as the Cocohatchee River Watershed, Naples Bay Watershed, Rookery Bay Watershed, Ten Thousand Islands Watershed, Lake Worth Lagoon Watershed, Southeast Coast Bisca yne Bay Watershed, Everglades Watershed, Florida Bay Watershed, and the Florida Keys.
- A map of the Nutrient Watershed Regions, dated October 17, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06033), is incorporated by reference herein and may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400.
- (26) "Outstanding Florida Waters" shall mean waters designated by the Environmental Regulation Commission as worthy of special protection because of their natural attributes.
- (27) "Outstanding National Resources Waters" shall mean waters designated by the Environmental Regulation Commission that are of such exceptional recreational or ecological significance that water quality should be maintained and protected under all circumstances, other than temporary lowering and the lowering allowed under Section 316 of the Federal Clean Water Act.
- (28) "Pollution" shall mean the presence in the outdoor atmosphere or waters of the state of any substances, contaminants, noise, or man-made or man-induced alteration of the chemical, physical, biological or radiological integrity of air or water in quantities or levels which are or may be potentially harmful or injurious to human health or welfare, animal or plant life, or property, including outdoor recreation.
- (29) "Predominantly fresh waters" shall mean surface waters in which the chloride concentration is less than 1,500 milligrams per liter or specific conductance is less than 4,580 μ mhos/cm. Measurements for making this determination shall be taken within the bottom half of the water column.
- (30) "Predominantly marine waters" shall mean surface waters in which the chloride concentration is greater than or equal to 1,500 milligrams per liter or specific conductance is greater than or equal to 4,580 µmhos/cm. Measurements for making this determination shall be taken within the bottom half of the water column.
 - (31) "Propagation" shall mean reproduction sufficient to maintain the species' role in its respective ecological community.
 - (32) "Secretary" shall mean the Secretary of the Department of Environmental Protection.
- (33) "Shannon-Weaver Diversity Index" shall mean: negative summation (from i = 1 to s) of $(n_i/N) \log_2(n_i/N)$ where s is the number of species in a sample, N is the total number of individuals in a sample, and n is the total number of individuals in species i.
- (34) "Special Waters" shall mean water bodies designated in accordance with Rule 62-302.700, F.A.C., by the Environmental Regulation Commission for inclusion in the Special Waters Category of Outstanding Florida Waters, as contained in Rule 62-302.700, F.A.C. A Special Water may include all or part of any waterbody.
- (35) "Spring vent" shall mean a location where groundwater flows out of a natural, discernable opening in the ground onto the land surface or into a predominantly fresh surface water.
- (36) "Stream" shall mean, for purposes of interpreting the narrative nutrient criterion in paragraph 62-302.530(47)(b), F.A.C., under paragraph 62-302.531(2)(c), F.A.C., a predominantly fresh surface waterbody with perennial flow in a defined channel with banks during typical climatic and hydrologic conditions for its region within the state. During periods of drought, portions of a stream channel may exhibit a dry bed, but wetted pools are typically still present during these conditions. Streams do not include:
- (a) Non-perennial water segments where fluctuating hydrologic conditions, including periods of desiccation, typically result in the dominance of wetland and/or terrestrial taxa (and corresponding reduction in obligate fluvial or lotic taxa), wetlands, portions of streams that exhibit lake characteristics (e.g., long water residence time, increased width, or predominance of biological taxa typically found in non-flowing conditions), or tidally influenced segments that fluctuate between predominantly marine and predominantly fresh waters during typical climatic and hydrologic conditions, or
- (b) Ditches, canals and other conveyances, or segments of conveyances, that are man-made, or predominantly channelized or predominantly physically altered; and,
- 1. Are primarily used for water management purposes, such as flood protection, stormwater management, irrigation, or water supply; and,
 - 2. Have marginal or poor stream habitat or habitat components, such as a lack of habitat or substrate that is biologically limited,

because the conveyance has cross sections that are predominantly trapezoidal, has a rmored banks, or is maintained primarily for water conveyance.

- (37) "Stream Condition Index (SCI)" shall mean a Biological Health Assessment that measures stream biological health in predominantly freshwaters using benthic macroinvertebrates, performed and calculated using the Standard Operating Procedures for the SCI in the document titled SCI 1000: Stream Condition Index Methods (DEP-SOP-003/11 SCI 1000), dated 3/1/14 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06039), and the methodology in Sampling and Use of the Stream Condition Index (SCI) for Assessing Flowing Waters: Primer (DEP-SAS-001/11), dated (http://www.flrules.org/Gateway/reference.asp?No=Ref-06040), which are incorporated by reference herein. Copies of the documents may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400. For water quality standards purposes, the Stream Condition Index shall not apply in the South Florida Nutrient Watershed Region.
- (38) "Surface Water" means water upon the surface of the earth, whether contained in bounds created naturally or artificially or diffused. Water from natural springs shall be classified as surface water when it exits from the spring onto the earth's surface.
- (39) "Total Maximum Daily Load" (TMDL) for an impaired waterbody or waterbody segment shall mean the sum of the individual wasteload allocations for point sources and the load allocations for nonpoint sources and natural background. Prior to determining individual wasteload allocations and load allocations, the maximum amount of a pollutant that a waterbody or water segment can assimilate from all sources without exceeding water quality standards must first be calculated. A TMDL shall include either an implicit or explicit margin of safety and a consideration of seasonal variations.
- (40) "Total recoverable metal" shall mean the concentration of metal in an unfiltered sample following treatment with hot dilute mineral acid.
- (41) "Water quality criteria" shall mean elements of State water quality standards, expressed as constituent concentrations, levels, or narrative statements, representing a quality of water that supports the present and future most beneficial uses.
- (42) "Water quality standards" shall mean standards composed of designated present and future most beneficial uses (classification of waters), the numerical and narrative criteria, including Site Specific Alternative Criteria, applied to the specific water uses or classification, the Florida anti-degradation policy, and the moderating provisions, such a variances, mixing zone rule provisions, or exemptions.
 - (43) "Waters" shall be as defined in Section 403.031(13), F.S.
- (44) "Zone of mixing" or "mixing zone" shall mean a volume of surface water containing the point or area of discharge and within which an opportunity for the mixture of wastes with receiving surface waters has been afforded.

Rulemaking Authority 403.061, 403.087, 403.504, 403.704, 403.804, 403.805 FS. Law Implemented 403.021(11), 403.031, 403.061, 403.062, 403.085, 403.086, 403.087, 403.088, 403.502, 403.802 FS. History—New 5-29-90, Amended 2-13-92, Formerly 17-302.200, Amended 1-23-95, 5-15-02, 8-1-13, 2-17-16.

Editorial Note: Rule subsections 62-302.200(1)-(3), (5), (7), (9)-(15), (18)-(21), (29)-(30), (34), (38), (40), (42), and (44), became effective on 7-3-12, 20 days after filing the rule certification package for Florida's numeric nutrient standards. Rule subsections 62-302.200(4), (16)-(17), (22)-(25), (35)-(37), and (39), will become effective upon approval by EPA in their entirety, conclusion of rulemaking by EPA to repeal its federal numeric nutrient criterion for Florida, and EPA's determination that Florida's rules address its January 2009 determination that numeric nutrient criteria are needed in Florida.

62-302.300 Findings, Intent, and Antidegradation Policy for Surface Water Quality.

- (1) Article II, Section 7 of the Florida Constitution requires abatement of water pollution and conservation and protection of Florida's natural resources and scenic beauty.
- (2) Congress, in Section 101(a)(2) of the Federal Water Pollution Control Act, as a mended, declares that achievement by July 1, 1983, of water quality sufficient for the protection and propagation of fish, shellfish, and wildlife, as well as for recreation in and on the water, is an interim goal to be sought whenever attainable. Congress further states in Section 101(a)(3), that it is the national policy that the discharge of toxic pollutants in toxic a mounts be prohibited.
- (3) The present and future most beneficial uses of all waters of the State have been designated by the Department by means of the classification system set forth in this chapter pursuant to Section 403.061(10), F.S. Water quality standards are established by the Department to protect these designated uses.
 - (4) Because activities outside the State sometimes cause pollution of Florida's waters, the Department will make every reasonable

effort to have such pollution abated.

- (5) Water quality standards apply equally to and shall be uniformly enforced in both the public and private sector.
- (6) Public interest shall not be construed to mean only those activities conducted solely to provide facilities or benefits to the general public. Private activities conducted for private purposes may also be in the public interest.
- (7) The Commission, recognizing the complexity of water quality management and the necessity to temper regulatory actions with the technological progress and the social and economic well-being of people, urges, however, that there be no compromise where discharges of pollutants constitute a valid hazard to human health.
- (8) The Commission requests that the Secretary seek and use the best environmental information available when making decisions on the effects of chronically and acutely toxic substances and carcinogenic, mutagenic, and teratogenic substances. Additionally, the Secretary is requested to seek and encourage innovative research and developments in waste treatment alternatives that might better preserve environmental quality or at the same time reduce the energy and dollar costs of operation.
- (9) The criteria set forth in this chapter are minimum levels which are necessary to protect the designated uses of a water body. It is the intent of this Commission that permit applicants should not be penalized due to a low detection limit a ssociated with any specific criteria.
- (10)(a) The Department's rules that were adopted on March 1, 1979, regarding water quality standards are designed to protect the public health or welfare and to enhance the quality of waters of the State. They have been established taking into consideration the use and value of waters of the State for public water supplies, propogation of fish and wildlife, recreational purposes, and a gricultural, industrial, and other purposes, and also taking into consideration their use and value for navigation.
 - (b) Under the approach taken in the formulation of the rules a dopted in this proceeding:
- 1. The Department's rules that were adopted on March 1, 1979, regarding water quality standards are based upon the best scientific knowledge related to the protection of the various designated uses of waters of the State; and,
- 2. The mixing zone, zone of discharge, site specific alternative criteria, exemption, and equitable allocation provisions are designed to provide an opportunity for the future consideration of factors relating to localized situations which could not adequately be addressed in this proceeding, including economic and social consequences, attainability, irretrievable conditions, natural background, and detectability.
- (c) This is an even-handed and balanced approach to attainment of water quality objectives. The Commission has specifically recognized that the social, economic and environmental costs may, under certain special circumstances, outweigh the social, economic and environmental benefits if the numerical criteria are enforced statewide. It is for that reason that the Commission has provided for mixing zones, zones of discharge, site specific alternative criteria, exemptions and other provisions in Chapters 62-302, 62-4, 62-600, and 62-660, F.A.C. Furthermore, the continued availability of the moderating provisions is a vital factor providing a basis for the Commission's determination that water quality standards applicable to water classes in the rule are attainable taking into consideration environmental, technological, social, economic and institutional factors. The companion provisions of Chapters 62-4, 62-600, 62-660, F.A.C., approved simultaneously with these Water Quality Standards are incorporated herein by reference as a substantive part of the State's comprehensive program for the control, abatement and prevention of water pollution.
- (d) Without the moderating provisions described in subparagraph (b)2., above, the Commission would not have adopted the revisions described in (b)1., above, nor determined that they are attainable as generally applicable water quality standards.
- (11) Section 403.021(11), F.S., declares that the public policy of the State is to conserve the waters of the State to protect, maintain, and improve the quality thereof for public water supplies, for the propagation of wildlife, fish and other a quatic life, and for domestic, a gricultural, industrial, recreational, and other beneficial uses. It also prohibits the discharge of wastes into Florida waters without treatment necessary to protect those beneficial uses of the waters.
- (12) The Department shall a ssure that there shall be a chieved the highest statutory and regulatory requirements for all new and existing point sources, and all cost-effective and reasonable best management practices for nonpoint source control. For the purposes of this rule, highest statutory and regulatory requirements for new and existing point sources are those which can be achieved through imposition of effluent limits required under Sections 301 (b) and 306 of the Federal Clean Water Act (as amended in 1987) and Chapter 403, F.S. For the purposes of this rule, cost-effective and reasonable best management practices for nonpoint source control are those nonpoint source controls a uthorized under Chapters 373 and 403, F.S., and Department rules.
- (13) The Department finds that excessive nutrients (total nitrogen and total phosphorus) constitute one of the most severe water quality problems facing the State. It shall be the Department's policy to limit the introduction of man-induced nutrients into waters of the State. Particular consideration shall be given to the protection from further nutrient enrichment of waters which are presently high

in nutrient concentrations or sensitive to further nutrient concentrations and sensitive to further nutrient loadings. Also, particular consideration shall be given to the protection from nutrient enrichment of those waters presently containing very low nutrient concentrations: less than 0.3 milligrams per liter total nitrogen or less than 0.04 milligrams per liter total phosphorus.

- (14) Existing uses and the level of water quality necessary to protect the existing uses shall be fully maintained and protected. Such uses may be different or more extensive than the designated use.
- (15) Pollution which causes or contributes to new violations of water quality standards or to continuation of existing violations is harmful to the waters of this State and shall not be a llowed. Waters having water quality below the criteria established for them shall be protected and enhanced. However, the Department shall not strive to a bate natural conditions.
- (16) If the Department finds that a new or existing discharge will reduce the quality of the receiving waters below the classification established for them or violate any Department rule or standard, it shall refuse to permit the discharge.
- (17) If the Department finds that a proposed new discharge or expansion of an existing discharge will not reduce the quality of the receiving waters below the classification established for them, it shall permit the discharge if such degradation is necessary or desirable under federal standards and under circumstances which are clearly in the public interest, and if all other Department requirements are met. Projects permitted under Part IV of Chapter 373, F.S., shall be considered in compliance with this subsection if those projects comply with the requirements of Section 373.414(1), F.S.; also projects permitted under the grandfather provisions of Sections 373.414(11) through (16), F.S., or permitted under Section 373.4145, F.S., shall be considered in compliance with this subsection if those projects comply with the requirements of subsection 62-312.080(2), F.A.C.
- (18)(a) Except as provided in paragraphs (b) and (c), of this subsection, an applicant for either a general or generic permit or renewal of an existing permit for which no expansion of the discharge is proposed is not required to show that any degradation from the discharge is necessary or desirable under federal standards and under circumstances which are clearly in the public interest.
- (b) If the Department determines that the applicant has caused degradation of water quality over and above that allowed through previous permits issued to the applicant, then the applicant shall demonstrate that this lowering of water quality is necessary or desirable under federal standards and under circumstances which are clearly in the public interest. These circumstances are limited to cases where it has been demonstrated that degradation of water quality is occurring due to the discharge.
- (c) If the new or expanded discharge was initially permitted by the Department on or a fter October 4, 1989, and the Department determines that an antidegradation analysis was not conducted, then the applicant seeking renewal of the existing permit shall demonstrate that degradation from the discharge is necessary or desirable under federal standards and under circumstances which are clearly in the public interest.
- (19) The implementation of numeric nutrient standards under Rules 62-302.531 and 62-302.532, F.A.C., shall be implemented consistent with the document titled "Implementation of Florida's Numeric Nutrient Standards," dated April 2013 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02905), which is incorporated by reference herein. Copies of this document may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS#6511, Tallahassee, FL 32399-2400. This document references the following documents, which are incorporated by reference and may be obtained from the address above.
 - (a) The following documents are incorporated by reference herein:
- 1. Sampling and Use of the Stream Condition Index (SCI) for Assessing Flowing Waters: A Primer (DEP-SAS-001/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02906),
- 2. Sampling and Use of the Lake Vegetation Index (LVI) for Assessing Lake Plant Communities in Florida: A Primer (DEP-SAS-002/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02907),
- 3. SCI 1000 Stream Condition Index Methods (DEP-SOP-003/11), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06039),
- 4. LVI 1000 Lake Vegetation Index Methods (DEP-SOP-003/11), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06037),
- 5. FS 7000 General Biological Community Sampling (DEP-SOP-001/01), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06041),
- 6. FT 3000 Aquatic Habitat Characterization (DEP-SOP-001/01), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06042),
- 7. Development of Type III Site Specific Alternative Criteria (SSAC) for Nutrients, (DEP-SAS-004/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02912),

- 8. Applicability of Chlorophyll *a* Methods (DEP-SAS-002/10), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02914),
- 9. Map of the Nutrient Watershed Regions, dated October 17, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02915),
- 10. Mann's one-sided, upper-tail test for trend, as described in Nonparametric Statistical Methods by M. Hollander and D. Wolfe (1999 ed.), pages 376 and 724 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02916),
- 11. Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., dated July 9, 2006 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02917); and,
- 12. Rules 62-302.200 and 62-302.400, paragraphs 62-302.530(47)(a) and (47)(b), and Rules 62-302.531, 62-302.532, 62-302.800, 62-303.100, 62-303.350, 62-303.353, 62-303.390, 62-303.450, 62-340.200, 62-620.610, 62-620.620, 62-650.400, and 62-650.500, F.A.C.
- (b) The following documents, each of which is incorporated by reference herein, are cited in Sampling and Use of the Stream Condition Index (SCI) for Assessing Flowing Waters: A Primer (DEP-SAS-001/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02906):
- 1. SCI 1000 Stream Condition Index Methods (DEP-SOP-003/11), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06039),
- 2. LVI 1000 Lake Vegetation Index Methods (DEP-SOP-003/11), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06037),
- 3. FS 7000 General Biological Community Sampling (DEP-SOP-001/01), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06041),
- 4. FT 3000 Aquatic Habitat Characterization (DEP-SOP-001/01), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06042),
- 5. Development of Type III Site Specific Alternative Criteria (SSAC) for Nutrients, (DEP-SAS-004/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02912); and,
- 6. Development of Aquatic Life Use Support Attainment Thresholds for Florida's Stream Condition Index and Lake Vegetation Index (DEP-SAS-003/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02913).
- (c) The following document, which is incorporated by reference herein, is cited in Sampling and Use of the Lake Vegetation Index (LVI) for Assessing Lake Plant Communities in Florida: A Primer (DEP-SAS-002/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02907): LVI 1000 Lake Vegetation Index Methods (DEP-SOP-003/11), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-04334).
- (d) The following documents, each of which is incorporated by reference herein, are cited in one of the Standard Operating Procedures identified above in paragraph 62-302.300(19)(a), F.A.C.
- 1. SCI 1000 Stream Condition Index Methods (DEP-SOP-003/11), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06039):
 - a. Merritt, R.W., and Cummins, K.W., An Introduction to the Aquatic Insects of North America, Third Edition, 1996,
- b. Sampling and Use of the Stream Condition Index (SCI) for Assessing Flowing Waters: A Primer (DEP-SAS-001/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02906); and,
- c. FT 3100 Stream and River Habitat Assessment (DEP-SOP-001/01), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06035).
- 2. LVI 1000 Lake Vegetation Index Methods (DEP-SOP-003/11), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06037):
 - a. Rule 62-340.450, F.A.C.; and,
- b. Sampling and Use of the Lake Vegetation Index (LVI) for Assessing Lake Plant Communities in Florida: A Primer (DEP-SAS-002/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02907).
- 7000 General Biological Community Sampling (DEP-SOP-001/01), dated March (http://www.flrules.org/Gateway/reference.asp?No=Ref-06041): Sampling and Use of the Lake Vegetation Index (LVI) for Assessing Communities Florida: Lake Plant in A Primer (DEP-SAS-002/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02907).
 - 4. FT 3000 Aquatic Habitat Characterization (DEP-SOP-001/01), dated March 1, 2014

(<u>http://www.flrules.org/Gateway/reference.asp?No=Ref-06042</u>): FA 5720, Section 1, Training for Habitat Assessment Testing, in DEP-SOP-001/01, dated March 1, 2014 (<u>http://www.flrules.org/Gateway/reference.asp?No=Ref-06036</u>).

- (e) The following documents, each of which is incorporated by reference herein, are cited in Development of Type III Site Specific Alternative Criteria (SSAC) for Nutrients, (DEP-SAS-004/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02912), identified a bove in Subsection 62-302.300(19), F.A.C.
- 1. FT 3000 Aquatic Habitat Characterization (DEP-SOP-001/01), dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06042),
- 2. Sampling and Use of the Stream Condition Index (SCI) for Assessing Flowing Waters: A Primer (DEP-SAS-001/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02906),
- 3. Sampling and Use of the Lake Vegetation Index (LVI) for Assessing Lake Plant Communities in Florida: A Primer (DEP-SAS-002/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02907),
- 4. Chapters 62-160 and 62-303, paragraphs 62-302.530(47)(b), 62-302.531(2)(a), and 62-302.531(c), and Rules 62-302.531 and 62-302.800, F.A.C.,
- 5. Process for Assessing Data Usability (DEP-EA 001/07), dated March 31, 2008 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02919),
- 6. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, U.S. Environmental Protection Agency, EPA-530/R-09-007, March 2009 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02920); and,
- 7. Helsel, D.R. and R. M. Hirsch, Techniques of Water-Resources Investigations of the United States Geological Survey, Book 4, Hydrologic Analysis and Interpretation, Chapter A3, Statistical Methods in Water Resources, pages 80 81, September 2002, U.S. Geological Survey (http://www.flrules.org/Gateway/reference.asp?No=Ref-02921).
- (f) The following scientific analytical methods and documents, each of which is incorporated by reference herein, are cited in Applicability of Chlorophyll *a* Methods (DEP-SAS-002/10), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02914), identified above in Subsection 62-302.300(19), F.A.C.
- 1. Method 445.0 *In Vitro* Determination of Chlorophyll *a* and Pheophytin *a* in Marine and Freshwater Algae by Fluorescence, Elizabeth J. Arar and Gary B. Collins, Revision 1.2, September 1997, National Exposure Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Cincinnati, OH (https://www.flrules.org/Gateway/reference.asp?No=Ref-02922)
- 2. Method 446.0 *In Vitro* Determination of Chlorophylls a, b, $c_1 + c_2$ and Pheopigments in Marine And Freshwater Algae by Visible Spectrophotometry, adapted by Elizabeth J. Arar, Revision 1.2, September 1997, National Exposure Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Cincinnati, OH (http://www.flrules.org/Gateway/reference.asp?No=Ref-02923),
- 3. Method 447.0 Determination of Chlorophylls *a* and *b* and Identification of Other Pigments of Interest in Marine and Freshwater Algae Using High Performance Liquid Chromatography with Visible Wavelength Detection, Eliza beth J. Arar, Version 1.0, September 1997, National Exposure Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Cincinnati, OH (http://www.flrules.org/Gateway/reference.asp?No=Ref-02924); and,
- 4. Standard Methods for the Examination of Water and Wastewater, Methods H.2.b, H.3. and H.4., 1999, American Public Health Association, American Water Works Association, Water Environment Federation (http://www.flrules.org/Gateway/reference.asp?No=Ref-02925).
- (g) The following rules, each of which is incorporated by reference herein, are cited in Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., dated July 9, 2006 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02917): Rules 62-4.242 and 62-4.246, F.A.C., paragraphs 62-4.244(3)(a) and (d), F.A.C., Chapters 62-160, 62-302, 62-520, 62-522, 62-528, 62-600, 62-601, 62-604, 62-610, 62-611, 62-620, 62-625, 62-640, 62-650, 62-660, 62-670, 62-671, 62-672, and 62-673, F.A.C.

 $Rule making \ Authority \ 403.061, \ 403.062, \ 403.087, \ 403.088, \ 403.504, \ 403.704, \ 403.804, \ 403.805 \ FS. \ Law \ Implemented \ 373.414, \ 403.021(11), \ 403.061, \ 403.085, \ 403.086, \ 403.087, \ 403.088, \ 403.101, \ 403.161, \ 403.182, \ 403.502, \ 403.702, \ 403.708, \ 403.802 \ FS. \ History-Formerly 17-3.041, \ Amended \ 1-28-90, \ Formerly \ 17-3.042, \ 17-302.300, \ Amended \ 12-19-94, \ 1-23-95, \ 12-26-96, \ 5-15-02, \ 12-7-06, \ 7-17-13, \ 2-17-16.$

62-302.400 Classification of Surface Waters, Usage, Reclassification, Classified Waters.

(1) All surface waters of the State have been classified according to designated uses as follows:

CLASSI	Potable Water Supplies	
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CLASS I-Treated	Treated Potable Water Supplies
CLASSII	Shellfish Propagation or Harvesting
CLASSIII	Fish Consumption; Recreation, Propagation and Maintenance of a Healthy, Well-Balanced
	Population of Fish and Wildlife
CLASS III-Limited	Fish Consumption; Recreation or Limited Recreation; and/or Propagation and Maintenance of a
	Limited Population of Fish and Wildlife
CLASSIV	Agricultural Water Supplies
CLASS V	Na vigation, Utility and Industrial Use

- (2) Classification of a waterbody according to a particular designated use or uses does not preclude use of the water for other purposes.
- (3) The specific water quality criteria corresponding to each surface water classification are listed in Rules 62-302.500 through 62-302.540, and 62-302.800, F.A.C.
- (4) Water quality classifications are arranged in order of the degree of protection required, with Class I water having generally the most stringent water quality criteria and Class V the least. However, Class I, II, and III surface waters share water quality criteria established to protect fish consumption, recreation and the propagation and maintenance of a healthy, well-balanced population of fish and wildlife. For manmade lakes, canals or ditches, or streams converted to canals before November 28, 1975, considered under subsections (5) and (11), below, the Department shall evaluate the limited a quatic life support and habitat limitations of such waters, recognizing the physical and hydrologic characteristics and water management uses for which they were constructed.
- (5) In addition to meeting applicable water quality criteria in Chapter 62-302, F.A.C., Class I-Treated Potable Water Supplies (Class I-Treated) waters shall also meet the requirements for discharged substances in Section 403.061(29)(b), F.S. Interested parties may provide the Department with documentation demonstrating that a Class I-Treated water would not attain the requirements of Section 403.061(29)(b), F.S., in accordance with Rule 62-620.555, F.A.C.
- (6) Class III-Limited surface waters share the same water quality criteria as Class III except for any site specific alternative criteria that have been established for the waterbody under Rule 62-302.800, F.A.C. Class III-Limited waters are restricted to waters with human-induced physical or habitat conditions that prevent attainment of Class III uses and do not include waterbodies that were created for mitigation purposes. "Limited recreation" means opportunities for recreation in the water are reduced due to physical conditions. "Limited population of fish and wildlife" means the a quatic biological community does not fully resemble that of a natural system in the types, tolerance and diversity of species present. Class III-Limited waters are restricted to:
- (a) Wholly artificial waterbodies that were constructed consistent with regulatory requirements under Part I or Part IV of Chapter 373, Part I or Part III of Chapter 378, or Part V of Chapter 403, F.S., or
- (b) Altered waterbodies that were dredged or filled prior to November 28, 1975. For purposes of this section, "altered waterbodies" are those portions of natural surface waters that were dredged or filled prior to November 28, 1975, to such an extent that they exhibit separate and distinct hydrologic and environmental conditions from any waters to which they are connected.
- (7) Criteria applicable to a classification are designed to maintain the minimum conditions necessary to assure the suitability of water for the designated use of the classification. In addition, applicable criteria are generally adequate to maintain minimum conditions required for the designated uses of less stringently regulated classifications. Therefore, unless clearly inconsistent with the criteria applicable, the designated uses of less stringently regulated classifications shall be deemed to be included within the designated uses of more stringently regulated classifications.
- (8) Any person regulated by the Department or having a substantial interest in a surface waterbody may seek reclassification of waters of the State by filing a petition with the Department in a coordance with Rule 28-103.006, F.A.C.
- (9) A petition for reclassification shall reference and be accompanied by the information necessary to support the affirmative findings required in this section, as described in the DEP document titled, "Process for Reclassifying the Designated Uses of Florida Surface Waters" (DEP-SAS-001/10), dated June 2010 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02960), incorporated by reference herein. Copies of the Process document may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400.
- (10) All reclassifications of waters of the State shall be adopted, after public notice (including notification to a ffected local and regional governments and sovereign American Indian tribes) and public hearing, only upon a ffirmative findings by the Environmental Regulation Commission that:
 - (a) The proposed reclassification will establish the present and future most beneficial use of the waters;

- (b) Such a reclassification is clearly in the public interest after considering public input, including consideration of input submitted by local and regional governing bodies and sovereign American Indian tribes, who represent the public interest where the waters, and a ffected upstream and downstream waters, are located;
 - (c) The proposed reclassification will not allow for the nonattainment of water quality standards in downstream waters;
 - (d) The demonstrations required under subsections (10)-(12), below, are met as applicable; and,
 - (e) The requirements contained in Rule 62-302.400, F.A.C., are satisfied.
- (11) Reclassification of waters of the State which establishes more stringent criteria than presently established by this chapter shall be a dopted, only upon additional a ffirmative finding by the Environmental Regulation Commission that the proposed designated use is attainable, upon consideration of environmental, technological, social, economic, and institutional factors. The assessment of attainability shall address upstream effects of reclassification.
- (12) If rulemaking is initiated to reclassify a water to a less stringent classification, the petitioner or the Department shall include in the reclassification documentation appropriate and scientifically defensible water quality, biological, hydrological, and habitat studies and analyses, as well as environmental, technological, social, and economic studies, including costs to small businesses and local governments, as necessary to establish the present and future most beneficial use by demonstrating that:
- (a) No existing uses are being removed and the less stringent criteria associated with the designation will not result in the nonattainment of water quality standards in downstream waters;
- (b) The designated uses being removed cannot be attained by implementing effluent limits required by sections 301 (b) and 306 of the Federal Clean Water Act in conjunction with implementation of cost-effective and reasonable best management requirements for nonpoint source pollution control; and,
 - (c) One or more of the following situations occur:
 - 1. Naturally occurring concentrations of substances prevent the attainment of the use,
- 2. Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met,
- 3. Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place,
- 4. Dams, diversions, or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the waterbody to its original condition or to operate such modification in a way that would result in the attainment of the use,
- 5. Physical conditions related to the natural features of the waterbody, such as the lack of a proper substrate, cover, flow, depth, pool, riffles, and the like, unrelated to water quality, preclude attainment of a quatic life protection uses, or
- 6. Controls more stringent than those required by sections 301(b) and 306 of the Federal Clean Water Act would result in substantial and widespread economic and social impact.
- (13) The petition for a Class III-Limited classification shall include appropriate Site Specific Alternative Criteria proposals that are protective of the most beneficial use as determined by the demonstration in subsection (9), a bove. Site Specific Alternative Criteria established to support the Class III-Limited designated use are restricted to numeric criteria for any or all of the following parameters: nutrients (including nutrient response variables), bacteria, dissolved oxygen, alkalinity, specific conductance, transparency, turbidity, biological integrity, or pH. Site Specific Alternative Criteria for these parameters shall not be set at levels less stringent than water quality conditions at the time of reclassification and shall not be subject to the limitations in paragraph 62-302.800(2)(d), F.A.C. Proposed site specific alternative criteria for other parameters must fully protect Class III uses.
- (14) Nothing contained in subsections (8) through (12), above, shall be deemed to pre-empt or prohibit the regulatory implementation, a doption, continuation or enforcement of more stringent criteria that are established by a local government through a local pollution control program.
- (15) The surface waters of the State of Florida are classified as Class III Recreation, Propagation and Maintenance of a Healthy, Well-Balanced Population of Fish and Wildlife, except for certain waters which are described in subsection 62-302.400(16), F.A.C. A waterbody may also be designated as an Outstanding Florida Water or an Outstanding National Resource Water. Outstanding Florida Waters and Outstanding National Resource Waters are not designated use classifications. A waterbody may also have special standards applied to it. However, notwithstanding any provision of this section, no classification action or change in designated use shall result in degradation of water quality in Outstanding Florida Waters or Outstanding National Resource Waters. Outstanding Florida Waters and Outstanding National Resource Waters are listed in Rule 62-302.700, F.A.C.

- (16) Unless otherwise specified, the following shall apply:
- (a) The landward extent of a classification shall coincide with the landward extent of waters of the state, as defined in Rule 62-340.600, F.A.C.
- (b) Water quality classifications shall be interpreted to include associated water bodies such as tidal creeks, coves, bays and bayous. Notwithstanding paragraph 62-302.400(15)(a), F.A.C., above the boundaries of Class II waters shall be limited to "Predominantly Marine Waters" as defined in subsection 62-302.200(30), F.A.C.
 - (17) Exceptions to Class III:
- (a) All secondary and tertiary canals wholly within a gricultural areas are classified as Class IV and are not individually listed as exceptions to Class III. "Secondary and tertiary canals" shall mean any wholly artificial canal or ditch which is behind a control structure and which is part of a water control system that is connected to the works (set forth in Section 373.086, F.S.) of a water management district created under Section 373.069, F.S., and that is permitted by such water management district pursuant to Section 373.103, 373.413, or 373.416, F.S. Agricultural areas shall generally include lands actively used solely for the production of food and fiber which are zoned for agricultural use where county zoning is in effect. Agricultural areas exclude lands which are platted and subdivided or in a transition phase to residential use;
- (b) The following listed waterbodies are classified as Class I, Class II, Class II, Class III-Limited, or Class V. Copies of the maps referenced below may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400. The written waterbody descriptions are to be read in conjunction with the incorporated maps; however, the maps will take precedence if any conflict is identified between the written descriptions and the maps.
 - 1. Alachua County-none.
 - 2. Baker County-none.
 - 3. Bay County

Class I

Bayou George and Creek – Impoundment to source.

Bear Creek - Impoundment to source.

Big Cedar Creek – Impoundment to source.

Deer Point Impoundment – Dam to source.

Econfina Creek – Upstream of Deer Point Impoundment.

Class II

East Bayand Tributaries – East of U.S. Highway 98 to, but excluding Wetappo Creek.

North Bay and Tributaries – North of U.S. Highway 98 to Deer Point Dam excluding Alligator Bayou and Fanning Bayous north of an east-west line through Channel Marker 3.

West Bay and Tributaries – West of North Bay (line from West Bay Point on the north to Shell Point on the South) except West Bay Creek (northwest of Channel Marker 27C off Goose Point), Crooked Creek (north of a line from Crooked Creek Point to Doyle Point), and Burnt Mill Creek (north of a line from Graze Point to Cedar Point).

- 4. Bradford County none.
- 5. Brevard County

Class I

St. Johns River and Tributaries – Lake Washington Dam south through and including Sawgrass Lake, Lake Hellen Blazes, to Indian River County Line.

Class II

All or portions of the Mosquito Lagoon, Banana River, Newfound Harbor, Indian River, and Goat, Kid and Trout Creeks, as shown on the maps titled "Class II waters in Brevard County, November 2015," (http://www.flrules.org/Gateway/reference.asp?No=Ref-06390) which are incorporated by reference herein.

- 6. Broward County none.
- 7. Calhoun County

Class I

Bear Creek.

Econfina Creek.

8. Charlotte County

Class I

Alligator Creek - North and South Prongs from headwaters to the water control structure downstream of SR 765-A.

Port Charlotte Canal System – Surface waters lying upstream of, or directly connected to, Fordham Waterway upstream of Conway Boulevard.

Prairie Creek – DeSoto County Line and headwaters to Shell Creek.

Shell Creek – Headwaters to Hendrickson Dam (east of Myrtle Slough, in Section 20, T40S, R24E).

Class II

Lemon Bay, Placida Harbor, and Tributaries – N. Charlotte County Line south to Gasparilla Sound and bounded on the east by SR 775.

Charlotte Harbor, Myakka River, and Gasparilla Sound – Waters except Peace River upstream from the northeastern point of Myakka Cutoff to the boat ramp in Ponce de Leon Park in south Punta Gorda, Catfish Creek north of N. Lat. 26°50'56", and Whidden Creek north of N. Lat. 26°51'15".

9. Citrus County

Class II

All coastal waters and tidal creeks within the county, excluding (a) waters landward of the mouths of Bungalou Pass, East Pass, Johns Creek, Trout Creek, and the Cross Florida Barge Canal entrance next to Trout Creek, (b) Crystal River, (c) a portion of the Salt River south of the northern juncture of Salt Creek, and (d) the St. Martins River from its mouth to Greenleaf Bay, all as shown on the map titled "Class II waters in Citrus County, November 2015," (http://www.flrules.org/Gateway/reference.asp?No=Ref-06391) which is incorporated by reference herein.

10. Clay County-none.

11. Collier County

Class I-Treated

Marco Lakes, as shown on the map titled "Class I and Class I-Treated Waters in Collier County, June 2016," (http://www.flrules.org/Gateway/reference.asp?No=Ref-07077) which is incorporated by reference herein.

Class II

Cocohatchee River.

Connecting Waterways - From Wiggins Pass south to Outer Doctors Bay.

Dollar Bay.

Inner and Outer Clam Bay.

Inner and Outer Doctors Bay.

Little Hickory Bay.

 $Tidal\,Ba\,ys\,and\,Passes-Nap\,les\,Bay\,and\,south\,and\,easterly\,through\,Rookery\,Bay\,and\,the\,Ten\,Thousand\,Islands\,to\,the\,Monroe\,County\,Line.$

Wiggins Pass.

- 12. Columbia County none.
- 13. Dade County none.
- 14. DeSoto County

Class I

Horse Creek – From the northern border of Section 14, Township 38 South, Range 23 East, southward to Peace River, as shown on the map titled "Class I and Class I-Treated Waters in DeSoto County, June 2016," (http://www.flrules.org/Gateway/reference.asp?No=Ref-07078) which is incorporated by reference herein.

Prairie Creek – From the headwaters of Prairie Creek to the Charlotte County line, as shown on the map titled "Class I and Class I-Treated Waters in DeSoto County, June 2016," which is incorporated by reference herein.

Class I-Treated

Peace River Segment – From the confluence with Horse Creek southward to the southern line of Section 15, Township 39 South, Range 23 East, as shown on the map titled "Class I and Class I-Treated Waters in DeSoto County, June 2016," (http://www.flrules.org/Gateway/reference.asp?No=Ref-07078) which is incorporated by reference herein.

15. Dixie County

Class II

All coastal waters within the county, excluding the mouth of the Suwannee River and its passes, as shown on the map titled "Class II waters in Dixie County, November 2015," (http://www.flrules.org/Gateway/reference.asp?No=Ref-06392) which is incorporated by reference herein.

16. Duval County

Class II

Ft. George River and Simpson Creeks – Ft. George Inlet north to Nassau Sound.

Intra coastal Waterway and Tributaries – Confluence of Nassau and Amelia Rivers south to Flashing Marker 73 thence eastward along Ft. George River to Ft. George Inlet and includes Garden Creek.

Nassau River and Creek – From the mouth of Nassau Sound, (a line connecting the northeasternmost point of Little Talbot Island to the southeasternmost tip of Amelia Island westerly to a north-south line through Seymore Point. Pumpkinhill Creek.

17. Escambia County

Class II

Escambia Bay – Louisville and Nashville Railroad Trestle south to Pensacola Bay (Line from Emanuel Point east northeasterly to Garcon Point).

Pensacola Bay – East of a line connecting Emanuel Point on the north to the south end of the Pensacola Bay Bridge (U.S. Highway 98).

Santa Rosa Sound – East of a line connecting Gulf Breeze approach to Pensacola Beach (Pensacola Beach Bridge), and Sharp Point with exception of the Navarre Beach area from a north-south line through Channel Marker 106 to Navarre Bridge.

18. Flagler County

Class II

Matanzas River (Intracoastal Waterway) – N. Flagler County Line south to an east-west line through Fl. Marker 109. Pellicer Creek.

19. Franklin

Class II

All or portions of Alligator Harbor, Apalachicola Bay, East Bay and its tributaries, the coastal waters north of a line from Peninsula Point on Alligator Point to the southeastern tip of Dog Island, Ochlockonee Bay, St. George Sound, and St. Vincent Sound, as shown on the maps titled "Class II waters in Franklin County, November 2015," (http://www.flrules.org/Gateway/reference.asp?No=Ref-06393) which are incorporated by reference herein.

20. Gadsden County

Class I

Holman Branch – SR 270-A to source.

Mosquito Creek – U.S. Highway 90 north to Florida State Line.

Quincy Creek – SR 65 to source.

- 21. Gilchrist County none.
- 22. Glades County

Class I

Lake Okeechobee.

23. Gulf County

Class I-Treated

Port St. Joe Canal, as shown on the map titled "Class I and Class I-Treated Waters in Gulf County, June 2016," (http://www.flrules.org/Gateway/reference.asp?No=Ref-07079) which is incorporated by reference herein.

Class II

Indian Lagoon – West of Indian Pass and St. Vincent Sound.

St. Joseph Bay – South of a line from St. Joseph Point due east, excluding an area that is both within an arc 2.9 miles from the center of the mouth of Gulf County Canal and east of a line from St. Joseph Point to the northwest corner of Section 13, Township 8 South, Range 11 West.

24. Hamilton County – none.

- 25. Hardee County-none.
- 26. Hendry County

Class I

Lake Okeechobee, as shown on the map titled "Class I and Class I-Treated Waters in Hendry County, June 2016," (http://www.flrules.org/Gateway/reference.asp?No=Ref-07080) which is incorporated by reference herein.

Class I-Treated

Ca loosahatchee River Segment – From State Road 29 (Bridge Street) westward to the Lee County line, as shown on the map titled "Class I and Class I-Treataed Waters in Hendry County, June 2016," (http://www.flrules.org/Gateway/reference.asp?No=Ref-07080) which is incorporated by reference herein.

- 27. Hernando County none.
- 28. Highlands County-none.
- 29. Hillsborough County

Class I

Cow House Creek – Hillsborough River to source, as shown on the map titled "Class I and Class I-Treated Waters in Hillsborough County, June 2016," (http://www.flrules.org/Gateway/reference.asp?No=Ref-07081) which is incorporated by reference herein. Hillsborough River – City of Tampa Water Treatment Plant Dam to Flint Creek, as shown on the map titled "Class I and Class I-Treated Waters in Hillsborough County, June 2016," (http://www.flrules.org/Gateway/reference.asp?No=Ref-07081) which is incorporated by reference herein.

Class I-Treated

Ala fia River Segment – From Lithia Pinecrest Road (County Road 640) westward to Bell Shoals Road, as shown on the map titled "Class I and Class I-Treated Waters in Hillsborough County, June 2016," (http://www.flrules.org/Gateway/reference.asp?No=Ref-07081) which is incorporated by reference herein.

Tampa By-Pass Canal Segment – From the control structure S-163 at Cow House Creek to the control structure S-160 (north of State Road 60), and Harney Canal west to Harney Road, as shown on the map titled "Class I and Class I-Treated Waters in Hillsborough County, June 2016," (http://www.flrules.org/Gateway/reference.asp?No=Ref-07081) which is incorporated by reference herein.

Class II

All or portions of Tampa Bay, Old Tampa Bay, and Mobbly Bay, excluding waters in the Tampa Harbor Channel and waters north of SR 580 in Rocky and Double Branch Creeks, as shown on the map titled "Class II waters in Hillsborough County, November 2015," (http://www.flrules.org/Gateway/reference.asp?No=Ref-06394) which is incorporated by reference herein.

- 30. Holmes County none.
- 31. Indian River County

Class I

St. Johns River and Tributaries – Brevard County Line south through and including Blue Cypress Lake to SR 60.

Class II

Portions of Indian River, as shown on the maps titled "Class II waters in Indian River County, November 2015," (http://www.flrules.org/Gateway/reference.asp?No=Ref-06395) which are incorporated by reference herein.

32. Jackson County.

Class I

Econfina Creek – Bay County to source.

33. Jefferson County

Class II

Coastal Waters – Within the county, excluding the mouth of Aucilla River.

- 34. La fayette County none.
- 35. Lake County none.
- 36. Lee County

Class I

Caloosahatchee River – E. Lee County Line to South Florida Water Management District Structure 79.

Class II

Charlotte Harbor.

Matanzas Pass, Hurricane Bay, and Hell Peckish (Peckney) Bay – From San Carlos Bay to a line from Estero Island through the southernmost tip of the unnamed island south of Julies Island, northeastward to the southernmost point of land in section 27, T46S, R24E.

Matlacha Pass - Charlotte Harbor to San Carlos Bay.

Pine Island Sound-Charlotte Harbor to San Carlos Bay.

San Carlos Bay – From a line from point Ybel to Bodwitch Point northward to a line from the eastern point at the mouth of Punta Blanca Creek, southeast through the southern point of Big Shell Island to the mainland and westward to Pine Island Sound.

- 37. Leon County none.
- 38. Levy County

ClassII

All coastal waters and tidal creeks in the county, excluding the mouth of the Suwannee River and its passes, portions of Alligator Pass and Cedar Key, and the mouth of the Withlacoochee River, as shown on a map titled "Class II waters in Levy County, November 2015," (http://www.flrules.org/Gateway/reference.asp?No=Ref-06396) which is incorporated by reference herein.

- 39. Liberty County none.
- 40. Madison County none.
- 41. Manatee County

Class I

Manatee River – From Rye Bridge Road to the sources thereof, including but not limited to the following tributaries: the East Fork of the Manatee River, the North Fork of the Manatee River, Boggy Creek, Gilley Creek, Poley Branch, Corbit Branch, Little Deep Branch, Fisher Branch, Ft. Crawford Creek, Webb Branch, Clearwater Branch, Craig Branch, and Guthrey Branch.

Lake Evers (Ward Lake) and Braden River – City of Bradenton Water Treatment Dam to SR 675, excluding upland cut irrigation or drainage ditches and including the following tributaries:

	Tributary	Upstream Limit(s)
a.	RattlesnakeSlough	Lockwood Ridge Road in Section 28, Township 35 South, Range 18 East.
b.	CedarCreek	
	West Branch	Whitfield Avenue in Section 27, Township 35 South, Range 18 East.
	Central Branch	Country Club Way in Section 34, Township 35 South, Range 18 East.
	East Branch	To a point where an east-west line lying 1,200 feet south of the section line between Sections 23 and 26 (Township 35 South, Range 18 East) crosses the tributary.
c.	Cooper Creek	
	West Branch	(Foley Branch) South Boundary of Section 1, Township 36 South, Range 18 East.
	East Branch	East Boundary of Section 31, Township 35 South, Range 19 East.
d.	Nonsense Creek	To a point where an east-west line lying 800 feet North of the section line between Sections 14 and 23 (Township 35 South, Range 18 East) crosses the creek.
e.	Hickory Hamock	To a point where an east-west line lying 1,000 feet South of the section line between Sections 17 and 20 (Township 35 South, Range 19 East) crosses the creek.
f.	Wolf Slough	East Boundary of Section 16, Township 35 South, Range 19 East.
g.	Unnamed Tributary 1	To a point where an east-west line lying 2,300 feet south of the section line between Sections 21 and 28 (Township 35 South, Range 19 East) crosses the tributary.
h.	Unnamed Tributary 2	East Boundary of Section 14, Township 35 South, Range 19 East.
i.	Unnamed Tributary 3	West Boundary of Section 25, Township 35 South, Range 19 East.
j.	Unna med Tributary 4	To a point where a north-south line lying 200 feet East of the section line between Sections 23 and 24 (Township 35 South, Range 19 East) crosses the tributary.

Class II

Gulf and Coastal Waters of Tampa Bay – (Including, but not limited to Terra Ceia Bay, Perico Bayou, Palma Sola Bay, and Sarasota Bay), excluding waters northward of a line from the southern shore of the mouth of Little Redfish Creek northwesterly through the red marker (approximately one nautical mile away) to the county line; Manatee River upstream of a line from Emerson Pt. to Mead Pt.

Gulf Waters – North of 27°31'N. Lat. 42. Marion County – none. 43. Martin County Class I Lake Okeechobee. Class II Great Pocket – St. Lucie River to Peck's Lake. Indian River - N. Martin County Line south to the mouth of St. Lucie Inlet, east of the Intracoastal Waterway Channel centerline. Loxa hatchee River - West of the Florida East Coast Railroad Bridge including Southwest, Northwest, and North Forks. 44. Monroe County Class II Monroe County Coastline - From Collier and Dade County Lines southward to and including that part of Florida Bay within Everglades National Park. 45. Nassau County Class II Alligator Creek. Nassau River and Creek - From the mouth of Nassau Sound (a line connecting the northeasternmost point of Little Talbot Island to the southeasternmost point of Amelia Island) westerly to Seymore Point. South Amelia River - Na ssau River north to a line from the northern shore of the mouth of Alligator Creek to the northernmost shore of Harrison Creek. Waters between South Amelia River and Alligator Creek. 46. Okaloosa County Class II Choctawhatchee Bay and Tributaries - From a line from White Point southwesterly through Fl. Light Marker 2 of the Intracoastal Waterway, eastward to the county line, including East Pass. Rocky Bayou - Choctawhatchee Bay (from a line extending due east from Shirk Point) to Rocky Creek. Santa Rosa Sound - From a north-south line through Manatee Point west to the Santa Rosa County Line. 47. Okeechobee County Class I Lake Okeechobee. 48. Orange County – none. 49. Osceola County-none. 50. Palm Beach County Class I Canal C-18 (freshwater portion). City of West Palm Beach Water Catchment Area. Clear Lake, Lake Mangonia, and the waterway connecting them. Lake Okeechobee. M-Canal-L-8 to Lake Mangonia. Class II Canal C-18 – Salinity barrier to Loxahatchee River. Loxa hatchee River – Upstream of Florida East Coast railroad bridge including Southwest, Northwest, and North Forks. 51. Pasco County-none. 52. Pinellas County ClassII

east-west line through Phillipi Point.

Tampa Bay and Gulf waters – West of Sunshine Skyway (SR 55), excluding waters north of SR 682 and waters that are both west of

Pinellas Bayway and north of an east-west line through the southernmost point of Pine Key.

Old Tampa Bay, Mobbly Bay and Tampa Bay – South and westward to Sunshine Skyway (SR 55), except Safety Harbor north of an

- 53. Polk County none.
- 54. Putnam County none.
- 55. St. Johns County

Class II

Guano River and Tributaries – From Guano Lake Dam south to Tolomato River.

Matanzas River, Intracoastal Waterway and Tributaries, excluding Treasure Beach Canal System – From Intracoastal Waterway Marker number 29, south to Flagler County Line.

Pellicer Creek.

Salt Run – Waters south of an east-west line connecting Lighthouse Park boat ramp with Conch Island.

Tolomato River (North River) and Tributaries – From a line connecting Spanish Landing to Booth Landing, south to an east-west line through Intracoastal Waterway Marker number 55.

56. St. Lucie County

Class II

Portions of Indian River, as shown on the map titled "Class II waters in St. Lucie County, November 2015," (http://www.flrules.org/Gateway/reference.asp?No=Ref-06397) which is incorporated by reference herein.

57. Santa Rosa County

Class II

Blackwater Bay – From a line connecting Robinson's Point to Broad River south to East Bay (line due west from Escribano Point). East Bay and Tributaries – Blackwater Bay (line due west from Escribano Point) southerly to Pensacola Bay (line from Garcon Point on the north to Redfish Point on the south).

Escambia Bay – Louisville and Nashville Railroad Trestle south to Pensacola Bay (Line from Emanuel Point east northeasterly to Garcon Point).

Pensacola Bay – East of a line connecting Emanuel Point on the north to the south end of the Pensacola Bay Bridge (U.S. Highway 98).

Santa Rosa Sound – From a line connecting Gulf Breeze approach to Pensacola Beach, (Pensacola Beach Bridge), and Sharp Point, east to Santa Rosa/Okaloosa County line with exception of the Na varre Beach area from a north-south line through Channel Marker 106 eastward to Na varre Beach Toll Road.

58. Sarasota County

Class I

Big Slough Canal - South to U.S. 41.

Cooper Creek (Foley Branch) upstream to the South boundary of Section 1, Township 36 South, Range 18 East.

Myakka River – From the Manatee County line southwesterly through Upper and Lower Myakka Lakes to Manhattan Farms (north line of Section 6 T39S, R20E).

Class II

Lemon Bay – From a line ea stward from the northern shore of the mouth of Forked Creek south to Charlotte County Line.

Myakka River – From the western line of section 35, T39S, R20E south to Charlotte County Line.

Sarasota Bay – West of the Intracoastal Waterway Channel centerline.

- 59. Seminole County none.
- 60. Sumter County none.
- 61. Suwannee County none.
- 62. Taylor County

Class V

Fenholloway River. Repealed effective December 31, 1997.

- 63. Union County none.
- 64. Volusia County

Class II

All or portions of Indian River North, Indian River Lagoon, and Mosquito Lagoon, as shown on the map titled "Class II waters in Volusia County, November 2015," (http://www.flrules.org/Gateway/reference.asp?No=Ref-06398) which is incorporated by

reference herein.

65. Wakulla County

Class II

Coastal Waters and Tributaries – From Jefferson County Line westward with the exception of Spring Creek and the portion of King Bay (Dickerson Bay) west and north of a line from the westernmost tip of Porter Island south to Hungry Point, and Walker Creek north of a line from Live Oak Point southwest across the Creek to the closest tip of Shell Point.

66. Walton County

Class II

Portions of Choctawhatchee Bay and its tributaries, as shown on the map titled "Class II waters in Walton County, November 2015," (http://www.flrules.org/Gateway/reference.asp?No=Ref-06399) which is incorporated by reference herein.

67. Washington County

Class I

Econfina Creek.

Rulemaking Authority 403.061, 403.062, 403.087, 403.088, 403.504, 403.704, 403.704, 403.804 FS. Law Implemented 403.021(11), 403.061, 403.087, 403.088, 403.141, 403.161, 403.182, 403.502, 403.504, 403.702, 403.708 FS. History—Formerly 28-5.06, 17-3.06, Amended and Renumbered 3-1-79, Amended 1-1-83, 2-1-83, Formerly 17-3.081, Amended 4-25-93, Formerly 17-302.400, Amended 12-26-96, 8-24-00, 12-7-06, 8-5-10, 8-1-13, 2-17-16. 11-17-16.

62-302.500 Surface Waters: Minimum Criteria, General Criteria.

- (1) Minimum Criteria. All surface waters of the State shall at all places and at all times be free from:
- (a) Domestic, industrial, agricultural, or other man-induced non-thermal components of discharges which, a lone or in combination with other substances or in combination with other components of discharges (whether thermal or non-thermal):
 - 1. Settle to form putrescent deposits or otherwise create a nuisance, or
 - 2. Float as debris, scum, oil, or other matter in such amounts as to form nuisances, or
 - 3. Produce color, odor, taste, turbidity, or other conditions in such degree as to create a nuisance, or
 - 4. Are a cutely toxic, or
- 5. Are present in concentrations which are carcinogenic, mutagenic, or teratogenic to human beings or to significant, locally occurring, wildlife or aquatic species, unless specific standards are established for such components in subsection 62-302.500(2) or Rule 62-302.530, F.A.C., or
 - 6. Pose a serious danger to the public health, safety, or welfare.
- (b) Thermal components of discharges which, alone, or in combination with other discharges or components of discharges (whether thermal or non-thermal):
 - 1. Produce conditions so as to create a nuisance, or
 - 2. Do not comply with applicable provisions of Rule 62-302.520, F.A.C.
 - (c) Silver in concentrations above 2.3 micrograms/liter in predominently marine waters.
- (d) Lindane (g-benzene hexachloride) in concentrations above 0.16 micrograms/liter in predominantly marine waters or in concentrations above 0.95 micrograms/liter in predominantly fresh waters.
 - (2) General Criteria.
- (a) The criteria of surface water quality provided in subsection 62-302.500(2) and Rule 62-302.530, F.A.C., shall apply to all surface waters outside zones of mixing except:
 - 1. Where inconsistent with the limitations of Section 403.061(7), F.S., or
 - 2. Where relief from such criteria has been granted pursuant to other applicable rules of the Department.
- (b) The Department may establish a Technical Advisory Committee on request or on its own initiative, to review and advise the Department about the sufficiency and validity of data or methodologies and the need for revision of numerical surface water quality criteria established in this rule chapter. The committee shall be appointed by the Secretary and consist of professionals knowledgeable about the specific criteria to be reviewed. The committee shall be chaired by a representative of the Department and shall meet at the call of the chair. Any findings, conclusions, or recommendations of the committee shall be conveyed to the Secretary and to the chair of the Commission but shall not bind the Department.

- (c) Effluent limits may be established for pollutants for which analytical detection limits are higher than the established water quality criteria based upon computation of concentrations in the receiving waters. Effluent limits will be established on site-specific conditions in the context of a Department permit. Monitoring reports and permit applications shall specify the detection limits and indicate non-detectable results in such cases. Unless otherwise specified, such non-detectable results shall be accepted as demonstrating compliance for that pollutant as long as specified effluent limits are met.
- (d) Criteria for metals in Rule 62-302.530 and paragraph 62-302.500(1)(c), F.A.C., are measured as total recoverable metal. However, cadmium, chromium, copper, lead, nickel, silver, and zinc may be applied as dissolved metals when, as part of a permit application, a dissolved metals translator has been established according to the procedures described in the document, "Guidance for Establishing a Metals Translator", Florida Department of Environmental Protection, December 17, 2001.
- (e) A violation of any surface water quality criterion as set forth in this chapter constitutes pollution. For certain pollutants, numeric criteria have been established to protect human health from an unacceptable risk of additional cancer caused by the consumption of water or aquatic organisms. These numeric criteria are based on annual average flow conditions. However, this allowable annual average does not relieve any activity from complying with subsection 62-302.500(1), Rule 62-302.530, F.A.C., or any other provision of water quality standards.
- (f) Notwithstanding the specific numerical criteria applicable to individual classes of water, dissolved oxygen levels that are attributable to natural background conditions or man-induced conditions which cannot be controlled or a bated may be established as alternative dissolved oxygen criteria for a water body or portion of a water body. Alternative dissolved oxygen criteria may be established by the Secretary or a Director of District Management in conjunction with the issuance of a permit or other Department action only after public notice and opportunity for public hearing. The determination of alternative criteria shall be based on consideration of the factors described in subparagraphs 62-302.800(1)(a)1.-4., and subsections 62-302.533(3)-(4), F.A.C. Alternative criteria shall not result in a lowering of dissolved oxygen levels in the water body, water body segment or any adjacent waters, and shall not violate the minimum criteria specified in subsection 62-302.500(1), F.A.C. Daily and seasonal fluctuations in dissolved oxygen levels shall be maintained.

Rulemaking Authority 403.061, 403.062, 403.087, 403.504, 403.704, 403.804 FS. Law Implemented 403.021(11), 403.061, 403.087, 403.088, 403.141, 403.161, 403.182, 403.502, 403.702, 403.708 FS. History—Formerly 28-5.02, 17-3.02, Amended 10-28-78, Amended and Renumbered 3-1-79, Amended 1-1-83, 10-4-89, Formerly 17-3.051, Amended 4-25-93, Formerly 17-302.500, Amended 1-15-96, 12-26-96, 5-15-02, 12-7-06, 8-1-13.

62-302.520 Thermal Surface Water Criteria.

All discharges or proposed discharges of heated water into receiving bodies of water (RBW) which are controlled by the State shall be subjected to a thorough study to assess the consequences of the discharge upon the environment. The State shall be divided into two general climatological zones: Peninsular Florida, which varies from tropical in nature to temperate but is modified by the peninsular configuration and is the area south of latitude 30°N (excluding Gulf and Franklin Counties): and Northern Florida which is temperate and continental and is the area above latitude 30°N plus the portions of Gulf and Franklin Counties which lie below 30°N.

- (1) Heated water discharges existing on July 1, 1972:
- (a) Shall not increase the temperature of the RBW so as to cause substantial damage or harm to the aquatic life or vegetation therein or interfere with beneficial uses assigned to the RBW;
 - (b) Shall be monitored by the discharger to ensure compliance with this rule; and,
- (c) If the Department, pursuant to notice and opportunity for hearing, finds by a preponderance of the evidence that a discharge has caused substantial damage, it may require conversion of such discharge to offstream cooling or approved alternate methods. In making determinations regarding such conversions, the Department may consider:
 - 1. The nature and extent of the existing damage,
 - 2. The projected lifetime of the existing discharge,
- 3. Any adverse economic and environmental (including non-water quality) impacts which would result from such conversion; and,
 - 4. Such other factors as may be appropriate.
- (2) Heated water sources proposed for future discharges into RBW controlled by the State shall not increase the water temperature by more than the monthly temperature limits prescribed for the particular type and location of the RBW. New sources shall include all expansions, modifications, alterations, replacements, or repairs which result in an increased output of ten percent (10%) or more of

the level of energy production which existed on the date this rule became effective. Water temperatures shall be measured by procedures approved by the Florida Department of Environmental Protection (DEP). In all cases where a temperature rise above ambient is allowed and a maximum RBW temperature is also prescribed, the lower of the two limitations shall be the control temperature.

- (3) Definitions.
- (a) Ambient (natural) temperature of a RBW shall mean the existing temperature of the receiving water at a location which is unaffected by man-made thermal discharges and a location which is also of a depth and exposure to winds and currents which typify the most environmentally stable portions of the RBW.
 - (b) Coastal waters shall be all waters in the State which are not classified as fresh waters or as open waters.
- (c) A cooling pond is a body of water enclosed by natural or constructed restraints which has been approved by the Florida DEP for purposes of controlling heat dissipation from thermal discharges.
- (d) An existing heat source is any thermal discharge (a) which is presently taking place, or (b) which is under construction or for which a construction or operation permit has been issued prior to the effective date of this rule.
- (e) Fresh waters shall be all waters of the State which are contained in lakes and ponds, or are in flowing streams above the zone in which tidal actions influence the salinity of the water and where the concentration of chloride ions is normally less than 1,500 milligrams per liter.
- (f) Open water shall be all waters in the State extending seaward from the most seaward 18-foot depth contour line (three-fathom bottom depth contour) which is offshore from any island; exposed or submerged bar or reef; or mouth of any embayment or estuary which is narrowed by headlands. Contour lines shall be determined from Coast and Geodetic Survey Charts.
- (g) The point of discharge (POD) for a heated water discharge shall be primarily that point at which the effluent physically leaves its carrying conduit (open or closed), and discharges into the waters of the state, or, in the event it is not practicable to measure temperature at the end of the discharge conduit, a specific point designated by the Florida DEP for that particular thermal discharge.
- (h) Heated water discharges are the effluents from commercial or industrial activities or processes in which water is used for the purpose of transporting waste heat, and which constitute heat sources of one million British Thermal Units per hour (1,000,000 BTU/HR.), or greater.
- (i) Blowdown shall mean the minimum discharge of recirculating cooling water for the purpose of discharging materials contained in the water, the further buildup of which could cause concentrations in amounts exceeding limits established by best engineering practice.
- (j) Recirculating cooling water shall mean water which is used for the purpose of removing waste heat and then passed through a cooling system for the purpose of removing such heat from the water and then, except for blowdown, is used again to remove waste heat.
 - (4) Monthly and Maximum Temperature Limits.
- (a) Fresh Waters Heated water with a temperature at the POD more than 5° F higher than the ambient (natural) temperature of any stream shall not be discharged into such stream. At all times under all conditions of stream flow the discharge temperature shall be controlled so that at least two-thirds (2/3) of the width of the stream's surface remains at ambient (natural) temperature. Further, no more than one-fourth (1/4) of the cross-section of the stream at a traverse perpendicular to the flow shall be heated by the discharge. Heated water with a temperature at the POD more than 3° F higher than the ambient (natural) temperature of any lake or reservoir shall not be discharged into such lake or reservoir. Further, no heated water with a temperature above 90° F shall be discharged into any fresh waters in Northern Florida regardless of the ambient temperature of the RBW. In Peninsular Florida, heated waters above 92° F shall not be discharged into fresh waters.
- (b) Coastal Waters Heated water with a temperature at the POD more than 2° F higher than the ambient (natural) temperature of the RBW shall not be discharged into coastal waters in any zone during the months of June, July, August, and September. During the remainder of the year, heated water with a temperature at the POD more than 4° F higher than the ambient (natural) temperature of the RBW shall not be discharged into coastal waters in any zone. In addition, during June, July, August, and September, no heated water with a temperature above 92° F shall be discharged into coastal waters. Further, no heated water with a temperature above 90° F shall be discharged into coastal waters during the period October thru May.
- (c) Open Waters Heated water with a temperature at the POD up to 17° F above ambient (natural) temperature of the RBW may be discharged from an open or closed conduit into open waters under the following restraints: The surface temperature of the RBW shall not be raised to more than 97° F and the POD must be sufficient distance offshore to ensure that the adjacent coastal waters are

not heated beyond the temperatures permitted in such waters.

- (d) Cooling Ponds The temperature for heated water discharged from a cooling pond shall be measured at the POD from the pond, and the temperature limitation shall be that specified for the RBW.
 - (5) General.
- (a) Daily and seasonal temperature variations that were normal to the RBW before the addition of heat from other than natural causes shall be maintained.

(b) Recapitulation of temperature limitations prescribed above:

COASTAL									
ZONE	STREAMS	LAKES	SUMMER	REMAINDER	OPEN				
NORTH.	90°F Max	90°F Max.	92°F Max.	90°F Max.	97°F Max.				
	$AM + 5^{\circ} F$	$AM + 3^{\circ} F$	$AM + 2^{\circ} F$	$AM + 4^{\circ} F$	AM + 17° F				
PENIN.	92°F Max.	92°F Max.	92°F Max.	90°F Max.	97°F Max.				
	$AM + 5^{\circ} F$	AM + 3° F	AM + 2° F	$AM + 4^{\circ} F$	AM + 17° F				

- (6) Upon application on a case-by-case basis, the Department may establish a zone of mixing beyond the POD to afford a reasonable opportunity for dilution and mixture of heated water discharges with the RBW, in the following manner:
- (a) Zones of mixing for thermal discharges from non-recirculated cooling water systems and process water systems of new sources shall be allowed if supported by a demonstration, as provided in Section 316(a), Public Law 92-500 and regulations promulgated thereunder, including 40 C.F.R. Part 122, by an applicant that the proposed mixing zone will assure the protection and propagation of a balanced, indigenous population of shellfish, fish and wildlife in and on the body of water into which the discharge is to be made and such demonstration has not been rebutted. It is the intent of the Commission that to the extent practicable, proceedings under this provision should be conducted jointly with proceedings before the federal government under Section 316(a), Public Law 92-500.
- (b) Zones of mixing for blowdown discharges from recirculated cooling water systems, and for discharges from non-recirculated cooling water systems of existing sources, shall be established on the basis of the physical and biological characteristics of the RBW.
- (c) When a zone of mixing is established pursuant to this subsection 62-302.520(6), F.A.C., any otherwise applicable temperature limitations contained in Rule 62-302.520, F.A.C., shall be metatits boundary; however, the Department may also establish maximum numerical temperature limits to be measured at the POD and to be used in lieu of the general temperature limits in Rule 62-302.520, F.A.C., to determine compliance by the discharge with the established mixing zone and the temperature limits in Rule 62-302.520, F.A.C.

Rulemaking Authority 403.061, 403.062, 403.087, 403.504, 403.704, 403.804 FS. Law Implemented 403.021(11), 403.061, 403.087, 403.088, 403.141, 403.161, 403.182, 403.502, 403.702, 403.708 FS. History—Formerly 28-5.02, 17-3.02, Amended 10-28-70, Amended and Renumbered 3-1-79, Formerly 17-3.05, 17-3.05, 17-3.05, 17-3.05, 17-3.05.

62-302.530 Table: Surface Water Quality Criteria.

The following table contains both numeric and narrative surface water quality criteria to be applied except within zones of mixing. The left-hand column of the Table is a list of constituents for which a surface water criterion exists. The headings for the water quality classifications are found at the top of the Table, and the classification descriptions for the headings are specified in subsection 62-302.400(1), F.A.C. Applicable criteria lie within the Table. The individual criteria should be read in conjunction with other provisions in water quality standards, including Rule 62-302.500, F.A.C. The criteria contained in Rule 62-302.500, F.A.C., also apply to all waters unless alternative or more stringent criteria are specified in Rule 62-302.530, F.A.C. Unless otherwise stated, all criteria express the maximum not to be exceeded at any time except within established mixing zones or in accordance with site-specific effluent limitations developed pursuant to Rule 62-620.620, F.A.C. In some cases, there are separate or additional limits, which apply independently of the maximum not to be exceeded at any time. For example, the criteria for carcinogens, which are expressed as an annual average (denoted as "annual avg." in the Table), are applied as the maximum allowable annual average concentration at the long-term harmonic mean flow (see subsection 62-302.200(2), F.A.C.). Numeric interpretations of the narrative nutrient criterion in paragraph 62-302.530(47)(b), F.A.C., shall be expressed as spatial averages and applied over a spatial area consistent with their derivation. In applying the water quality standards, the Department shall take into account the variability occurring in nature and shall recognize the statistical variability inherent in sampling and testing procedures. The Department's assessment methodology, set forth in Chapter 62-303, F.A.C., accounts for such natural and statistical variability when used to assess ambient waters pursuant to sections 305(b) and 303(d) of the Federal Clean Water Act.

	Criteria for Surface Water Quality Classifications							
Pa ra meter	Units	Class I	Class II	Lim (see N		Class IV	Class V	
(1) Alka linity	Milligrams/L as CaCO3	Shall not be depressed below 20. In waterbodies with natural a lka linity levels below 20 mg/L, a lka linity shall not be reduced by more than 25%.		Shall not be depressed below 20. In waterbodies with natural alkalinity levels below 20 mg/L, alkalinity shall not be reduced by more than 25%.		≤600		
(2) Aluminum	Milligrams/L		≤1.5		<u>≤</u> 1.5			
(3) Ammonia (Total Ammonia Nitrogen) (Class I, Class III fresh water, and Class III- Limited fresh water)	Nitrogen (TAN = NH ₄ ⁺ + NH ₃)	The 30-day a verage TAN value shall not exceed the a verage of the values calculated from the following equation, with no single value exceeding 2.5 times the value from the equation:						
(4) Antimony	Micrograms/L	<u>≤</u> 14.0	≤4,300	≤4,300	≤4,300			
(5)(a) Arsenic (total)	Micrograms/L	≤10	≤50	≤ 50	≤ 50	≤ 50	≤50	
(5)(b) Arsenic (triva lent)	Micrograms/L measuredas total recoverable Arsenic		≤36		≤36			

(()(-) D4111	NI1	MDNI ME		
(6)(a) Bacteriological	Numberper	MPN or MF		
Quality (Fecal	100 ml (Most	counts shall		
Coliform Bacteria)	Probable	not exceeda		
	Number	medianvalue		
	(MPN) or	of 14 with		
	Membrane	not more		
	Filter (MF))	than 10% of		
		the samples		
		exceeding		
		the Ten		
		Percent		
		Threshold		
		Value		
		(TPTV) of		
		43 (for		
		MPN) or 31		
		(for MF), nor		
		exceed 800		
		on any one		
		day. To		
		determine the		
		percentage of		
		samples		
		exceeding		
		the criteria		
		when there		
		are both		
		MPNand		
		MF samples		
		fora		
		waterbody,		
		the percent		
		shallbe		
		calculated as		
		$100*(n_{mpn}+n)$		
		mf)/N, where		
		n _{mpn} is the		
		number of		
		MPN		
		samples		
		greaterthan		
		$43, n_{\rm mf} \text{ is the}$		
		number of		
		MF samples		
		_		
		greater than 31, and N is		
		the total		
		number of		

			MPNand			
			MF samples.			
(6) (b) Bacteriological	Numberper	MPN or MF		MPN or MF		
Quality (Escherichia	100 ml (Most	counts shall		counts shall		
coli Bacteria)	Probable	not exceed a		not exceed a		
	Number	monthly		monthly		
	(MPN) or	geometric		geometric		
	Membrane	mean of 126		mean of 126		
	Filter (MF))	norexceed		nor exceed the		
		the Ten		Ten Percent		
		Percent		Threshold		
		Threshold		Value (TPTV)		
		Value		of 410 in 10%		
		(TPTV) of		or more of the		
		410 in 10%		samples		
		or more of		during any 30-		
		the samples		day period.		
		duringany		Monthly		
		30-day		geometric		
		period.		means shall be		
		Monthly		based on a		
		geometric		minimum of		
		means shall		10 samples		
		be based on		takenovera		
		a minimum		30-day period.		
		of 5				
		samples				
		taken over a				
		30-day				
		period.				

(6)(c) Bacteriological	Numberper		MPN or MF		MPN or MF		
Quality (Enterococci	100 ml (Most		counts shall		counts shall		
Bacteria)	Probable		not exceed a		not exceed a		
,	Number		monthly		monthly		
	(MPN) or		geometric		geometric		
	Membrane		mean of 35		mean of 35		
	Filter (MF))		norexceed		norexceed		
			the Ten		the Ten		
			Percent		Percent		
			Threshold		Threshold		
			Value		Value		
			(TPTV) of		(TPTV) of		
			130 in 10%		130 in 10% or		
			or more of		more of the		
			the samples		samples		
			duringany		duringany		
			30-day		30-day		
			period.		period.		
			Monthly		Monthly		
			geometric		geometric		
			means shall		means shall		
			be based on a		be based on a		
			minimumof		minimum of		
			10 samples		10 samples		
			takenovera		takenovera		
			30-day		30-day		
			period.		period.		
(7) Barium	Milligrams/L	≤ 1					
(8) Benzene	Micrograms/L	≤1.18	≤71.28	< 71.28	< 71.28		
			annualavg.	annual avg.	annual avg.		
(9) Beryllium	Micrograms/L	≤0.0077	\leq 0.13 annual	≤ 0.13 annual	≤ 0.13 annual	≤ 100 in	
		annualavg.	avg.	avg.	avg.	waters with a	
			C			hardness in	
						mg/L of	
						CaCO ₃ of less	
						5	
						than 250 and	
						shallnot	
						exceed 500 in	
						harder waters	

(10)(a) Biological	Per cent	The Index	The Index for
Health (Shannon-	reduction of	forbenthic	benthic
Weaver Diversity	Shannon-	macroinvert	macroinverteb
Index using Hester-	Weaver	ebrates shall	rates shall not
Dendy type samplers)	Diversity Index		be reduced to
		reduced to	less than 75%
		less than	of established
		75% of	background
		background	levelsas
		levelsas	measured
		measured	using
		using	organisms
		organisms	retained by a
		reta ined by	U. S. Standard
		a U. S.	No. 30 sieve
		Standard	and collected
		No. 30	and
		sieve and	composited
		collected	from a
		and	minimum of
		composited	three Hester-
		from a	Dendy type
		minimum of	artificial artificial
		three	substrate
		Hester-	samplers of
		Dendy type	0.10 to 0.15
		artificial	m ² a rea each,
		substrate	incubated for
		samplers of	a period of
		0.10 to 0.15	four weeks.
		m ² area	
		each,	
		incubated	
		for a period	
		of four	
		weeks.	

(10) (b) D: 12 -: -1	Domassat	In 101-25 41.	Tho. I 4	In 101222 41	Tho. I	ı	
(10) (b) Biological Health (Shannon-	Per cent reduction of	In lakes, the Index for	for benthic	In lakes, the Index for	The Index for benthic		
Weaver Diversity	Shannon-		macroinverte		macroinverteb		
Index using Ekman or	Weaver	macroinvert		macroinverteb			
Ponar type samplers)	Diversity Index			rates shall not			
) <i>)</i>			reduced to		less than 75%		
			less than		of established		
			75% of	of established			
			established	background	levelsas		
		established	background	levelsas	measured		
		background		measured	using		
			measured	using	organisms re-		
			using	organisms re-	tained by a		
			organisms	tained by a	U.S. Standard		
		_		U.S. Standard			
			U.S. Stan-	No. 30 sieve	and collected		
		a U.S. Stan- dard No. 30		and collected and com-	and composited from a		
				posited from a			
				minimum of	three natural		
			from a mini-		substrate		
			mum of three		samples,		
		1	natural	samples, taken			
		minimum of		with Ekman	Ponartype		
			samples,	or Ponartype	samplers with		
		natural	taken with	samplers with	minimum		
			Ponartype	minimum	sampling area		
			samplers	samplingarea	of $225 \mathrm{cm}^2$.		
			with mini-	of $225 \mathrm{cm}^2$.			
			mum sam-				
			pling area of				
		samplers	225 cm^2 .				
		with mini-					
		mum sam-					
		pling area					
	<u> </u>	of 225 cm ² .					
(11)BOD						ld cause dissolve	
(Biochemical Oxygen		to b	1			ch class and, in r	no case,
Demand)			shall it be	great enough t	o produce nuisa	nce conditions.	
(12)Boron	Milligrams/L					≤0.75	
(13)Bromates	Milligrams/L		≤100		≤100		
(14) Bromine (free	Milligrams/L		<u>≤</u> 0.1		<u>≤</u> 0.1		
molecular)			_		_ ·		
(15) Cadmium	Micrograms/L	Cd≤	<u><</u> 8.8	Cd<	<u><</u> 8.8		
	See Notes (1)	e ^{(0.7409[lnH]}	_ 0.0	e(0.7409[lnH]-			
	and (3).	4.719),		4.719);			
(1.6) 6 . 1	` '		< 4.42		< 4.42		
(16) Carbon	Micrograms/L	≤0.25	≤4.42	\leq 4.42 annual			
tetrachloride		annualavg.;	annualavg.	avg.	avg.		
		3.0 max					

(17) Chlorides	Milligra ms/L		Not increased more than 10% above normal background. Normal daily and seasonal fluctuations shall be maintained.		Not increased more than 10% above normal background. Normal daily and seasonal fluctuations shall be maintained.		In predominantly marine waters, not increased more than 10% above normal background. Normal daily and seasonal fluctuations shall be maintained.
(18) Chlorine (total residual)	Milligrams/L	≤ 0.01	<u>≤</u> 0.01	≤0.01	≤ 0.01		
(19)(a) Chromium (triva lent)	Micrograms/L measured as total recoverable Chromium See Notes (1) and (3).	Cr (III) \(\leq\) e(0.819[\text{lnH}]+0.6848\)		Cr (III) ≤ e(0.819[lnH]+0.6848)		Cr (III) ≤ e(0.819[lnH]+0.6848)	In predominantly fresh waters, ≤ e ^(0.819[InH]+0.6848)
(19)(b) Chromium (hexa valent)	Micrograms/L See Note (3)	≤11	≤50	≤11	≤50	≤11	In predominantly fresh waters, ≤11. In predominantly marine waters, ≤50
(20) Chronic Toxicity (see definition in subsection 62- 302.200(5), F.A.C. and also see below, "Substances in concentrations which")							

(21) Color, etc. (see	Color, odor,					Only such	
also Minimum Criteria,	· · · · · · · · · · · · · · · · · · ·					amounts as will	
Odor, Phenols, etc.)	producing					not render the	
Odoi, Filehols, etc.)	1 0						
	substances and					waters	
	other					unsuitable for	
	deleterious					a gricultural	
	substances,					irrigation,	
	includingother					livestock	
	chemical					watering,	
	compounds					industria1	
	attributable to					cooling,	
	domestic					industria1	
	wastes,					process water	
	industria1					supply purposes,	
	wastes, and					or fish survival.	
	other wastes						
` /	Micromhos/cm			Shall not be		Shall not be	Shallnot
Specific		increased		increased		increa sed more	exceed 4,000
		more than		more than		than 50% above	
		50% above		50% above		background or to	
		background		background or		1275, whichever	
		or to 1275,		to 1275,		is greater.	
		whicheveris		whicheveris			
		greater.		greater.			
(23) Copper	Micrograms/L	Cu≤	≤ 3.7	Cu≤	≤ 3.7	≤500	≤500
	See Notes (1)	$e^{(0.8545[lnH]-}$		$e^{(0.8545[lnH]-1.702)}$			
	and (3).	1.702)					
(24) Cyanide	Micrograms/L	≤5.2	≤1.0	<u>≤</u> 5.2	<u>≤</u> 1.0	≤5.0	≤ 5.0
(25) Definitions (see							
Section 62-302.200,							
F.A.C.)							
(26) Detergents	Milligrams/L	<u>≤</u> 0.5	<u>≤</u> 0.5	≤ 0.5	<u>≤</u> 0.5	≤0.5	≤ 0.5
(27) 1,1-	Micrograms/L	<u>≤</u> 0.057	≤ 3.2 annual	≤3.2 annual	\leq 3.2 annual		
Dichloroethylene (1,1-		annualavg.;	avg.	avg.	avg.		
dichloroethene)		\leq 7.0 max					
(28) Dichloromethane	Micrograms/L	≤4.65	≤1,580	≤1,580	≤1,580		
(methylenechloride)	· 	annualavg.	annualavg.	annualavg.	annualavg.		
(29) 2,4-Dinitrotoluene							
(2) 2, i Dimitiotolache	Micrograms/L	<u>≤</u> 0.11	≤9.1 annual	≤9.1 annual	≤9.1 annual		

(30) Dissolved	Milligrams/L	See Rule 62-3	302.533, F.A.	C.		Shall not a verage	Shall not be
Oxygen			ŕ			less than 4.0 in a	
7.8							fifty percent
		_				and shall never	of the time on
						be less than 3.0.	an annual
						oe less than 5.0.	basis for
							flows greater
							than or equal
							to 250 cubic
							feet per
							second and
							shallneverbe
							less than 0.1.
							Normaldaily
							and seasonal
							fluctuations
							above these
							levels shall be
							maintained.
(31) Dissolved Solids	Milligrams/L	≤500 as a					
		monthly					
		$avg.; \le 1,000$					
		max					
(32) Fluorides	Milligrams/L	<u>≤</u> 1.5	<u>≤</u> 1.5	<u>≤</u> 10.0	≤5.0	≤10.0	<u>≤</u> 10.0
(33) "Free Froms" (see							
Minimum Criteria in							
Rule 62-302.500,							
F.A.C.)							
(34) "General Criteria"							
(see Rule 62-302.500,							
F.A.C. and individual							
criteria)							
(35)(a) Halomethanes	Micrograms/L	≤80					
(Total triha lomethanes)	_						
(total of bromo form,							
chlorodibromo-							
methane,							
dichlorobromome-							
thane, and chloroform).							
Individual							
halomethanes shall not							
exceed (b)1. to (b)5.							
below.							
(35)(b)1.	Micrograms/L	≤4.3 annual	< 360	≤ 360 annual	≤ 360 annual		
(33)(6)1. Halomethanes	iviiciogiailis/L						
		avg.	annualavg.	avg.	avg.		
(individual):							
Bromoform		<u> </u>			<u> </u>		

< 50
≤50
<u>≤</u> 0.2
_

(47) Nuisance Species		Substances in concentrations which result in the dominance of nuisance species: none shall be present.							
(48)(a) Nutrients		The discharge of nutrients shall continue to be limited as needed to prevent violation							
(40)(a)14atileilis		The discharge of nutrients shall continue to be limited as needed to prevent violations of other standards contained in this chapter. Man-induced nutrient enrichment (total nitrogen							
		or total phosphorus) shall be considered degradation in relation to the provisions 62-302.300, 62-302.700, and 62-4.242, F.A.C.							
(40)(1) N					ı	I			
(48)(b) Nutrients		In no case shall nutrient concentrations of a body of water be altered so as to cause an imbalance in natural							
		populations	populations of a quatic flora or fauna.						
(49) Odor (also see	Threshold odor		Shallnot				Odor		
Color, Minimum	number		exceed 24 at				producing		
Criteria, Phenolic			60 degrees C				substances:		
Compounds, etc.)			as a daily				only in such		
			average.				amounts as		
							will not		
							unrea sonably		
							interfere with		
							use of the		
							water for the		
							designated		
							purpose of		
							this		
							classification.		
(50)(a) Oils and	Milligrams/L	Dissolved	Dissolved or	Dissolved or	Dissolved or	Dissolved or	Dissolved or		
Greases	lviinigiaiiis/ L	or	emulsified	emulsified oils		emulsified oils	emulsified		
Olcases		emulsified		and greases	oils and	and greases shall			
		oils and		shallnot		not exceed 5.0			
			greases shall not exceed 5.0		greases shall not exceed	not exceed 5.0	greases shall not exceed		
		greases	not exceed 3.0	exceed 5.0					
		shallnot			5.0		10.0		
(50)(1) 011 1		exceed 5.0	1 1 1 1 1 1	1 '1 1 6' 1	• • • •	111	<u> </u>		
(50)(b) Oils and						hall be present so a	is to cause taste		
Greases		or odor, or	otherwise inter	fere with the bei	neficial use of w	vaters.	1		
(50) Pesticides and									
Herbicides									
(51)(a) 2,4,5-TP	Micrograms/L	<u>≤</u> 10							
(51)(b) 2-4-D	Micrograms/L	≤100							
(51)(c) Aldrin	Micrograms/L	≤.00013	≤.00014	≤.00014	≤.00014				
		annual	annualavg.;	annualavg.;	annualavg.;				
		avg.;	1.3 max	3.0 max	1.3 max				
		3.0 max							
(51)(d) Beta-	Micrograms/L	≤ 0.014	≤0.046	≤ 0.046	≤0.046				
hexachlorocyclohexane	_	annual	annual avg.	annual avg.	annualavg.				
(b-BHC)		avg.			, g.				
(51)(e) Carbaryl	Micrograms/L	≤2.1		≤2.1					
(51)(f) Chlordane	Micrograms/L	<0.00058	<0.00059	≤0.00059	< 0.00059				
(C 1)(I) CINOIGUILO	IIIIII GIUIIII D	annual	annual avg.;	annual avg.;	annualavg.;				
		avg.;	0.004 max	0.0043 max	0.004 max				
		0.0043	0.007 IIIax	U.UUTJ IIIAA	0.00+IIIax				
		max	<u> </u>	<u> </u>	<u> </u>	<u> </u>]		

(51)(g) Chlorpyrifos	Micrograms/L	≤0.041	≤0.0056	≤0.041	≤0.0056		
(51)(h) DDT	Micrograms/L	≤0.00059	< 0.00059	≤0.00059	≤0.00059		
		annual	annualavg.;	annualavg.;	annualavg.;		
		avg.;	0.001 max	0.001 max	0.001 max		
		0.001 max					
(51)(i) Demeton	Micrograms/L	<u>≤</u> 0.1	<u>≤</u> 0.1	≤ 0.1	<u>≤</u> 0.1		
(51)(j) Diazinon		≤0.17	≤0.82	≤0.17	≤0.82		
(51)(k) Dieldrin	Micrograms/L	<u>≤</u> 0.00014	<u>≤</u> 0.00014	\leq 0.00014	\leq 0.00014		
		annual	annualavg.;	annualavg.;	annualavg.;		
		avg.;	0.0019 max	0.0019 max	0.0019 max		
		0.0019					
(51) (1) F 1 10) (T	max	.0.0007	.0.056	.0.007		
(51)(l) Endosulfan	Micrograms/L	≤0.056	<u>≤0.0087</u>	≤0.056	<u>≤0.0087</u>		
(51)(m) Endrin	Micrograms/L	_	≤0.0023	≤0.0023	≤0.0023		
(51)(n) Guthion	Micrograms/L	<u>≤0.01</u>	<u>≤0.01</u>	<u>≤0.01</u>	≤0.01		
(51)(o) Heptachlor	Micrograms/L	≤0.00021	≤0.00021	≤ 0.00021	≤0.00021		
		annual	annualavg.;	annualavg.;	annualavg.;		
		avg.;	0.0036 max	0.0038 max	0.0036 max		
		0.0038					
(51)()T: 1 () (T	max See	See Minimum	See Minimum	See Minimum		
(51)(p) Lindane (g- benzene hexachloride)	Micrograms/L	See Minimum	criteria in	criteria in	criteria in		
benzene nexacnioride)		criteria in	paragraph 62-	paragraph 62-	paragraph 62-		
		paragraph	302.500(1)(d),	302.500(1)(d),	302.500(1)(d),		
		62- 302.500(1)	F.A.C.	F.A.C.	F.A.C.		
		(d), F.A.C.					
(51)(q) Malathion	Micrograms/L	≤ 0.1	≤ 0.1	≤0.1	≤ 0.1		
(51)(r) Methoxychlor	Micrograms/L	≤0.03	< 0.03	< 0.03	< 0.03		
(51)(s) Mirex	Micrograms/L	_	< 0.001	<u>≤</u> 0.001	<u>≤</u> 0.001		
(51)(t) Parathion	Micrograms/L	<u>≤</u> 0.04	<u>=</u> ≤0.04	<u>=</u> ≤0.04	<u>≤</u> 0.04		
(51)(u) Toxaphene	Micrograms/L	< 0.0002	< 0.0002	≤0.0002	< 0.0002		
(52)(a) pH (Class I and		_			_	backgroundprovi	ded that the pH
Class IV Waters)			•			. If natural backgro	-
,						or vary more than	
		natural bac	kground. If nat	ural backgroun	d is higher than	n 8.5 units, the pF	I shall not vary
					an one unit belo		,
(52)(b) pH (Class II	Standard Units					l background of co	oastal waters as
Waters)		defined in p	aragraph 62-30	02.520(3)(b), F.A	A.C., or more th	an two-tenths unit	above or below
		natural bac	ekground of o	oen waters as	defined in para	agraph 62-302.520	0(3)(f), F.A.C.,
		providedth	at the pH is not	lowered to less	than 6.5 units o	rraised above 8.5	units. If natural
		-	-			elow natural back	
		more than	one unit above n	aturalbackgrou	ınd for coastal w	aters or more than	two-tenths unit
		above natu	ralbackground	for open waters	. If natural back	ground is higher th	an 8.5 units, the
		pH shall n	ot vary above	natural backgro	ound or vary m	ore than one unit	below natural
		background	dofcoastalwate	ers or more than	two-tenths unit	below natural bacl	kgroundofopen
		waters.					

(52)(c) pH (Class III Waters)		Shall not vary more than one unit above or below natural background of predominantly frew waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more that two-tenths unit a bove or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or raise above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters of 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters are coastal waters, or more than two-tenths unit above natural background of open waters. natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters are coastal waters, or more than two-tenths unit below natural background of open waters. Not lower than 5.0 nor greater than 9.5 except certain swamp waters which may be as lo								
Waters)	<u> </u>	as 4.5.								
(53)(a) Phenolic Compounds: Total		or unlisted.	-	the flesh of edil	•	tural decay of plant Fish or produce obj	· ·			
(53)(b) Total Chlorinated Phenols and Chlorinated Cresols	Micrograms/L		1. The total of the following Phenolic compounds shall not exceed 50: a) Chlorinated phenols; b) Chlorinated cresols; and c) 2,4-dinitrophenol							
(53)(c)1. Phenolic	Micrograms/L	<u>≤</u> 120	< 400	< 400	< 400	< 400	——————————————————————————————————————			
Compound:2- chlorophenol		_	See Note (2).	See Note (2).	See Note (2).	See Note (2).				
(53)(c)2. Phenolic	Micrograms/L	< 93	< 790	< 790	< 790	< 790				
Compound: 2,4-dichlorophenol		See Note (2).	See Note (2).	See Note (2).	See Note (2).	See Note (2).				
(53)(c)3. Phenolic Compound: Pentachlorophenol	Micrograms/L	≤30 max; ≤0.28 annual avg; ≤ e(1.005[p H]-5.29)	≤7.9	≤30 max; ≤8.2 annual avg; ≤ e(1.005[pH]- 5.29)	≤7.9	≤30				
(53)(c)4. Phenolic Compound: 2,4,6- trichlorophenol	Micrograms/L	≤2.1 annual avg.	≤ 6.5 annual avg.	≤6.5 annual avg.	≤ 6.5 annual avg.	≤6.5 annualavg				

(53)(c)5. Phenolic	Milligrams/L	≤0.0697	≤14.26	≤14.26	≤14.26	≤14.26	
Compound: 2,4-		See Note	See Note (2).	See Note (2).	See Note (2).	See Note (2).	
dinitrophenol		(2).					
(53)(c)6. Phenolic	Milligrams/L	≤0.3	≤0.3	≤0.3	≤ 0.3	≤0.3	≤ 0.3
Compound: Phenol							_
(54) Phosphorus	Micrograms/L		< 0.1		<u>≤</u> 0.1		
(Elemental)					-		
(55) Phthalate Esters	Micrograms/L	≤3.0		≤3.0			
(56) Polychlorinated	Micrograms/L	≤ 0.000044	< 0.000045	≤0.000045	≤0.000045		
Biphenyls (PCBs)		annual	annualavg.;	annualavg.;	annualavg.;		
		avg.; 0.014	0.03 max	0.014 max	0.03 max		
		max					
(57)(a) Polycyclic	Micrograms/L	≤0.0028	≤ 0.031	≤ 0.031 annual	≤ 0.031		
Aromatic		annual	annualavg.	avg.	annual avg.		
Hydrocarbons (PAHs).		avg.					
Totalof:							
Acena phthylene;							
Benzo(a)anthracene;							
Benzo(a)pyrene;							
Benzo(b)fluoran-thene;							
Benzo-(ghi)perylene;							
Benzo(k)fluoranthene;							
Chrysene; Dibenzo-							
(a,h)anthracene;							
Indeno(1,2,3-							
cd)pyrene; and							
Phenanthrene							
(57)(b)1. (Individual	Milligrams/L	< 1.2	< 2.7	< 2.7	< 2.7		
PAHs): Acenaphthene		See Note	See Note (2).	See Note (2).	See Note (2).		
174113). 7 techapharene		(2).					
(57)(b)2. (Individual	Milligrams/L	< 9.6	< 110	< 110	< 110		
PAHs): Anthracene		See Note	See Note (2).	See Note (2).	See Note (2).		
TATIS). A Hunacene		(2).					
(57)(b)3. (Individual	Milligrams/L	< 0.3	< 0.370	< 0.370	< 0.370		
PAHs): Fluoranthene		See Note	See Note (2).	See Note (2).	See Note (2).		
Arrs). Pruotatiuiche		(2).	2001(000(2))	(2).	(2).		
(57)(b)4. (Individual	Milligrams/L	< 1.3	< 14	< 14	< 14		
PAHs): Fluorene	8	See Note	See Note (2).	See Note (2).	See Note (2).		
1 1 11 13 j. 1 IuOICIIC		(2).	(2).				
(57)(b)5. (Individual	Milligrams/L	< 0.96	< 11	< 11	<11		
PAHs): Pyrene	8	See Note	See Note (2).	See Note (2).	See Note (2).		
)		(2).	(-).	(=):	(_)		
(58)(a) Radioactive	Picocuries/L	< <u>5</u> ≤ 5	≤ 5	<u><</u> 5	< 5	< 5	≤ 5
substances (Combined				 		<u> </u>	
radium 226 and 228)							
	1	1	1	1	1	1	1

(58)(b) Radioactive substances (Gross alpha particle activity including radium 226, but excluding radon and uranium) (59) Selenium (60) Silver	Picocuries/L Micrograms/L Micrograms/L	≤15 ≤5.0 ≤0.07	≤15 ≤71 See Minimum	≤15 ≤5.0 ≤0.07	≤ 15 ≤ 71 See Minimum	≤15	≤15
	See Note (3).		criteria in paragraph 62- 302.500(1)(c), F.A.C.		criteria in para graph 62- 302.500(1)(c), F.A.C.		
(61) Specific Conductance (see Conductance, Specific, above)							
(62) Substances in concentrations which injure, are chronically toxic to, or produce adverse physiological or behavioral response in humans, plants, or animals		None shall	be present.				
(63) 1,1,2,2- Tetra chloroethane	Micrograms/L	≤0.17 annual avg.	≤10.8 annual avg.	≤10.8 annual avg.	≤10.8 annual avg.		
(64) Tetra chloroethylene (1,1,2,2- tetra chloroethene)	Micrograms/L	≤ 0.8 annual avg., ≤ 3.0 max	avg.	≤8.85 annual avg.	avg.		
(65) Tha llium (66) Thermal Criteria (See Rule 62-302.520)	Micrograms/L	< 1.7	< 6.3	< 6.3	< 6.3		
(67) Total Dissolved Gases	Percent of the saturation value for gases at the existing atmospheric and hydrostatic pressures	saturation value	≤110% of saturation value	≤110% of saturation value	≤110% of saturation value		

(68) Transparency	Depth of the	The annual	The annual	The annual	The annual		
(00) Transparency	compensation	average		average value			
	point within the			shall not be	shall not be		
	watercolumn	not be	reduced by	reduced by	reduced by		
	for	reduced by		more than	more than		
	photosynthetic	more than	10% as	10% as	10% as		
	activity	10% as	compared to	compared	compared to		
	-	compared	the natural	to the natural	the natural		
		to the	background	background	background		
		natural	value. Annual	value. Annual	value. Annual		
		backgroun		a verage values			
		d value.		shall be based			
		Annual	based on a	on a minimum			
		average	minimumof	of three	minimumof		
		values	three samples,		three samples,		
		shallbe	with each	each sample	with each		
		based on	sample	collected at	sample		
		a 	collected at	least three	collected at		
		minimum	least three	months apart.	least three		
		of three	months apart.		months apart.		
		samples, with each					
		sample					
		collected					
		at least					
		three					
		months					
		apart.					
(69) Trichloroethylene	Micrograms/L	<u>≤</u> 2.7	< 80.7 annual	≤ 80.7 annual	< 80.7 annual		
(trichloroethene)	8	annual	avg.	avg.	avg.		
(triemoroemene)		avg.,	u , g.	u v g.	a v g.		
		≤3.0 max					
(70) Turbidity	Nephelometric		< 29 above	≤29 above	≤29 above	≤29 above	≤29 above
() 1	Turbidity Units		natural	natural	natural	natural	natural
	(NTU)		background	background	background	background	background
	(1110)	d	conditions	conditions	conditions	conditions	conditions
		conditions	conditions	Conditions	conditions	Conditions	Conditions
(71) Zinc	Micrograms/L	Zn≤	<u>≤</u> 86	Zn≤	≤86	≤1,000	≤1,000
(/1)21110	_	$e^{(0.8473[\ln H]+0}$	<u> </u>	$e^{(0.8473[\ln H] + 0.884)}$		<u> </u>	<u> </u>
	See Notes (1)	.884)		E			
	and (3).	,					
N. (1) (1, 179)		1 6 11		1 '11'	, 60 00 F		

Notes: (1) "In H" means the natural logarithm of total hardness expressed as milligrams/L of $CaCO_3$. For metals criteria involving equations with hardness, the hardness shall be set at $25 \, \text{mg/L}$ if a ctual hardness is $< 25 \, \text{mg/L}$ and set at $400 \, \text{mg/L}$ if actual hardness is $> 400 \, \text{mg/L}$. (2) This criterion is protective of human health not of aquatic life. (3) For application of dissolved metals criteria see paragraph 62-302.500(2)(d), F.A.C. (4) Class III-Limited waters have at least one Site Specific Alternative Criterion as established under Rule 62-302.800, F.A.C.

Rulemaking Authority 403.061, 403.062, 403.087, 403.504, 403.704, 403.804 FS. Law Implemented 403.021(11), 403.061, 403.087, 403.088, 403.141, 403.161, 403.182, 403.502, 403.702, 403.708 FS. History—New 1-28-90, Formerly 17-3.065, Amended 2-13-92, 6-17-92, Formerly 17-302.540, 17-302.550, 17-302.560, 17-302.570, 17-302.580, Amended 4-25-93, Formerly 17-302.530, Amended 1-23-95, 1-15-96, 5-15-02, 7-19-04, 12-7-06, 8-5-10, 7-3-12, 8-1-13, 2-17-16.

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria.

(1) The narrative water quality criteria for nutrients in paragraphs 62-302.530(47)(a) and (b), F.A.C., applies to all Class I, Class

II, and Class III waters.

- (2) The narrative water quality criterion for nutrients in paragraph 62-302.530(47)(b), F.A.C., shall be numerically interpreted for both nutrients and nutrient response variables in a hierarchical manner as follows:
- (a) Where a site specific numeric interpretation of the criterion in paragraph 62-302.530(47)(b), F.A.C., has been established by the Department, this numeric interpretation shall be the primary interpretation. If there are multiple interpretations of the narrative criterion for a waterbody, the most recent interpretation established by the Department shall apply. A list of the site specific numeric interpretations of paragraph 62-302.530(47)(b), F.A.C., may be obtained from the Department's internet site at http://www.dep.state.fl.us/water/wqssp/swq-docs.htm or by writing to the Florida Department of Environmental Protection, Water Quality Standards and Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400.
 - 1. The primary site specific interpretations are as follows:
- a. Total Maximum Daily Loads (TMDLs) adopted under Chapter 62-304, F.A.C., that interpret the narrative water quality criterion for nutrients in paragraph 62-302.530(47)(b), F.A.C., for one or more nutrients or nutrient response variables,
- b. Site specific a Iternative criteria (SSAC) for one or more nutrients or nutrient response variables as established under Rule 62-302.800, F.A.C.,
 - c. Estuary-specific numeric interpretations of the narrative nutrient criterion established in Rule 62-302.532, F.A.C., or
- d. Other site specific interpretations for one or more nutrients or nutrient response variables that are formally established by rule or final order by the Department, such as a Reasonable Assurance Demonstration pursuant to Rule 62-303.600, F.A.C., or Level II Water Quality Based Effluent Limitations (WQBEL) established pursuant to Rule 62-650.500, F.A.C. To be recognized as the applicable site specific numeric interpretation of the narrative nutrient criterion, the interpretation must establish the total allowable load or ambient concentration for at least one nutrient that results in attainment of the applicable nutrient response variable that represents achievement of the narrative nutrient criterion for the waterbody. A site specific interpretation is also allowable where there are documented adverse biological effects using one or more Biological Health Assessments, if information on chlorophyll a levels, algal mats or blooms, nuisance macrophyte growth, and changes in algal species composition indicate there are no imbalances in flora and a stressor identification study demonstrates that the adverse biological effects are not due to nutrients.
- 2. For the primary site specific interpretations in subparagraph 62-302.531(2)(a)1., F.A.C., the notice of rulemaking or other public notice shall state that the Department is establishing a site specific interpretation for the receiving waterbody, and offer an opportunity for a public meeting and public comment.
- (b) If site specific numeric interpretations, as described in paragraph 62-302.531(2)(a), F.A.C., above, have not been established for a waterbody, but there is an established, quantifiable cause-and-effect relationship between one or more nutrients and nutrient response variables linked to a value that protects a gainst an imbalance in the natural populations of the a quatic flora or fauna, then the numeric values for the nutrients or nutrient response variables, set forth in this paragraph (2)(b), shall be the applicable interpretations. Absent a numeric interpretation as established in paragraph 62-302.531(2)(a), F.A.C., site specific numeric interpretations are established as follows:
- 1. For lakes, the applicable numeric interpretations of the narrative nutrient criterion in paragraph 62-302.530(47)(b), F.A.C., for chlorophyll a are shown in the table below. The applicable interpretations for TN and TP will vary on an annual basis, depending on the availability of chlorophyll a data and the concentrations of nutrients and chlorophyll a in the lake, as described below. The applicable numeric interpretations for TN, TP, and chlorophyll a shall not be exceeded more than once in any consecutive three year period.
- a. If there are sufficient data to calculate the annual geometric mean chlorophyll a and the mean does not exceed the chlorophyll a value for the lake type in the table below, then the TN and TP numeric interpretations for that calendar year shall be the annual geometric means of lake TN and TP samples, subject to the minimum and maximum limits in the table below. However, for lakes with color ≥ 40 PCU in the West Central Nutrient Watershed Region, the maximum TP limit shall be the 0.49 mg/L TP streams threshold for the region; or
- b. If there are insufficient data to calculate the annual geometric mean chlorophyll a for a given year or the annual geometric mean chlorophyll a exceeds the values in the table below for the lake type, then the applicable numeric interpretations for TN and TP shall be the minimum values in the table below.

Long Term Geometric Mean Lake	Annual	Minimum calcu	ulated numeric	Maximum o	calculated	numeric
Color and Alkalinity	Geometric Mean	interpretation		interpretation		
	Chlorophyll a	Annual	Annual	Annual	Annual	Geometric

		Geometric	Geometric	Geometric	Mean Total
		Mean Total	Mean Total	Mean Total	Nitrogen
		Phosphorus	Nitrogen	Phosphorus	
≥ 40 Platinum Cobalt Units	20 μg/L	$0.05\mathrm{mg/L}$	1.27 mg/L	$0.16\mathrm{mg/L^1}$	2.23 mg/L
\leq 40 Platinum Cobalt Units and \geq					
20 mg/L Ca CO ₃	20 μg/L	0.03 mg/L	$1.05\mathrm{mg/L}$	$0.09\mathrm{mg/L}$	1.91 mg/L
\leq 40 Platinum Cobalt Units and \leq					
20 mg/L CaCO ₃	6 μg/L	$0.01 \mathrm{mg/L}$	$0.51 \mathrm{mg/L}$	0.03 mg/L	$0.93 \mathrm{mg/L}$

¹ For lakes with color ≥ 40 PCU in the West Central Nutrient Watershed Region, the maximum TP limit shall be the 0.49 mg/L TP streams threshold for the region.

- c. For the purpose of subparagraph 62-302.531(2)(b)1., F.A.C., color shall be assessed as true color and shall be free from turbidity. Lake color and alkalinity shall be the long-term geometric mean of all of the data for the period of record, based on a minimum of ten data points over at least three years with at least one data point in each year. If insufficient alkalinity data are available, long-term geometric mean specific conductance values of all of the data for the period of record shall be used, with a value of \leq 100 micromhos/cm used to estimate the 20 mg/L CaCO₃ alkalinity concentration until such time that alkalinity data are available. Long-term geometric mean specific conductance shall be based on a minimum of ten data points over at least three years with at least one data point in each year.
- 2. For spring vents, the applicable numeric interpretation of the narrative nutrient criterion in paragraph 62-302.530(47)(b), F.A.C., is 0.35 mg/L of nitrate-nitrite (NO₃ + NO₂) as an annual geometric mean, not to be exceeded more than once in any three calendar year period.
- (c) For streams, if a site specific interpretation pursuant to paragraph 62-302.531(2)(a) or (2)(b), F.A.C., has not been established, biological information shall be used to interpret the narrative nutrient criterion in combination with Nutrient Thresholds. The narrative nutrient criterion in paragraph 62-302.530(47)(b), F.A.C., shall be interpreted as being achieved in a stream segment where information on chlorophyll a levels, a lgal mats or blooms, nuisance macrophyte growth, and changes in a lgal species composition indicates there are no imbalances in flora or fauna, and either:
- 1. The average score of at least two temporally independent SCIs performed at representative locations and times is 40 or higher, with neither of the two most recent SCI scores less than 35, or
 - 2. The nutrient thresholds set forth in the table below are achieved.

Nutrient Watershed Region	Total Phosphorus Nutrient Threshold ¹	Total Nitrogen Nutrient Threshold ¹
Panhandle West	$0.06\mathrm{mg/L}$	0.67 mg/L
Panhandle East	$0.18\mathrm{mg/L}$	1.03 mg/L
North Central	$0.30\mathrm{mg/L}$	1.87 mg/L
Peninsular	$0.12\mathrm{mg/L}$	1.54 mg/L
West Central	$0.49\mathrm{mg/L}$	1.65 mg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The narrative
	narrative criterion in paragraph 62-	criterion in paragraph 62-302.530(47)(b), F.A.C.,
	302.530(47)(b), F.A.C., applies.	applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in anythree calendar year period.

- (3) Except for data used to establish historical chlorophyll a levels, chlorophyll a data assessed under this chapter shall be measured according to the DEP document titled "Applicability of Chlorophyll a Methods" (DEP-SAS-002/10), dated October 24, 2011 (https://www.flrules.org/Gateway/reference.asp?No=Ref-06043), which is incorporated by reference herein. Copies of the chlorophyll a document may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400. Chlorophyll a data collected after [7-3-12] shall be corrected for or free from the interference of pheophytin.
- (4) The loading of nutrients from a waterbody shall be limited a snecessary to provide for the attainment and maintenance of water quality standards in downstream waters.
- (5) To qualify as temporally independent samples, each SCI shall be conducted at least three months a part. SCIs collected at the same location less than three months a part shall be considered one sample, with the mean value used to represent the sampling period.

- (6) To calculate an annual geometric mean for TN, TP, or chlorophyll a, there shall be at least four temporally-independent samples per year with at least one sample taken between May 1 and September 30 and at least one sample taken during the other months of the calendar year. To be treated as temporally-independent, samples must be taken at least one week a part.
 - (7) The numeric interpretation of the narrative nutrient criterion shall be applied over a spatial area consistent with its derivation.
- (a) For numeric interpretations based on paragraph 62-302.531(2)(a), F.A.C., the spatial application of the numeric interpretation is as defined in the associated order or rule.
- (b) For lakes covered under subparagraph 62-302.531(2)(b)1., F.A.C., the numeric interpretation shall be applied as a lake-wide or lake segment-wide average.
- (c) For spring vents covered under subparagraph 62-302.531(2)(b)2., F.A.C., the numeric interpretation shall be applied in the surface water at or above the spring vent.
- (d) For streams covered under paragraph 62-302.531(2)(c), F.A.C., the spatial application of the numeric interpretation shall be determined by relative stream homogeneity and shall be applied to waterbody segments or aggregations of segments as determined by the site-specific considerations.
- (8) Load-based or percent reduction-based nutrient TMDLs or Level II Water Quality Based Effluent Limitations (WQBELs) pursuant to Chapter 62-650, F.A.C., do not need to be converted into concentration-based nutrient TMDLs or WQBELs to be used as the basis for the numeric interpretation of the narrative criterion. For percent reduction-based nutrient TMDLs, the associated allowable load or concentration is the numeric interpretation of the narrative criterion for the waterbody.
- (9) The Commission adopts subsections 62-302.200(4), 62-302.200(16)-(17), 62-302.200(22)-(25), 62-302.200(35)-(37), 62-302.200(39), Rule 62-302.531, and subsection 62-302.532(3), F.A.C., to ensure, as a matter of policy, that nutrient pollution is addressed in Florida in an integrated, comprehensive and consistent manner. Accordingly, these rules shall be effective only if EPA approves these rules in their entirety, concludes rulemaking that removes federal numeric nutrient criteria in response to the approval, and determines, in accordance with 33 U.S.C. § 1313(c)(3), that these rules sufficiently address EPA's January 14, 2009 determination. If any provision of these rules is determined to be invalid by EPA or in any administrative or judicial proceeding, then the entirety of these rules shall not be implemented.

Rulemaking Authority 403.061, 403.062, 403.087, 403.504, 403.704, 403.804 FS. Law Implemented 403.021, 403.061, 403.067, 403.087, 403.088, 403.141, 403.161, 403.182, 403.502, 403.702, 403.708 FS. History–New 7-3-12, 2-17-16. Editorial Note: Rule 62-302.531 will become effective upon approval by EPA in its entirety, conclusion of rulemaking by EPA to repeal its federal numeric nutrient criterion for Florida, and EPA's determination that Florida's rules address its January 2009 determination that numeric nutrient criteria are needed in Florida.

62-302.532 Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criterion.

(1) Estuary-specific numeric interpretations of the narrative nutrient criterion in paragraph 62-302.530(47)(b), F.A.C., are in the table below. The concentration-based estuary interpretations are open water, area-wide a verages. Numeric values listed below for nutrient and nutrient response values do not apply to wetlands or to tidal tributaries that fluctuate between predominantly marine and predominantly fresh waters during typical climatic and hydrologic conditions unless specifically provided by name below. The interpretations expressed as load per million cubic meters of freshwater inflow are the total load of that nutrient to the estuary divided by the total volume of freshwater inflow to that estuary. The numeric values listed below will be superseded if, pursuant to subsection 62-302.531(2), F.A.C., a more recent numeric interpretation of the narrative nutrient criterion in paragraph 62-302.530(47)(b), F.A.C., such as a Level II Water Quality Based Effluent Limitation (WQBEL), Site Specific Alternative Criterion (SSAC), Total Maximum Daily Load (TMDL), or Reasonable Assurance Demonstration, is established by the Department.

Estuary	Total Phosphorus	Total Nitrogen	Chlorophyll a
(a) Clearwater Harbor/St.	Criteria expressed as annual geometric me	ean (AGM) values are not to be o	exceeded more than once in a three
Joseph Sound	year period. Nutrient and nutrient response between predominantly marine and preconditions.		
1. St. Joseph Sound	0.05 mg/Las AGM	0.66 mg/Las AGM	3.1 μg/L as AGM
2. Clearwater North	0.05 mg/Las AGM	0.61 mg/Las AGM	5.4 μg/L as AGM
3. Clearwater South	0.06 mg/Las AGM	0.58 mg/Las AGM	7.6 μg/L as AGM

(1) T D	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1.1
(b) Tampa Bay	Criteria expressed as ton/million cubic m		
	than once in a three year period. Criteria e		
	exceeded more than once in a three year	period. For criteria expressed a	s the long-term average of annual
	means, the long-term average shall be base	ed on data from the most recent	seven-year period and shall not be
	exceeded. Nutrient and nutrient response	e values do not apply to tidal	ly in fluenced a reas that fluctuate
	between predominantly marine and pred	11.	
	conditions.		, ty prour commune una my menego
1. Old Tampa Bay	0.23 tons/million cubic meters of water	1.08 tons/million cubic	9.3 μg/L as annual mean
1. Old TumpuBuy	0.25 tols/illinoiredole lifecis of water	meters of water	7.5 µg L asamaarmaan
2 Hillsh anguah Day	1.28 tons/million cubic meters of water	1.62 tons/million cubic	15.0
2. Hillsborough Bay	1.28 tons/million cubic meters of water		15.0 μg/L as annual m ean
		meters of water	
3. Middle Tampa Bay	0.24 tons/million cubic meters of water	1.24 tons/million cubic	8.5 μg/L as annual mean
		meters of water	
4. Lower Tampa Bay	0.14 tons/million cubic meters of water	0.97 tons/million cubic	5.1 μg/L as annual mean
		meters of water	
5. Boca Ciega North	0.18 tons/million cubic meters of water	1.54 tons/million cubic	8.3 μg/L as annual mean
		meters of water	
6. Boca Ciega South	0.06 tons/million cubic meters of water	0.97 tons/million cubic	6.3 μg/L as annual mean
0. Doca Ciega Sodui	0.00 tors/immoredole freeds of water	meters of water	0.5 µg/L asanndarinean
7 T C : D	0.14. / '11' 1'		0.7 / 1
7. Terra Ceia Bay	0.14 tons/million cubic meters of water	1.10 tons/million cubic	8.7 μg/L as annual mean
		meters of water	
8. Ma natee River Estuary	0.37 tons/million cubic meters of water	1.80 tons/million cubic	8.8 μg/L as annual mean
		meters of water	
9. Ala fia River Estuary	0.86 mg/L as long-term average of annual	See subsection 62-	15.0 μg/L as annual m ean
	means	304.605(2), F.A.C.	
(c) Sarasota Bay	Criteria expressed as annual geometric m	lean (AGM) values for nutrient	s and annual arithmetic means for
•	chlorophyll a are not to be exceeded mor		
	values do not apply to tidally influer		_
	predominantly fresh waters during typical		•
1. Palma Sola Bay	0.26 mg/Las AGM	0.93 mg/Las AGM	
*	ž		11.8 μg/L as annual mean
2. Sarasota Bay (Total	0.19 mg/Las AGM	See paragraph 62-	6.1 μg/L as annual mean
Phosphorusand		302.532(1)(i), F.A.C.	
Chlorophyll a)			
3. Roberts Bay	0.23 mg/Las AGM	0.54 mg/Las AGM	11.0 μg/L as annual m ean
4. Little Sarasota Bay	0.21 mg/Las AGM	0.60 mg/L as AGM	10.4 μg/L as annual m ean
5. Blackburn Bay	0.21 mg/Las AGM	0.43 mg/L as AGM	8.2 μg/L as annual mean
(d) Charlotte Harbor/Estero	Criteria expressed as annual means are a	<u> </u>	
Bay	three year period. For criteria expressed as		
Bay	from the most recent seven-year period a		_
			_
	means (AGM) are not be exceeded more t		
	exceeded in more than 10 percent of the	•	
	year period. Nutrient and nutrient respon		=
	between predominantly marine and pred	dominantly fresh waters during	g typical climatic and hydrologic
	conditions.		
1. Dona and Roberts Bay	0.18 mg/Las annual mean	0.42 mg/L as annual mean	4.9 μg/L as annual mean
2. Upper Lemon Bay	0.26 mg/L as annual mean	0.56 mg/L as annual mean	8.9 µg/L as annual mean
3. Lower Lemon Bay	0.17 mg/Las annual mean	0.62 mg/L as annual mean	6.1 µg/L as annual mean
4. Charlotte Harbor Proper	0.19 mg/Las annual mean	0.67 mg/L as annual mean	6.1 µg/L as annual mean
4. Chanoue Harbor Proper	U.19 mg/Las annual mean	0.07 mg/L as annuai mean	0.1 µg/L asamuanmean

5. Pine Island Sound	0.06 mg/L as annual mean	0.57 mg/L as annual mean	6.5 μg/L as annual mean
6. San Carlos Bay	0.045 mg/L as long-term average	0.44 mg/L as long-term	3.7 μg/L as long-term average
•		average	
7. Tidal Myakka River	0.31 mg/Las annual mean	1.02 mg/L as annual mean	11.7 μg/L as annual m ean
8. Tidal Peace River	0.50 mg/Las annual mean	1.08 mg/L as annual mean	12.6 ug/L as annual m ean
9. Matlacha Pass	0.08 mg/L as annual mean	0.58 mg/L as annual mean	6.1 μg/L as annual mean
10. Estero Bay (including	0.07 mg/Las annual mean	0.63 mg/L as annual mean	5.9 μg/L as annual mean
Tidal Imperial River)	<i>.</i>		
11. Little Hickory Bay	0.070 mg/L as AGM	0.63 mg/Las AGM	5.9 mg/Las AGM
12. Water Turkey Bay	0.057 mg/L as AGM	0.47 mg/Las AGM	5.8 μg/L as AGM
13. Moorings Bay	0.040 mg/L, not to be exceeded in more	0.85 mg/L, not to be	8.1 μg/L as AGM
<i>U</i> ,	than ten percent of the samples	exceeded in more than ten	
	•	percent of the samples	
14. Upper Caloosahatchee	0.086 mg/L as long-term average	See subsection 62-	4.2 μg/L as long-term average
River Estuary		304.800(2), F.A.C.	
15. Middle Caloosahatchee	0.055 mg/Las long-term average	See subsection 62-	6.5 μg/L as long-term average
River Estuary		304.800(2), F.A.C.	
16. Lower Caloosahatchee	0.040 mg/Las long-term average	See subsection 62-	5.6 μg/L as long-term average
River Estuary		304.800(2), F.A.C.	
(e) Tidal Cocohatchee	Criteria expressed as annual geometric m	neans (AGM) not to be exceed	led more than once in a three year
River/Ten Thousand	period.		
Islands			
1. Tidal Cocohatchee River	0.057 mg/Las AGM	0.47 mg/Las AGM	5.8 μg/L as AGM
2. Collier Inshore	0.032 mg/L as AGM	0.25 mg/L as AGM	3.1 μg/L as AGM
3. Rookery Bay/Marco	0.046 mg/L as AGM	0.30 mg/L as AGM	4.9 μg/L as AGM
Island			
4. Naples Bay	0.045 mg/Las AGM	0.57 mg/Las AGM	4.3 μg/L as AGM
5. InnerGulfShelf	0.018 mg/L as AGM	0.29 mg/L as AGM	1.6 μg/L as AGM
6. Middle Gulf Shelf	0.016 mg/L as AGM	0.26 mg/L as AGM	1.4 μg/L as AGM
7. OuterGulfShelf	0.013 mg/Las AGM	0.22 mg/Las AGM	1.0 μg/L as AGM
8. Blackwater River	0.053 mg/Las AGM	0.41 mg/Las AGM	4.1 μg/L as AGM
9. Coastal Transition Zone	0.034 mg/Las AGM	0.61 mg/L as AGM	3.9 µg/L as AGM
10. Gulf Islands	0.038 mg/L as AGM	0.44 mg/L as AGM	3.4 µg/L as AGM
11. Inner Waterway	0.033 mg/L as AGM	0.69 mg/L as AGM	5.2 μg/L as AGM
12. Mangrove Rivers	0.021 mg/L as AGM	0.71 mg/Las AGM	3.7 µg/L as AGM
13. Ponce de Leon	0.024 mg/L as AGM	0.52 mg/L as AGM	3.0 μg/L as AGM
14. Shark River Mouth	0.022 mg/L as AGM	0.75 mg/L as AGM	2.2 μg/L as AGM
15. Whitewater Bay	0.026 mg/L as AGM	0.82 mg/Las AGM	4.1 μg/L as AGM
(f) Florida Bay	Criteria expressed as annual geometric mo		
(-)	period.	()	
1. Central Florida Bay	0.019 mg/L as AGM	0.99 mg/Las AGM	2.2 µg/L as AGM
2. Coastal Lakes	0.045 mg/Las AGM	1.29 mg/Las AGM	9.3 μg/L as AGM
3. East Central Florida Bay	0.007 mg/Las AGM	0.65 mg/Las AGM	0.4 μg/L as AGM
4. Northern Florida Bay	0.010 mg/L as AGM	0.68 mg/Las AGM	0.8 μg/L as AGM
5. Southern Florida Bay	0.009 mg/L as AGM	0.64 mg/Las AGM	0.8 μg/L as AGM
6. Western Florida Bay	0.015 mg/L as AGM	0.37 mg/Las AGM	1.4 µg/L as AGM
(g) Florida Keys	Criteria expressed as annual geometric mo	· · · · · · · · · · · · · · · · · · ·	
(6) 120 jo	period.	() 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2	year
	I F		

1. Back Bay	0.009 mg/L as AGM	0.25 mg/Las AGM	0.3 μg/L as AGM
2. Backshelf	0.011 mg/L as AGM	0.23 mg/Las AGM	0.7 μg/L as AGM
3. Lower Keys	0.008 mg/L as AGM	0.21 mg/Las AGM	0.3 μg/L as AGM
4. Marquesas	0.008 mg/L as AGM	0.21 mg/L as AGM	0.6 μg/L as AGM
5. Middle Keys	0.007 mg/L as AGM	0.22 mg/Las AGM	0.3 μg/L as AGM
6. Oceanside	0.007 mg/L as AGM	0.17 mg/Las AGM	0.3 μg/L as AGM
7. Upper Keys	0.007 mg/L as AGM	0.18 mg/Las AGM	0.2 μg/L as AGM
(h) Biscayne Bay	Criteria expressed as annual geometric period.	means (AGM) are not to be ex-	ceeded more than once in a three year
1. Card Sound	0.008 mg/L as AGM	0.33 mg/Las AGM	0.5 μg/L as AGM
2. Manatee Bay – Barnes Sound	0.007 mg/L as AGM	0.58 mg/L as AGM	0.4 μg/L as AGM
3. North Central Inshore	0.007 mg/L as AGM	0.31 mg/Las AGM	0.5 μg/L as AGM
4. North Central Outer-Bay	0.008 mg/L as AGM	0.28 mg/Las AGM	0.7 μg/L as AGM
5. Northern North Bay	0.012 mg/L as AGM	0.30 mg/Las AGM	1.7 μg/L as AGM
6. South Central Inshore	0.007 mg/L as AGM	0.48 mg/Las AGM	0.4 μg/L as AGM
7. South Central Mid-Bay	$0.007\mathrm{mg/L}$	0.35 mg/L as AGM	0.2 μg/L as AGM
8. South Central Outer-Bay	0.006 mg/L as AGM	0.24 mg/L as AGM	0.2 μg/L as AGM
9. Southern North Bay	0.010 mg/L as AGM	0.29 mg/Las AGM	1.1 μg/L as AGM
(i) Sa rasota Bay	For TN, the annual geometric mean ta and season. Annual geometric means Sara sota Bay regions are defined as season for Sarasota Bay is defined as months of the year. The seasonal reg calculated as follows: NW _i =Ln[(13.35-(0.32*CN _i))/3.58] ND _i =Ln[(10.39-(0.32*CN _i))/3.58] SW _i =Ln[(8.51-(0.32*CS _i)/3.58] SD _i =Ln[(5.55-(0.32*CS _i))/3.58]	shall not be exceeded more to north (Manatee County) and s July through October and the	han once in a three year period. The I south (Sarasota County). The wet ne dry season is defined as all other
	where, NW_i is the TN target for i^{th} month call ND_i is the TN target for i^{th} month call	culated for the north region d	luring the dry season

 NW_i is the TN target for i^{th} month calculated for the north region during the wet season ND_i is the TN target for i^{th} month calculated for the north region during the dry season SW_i is the TN target for i^{th} month calculated for the south region during the wet season SD_i is the TN target for i^{th} month calculated for the south region during the dry season

 CN_i is the arithmetic mean color during the ith month within the north region

During the wet season, CN_i shall be set to 41 PCU if the monthly arithmetic mean color is greater than 41 PCU

During the dry season, CN_i shall be set to 32 PCU if the monthly arithmetic mean color is greater than 32 PCU

 CS_i is the arithmetic mean color during the ith month within the south region

During the wet season, CS_i shall be set to 26 PCU if the monthly arithmetic mean color is greater than 26 PCU

During the dry season, CS_i shall be set to 16 PCU if the monthly arithmetic mean color is greater than 16 PCU

The annual TN target is calculated as the geometric mean of all monthly regional and season targets as follows:

		-to(NWi+NDi+SWi+SDi)	
	<u>e</u>	$\sum_{i=1}^{12} \left(\frac{NWi + NDi + SWi + SDi}{24} \right)$	
	Nutrient and nutrient response values of predominantly marine and predominantly	11.0	
(j) Clam Bay (Collier	No more than 10 percent of the individu		
County)	shall exceed the respective TP Upper Lim	- · · ·	total Nitrogen (TN) measurements
	TP Upper Limit $(mg/L) = e$	(-1.06256- TN Upper I	Limit (mg/L) = 2.3601 -
	0.0000328465*Conductivity (μS))	ii, opper i	Conductivity (μ S)
Estuary	Total Phosphorus	Total Nitrogen	Chlorophyll a
(k) Perdido Bay	Criteria expressed as annual geometric ma	eans (AGM) are not to be exce	eded more than once in a three year
•	period. For all other bay segments, the		•
	measurements and shall be assessed over		-
	values do not apply to tidally influer		
	predominantly fresh waters during typica		
1. Big La goon	0.036 mg/L as AGM	0.61 mg/Las AGM	6.4 μg/L
2. Upper Perdido Bay	0.102 mg/L	1.27 mg/L	11.5 μg/L
3. Central Perdido Bay	0.103 mg/L	0.97 mg/L	7.5 μg/L
4. Lower Perdido Bay	0.110 mg/L	0.78 mg/L	6.9 µg/L
(1) Pensacola Bay	For bay segments with criteria expresse		
(1) 1 011240014 244 3	exceeded more than once in a three year	_	
	means, the long-term average shall be bas		
	exceeded. For all other bay segments, the		• •
	measurements. Nutrient and nutrient resp		-
	between predominantly marine and pre-		•
	conditions.	,	
1. Lower Escambia Bay	0.076 mg/L	0.56 mg/Las AGM	6.8 μg/L as AGM
2. East Bay	0.084 mg/L	0.83 mg/L	4.0 μg/L as AGM
3. Upper Pensacola Bay	0.084 mg/L	0.77 mg/L	6.0 μg/L as AGM
4. Lower Pensacola Bay	0.024 mg/L as AGM	0.48 mg/L as AGM	3.9 µg/L as AGM
5. Santa Rosa Sound	0.022 mg/L as AGM	0.41 mg/Las AGM	3.4 µg/L as AGM
6. Bla ckwater Bay	0.082 mg/L	0.61 mg/L	11.3 μg/L
7. Upper Escambia Bay	See subsection 62-304.330(10), F.A.C.	See subsection 62-	7.4 µg/L as long-term average
and Judges Bayou	500 500 500 500 100 100 100 100 100 100	304.330(10), F.A.C.	of annual means
(m) Choctawhat chee Bay	For bay segments with criteria expresso		
(III) CHOCAWHATCHCC Buy	exceeded more than once in a three year p		
	in more than 10 percent of the measurem	, ,	· ·
	influenced areas that fluctuate between pr		
	climatic and hydrologic conditions.	edominantly marine and predor	imitately fresh waters during typical
1. Ala qua Bayou	0.027 mg/L as AGM	0.41 mg/L as AGM	4.0 μg/L as AGM
2. Ba sin Bayou	0.019 mg/Las AGM	0.31 mg/Las AGM	4.7 μg/L
3. Boggy Bayou	0.015 mg/Las AGM	0.33 mg/Las AGM	3.0 µg/L as AGM
4. East Bay	0.027 mg/Las AGM	0.46 mg/Las AGM	4.4 µg/L as AGM
5. Garnier Bayou	0.017 mg/Las AGM	0.91 mg/Las AGM	4.0 μg/L as AGM
6. La Grange Bayou	0.029 mg/Las AGM	0.58 mg/Las AGM	5.1 μg/L as AGM
7. Middle Bay	0.029 mg/Las AGM	0.36 mg/Las AGM	3.1 µg/L as AGM
•	0.020 mg/Las AGM	0.33 mg/Las AGM	
8. Rocky Bayou	Š		3.1 µg/L as AGM
9. West Bay	0.049 mg/Las AGM	0.54 mg/L as AGM	4.1 μg/L as AGM

(n) St. Andrew Bay	Criteria for all bay segments are expre	ssed as annual geometric mean	(AGM) values not to be exceeded
	more than once in a three year period. N	utrientand nutrient response valu	les do notapply to tidally influenced
	a reas that fluctuate between predomina	ntly marine and predominantly f	fresh waters during typical climatic
	and hydrologic conditions.		
1. East Bay	0.016 mg/L as AGM	0.33 mg/Las AGM	3.9 µg/L as AGM
2. North Bay	0.014 mg/L as AGM	0.28 mg/L as AGM	3.1 μg/L as AGM
3. St. AndrewBay	0.019 mg/L as AGM	0.34 mg/Las AGM	3.7 µg/L as AGM
4. West Bay	0.017 mg/L as AGM	0.35 mg/Las AGM	3.8 µg/L as AGM
5. Crooked Island Sound	0.019 mg/L as AGM	0.34 mg/Las AGM	3.7 μg/L as AGM
(o) St. Joseph Bay	Criteria for all bay segments are expre	ssed as annual geometric mean	(AGM) values not to be exceeded
	more than once in a three year period. N	-	11 0
	a reas that fluctuate between predomina	ntly marine and predominantly f	fresh waters during typical climatic
	and hydrologic conditions.	<u>_</u>	
St. Joseph Bay	0.021 mg/L as AGM	0.34 mg/Las AGM	3.8 µg/L as AGM
(p) Apalachicola Bay and	For bay segments with criteria expres		
Alligator Harbor	exceeded more than once in a three year		
	in more than 10 percent of the measure		• •
	Nutrient and nutrient response values	11.0	
	predominantly marine and predominan	tly fresh waters during typical cli	matic and hydrologic conditions.
1. Apalachicola Bay	0.063 mg/L as AGM	0.84 mg/L as AGM	8.4 μg/L as AGM
2. St. George Sound	0.083 mg/L	0.92 mg/L	6.1 μg/L as AGM
3. East Bay	0.101 mg/L	1.12 mg/L	9.7 μg/L as AGM
4. St. Vincent Sound	0.116 mg/L	1.10 mg/L	17.4 μg/L
5. Apalachicola Offshore	0.032 mg/L	0.57 mg/L	8.2 μg/L
6. Alligator Habor	0.028 mg/L as AGM	0.42 mg/Las AGM	6.0 μg/L as AGM
Estuary	Total Phosphorus	Total Nitrogen	Chlorophylla
(q) Loxahatchee River	For estuary segments with criteria exp	ressed as annual geometric mea	ns (AGM), the values shall not be
Estuary	exceeded more than once in a three ye	ear period. For all other estuary	segments, the criteria shall not be
	exceeded in more than 10 percent of the	measurements and shall be asses	ssed over the most recent seven year
	period.		
1. Lower Loxahatchee	0.032 mg/L as AGM	0.63 mg/Las AGM	1.8 μg/Las AGM
2. Middle Loxahatchee	0.030 mg/L as AGM	0.80 mg/Las AGM	4.0 μg/Las AGM
3. Upper Loxahatchee	0.075 mg/L as AGM	1.26 mg/Las AGM	5.5 μg/Las AGM
4. Loxahatchee River	0.075 mg/L as AGM	1.26 mg/Las AGM	5.5 μg/Las AGM
Estuary (Southwest Fork)			
(r) Lake Worth Lagoon	For estuary segments with criteria exp	ressed as annual geometric mea	ns (AGM), the values shall not be
	exceeded more than once in a three ye	ear period. For all other estuary	segments, the criteria shall not be
	exceeded in more than 10 percent of the	e measurements.	
1. Northern Lake Worth	0.044 mg/L as AGM	0.54 mg/Las AGM	2.9 μg/Las AGM
Lagoon			
2. Central Lake Worth	0.049 mg/L as AGM	0.66 mg/Las AGM	10.2 μg/L
Lagoon			
3. Southern Lake Worth	0.050 mg/L as AGM	0.59 mg/Las AGM	5.7 μg/Las AGM
Lagoon			
(s) Ha lifax River Estuary	For estuary segments with criteria exp	ressed as annual geometric mea	ns (AGM), the values shall not be
and Tomoka River Estuary	exceeded more than once in a three year	r period. Criteria expressed a s ar	nnual means are not to be exceeded
	in any year.		
1. Lower Halifax River	0.142 mg/L as AGM	0.72 mg/Las AGM	6.2 μg/L as AGM

Estuary			
2. Upper Halifax River	See subsection 62-304.435(5), F.A.C.	See subsection 62-	9.0 μg/L as annual mean
Estuary		304.435(5), F.A.C.	
3. Tomoka River Estuary	0.132 mg/L as AGM	1.24 mg/Las AGM	7.2 μg/L as AGM
4. Tomoka Basin	0.105 mg/L as AGM	1.20 mg/Las AGM	7.1 μg/L as AGM
(t) Guana River/Tolomato	Criteria for all estuary segments are exp	ressed as annual geometric mea	nn values (AGM) not to be exceeded
River/Matanzas River	more than once in a three year period.		
(GTM) Estuary		Т	T
1. Tolomato	0.105 mg/L as AGM	0.65 mg/Las AGM	6.6 μg/Las AGM
2. North Matanzas	0.110 mg/L as AGM	0.55 mg/Las AGM	4.0 μg/Las AGM
3. South Matanzas	0.111 mg/L as AGM	0.53 mg/Las AGM	5.5 μg/Las AGM
4. Pellicer Creek Estuary	0.123 mg/Las AGM	1.10 mg/Las AGM	4.3 μg/L as AGM
(u) Na ssau River Estuary	For estuary segments with criteria expi	9	
	exceeded more than once in a three ye		y segments, the criteria shall not be
	exceeded in more than 10 percent of the		T
1. Ft. George River Estuary	0.107 mg/L as AGM	0.60 mg/Las AGM	5.9 μg/Las AGM
2. Lower Nassau	0.107 mg/L as AGM	0.80mg/LasAGM	17.5 μg/L
3. Middle Nassau	0.137 mg/Las AGM	0.83 mg/Las AGM	17.1 μg/L
4. Upper Nassau	0.191 mg/L as AGM	1.29 mg/Las AGM	4.7 μg/Las AGM
(v) Suwannee, Waccasassa,	For estuary segments with criteria expr		
and Withlacoochee River	shall not be exceeded more than once in		_
Estuaries	a sa linity dependent equation, the annua		
	to individual monitoring stations by so		•
	a verage salinity (AASal) in practical sa	linity units (PSU) for the station	n. The AASal shall be calculated as
	a verage salinity (AASal) in practical sa the annual mean of the salinity measures	linity units (PSU) for the station ments for each station made in c	n. The AASal shall be calculated as conjunction with the collection of the
	a verage salinity (AASal) in practical sa the annual mean of the salinity measurer nutrient samples. For criteria expressed	linity units (PSU) for the station ments for each station made in c I as a salinity dependent equati	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the
	a verage salinity (AASal) in practical sa the annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments	linity units (PSU) for the station ments for each station made in c I as a salinity dependent equati	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the
	a verage salinity (AASal) in practical sa the annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period.	linity units (PSU) for the station ments for each station made in c I as a salinity dependent equationshall exceed the limit (expressed	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more
1. Suwannee Offshore	a verage salinity (AASal) in practical sa the annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM =	linity units (PSU) for the station ments for each station made in coll as a salinity dependent equation shall exceed the limit (expressed TN as AGM =	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the
	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402	linity units (PSU) for the station ments for each station made in color as a salinity dependent equation shall exceed the limit (expressed TN as AGM = -0.0328*AASal+1.4177	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more
2. Wa ccasassa Offshore	a verage salinity (AASal) in practical sa the annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM	linity units (PSU) for the station ments for each station made in class a salinity dependent equation shall exceed the limit (expressed TN as AGM = -0.0328*AASal+1.4177 0.69 mg/Las AGM	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM
	a verage salinity (AASal) in practical sa the annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM =	linity units (PSU) for the station ments for each station made in collass a salinity dependent equation shall exceed the limit (expressed TN as AGM = -0.0328*AASal+1.4177 0.69 mg/Las AGM TN as AGM =	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more
2. Wa ccasassa Offshore 3. Withlacoochee Offshore	a verage salinity (AASal) in practical sa the annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942	linity units (PSU) for the station ments for each station made in collass a salinity dependent equation shall exceed the limit (expressed TN as AGM = -0.0328*AASal+1.4177 0.69 mg/Las AGM TN as AGM = -0.0183*AASal+0.9720	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM
2. Wa ccasassa Offshore 3. With lacoochee Offshore (w) Springs Coast (Crystal	a verage salinity (AASal) in practical sa the annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressions	linity units (PSU) for the station made in comments for each station made in color as a salinity dependent equation shall exceed the limit (expressed TN as AGM = -0.0328*AASal+1.4177 0.69 mg/Las AGM TN as AGM = -0.0183*AASal+0.9720 ressed as annual geometric meaning as the station made in color as a salinity dependent of the station made in color as a salinity dependent of the station made in color as a salinity dependent of the station made in color as a salinity dependent of the station made in color as a salinity dependent of the station made in color as a salinity dependent equation in color as a salini	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River)	a verage salinity (AASal) in practical sa the annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed and the expression of the salinity o	linity units (PSU) for the station ments for each station made in collass a salinity dependent equation shall exceed the limit (expressed TN as AGM = -0.0328*AASal+1.4177 0.69 mg/Las AGM TN as AGM = -0.0183*AASal+0.9720 ressed as annual geometric means reperiod.	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed with criteria expressed more than once in a three year 0.014 mg/Las AGM	linity units (PSU) for the station made in comments for each station made in collars a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at 1.4177 and 1	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be
2. Wa ccasassa Offshore 3. With lacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore 2. Anclote River Estuary	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed more than once in a three year 0.014 mg/Las AGM 0.063 mg/Las AGM	linity units (PSU) for the station made in comments for each station made in comments as a salinity dependent equation of the station made in comments as a salinity dependent expressed. TN as AGM = -0.0183*AASal+1.4177 0.69 mg/Las AGM TN as AGM = -0.0183*AASal+0.9720 ressed as annual geometric means a period. 0.42 mg/Las AGM 0.65 mg/Las AGM	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be 1.7 µg/Las AGM 3.8 µg/Las AGM
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore 2. Anclote River Estuary 3. Aripeka and Hudson	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed with criteria expressed more than once in a three year 0.014 mg/Las AGM	linity units (PSU) for the station made in comments for each station made in collars a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at 1.4177 and 1	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore 2. Anclote River Estuary 3. Aripeka and Hudson Offshore	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed more than once in a three year 0.014 mg/Las AGM 0.063 mg/Las AGM 0.063 mg/Las AGM	linity units (PSU) for the station made in comments for each station made in collars a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at a salinity dependent expressed as an annual geometric means a salinity dependent experiod. 1	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be 1.7 µg/Las AGM 3.8 µg/Las AGM 0.8 µg/Las AGM
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore 2. Anclote River Estuary 3. Aripeka and Hudson Offshore 4. Chassahowitzka NWR	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed more than once in a three year 0.014 mg/Las AGM 0.063 mg/Las AGM 0.063 mg/Las AGM 0.008 mg/Las AGM	linity units (PSU) for the station made in comments for each station made in collars a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at a salinity dependent expressed as annual geometric mean period. 0.49 mg/Las AGM	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be 1.7 µg/Las AGM 3.8 µg/Las AGM 0.8 µg/Las AGM
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore 2. Anclote River Estuary 3. Aripeka and Hudson Offshore 4. Chassahowitzka NWR 5. Chassahowitzka	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed more than once in a three year 0.014 mg/Las AGM 0.063 mg/Las AGM 0.063 mg/Las AGM	linity units (PSU) for the station made in comments for each station made in collars a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at a salinity dependent expressed as an annual geometric means a salinity dependent experiod. 1	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be 1.7 µg/Las AGM 3.8 µg/Las AGM 0.8 µg/Las AGM
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore 2. Anclote River Estuary 3. Aripeka and Hudson Offshore 4. Chassahowitzka NWR 5. Chassahowitzka Offshore	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed more than once in a three year 0.014 mg/Las AGM 0.063 mg/Las AGM 0.008 mg/Las AGM 0.015 mg/Las AGM	linity units (PSU) for the station ments for each station made in collas a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at a salinity dependent expressed as annual geometric means a salinity dependent exceeds the limit (expressed as a salinity dependent exceeds the limit (expressed as a salinity dependent exceeds a salinity dependent exceeds a salinity dependent exceeds a salinity dependent exceeds a salinity dependent equation as a salini	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be 1.7 µg/Las AGM 3.8 µg/Las AGM 0.8 µg/Las AGM 2.0 µg/Las AGM
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore 2. Anclote River Estuary 3. Aripeka and Hudson Offshore 4. Chassahowitzka NWR 5. Chassahowitzka	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed more than once in a three year 0.014 mg/Las AGM 0.063 mg/Las AGM 0.063 mg/Las AGM 0.008 mg/Las AGM	linity units (PSU) for the station made in comments for each station made in collars a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at a salinity dependent equation shall exceed the limit (expressed at a salinity dependent expressed as annual geometric mean period. 0.49 mg/Las AGM	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be 1.7 µg/Las AGM 3.8 µg/Las AGM 0.8 µg/Las AGM
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore 2. Anclote River Estuary 3. Aripeka and Hudson Offshore 4. Chassahowitzka NWR 5. Chassahowitzka Offshore 6. Chassahowitzka River Estuary	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed more than once in a three year exceeded more than once in a three year 0.014 mg/Las AGM 0.063 mg/Las AGM 0.008 mg/Las AGM 0.015 mg/Las AGM 0.011 mg/Las AGM	linity units (PSU) for the station ments for each station made in contents	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be 1.7 µg/Las AGM 3.8 µg/Las AGM 0.8 µg/Las AGM 1.5 µg/Las AGM 3.9 µg/Las AGM
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore 2. Anclote River Estuary 3. Aripeka and Hudson Offshore 4. Chassahowitzka NWR 5. Chassahowitzka Offshore 6. Chassahowitzka River Estuary 7. Crystal Offshore	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed more than once in a three year 0.014 mg/Las AGM 0.063 mg/Las AGM 0.008 mg/Las AGM 0.015 mg/Las AGM	linity units (PSU) for the station ments for each station made in contents	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be 1.7 µg/Las AGM 3.8 µg/Las AGM 0.8 µg/Las AGM 2.0 µg/Las AGM
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore 2. Anclote River Estuary 3. Aripeka and Hudson Offshore 4. Chassahowitzka NWR 5. Chassahowitzka Offshore 6. Chassahowitzka River Estuary	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed more than once in a three year 0.014 mg/Las AGM 0.063 mg/Las AGM 0.063 mg/Las AGM 0.015 mg/Las AGM 0.011 mg/Las AGM 0.021 mg/Las AGM 0.034 mg/Las AGM	linity units (PSU) for the station ments for each station made in contents	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be 1.7 µg/Las AGM 3.8 µg/Las AGM 0.8 µg/Las AGM 1.5 µg/Las AGM 2.0 µg/Las AGM 1.5 µg/Las AGM 2.4 µg/Las AGM
2. Wa ccasassa Offshore 3. Withlacoochee Offshore (w) Springs Coast (Crystal River to Anclote River) 1. Anclote Offshore 2. Anclote River Estuary 3. Aripeka and Hudson Offshore 4. Chassahowitzka NWR 5. Chassahowitzka Offshore 6. Chassahowitzka River Estuary 7. Crystal Offshore	a verage salinity (AASal) in practical sathe annual mean of the salinity measurer nutrient samples. For criteria expressed monitoring stations within the segments than once in a three year period. TP as AGM = -0.0035*AASal+0.1402 0.063 mg/Las AGM TP as AGM = -0.0021*AASal+0.0942 For estuary segments with criteria expressed more than once in a three year 0.014 mg/Las AGM 0.063 mg/Las AGM 0.008 mg/Las AGM 0.015 mg/Las AGM 0.011 mg/Las AGM 0.021 mg/Las AGM	linity units (PSU) for the station ments for each station made in contents	n. The AASal shall be calculated as conjunction with the collection of the on, no more than 10 percent of the das AGM) on an annual basis, more 5.7 µg/L as AGM 5.6 µg/L as AGM 4.9 µg/L as AGM ans (AGM), the values shall not be 1.7 µg/Las AGM 3.8 µg/Las AGM 0.8 µg/Las AGM 2.0 µg/Las AGM 1.5 µg/Las AGM 2.4 µg/Las AGM

Estuary			
11. Pithlachascotee Offshore	0.010 mg/L as AGM	0.47 mg/Las AGM	1.0 μg/Las AGM
12. Pithlachascotee River Estuary	0.034 mg/L as AGM	0.65 mg/Las AGM	4.0 μg/Las AGM
13. St. Martins Marsh	0.031 mg/L as AGM	0.51 mg/Las AGM	3.2 μg/Las AGM
14. Weeki Wachee Offshore	0.017 mg/L as AGM	0.54 mg/Las AGM	1.2 μg/Las AGM
15. Weeki Wachee River Estuary	0.019 mg/L as AGM	0.60 mg/Las AGM	1.9 μg/Las AGM
16. Anclote Bayou	0.063 mg/Las AGM	0.65 mg/Las AGM	3.8 µg/L as AGM
17. Kings Bay	See subsection 62-304.645(17), F.A.C.	See subsection 62- 304.645(17), F.A.C.	5.7 μg/L as AGM
(x) Big Bend and Apa lachee Bay	For bay segments with criteria express exceeded more than once in a three year pin more than 10 percent of the measuren Nutrient and nutrient response values predominantly marine and predominantly	period. For all other bay segment ments and shall be assessed over do not apply to tidally influen	s, the criteria shall not be exceeded the most recent seven year period. iced a reas that fluctuate between
1. Ochlockonee River Estuary	0.067 mg/L	0.86 mg/L	9.2 μg/L
2. Ochlockonee/Alligator Harbor Offshore	0.032 mg/L	0.57 mg/L	8.2 μg/L
3. St. Marks River Estuary	0.044 mg/L	0.70 mg/L	6.0 μg/L
4. St. Marks Offshore (includes Oyster and Dickerson Bays)	0.045 mg/L	0.63 mg/L	8.0 µg/L
5. Aucilla River Estuary	$0.080\mathrm{mg/L}$	0.89 mg/L	2.2 μg/L
6. Aucilla Offshore	$0.025\mathrm{mg/L}$	0.60 mg/L	9.5 μg/L
7. Econfina River Estuary	0.101 mg/Las AGM	1.14 mg/Las AGM	4.9 μg/L as AGM
8. Econfina Offshore	0.042 mg/L as AGM	0.65 mg/Las AGM	3.7 μg/L as AGM
9. Fenholloway River Estuary	839 lbs/day, as an annual average, based on Level II WQBEL	5,573 lbs/day, as an annual average, based on Level II WQBEL	4.6 μg/L as AGM
10. Fenholloway Offshore	0.059 mg/Las AGM	0.68 mg/L as AGM	4.1 μg/L as AGM
11. Spring Warrior Offshore	0.047 mg/L	0.67 mg/L	8.3 μg/L
12. Steinhatchee River Estuary	0.062 mg/Las AGM	0.86 mg/L as AGM	3.9 μg/L as AGM
13. Steinhatchee Offshore	0.021 mg/Las AGM	0.45 mg/Las AGM	3.3 µg/L as AGM
14. Horseshoe Beach Offshore	0.021 mg/Las AGM	0.45 mg/L as AGM	3.3 μg/L as AGM
15. Cedar Key	0.060 mg/Las AGM	0.79 mg/Las AGM	10.9 μg/L as AGM
(y) Intracoastal Waterway (ICWW)	For ICWW segments with criteria expressed as annual geometric means (AGM), the values shall not be exceeded more than once in a three year period. Criteria expressed as kg/year and annual means are not to be exceeded in any year. For all other ICWW segments, the criteria shall not be exceeded in more than 10 percent of the measurements and shall be assessed over the most recent seven year period.		
1. Gulf ICWW between Choctawhatchee Bay and	0.108 mg/L	1.13 mg/L	6.6 μg/L

St. Andrew Bay			
2. Gulf ICWW between St. Andrew Bay and St. Joseph Bay	0.108 mg/L	1.13 mg/L	6.6 µg/L
3. ICWW between Roberts Bay and Lemon Bay	0.253 mg/Las AGM	0.59 mg/Las AGM	4.0 μg/L as AGM
4. Central Broward County ICWW	0.045 mg/Las AGM	0.80 mg/L as AGM	2.7 μg/L as AGM
5. North Broward County ICWW	0.059 mg/L as AGM	0.79 mg/L as AGM	3.0 μg/L as AGM
6. North Central Broward County ICWW	0.048 mg/Las AGM	0.88 mg/Las AGM	3.3 µg/L as AGM
7. South Broward County ICWW	0.043 mg/Las AGM	0.70 mg/Las AGM	2.0 μg/L as AGM
8. Pa lm Beach County ICWW	0.146 mg/L	1.17 mg/L	13.4 μg/L
9. ICWW between North Lake Worth Lagoon and Lower Loxahatchee River	0.035 mg/Las AGM	0.66 mg/Las AGM	4.7 μg/L as AGM
10. ICWW Palm Coast	73,142 kg/year	798,913kg/year	4.5 μg/L as annual mean
11. ICWW from North Tolomato River to St. Johns River	0.191 mg/Las AGM	1.27 mg/L	10.2 μg/L
(z) St. Lucie Estuary	For estuary segments with criteria expressed as annual geometric means (AGM), the values shall not be exceeded more than once in a three year period. For criteria expressed as long-term averages, the long-term a verage shall be based on data from the most recent seven-year period and shall not be exceeded.		
1. St. Lucie Estuary	See subsection 62-304.705(1), F.A.C.	See subsection 62-304.705(1), F.A.C.	5.9 μg/L as AGM
2. Upper North Fork St. Lucie River	See subsection 62-304.705(2), F.A.C.	See subsection 62-304.705(2), F.A.C.	6.7 μg/L as AGM
3. Lower North Fork St. Lucie River	See subsection 62-304.705(3), F.A.C.	See subsection 62-304.705(3), F.A.C.	7.4 μg/L as AGM
4. Lower South Fork St. Lucie River	See subsection 62-304.705(6), F.A.C.	See subsection 62-304.705(6), F.A.C.	6.7 μg/L as AGM
5. Upper South Fork St. Lucie River	See subsection 62-304.705(7), F.A.C.	See subsection 62-304.705(7), F.A.C.	5.0 μg/L as AGM
6. Ma natee Creek	0.081 mg/L as long-term average	0.72 mg/L as long-term average	5.9 μg/L as AGM
(aa) Indian River Lagoon, Banana River Lagoon, and Mosquito Lagoon	For estuary segments with criteria expressed as annual geometric means (AGM), the values shall not be exceeded more than once in a three year period. For all other estuary segments, the criteria shall not be exceeded in more than 10 percent of the measurements and shall be assessed over the most recent seven year period.		
1. Indian River Lagoon between Loxahatchee River up to and including Hobe Sound	0.021 mg/Las AGM	0.49 mg/Las AGM	2.0 μg/L as AGM
2. Indian River Lagoon between Hobe Sound and St. Lucie	0.060 mg/Las AGM	0.63 mg/Las AGM	6.9 μg/L

3. Indian River Lagoon from St. Lucie Estuary to Ft. Pierce Inlet	0.070 mg/Las AGM	0.72 mg/Las AGM	4.7 μg/L as AGM
4. Indian River Lagoon from Ft. Pierce Inletto Indian River County Line	0.070 mg/Las AGM	0.72 mg/Las AGM	4.7 μg/L as AGM
5. Central Indian River La goon	See subsections 62-304.520(7) and (8), F.A.C.	See subsections 62-304.520(7) and (8), F.A.C.	5.9 μg/L as AGM
6. North Indian River La goon	See subsections 62-304.520(3)(6), F.A.C.	See subsections 62-304.520(3)-(6),F.A.C.	6.4 μg/L as AGM
7. Sebastian River Estuary	63,991 pounds/year, not to be exceeded in any year	323,382 pounds/year, not to be exceeded in any year	5.9 μg/L as AGM
8. Banana River Lagoon	See subsections 62-304.520(9) and (10), F.A.C.	See subsections 62-304.520(9) and (10), F.A.C.	7.3 μg/L as AGM
9. Newfound Harbor	See subsection 62-304.520(11), F.A.C.	See subsection 62-304.520(11), F.A.C.	7.3 μg/L as AGM
10. Sykes Creek Estuary	See subsection 62-304.520(13), F.A.C.	See subsection 62-304.520(13), F.A.C.	7.3 μg/L as AGM
11. Mosquito Lagoon: Oak Hill to the Southern Terminus	0.034 mg/Las AGM	1.14 mg/Las AGM	2.5 μg/L as AGM
12. Mosquito Lagoon: Edgewater to Oak Hill	0.048 mg/Las AGM	0.65 mg/L as AGM	3.4 µg/L as AGM
13. Mosquito Lagoon: Ponce de Leon to Edgewater	0.049 mg/Las AGM	0.51 mg/Las AGM	4.0 μg/L as AGM
(bb) Lower St. Johns River	For estuary segments with criteria expre		* 7
and Tributaries (predominantly marine)	exceeded more than once in a three year period. For criteria expressed as the long-term a verage of annual means, the long-term average shall be based on data from the most recent seven-year period and shall not be exceeded.		
Lower St. Johns River and Tributaries (predominantly marine)	722,834 kilo grams/year	See subsection 62-304.415(2), F.A.C.	5.4 μg/L as long-term average of annual means
(cc) St. Marys River	For estuary segments with criteria expressed as annual geometric means (AGM), the values shall not be exceeded more than once in a three year period. For all other estuary segments, the criteria shall not be exceeded in more than 10 percent of the measurements and shall be assessed over the most recent seven year period.		
1. Lower St. Marys River	0.181 mg/L	0.77 mg/L as AGM	12.9 μg/L
2. Middle St. Marys River	0.113 mg/Las AGM	1.12 mg/L as AGM	8.0 µg/L
3. Upper St. Marys River	0.093 mg/Las AGM	1.35 mg/Las AGM	3.0 μg/L as AGM

⁽²⁾ Criteria for chlorophyll a in open ocean coastal waters, derived from satellite remote sensing techniques, are provided in the table below. In each coastal segment specified in the Map of Florida Coastal Segments, dated May 13, 2013 (http://www.flrules.org/Gateway/reference.asp?No=Ref-03017), which is incorporated by reference herein, the Annual Geometric Mean remotely sensed chlorophyll a value, calculated excluding Karenia brevis blooms (≥50,000 cells/L), shall not be exceeded more than once in a three year period. The annual geometric means provided in the table below are based on measurements using the Sea WiFS satellite. Achievement of these criteria shall be assessed only by using satellite remote sensing data that are processed in a manner consistent with the derivation of the criteria. Data selection and preparation shall be consistent with the process described in Section 1.4.3 and Section 1.4.4, pages 14 through 17, in the report titled "Technical Support Document for U.S. EPA's Proposed Rule

for Numeric Nutrient Criteria for Florida's Estuaries, Coastal Waters, and South Florida Inland Flowing Waters, Volume 2: Coastal Waters," U.S. Environmental Protection Agency, November 30, 2012 (http://www.flrules.org/Gateway/reference.asp?No=Ref-03018), the specified pages of which are incorporated by reference herein. If MODIS or MERIS satellite data are used, the data shall be normalized using the standardization factors provided in the table below, consistent with the process described in Section 1.6.3, pages 26 through 33 (http://www.flrules.org/Gateway/reference.asp?No=Ref-03019), in the above referenced EPA document, the specified pages of which are incorporated herein. A copy of the Map of Florida Coastal Segments and the referenced pages from EPA's document above are available by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400.

Coastal Segment	Annual Geometric Mean Remotely Sensed Chlorophyll a	MODIS Standardization Factor	MERIS Standardization Facto
1	2.45	0.54	-0.71
2	2.65	0.99	-0.07
3	1.48	0.41	-0.22
4	1.20	0.26	-0.30
5	1.09	0.15	-0.28
6	1.07	0.29	-0.01
7	1.17	0.33	-0.02
8	1.27	0.38	-0.05
9	1.09	0.20	-0.07
10	1.13	0.41	-0.07
11	1.14	0.31	-0.05
12	1.21	0.41	-0.05
13	1.53	0.50	-0.13
14	1.80	0.69	0.01
15	2.80	0.68	0.58
16	2.49	-0.14	0.27
17	3.57	0.08	1.41
18	5.62	0.50	0.03
19	4.90	0.50	0.31
20	4.33	-0.02	-0.69
21	4.06	-0.63	-1.09
22	4.54	-0.46	-0.17
23	3.40	-1.21	-0.67
24	3.41	-2.37	0.01
25	3.11	-2.84	0.05
26	3.00	-4.16	-0.36
27	3.05	-1.77	-0.81
28	3.41	-2.13	-0.61
29	4.55	-0.83	-0.74
30	4.32	-0.74	-0.04
31	3.77	-0.29	-0.90
32	4.30	0.17	-0.47
33	5.98	0.10	0.80
34	4.63	-0.77	-0.32
35	4.14	0.42	-0.83
37	1.01	0.39	0.59
38	0.26	-0.04	-0.03
39	0.27	-0.02	0.00
40	0.25	-0.03	-0.01
41	0.21	-0.06	-0.01
42	0.21	-0.03	0.03
43	0.21	-0.02	0.04

44	0.20	-0.02	0.01
45	0.21	-0.04	0.02
46	0.26	-0.05	-0.01
47	0.58	-0.10	0.03
48	1.09	0.03	0.09
49	1.48	0.39	0.36
50	1.85	0.21	0.32
51	1.72	0.23	0.31
52	1.73	0.05	0.58
53	1.87	0.00	0.47
54	1.66	-0.13	0.31
55	1.60	0.18	0.71
56	2.12	0.11	0.39
57	2.83	0.44	0.84
58	2.63	0.09	0.40
59	2.34	0.06	0.33
60	2.17	0.07	0.29
61	2.01	-0.20	-0.06
62	1.93	0.18	-0.11
63	1.90	-0.69	-0.20
64	2.13	-0.79	-0.20
65	1.96	-0.72	-0.13
66	1.95	-0.85	-0.40
67	2.06	-0.33	-0.53
68	2.51	-0.47	-0.08
69	2.86	-0.60	-0.22
70	2.88	-1.39	-0.32
71	3.62	-2.00	-0.38
72	3.80	-1.38	-0.40
73	3.94	-0.28	-0.49
74	4.36	-0.16	-1.17

⁽³⁾ Estuarine and marine areas for the estuaries listed in subsection 62-302.532(1), F.A.C., are delineated in the maps of the Florida Estuary Nutrient Regions, dated October 2014 and October 2015 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06050), which are incorporated by reference herein. Copies of these maps may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS#6511, Tallahassee, FL 32399-2400.

(4) To calculate an annual geometric or arithmetic mean for TN, TP, or chlorophyll a, there shall be at least four temporally-independent samples per year with at least one sample taken between May 1 and September 30 and at least one sample taken during the other months of the calendar year. To be treated as temporally-independent, samples must be taken at least one week a part.

Rulemaking Authority 403.061, 403.062, 403.087, 403.504, 403.704, 403.804 FS. Law Implemented 403.021(11), 403.061, 403.087, 403.088, 403.141, 403.161, 403.182, 403.502, 403.702, 403.708 FS. History—New 7-3-12, Amended 12-20-12, 8-1-13, 8-20-13, 6-7-15, 2-17-16. Editorial Note: Paragraphs 62-302.532(1)(a)-(j) became effective on 7-3-12, and paragraphs 62-302.532(1)(k)-(p) became effective on 12-20-12, 20 days after filing the rule certification packages for these numeric nutrient criteria. In accordance with Section 4 of 2013-71, Laws of Florida, and subsection 62-302.531(9), F.A.C., paragraphs 62-302.532(1)(q)-(w), subsections 62-302.532(2) and (4), and the maps delineating these Florida Estuary Nutrient Regions in subsection 62-302.532(3) will become effective upon approval by EPA in their entirety, conclusion of rulemaking by EPA to repeal its federal numeric nutrient criterion for Florida, and EPA's determination that Florida's rules address its January 2009 determination that numeric nutrient criteria are needed in Florida.

62-302.533 Dissolved Oxygen Criteria for Class I, Class II, Class III, and Class III-Limited Waters.

- (1) Class I, Class III predominantly freshwaters, and Class III-Limited predominantly freshwaters.
- (a) No more than 10 percent of the daily average percent dissolved oxygen (DO) saturation values shall be below the following values:
 - 1.67 percent in the Panhandle West bioregion,

- 2.38 percent in the Peninsula and Everglades bioregions, or
- 3. 34 percent in the Northeast and Big Bend bioregions. A map of the bioregions is contained in *SCI 1000: Stream Condition Index Methods* (DEP-SOP-003/11 SCI 1000) dated March 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06039), which is incorporated by reference herein.
- (b) For lakes, the daily a verage DO level shall be calculated as the average of measurements collected in the upper two meters of the water column at the same location on the same day. For all other freshwaters, the daily average freshwater DO level shall be calculated as the average of all measurements collected in the water column at the same location and on the same day.
- (c) In the portions of the Suwannee, Withlacoochee (North), and Santa Fe Rivers utilized by the Gulf Sturgeon, and in the portions of the Santa Fe and New Rivers utilized by the Oval Pigtoe Mussel, DO levels shall not be lowered below the baseline distribution such that there is 90 percent confidence that more than 50 percent of measurements are below the median of the baseline distribution or more than 10 percent of the daily average values are below the 10th percentile of the baseline distribution for the applicable waterbody.
- (d) In the portions of the St. Johns River utilized by the Shortnose or Atlantic Sturgeon, the DO shall not be below 53 percent saturation during February and March. During other times of the year, the criteria specified in paragraph 62-302.533(1)(a), F.A.C., shall apply.
- (e) The baseline distributions and maps showing the specific a reas utilized by the Gulf Sturgeon and the Oval Pigtoe Mussel are provided in Appendix I of the "Technical Support Document for the Derivation of Dissolved Oxygen Criteria to Protect Aquatic Life in Florida's Fresh and Marine Waters" (DEP-SAS-001/13), dated March 2013 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02955), which is incorporated by reference herein. Copies of Appendix I may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400.
 - (2) Class II, Class III predominantly marine waters, and Class III-Limited predominantly marine waters.
 - (a) Minimum DO saturation levels shall be as follows:
 - 1. The daily a verage percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
 - 2. The seven-day average DO percent saturation shall not be below 51 percent more than once in any twelve week period; and,
 - 3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.
- (b) To calculate a seven-day average DO percent saturation, there shall be a minimum of three full days of diel data collected within the seven-day period, or a minimum of ten grab samples collected over at least three days within that seven-day period, with each sample measured at least four hours a part.
- (c) To calculate a 30-day average DO percent saturation, there shall be a minimum of three full days of diel data with at least one day of data collected in three different weeks of the 30-day period, or grab samples collected from a minimum of ten different days of the 30-day period.
- (d) A full day of diel data shall consist of 24 hours of measurements collected at a regular time interval of no longer than one hour.
- (3) If it is determined that the natural background DO saturation in the waterbody (including values that are naturally low due to vertical stratification) is less than the applicable criteria stated above, the applicable criteria shall be 0.1 mg/l below the DO concentration associated with the natural background DO saturation level.
- (4) For predominately marine waters, a decrease in magnitude of up to 10 percent from the natural background condition is allowed if it is demonstrated that sensitive resident a quatic species will not be a dversely a ffected using the procedure described in the DEP document titled Appendix H of the "Technical Support Document for the Derivation of Dissolved Oxygen Criteria to Protect Aquatic Life in Florida's Fresh and Marine Waters: Determination of Acceptable Deviation from Natural Background Dissolved Waters" Oxvgen Levels Fresh and Marine (DEP-SAS-001/13), dated March 2013 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02956), which is incorporated by reference herein. Copies of Appendix H may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS#6511, Tallahassee, FL 32399-2400.
- (5) Ambient DO levels above the minimum criteria specified in subsections 62-302.533(1) and (2), F.A.C., shall be maintained in accordance with and subject to Rules 62-302.300 and 62-4.242, F.A.C. Ambient DO levels will be considered to have declined, for purposes of this subsection if, a fter controlling for or removing the effects of confounding variables, such as climatic and hydrologic cycles, quality assurance issues, and changes in analytical methods, a waterbody segment is shown to have a statistically significant

decrea sing trend in DO percent saturation or an increasing trend in the range of daily DO fluctuations at the 95 percent confidence level using the one-sided Seasonal Kendall test for trend, as described in Helsel, D.R. and R.M. Hirsch, 2002, Statistical Methods in Water Resources, USGS, pages 338 through 340 (http://www.flrules.org/Gateway/reference.asp?No=Ref-02957), which is incorporated by reference herein, or an alternative statistically valid trend at a one-sided confidence level of 95 percent. It must be demonstrated that the data satisfy all statistical assumptions of any alternative method used, including residual distribution, variance, and shape of relationship.

Rulemaking Authority 403.061, 403.062, 403.087, 403.504, 403.704, 403.804 FS. Law Implemented 403.021(11), 403.061, 403.087, 403.088, 403.141, 403.161, 403.182, 403.502, 403.702, 403.708 FS. History—New 8-1-13, 2-17-16.

62-302.540 Water Quality Standards for Phosphorus Within the Everglades Protection Area.

- (1) Purpose and Scope. The water quality standards adopted by this rule include all of the following elements:
- (a) A numerical interpretation of the Class III narrative nutrient criterion for phosphorus;
- (b) A method for determining achievement of the numeric phosphorus criterion, which takes into consideration spatial and temporal variability, natural background conditions and confidence in laboratory results.
 - (2) Findings.
- (a) The Legislature, in a dopting the Everglades Forever Act, recognized that the EPA must be restored both in terms of water quantity and water quality.
- (b) The Comprehensive Everglades Restoration Plan (CERP) contains projects that will a ffect the flows and phosphorus levels entering the EPA. Achievement of water quality standards for water quality projects required under the Everglades Forever Act can be most effectively and efficiently attained when integrated with CERP projects.
- (c) It is the intent of the Commission that implementation of this rule will fulfill commitments made by the State of Florida to restore and maintain water quality in the EPA, while, at the same time, fulfill the States obligations under the Settlement Agreement to a chieve the long-term phosphorus concentration levels and discharge limits established in that Agreement for the Loxahatchee National Wildlife Refuge (Refuge) and the Everglades National Park (Park).
- (d) Establishment of the numeric phosphorus criterion, based upon analyses conducted primarily in freshwater open water slough systems, assumed that preservation of the balance of the native flora and fauna in these open water slough systems would protect other communities of native vegetation in the EPA. Further research should be conducted in other habitat types to further evaluate the natural variability in those habitat types.
- (e) The Commission has received substantial testimony regarding mercury and its impact on the EPA. The Commission encourages all interested parties to continue research efforts on the effects of mercury.
 - (3) Definitions.
- (a) The "Everglades Protection Area" or "EPA" shall mean Water Conservation Areas 1 (Refuge), 2A, 2B, 3A and 3B, and the Everglades National Park.
- (b) "Impacted Areas" shall mean areas of the EPA where total phosphorus concentrations in the upper 10 centimeters of the soils are greater than 500 mg/kg.
 - (c) "District" shall mean the South Florida Water Management District.
- (d) "Settlement Agreement" shall mean the Settlement Agreement entered in Case No. 88-1886-Civ-Hoeveler, United States District Court for the Southern District of Florida, as modified by the Omnibus Order entered in the case on April 27, 2001.
 - (e) "Unimpacted Areas" shall mean those areas which are not "Impacted Areas."
 - (4) Phosphorus Criterion.
- (a) The numeric phosphorus criterion for Class III waters in the EPA shall be a long-term geometric mean of 10 ppb, but shall not be lower than the natural conditions of the EPA, and shall take into account spatial and temporal variability. Achievement of the criterion shall be determined by the methods in this subsection. Exceedences of the provisions of this subsection shall not be considered deviations from the criterion if they are attributable to the full range of natural spatial and temporal variability, statistical variability inherent in sampling and testing procedures or higher natural background conditions.
- (b) Water Bodies. Achievement of the phosphorus criterion for waters in the EPA shall be determined separately in impacted and unimpacted areas in each of the following water bodies: Water Conservation Areas 1, 2 and 3, and the Everglades National Park.
- (c) Achievement of Criterion in Everglades National Park. Achievement of the phosphorus criterion in the Park shall be based on the methods as set forth in Appendix A of the Settlement Agreement unless the Settlement Agreement is rescinded or term inated. If

the Settlement Agreement is no longer in force, a chievement of the criterion shall be determined based on the method provided for the remaining EPA. For the Park, the Department shall review data from inflows into the Park at locations established pursuant to Appendix A of the Settlement Agreement and shall determine that compliance is a chieved if the Department concludes that phosphorus concentration limits for inflows into the Park do not result in a violation of the limits established in Appendix A.

- (d) Achievement of the Criterion in WCA-1, WCA-2 and WCA-3.
- 1. Achievement of the criterion in unimpacted areas in each WCA shall be determined based upon data from stations that are evenly distributed and located in freshwater open water sloughs similar to the areas from which data were obtained to derive the phosphorus criterion. Achievement of the criterion shall be determined based on data collected monthly from the network of monitoring stations in the unimpacted area. The water body will have achieved the criterion if the five year geometric mean averaged across all stations is less than or equal to 10 ppb. In order to provide protection against imbalances of aquatic flora or fauna, the following provisions must also be met:
 - a. The annual geometric mean a veraged a cross all stations is less than or equal to 10 ppb for three of five years,
 - b. The annual geometric mean averaged a cross all stations is less than or equal to 11 ppb; and,
- c. The annual geometric mean at all individual stations is less than or equal to 15 ppb. Individual station analyses are representative of only that station.
- 2. Achievement of the criterion shall be determined based on data collected monthly from the network of monitoring stations in the impacted area. Impacted Areas of the water body will have achieved the criterion if the five year geometric mean a veraged across all stations is less than or equal to 10 ppb. In order to provide protection against imbalances of a quatic flora or fauna, the following provisions must also be met:
 - a. The annual geometric mean a veraged a cross all stations is less than or equal to 10 ppb for three of five years,
 - b. The annual geometric mean averaged a cross all stations is less than or equal to 11 ppb; and,
- c. The annual geometric mean at all individual stations is less than or equal to 15 ppb. Individual station analyses are representative of only that station.

Notwithstanding the definition of Impacted Area in subsection (3), individual stations in the network shall be deemed to be unimpacted for purposes of this rule if the five-year geometric mean is less than or equal to 10 ppb and the annual geometric mean is less than or equal to 15 ppb.

- (e) Adjustment of Achievement Methods. The Department shall complete a technical review of the achievement methods set forth in this subsection at a minimum of five year intervals and will report to the ERC on changes as needed. Data will be collected as necessary at stations that are evenly distributed and representative of major natural habitat types to further define the natural spatial and temporal variability and natural background of phosphorus concentrations in the EPA. As a part of the review, the Department may propose a mendments to the achievement method provisions of this rule to include:
 - 1. A hydrologic variability algorithm in a manner similar to the Settlement Agreement; and,
- 2. Implementing a djustment factors that take into a count water body specific variability, including the effect of habitat types. The hydrologic variability evaluation shall be based on data from at least one climatic drought cycle and data reflecting the average interior stage of the water body on the dates of sample collection.
- (f) Data Screening. Data from each monitoring station shall be evaluated prior to being used for the purposes of determining a chievement of the criterion. Data shall be excluded from calculations for the purpose of determining a chievement of the criterion if such data:
 - 1. Do not comply with the requirements of Chapter 62-160, F.A.C., or
 - 2. Are excluded through the screening protocol set forth in the Data Quality Screening Protocol, or
- 3. Were collected from sites affected by extreme events such as fire, flood, drought or hurricanes, until normal conditions are restored, or
- 4. Were affected by localized activities caused by temporary human or natural disturbances such as airboat traffic, authorized (permitted or exempt) restoration activities, alligator holes, or bird rookeries.
- 5. Were sampled in years where hydrologic conditions (e.g., rainfall amount, water levels and water deliveries) were outside the range that occurred during the period (calendar years 1978–2001) used to set the phosphorus criterion.
 - (5) Long-Term Compliance Permit Requirements for Phosphorus Discharges into the EPA.
- (a) Phosphorus discharge levels into the EPA shall be deemed in compliance with this rule upon a demonstration that those levels in the discharges will be at or below a water quality based effluent limit calculated pursuant to Chapter 62-650, F.A.C., to a chieve the

phosphorus criterion set forth in this rule.

- (b) Discharges into the Park must not result in a violation of the concentration limits established for the Park in Appendix A of the Settlement Agreement as determined through the methodology set forth in subsection (4).
- (6) Document Incorporated by Reference. The following document is referenced elsewhere in this section and is hereby incorporated by reference:

Data Quality Screening Protocol, dated 7-15-04.

- (7) Contingencies. In the event any provision of this rule is challenged in any proceeding, the Commission shall immediately be notified. In the event any provision of this rule:
 - (a) Is determined to be invalid under a pplicable laws, or
- (b) Is disapproved by the U.S. Environmental Protection Agency under the Clean Water Act, the Department shall bring the matter back before the Commission at the earliest practicable date for reconsideration.

Rulemaking Authority 373.043, 373.4592, 403.061 FS. Law Implemented 373.016, 373.026, 373.4592, 403.021(11), 403.061, 403.201 FS. History—New 7-15-04, Amended 5-25-05, 3-28-17.

62-302.700 Special Protection, Outstanding Florida Waters, Outstanding National Resource Waters.

- (1) It shall be the Department policy to a fford the highest protection to Outstanding Florida Waters and Outstanding National Resource Waters. No degradation of water quality, other than that allowed in subsections 62-4.242(2) and (3), F.A.C., is to be permitted in Outstanding Florida Waters and Outstanding National Resource Waters, respectively, notwithstanding any other Department rules that allow water quality lowering.
- (2) A complete listing of Outstanding Florida Waters and Outstanding National Resource Waters is provided in subsections (9) and (10). Outstanding Florida Waters generally include the following surface waters (unless named as Outstanding National Resource Waters):
 - (a) Waters in National Parks, Preserves, Memorials, Wildlife Refuges and Wilderness Areas;
 - (b) Waters in the State Park System and Wilderness Areas;
- (c) Waters within areas acquired through donation, trade, or purchased under the Environmentally Endangered Lands Bond Program, Conservation and Recreation Lands Program, Land Acquisition Trust Fund Program, and Save Our Coast Program;
- (d) Rivers designated under the Florida Scenic and Wild Rivers Program, federal Wild and Scenic Rivers Act of 1968 a samended, and Myakka River Wild and Scenic Designation and Preservation Act;
- (e) Waters within National Seashores, National Marine Sanctuaries, National Estuarine Research Reserves, and certain National Monuments:
 - (f) Waters in Aquatic Preserves created under the provisions of Chapter 258, F.S.;
 - (g) Waters within the Big Cypress National Preserve;
 - (h) Special Waters as listed in paragraph 62-302.700(9)(i), F.A.C.; and,
 - (i) Certa in Waters within the Boundaries of the National Forests.
- (3) Each water body demonstrated to be of exceptional recreational or ecological significance may be designated as a Special Water.
 - (4) The following procedure shall be used in designating an Outstanding National Resource Water as well as any Special Water.
 - (a) Rulemaking procedures pursuant to Chapter 120, F.S., shall be followed;
 - (b) At least one fact-finding workshop shall be held in the affected area;
- (c) All local county or municipal governments and state legislators whose districts or jurisdictions include all or part of the water shall be notified at least 60 days prior to the workshop in writing by the Secretary;
- (d) A prominent public notice shall be placed in a newspaper of general circulation in the area of the proposed water at least 60 days prior to the workshop; and,
- (e) An economic impact analysis, consistent with Chapter 120, F.S., shall be prepared which provides a general analysis of the impact on growth and development including such factors as impacts on planned or potential industrial, a gricultural, or other development or expansion.
- (5) The Commission may designate a water of the State as a Special Water after making a finding that the waters are of exceptional recreational or ecological significance and a finding that the environmental, social, and economic benefits of the designation outweigh the environmental, social, and economic costs.

- (6) The Commission may designate a water as an Outstanding National Resource Water a fter making all of the following findings:
- (a) That the waters are of such exceptional recreational or ecological significance that water quality should and can be maintained and protected under all circumstances other than temporary degradation and the lowering allowed by Section 316 of the Federal Clean Water Act; and,
- (b) That the level of protection afforded by the designation as Outstanding National Resource Waters is clearly necessary to preserve the exceptional ecological or recreational significance of the waters; and,
- (c) That the environmental, social, and economic benefits of the designation outweigh the environmental, social, and economic costs.
 - (7) The policy of this section shall be implemented through the permitting process pursuant to Rule 62-4.242, F.A.C.
- (8) For each Outstanding Florida Water listed under subsection 62-302.700(9), F.A.C., the last day of the baseline year for defining the existing a mbient water quality (paragraph 62-4.242(2)(c), F.A.C.) is March 1, 1979, unless otherwise indicated. Where a pplicable, Outstanding Florida Water boundary expansions are indicated by date(s) following "as mod." under subsection 62-302.700(9), F.A.C. For each Outstanding Florida Water boundary which expanded subsequent to the original date of designation, the baseline year for the entire Outstanding Florida Water, including the expansion, remains March 1, 1979, unless otherwise indicated.
 - (9) Outstanding Florida Waters:

(a) Waters within National Parks and National Memorials.

National Park or	
National Memorial	County
1. Biscayne National Park (as mod. 5-14-86, 8-8-94)	Dade
2. Dry Tortugas National Park (10-4-90)	Monroe
3. Everglades National Park (as mod. 8-8-94)	Monroe/Dade/Collier
4. Fort Caroline National Memorial (8-8-94)	Duval

(b) Waters within National Wildlife Refuges.

Wildlife Refuge	County
1. Archie Carr (8-8-94)	Indian River/Brevard
2. Caloosahatchee	Lee
3. Cedar Keys (as mod. 5-14-86, 4-19-88)	Levy
4. Chassahowitzka (as mod. 5-14-86, 4-19-88)	Citrus/Hernando
5. Chinsegut	Hernando
6. Crocodile Lake (12-1-82; as mod. 5-14-86, 4-19-88, 8-8-94)	Monroe
7. Crystal River (5-14-86; as mod. 10-4-90)	Citrus
8. Egmont Key	Hillsborough
9. Florida Panther (10-4-90; as mod. 8-8-94)	Collier
10. Great White Heron (as mod. 5-14-86, 4-19-88)	Monroe
11. Hobe Sound (as mod. 5-14-86, 4-19-88, 8-8-94)	Martin
12. Island Bay	Charlotte
13. J. N. "Ding" Darling (as mod. 5-14-86, 4-19-88, 8-8-94)	Lee
14. Key West	Monroe
15. Lake Woodruff (as mod. 8-8-94)	Volusia/Lake
16. Lower Suwannee (12-1-82; as mod. 8-8-94)	Dixie/Levy
17. Loxahatchee	Palm Beach
18. Matlacha Pass (as mod. 8-8-94)	Lee
19. Merritt Island	Volusia/Brevard
20. National Key Deer (as mod. 5-14-86, 4-19-88, 10-4-90, 8-8-94)	Monroe
21. Okefenokee (Florida Portion)	Baker
22. Passage Key	Manatee
23. Pelican Island (as mod. 8-8-94)	IndianRiver
24. Pine Island (as mod. 8-8-94)	Lee

25. Pinellas	Pinellas
26. St. Johns (including Bee Line Unit) (as mod. 5-14-86, 4-19-88)	Brevard
27. St. Marks (as mod. 10-4-90, 8-8-94)	Jefferson/Wakulla/Taylor
28. St. Vincent (including Pig Island Unit)	Franklin/Gulf
(c) Waters within State Parks, State Wildlife Parks, and State Recreation Areas.	Trankini/Gui
State Park or State	
Recreation Area	County
1. Amelia Island State Recreation Area (5-14-86)	Nassau
2. Anastasia State Recreation Area (as mod. 4-19-88)	St. Johns
3. Avalon State Recreation Area (4-19-88; as mod. 8-8-94)	St. Lucie
4. Bahia Honda State Park (as mod. 5-14-86)	Monroe
5. Bear Creek State Recreation Area (12-1-82)	Gadsden
6. Big Lagoon State Recreation Area (12-1-82; as mod. 5-14-86, 8-8-94)	Escambia
7. Big Talbot Island State Park (5-14-86; as mod. 4-19-88, 8-8-94)	Duval
	Dade
8. Bill Baggs Cape Florida State Recreation Area 9. Blackwater River State Park	Santa Rosa
10. Blue Springs State Park	Volusia Volusia
11. Bulow Creek State Park (5-14-86; as mod. 4-19-88)	
11. Bullow Creek State Park (5-14-80, as mod. 4-19-88)	Fla gler/Volusia Pinella s
13. Cayo Costa State Park (12-1-82; as mod. 5-14-86, 4-19-88, 10-4-90, 8-8-94)	Lee
13. Cayo Costa State Fark (12-1-82, as finded. 3-14-80, 4-19-88, 10-4-90, 8-8-94) 14. Collier-Seminole State Park	Collier
15. Dead Lakes State Recreation Area	Gulf
16. De Leon Springs State Recreation Area (5-14-86; as mod. 10-4-90)	Volusia
17. Delnor-Wiggins Pass State Recreation Area (12-1-82)	Collier
18. Don Pedro Island State Recreation Area (5-14-86; as mod. 4-19-88)	Charlotte
19. Dr. Julian G. Bruce St. George Island State Park (12-1-82)	Franklin
20. Edward Ball Wakulla Springs State Park (4-19-88)	Wakulla
21. Falling Waters State Recreation Area	Washington
22. Fa ver-Dykes State Park	St. Johns
23. Florida Caverns State Park (as mod. 8-8-94)	Jackson
24. Fort Clinch State Park (as mod. 4-19-88, 8-8-94)	Nassau
25. Fort Cooper State Park (12-1-82)	Citrus
26. Fort Pierce Inlet State Recreation Area (12-1-82; as mod. 5-14-86)	St. Lucie
27. Fred Gannon Rocky Bayou State Recreation Area	Okaloosa
28. Gamble Rogers Memorial State Recreation Area at Flagler Beach	Flagler
29. Ga sparilla Island State Recreation Area (5-14-86; a s mod. 4-19-88, 10-4-90)	Lee
30. Grayton Beach State Recreation Area (as mod. 4-19-88)	Walton
31. Gua na River State Park (5-14-86; as mod. 4-19-88)	St. Johns
32. Henderson Beach State Recreation Area (5-14-86)	Okaloosa
33. Highlands Hammock State Park (as mod. 8-8-94)	Highlands/Hardee
34. Hillsborough River State Park	Hillsborough
35. Homosassa Springs State Wildlife Park (10-4-90)	Citrus
36. Honeymoon Island State Recreation Area (12-1-82; as mod. 5-14-86)	Pinellas
37. Hontoon Island State Park	Volusia/Lake
38. Hugh Taylor Birch State Recreation Area	Broward
39. Ichetucknee Springs State Park	Columbia/ Suwannee
40. John D. McArthur Beach State Park (12-1-82)	Palm Beach
40. John D. McAthur Beach State Park (12-1-62)	railli Beacii

41. John Pennekamp Coral Reef State Park (as mod. 5-14-86, 4-19-88)	Monroe
42. John U. Lloyd Beach State Recreation Area	Broward
43. Jonathan Dickinson State Park	Martin
44. Lake Arbuckle State Park (5-14-86)	Polk
45. Lake Griffin State Recreation Area	Lake
46. Lake Kissimmee State Park	Polk
47. Lake Louisa State Park (12-1-82)	Lake
48. Lake Manatee State Recreation Area (12-1-82)	Manatee
49. Lake Rousseau State Recreation Area (12-1-82)	Citrus/Levy/Marion
50. Lake Talquin State Recreation Area (12-1-82; as mod. 5-14-86)	Leon
51. Little Manatee River State Recreation Area (12-1-82)	Hillsborough
52. Little Talbot Island State Park	Duval
53. Long Key State Recreation Area	Monroe
54. Lovers Key State Recreation Area (5-14-86)	Lee
55. Manatee Springs State Park (as mod. 10-4-90)	Levy
56. Mike Roess Gold Head Branch State Park (as mod. 5-14-86, 4-19-88, 8-8-94)	Clay
57. Myakka River State Park	Manatee/Sarasota
58. North Peninsula State Recreation Area (5-14-86; as mod. 4-19-88, 10-4-90)	Volusia
59. Ochlockonee River State Park	Wakulla
60. O'Leno State Park (as mod. 5-14-86)	Ala chua/Columbia
61. Oleta River State Recreation Area (12-1-82)	Dade
62. Oscar Scherer State Park (as mod. 8-8-94)	Sarasota
63. Pea cock Springs State Recreation Area (4-19-88)	Suwannee
64. Perdido Key State Recreation Area (12-1-82)	Escambia
65. Ponce de Leon Springs State Recreation Area	Holmes/Walton
66. Port Charlotte Beach State Recreation Area (12-1-82)	Charlotte
67. Rose Sink (addition to Ichetucknee Springs State Park) (1-9-05)	Columbia
68. St. Andrews State Recreation Area (as mod. 5-14-86, 4-19-88)	Bay
69. Sebastian Inlet State Recreation Area	Indian River/Brevard
70. Silver River State Park (4-19-88; as mod. 10-4-90, 8-8-94)	Marion
71. Suwannee River State Park (as mod. 10-4-90)	Hamilton/Madison/
72. Three Rivers State Recreation Area	Jackson
73. T. H. Stone Memorial St. Joseph Peninsula State Park	Gulf
74. Tomoka State Park	Volusia
75. Torreya State Park	Liberty
76. Wekiwa Springs	Orange/Seminole
State Park (as mod. 4-19-88)	

(d) Waters within State Ornamental Gardens, State Botanical Sites, State Historic Sites, and State Geological Sites.

State Ornamental Gardens, State Botanical Site, State Historic Site, or	
State Geological Site	County
1. Alfred B. Maclay State Gardens	Leon
2. Devils Millhopper State Geological Site (10-4-90)	Alachua
3. Eden State Gardens	Walton
4. Fort Zachary Taylor State Historic Site (10-4-90)	Monroe
5. Indian Key State Historic Site (10-4-90)	Monroe
6. Key Largo Hammock State Botanical Site (5-14-86)	Monroe
7. Koreshan State Historic Site (10-4-90)	Lee

8. Lignumvitae Key State Botanical Site (5-14-86)	Monroe
9. Marjorie Kinnan Rawlings State Historic Site (10-4-90)	Alachua
10. Natural Bridge Battlefield State Historic Site (10-4-90)	Leon
11. Paynes Creek State Historic Site (10-4-90)	Hardee
12. Ravine State Gardens	Putnam
13. San Marcos de Apalachee State Historic Site (10-4-90)	Wakulla
14. Washington Oaks State Gardens (as mod. 5-14-86)	Flagler
15. Windley Key Fossil Reef State Geological Site (10-4-90)	Monroe

(e) Waters within State Preserves, State Underwater Archaeological Preserves, and State Reserves.

State Preserve or State	
Reserve	County
1. Anclote Key State Preserve (12-1-82)	Pasco/Pinellas
2. Cape St. George State Reserve (12-1-82)	Franklin
3. Cedar Key Scrub State Reserve (12-1-82; as mod. 4-19-88)	Levy
4. Charlotte Harbor State Reserve (as mod. 4-19-88)	Charlotte
5. Crystal River State Reserve (5-14-86; as mod. 4-19-88)	Citrus
6. Fakahatchee Strand State Preserve (12-1-82; as mod. 5-14-86, 4-19-88, 10-4-90, 8-8-94)	Collier
7. Haw Creek State Preserve (12-1-82)	Flagler/Putnam/Volusia
8. Lower Wekiva River State Reserve (12-1-82)	Lake/Seminole
9. Nassau Valley State Reserve (12-1-82)	Duval/Nassau
10. Paynes Prairie State Preserve (as mod. 10-4-90, 8-8-94)	Alachua
11. Prairie-Lakes State Preserve	Osceola
12. River Rise State Preserve (12-1-82; as mod. 8-8-94)	Ala chua/Columbia
13. Rock Springs Run State Reserve (5-14-86; as mod. 4-19-88)	Orange
14. San Felasco Hammock State Preserve (12-1-82; as mod. 5-14-86, 4-19-88)	Alachua
15. San Pedro State Underwater Archaeological Preserve (10-4-90)	Monroe
16. Sa vannas State Reserve (12-1-82; as mod. 5-14-86, 10-4-90, 8-8-94)	Martin/St. Lucie
17. St. Lucie Inlet State Preserve (12-1-82)	Martin
18. Wa ccasassa Bay State Preserve (12-1-82; as mod. 4-19-88)	Levy
19. Weedon Island State Preserve (12-1-82)	Pinellas
20. William Beardell Tosohatchee State Reserve (12-1-82)	Orange

(f) Waters within Areas Acquired through Donation, Trade, or Purchased Under the Environmentally Endangered Lands Bond Program, Conservation and Recreation Lands Program, Land Acquisition Trust Fund Program, and Save Our Coast Program.

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Program Area	<u>County</u>
1. Andrews Tract (5-14-86; as mod. 4-19-88, 8-8-94)	Levy
2. Apalachicola Bay (8-8-94)	Franklin
3. Barefoot Beach (12-1-82)	Collier
4. Beker Tracts (10-4-90)	
5. Big Bend Coastal Tract (4-19-88; as mod. 10-4-90)	Dixie/Taylor
6. Big Shoals (4-19-88)	Hamilton
7. B.M.K. Ranch (8-8-94)	Lake/Orange
8. Bower Tract (5-14-86; as mod. 4-19-88)	Hillsborough
9. Caravelle Ranch (8-8-94)	Putnam
10. Carlton Half-Moon Ranch (8-8-94)	
11. Catfish Creek (8-8-94)	Polk
12. Cha ssahowitzka Swamp (5-14-86; a s mod. 4-19-88, 8-8-94)	Hernando/Citrus
13. Coupon Bight (10-4-90; as mod. 8-8-94)	Monroe
14. Crystal River (10-4-90)	Citrus

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15. Curry Hammock (8-8-94)	Monroe
16. Deering Hammock/Estate (5-14-86; as mod. 4-19-88, 8-8-94)	Dade
17. East Everglades (5-14-86)	Dade
18. Econfina River (8-8-94)	Taylor
19. Emerson Point (8-8-94)	Manatee
20. Escambia Bay Bluffs (5-14-86)	Escambia
21. Estero Bay (8-8-94)	Lee
22. Florida First Magnitude Springs (8-8-94)	Levy
23. Ft. George Island (10-4-90)	Duval
24. Ft. Mose (8-8-94)	St. Johns
25. Ft. San Luis (5-14-86; as mod. 8-8-94)	Leon
26. Gateway (5-14-86)	Pinellas
27. Gills Tract (8-8-94)	Pasco
28. Green Turtle Beach (4-19-88)	St. Lucie
29. Guana River (5-14-86; as mod. 4-19-88)	St. Johns
30. Homosassa Reserve/Walker Tract (8-8-94)	Citrus
31. Indian River North Beach (5-14-86)	IndianRiver
32. ITT/Hammock (5-14-86)	Dade
33. Josslyn Island (10-4-90)	Lee
34. Levy County Forest/Sandhills (8-8-94)	Levy
35. Letchworth Mounds (8-8-94)	Jefferson
36. Lower Econlockhatchee (8-8-94)	Seminole
37. Martin County Tracts (5-14-86)	Martin
38. Mashes Sands (5-14-86)	Wakulla
39. Mia mi Rockridge Pinelands (8-8-94)	Dade
40. Milton to Whiting Field (8-8-94)	Santa Rosa
41. North Beach (5-14-86)	Broward
42. North Key Largo Hammock (5-14-86; as mod. 4-19-88, 10-4-90, 8-8-94)	Monroe
43. Placid Lakes (8-8-94)	Highlands
44. Point Washington (8-8-94)	Walton
45. Port Bougainville (10-4-90)	Monroe
46. Rainbow River/Springs (8-8-94)	Marion
47. Rookery Bay (10-4-90; as mod. 8-8-94)	Collier
48. Rotenberger (as mod. 4-19-88, 8-8-94)	Palm Beach
49. Saddle Blanket Lakes Scrub (8-8-94)	Polk
50. Save Our Everglades (10-4-90; as mod. 8-8-94)	Collier
51. Sea Branch (8-8-94)	Martin
52. Seminole Springs/Woods (8-8-94)	Lake
53. Snake Warrior Island (Oaks of Miramar) (8-8-94)	Broward
54. Spring Hammock (4-19-88; as mod. 10-4-90)	Seminole
55. Spruce Creek (4-19-88; as mod. 8-8-94)	Volusia
56. St. Martins River (8-8-94)	Citrus
57. Stark Tract (10-4-90)	Volusia
58. Stoney-Lane (10-4-90)	Citrus
59. Surfside Additions (5-14-86)	St. Lucie
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60. Three Lakes/Prairie Lakes (as mod. 8-8-94)	Osceola
61. Topsail Hill (8-8-94)	Walton

62. Upper Black Creek (8-8-94)	Clay
63. Volusia Water Recharge Area	Volusia
64. Wa cissa/Aucilla Rivers (10-4-90)	Jefferson/Taylor
65. Wekiva River Buffers (8-8-94)	Seminole
66. Westlake(5-14-86; as mod. 4-19-88)	Broward
67. Wetstone/Berkovitz (8-8-94)	Pasco
68. Withla coochee Tracts (12-1-82)	Sumter

(g) Waters within National Seashores.

National Seashores	<u>County</u>
1. Canaveral	Brevard/Volusia
2. Gulf Islands	Escambia/Santa Rosa

(h) Waters within State Aquatic Preserves.

<u>Aquatic Preserves</u>	County
1. Alligator Harbor	Franklin
2. Apalachicola Bay	Franklin
3. Banana River (as mod. 8-8-94)	Brevard
4. Big Bend Seagrasses	Wakulla/Taylor/ Jefferson/Dixie/Levy

except for the following areas:

- a. Keaton Beach, Taylor County Begin at 29°49'50" N. Lat., 83°35'24" W. Long.; then west to 29°49'45", 83°35'50"; then south to 29°49'04", 83°35'48"; then east to 29°49'04", 83°35'24"; then north to the point of beginning.
- b. Steinhatchee, Taylor County Begin at 29° 40' 35", 83° 22' 10"; then west to 29° 40' 35", 83° 23' 10"; then north to 29° 41', 83° 23' 10"; then west to 29° 41', 83° 24' 10"; then south to the Taylor County-Dixie County boundary; then eastward a long the boundary to 29° 39' 55", 83° 22' 10"; then north to the point of beginning.
- c. Suwannee, Dixie County Begin at $29^{\circ}20'30''$, $83^{\circ}08'10''$; then west to $29^{\circ}20'30''$, $83^{\circ}08'25''$; then south to $29^{\circ}20'05''$, $83^{\circ}08'25''$; then southwesterly a long SR 349 to $29^{\circ}19'51''$, $83^{\circ}08'35''$; then west to $29^{\circ}19'51''$, $83^{\circ}08'45''$; then southwesterly to $29^{\circ}19'40''$, $83^{\circ}09'12''$; then south to $29^{\circ}19'30''$, $83^{\circ}09'12''$; then northeasterly to $29^{\circ}19'39''$, $83^{\circ}08'53''$; then southeasterly to $29^{\circ}19'20''$, $83^{\circ}08'49''$; then southeasterly to $29^{\circ}19'14''$, $83^{\circ}08'41''$; then northeasterly along the bank of the Suwannee River to and along the bank of Demory Creek to $29^{\circ}19'45''$, $83^{\circ}08'10''$; then north to the point of beginning.
- d. Cedar Key unincorporated a irport a rea, Levy County Begin at 29° 08' 26", 83° 03' 17"; then south to 29° 07' 34", 83° 03' 17", then northeasterly to 29° 07' 48", 83° 02' 33"; beginning northerly and tracing the corporate limit of Cedar Key to the point of beginning.
- e. Cedar Key unincorporated causeway area, Levy County That portion of Section 20 lying within 1000 feet of the centerline of SR 24 and lying north of a line 500 feet northeast of and parallel to the northern corporate limit of Cedar Key.
- f. Cedar Key channel, Levy County Begin at 29°08'58", 83°01'17"; then west to 29°08'58", 83°01'24"; then south to 29°08' 05", 83°01'26"; then northeasterly to 29°08'08", 83°01'17"; then northerly to the point of beginning.
- g. Keaton Beach navigation channel, Taylor County Begin at 29° 49' 02", 83° 35' 30"; then west to 29° 49' 02", 83° 37' 58"; then south to 29° 48' 45", 83° 37' 58"; then east to 29° 48' 45", 83° 35' 30"; then north to the point of beginning.
- h. Keaton Beach local channels, Taylor County Begin at 29° 49' 01", 83° 35' 38"; then southeast to 29° 48' 55", 83° 35' 15"; then northeast to 29° 48' 59", 83° 35' 13"; then northwest to 29° 49' 06", 83° 35' 36"; then southwest to the point of beginning. (10-29-86)

5. Bisca yne Bay (Cape Florida)	Da de/Monro e	
6. Bisca yne Bay (Card Sound) (12-1-82)	Da de/Monro e	
7. Boca Ciega Bay	Pinellas	
8. CapeHaze	Charlotte/Lee	
9. CapeRomano-Ten Thousand Islands	Collier	
10. Cockroach Bay	Hillsborough	
11. Coupon Bight	Monroe	
12. Estero Bay (as mod. 4-19-88)	Lee	
13. Fort Clinch State Park	Nassau	
14. Fort Pickens State Park	Santa Rosa/Escambia	

15. Ga sparilla Sound-Charlotte Harbor (a s mod. 10-4-90)	Charlotte/Lee
16. Guana River Marsh (8-8-94)	St. Johns
17. Indian River Malabar to Vero Beach	Brevard/Indian River
18. Indian River Malabar to Vero Beach (additions), except those Indian River portions of	Brevard/Indian River
Sebastian Creek and Turkey Creek upstream of U.S. Highway 1 (1-26-88)	
19. Indian River Vero Beach to Ft. Pierce (as mod. 10-4-90)	Indian River/St. Lucie
20. Jensen Beach to Jupiter Inlet (as mod. 10-4-90)	Martin/Palm Beach/St. Lucie
21. Lake Jackson	Leon
22. Lemon Bay (4-19-88; as mod. 10-4-90)	Charlotte/Sarasota
23. Lignum vitae Key	Monroe
24. Loxahatchee River-Lake Worth Creek (as mod. 8-8-94)	Martin/Palm Beach
25. Matlacha Pass	Lee
26. Mosquito Lagoon	Volusia/Brevard
27. Na ssa u River-St. Johns River Marshes	Na ssa u/Duval
28. North Fork, St. Lucie	St. Lucie/Martin
29. Okla wa ha River (10-4-90)	Marion
30. Pellicer Creek	St. Johns/Flagler
31. Pine Island Sound	Lee
32. Pinellas County	Pinellas
33. Rainbow Springs (4-19-88)	Marion
34. Rocky Bayou State Park	Okaloosa
35. Rookery Bay (12-1-82; as mod. 11-24-87, 7-11-91)	Collier
36. St. Andrews State Park	Bay
37. St. Joseph Bay	Gulf
38. St. Martins Marsh (as mod. 8-8-94)	Citrus
39. Terra Ceia (5-22-86)	Manatee
40. Tomoka Marsh	Volusia/Flagler
41. Wekiva River (12-1-82)	Lake/Orange/ Seminole
42. Wekiva River Addition, except that portion of the St. Johns River between Interstate	Lake/Seminole/Volusia
Highway 4 and the Wekiva River confluence (12-28-88)	
43. Yellow River Marsh	Santa Rosa

- (i) Special Waters.
- 1. Apalachicola River except for the following a reas:
- a. From a point 50 feet north of the northern boundary of the Jackson County Port Authority Slip, and including the slip itself, downstream to a point about four-tenths of a mile downstream, and specifically identified by navigation mile 103 on the 1982 U.S. Geological Survey Quadrangle Map of Sneads, Florida; and
- b. From 850 feet downstream of the U.S. Army Corps of Engineers Blountstown Na vigation Gage in Calhoun County, north to a point approximately 2,700 feet upstream of the Gage, and specifically identified by the line passing through 30°25'45" N. Lat. and 85°1'35"W. Long.; and 30°25'38"N. Lat. and 85°1'20" W. Long. (12-11-84).
 - 2. Aucilla River.
 - 3. Blackwater River.
- 4. Butler Chain of Lakes consisting of Lake Butler, Lake Down, Wauseon Bay, Lake Louise, Lake Palmer (also known as Lake Isleworth), Lake Chase, Lake Tibet, Lake Sheen, Pocket Lake, Fish Lake, and the waterways which connect these lakes (3-1-84), and Lake Blanche and its connecting waterway (2-18-87).
- 5. Chassahowitzka River System including: Potter, Salt, Baird, Johnson, Crawford, Ryle, and Stevenson Creeks, and other tributaries to the Chassahowitzka River; but excluding artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (1-5-93).
 - 6. Chipola River.

- 7. Choctawhatchee River.
- 8. Clermont Chain of Lakes consisting of Lake Louisa (also known as Lake Louise), Lake Susan, Lake Crescent, Lake Minnehaha, Lake Winona, Lake Palatlakaha, Lake Hiawatha, Lake Minneola, Lake Wilson, Lake Cook, Cherry Lake, Lake Hunt, Lake Stewart, Lake Lucy, Lake Emma, and the waterways that interconnect Clermont Chain of Lakes (5-28-86).
- 9. Crooked Lake in Polk County including the area known as Little Crooked Lake and the connecting waterway between these waterbodies; less however, artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (4-9-87).
 - 10. Crystal River, including Kings Bay (2-1-83).
 - 11. Econlockhatchee River System consisting of the Econlockhatchee River and the following tributaries:
 - a. Little Econlockhatchee River upstream to Michaels Dam in Jay Blanchard Park; and,
 - b. Mills Creek upstream to Mills Lake; and,
 - c. Southerly branch of Mills Creek upstream to Fort Christmas Road in Section 2, Township 22 South, Range 32 East; and,
 - d. Silcox Branch (branch of Mills Creek) upstream to Lake Pickett; and,
 - e. Long Branch upstream to the eastern section line of Section 34, Township 22 South, Range 32 East; and,
 - f. Hart Branch upstream to the Old Railroad Grade in Section 18, Township 23 South, Range 32 East; and,
 - g. Cowpen Branch upstream to the southernmost bifurcation of the creek in Section 20, Township 23 South, Range 32 East; and,
 - h. Green Branch upstream to the western section line of Section 29, Township 23 South, Range 32 East; and,
- i. Turkey Creek upstream to Weewahootee Road in Section 5, Township 24 South, Range 32 East, and to the west section lines of Section 5, Township 24 South, Range 32 East, and Section 32, Township 23 South, Range 32 East, and,
 - j. Little Creek upstream to the eastern section line of Section 22, Township 24 South, Range 32 East; and,
 - k. Fourmile Creek upstream to the southern line of the NE 1 {2} of Section 28, Township 24 South, Range 32 East; and,
 - 1. Econlockhatchee River Swamp upstream to State Road 532;
- m. But excluding all other tributaries and artificial water bodies, defined as any water body created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (6-18-92).
- 12. Estero Bay Tributaries including: Hendry Creek to State Road 865, Big Bayou, Mullock Creek to U.S. 41 (State Road 45); Mud Creek; Estero River (north and south branches) to I-75 Halfway Creek to State Road 41; Spring Creek to Business Route 41 (State Road 887, old State Road 41), and the unnamed south branch of Spring Creek in Sections 20 and 29; Imperial River to the eastern line of Section 31, Range 26 East, Township 47 South, Oak Creek, and Leitner Creek; except for Tenmile Canal and any artificial water bodies, defined as any water body created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (10-4-90).
- 13. Florida Keys, including channels as defined in subsection 62-312.020(4), F.A.C., and described as follows: Commence at the northeasterly most point of Palo Alto Key and run due north to a point at the center of the channel of Broad Creek as the point of beginning, thence due east to the eastern boundary of the jurisdictional waters of the State of Florida, thence meander southerly along said eastern boundary to a point due south of the westernmost point of the island of Key West; thence westerly, northerly and easterly along the arc of a curve three leagues distant from the westernmost point of the island of Key West to a point due north of the island of Key West; thence northeasterly three leagues distant from the most northerly land of the Florida Keys to the intersection with the boundary of the Everglades National Park; thence southeasterly, northeasterly and northwesterly along the boundary of the Everglades National Park to the intersection with the Dade County-Monroe County line; thence northeasterly and easterly along the Dade County-Monroe County line to the point of beginning; less however, three a reas:
- a. Key West Sewage Outfall, being a circle 150 feet in radius from the point of discharge located at a pproximately 24° 32' 13" N. Latitude and 81° 48' 55" W. Longitude; and,
 - b. Stock Island Power Plant Mixing Zone; being a circle 150 feet in radius from the end of the power plant discharge canal; and,
- c. Artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (5-8-85).
- 14. Hillsborough River from Fletcher Avenue (State Road 582A) in Hillsborough County upstream to the Withlacoochee River Overflow in Pasco County, and the following tributaries:
 - a. Crystal Springs; and,
 - b. Blackwater Creek westward of the Hillsborough Polk County line; and,
 - c. Cypress Creek, Thirteenmile Run eastward of Livingston Avenue, and Big Cypress Swamp upstream to and including the

Cypress Creek Wellfield, as delineated in the maps entitled "Cypress Creek OFW Boundary Maps," incorporated herein by reference; and,

- d. Trout Creek upstream to Bruce B. Downs Boulevard (State Road 581).
- e. But excluding all other tributaries as well as the proposed transportation corridor, which crosses Cypress Creek in Section 21, Township 27 South, Range 19 East, as identified in the Adopted 2010 Long Range Transportation Plan of the Metropolitan Planning Organization, dated May 26, 1993.
- f. A copy of the maps referenced in subparagraph c. above may be obtained from the Department of Environmental Protection, Bureau of Surface Water Management, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400 (4-12-95).
- 15. Homosassa River System including: Halls River, Turtle, Otter, Battle, and Price Creeks, and other tributaries to the Homosassa River; but excluding artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (1-5-93).
- 16. Kingsley Lake and Black Creek (North Fork) downstream to the northern line of Section 23, Township 5 South, Range 23 East, including all tributaries along this segment of Black Creek (11-8-90).
- 17. Lake Disston Specifically including Lake Disston plus contiguous wetlands within the following areas: Township 14 South, Range 29 East, Sections 21, 20, 19, 18, 17, 16, 9, 8 and 7 in Flagler County; and Township 14 South, Range 28 East, Sections 13 and 24 in Volusia County except:
- a. Artificial water bodies defined as any water body created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C.; and,
 - b. Any natural water bodies connected by artificial water bodies to the above-described system (4-4-01).
- 18. Lake Powell, Phillips Inlet, and all tributaries to Lake Powell as bounded by the following described line: Begin at the Northwest corner of Section 26, Township 2 South, Range 18 West; thence East to the Northwest corner of Section 29, Township 2 South, Range 17 West; thence South to the Northwest corner of the SW 1/4 of Section 29, Township 2 South, Range 17 West; thence East to the West line of Section 27, Township 2 South, Range 17 West, thence South to the mean high water line of the Gulf of Mexico; thence meander Northwest along the mean high water line to the West line of Section 35, Township 2 South, Range 18 West; thence North to the point of beginning (8-18-91).
- 19. Lemon Bay estuarine system from Boca Grande Causeway northward to a pproximately two thousand feet northwest of the mouth of Alligator Creek, specifically identified as the East line of Section 31, Township 39 South, Range 19 East, including Placida Harbor, Gasparilla Pass, Kettle Harbor, Bocilla Lagoon, Bocilla Pass, Knight Pass, Stump Pass, Lemon Bay, Buck Creek upstream to County Road 775, Oyster Creek upstream to County Road 775, Ainger (Rock) Creek upstream to County Road 775, and Godfrey (Godfried, Gottfried) Creek upstream to County Road 775; but excluding:
 - a. Alligator Creek, Forked Creek, Lemon Creek, and all other tributaries; and,
- b. Artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (4-29-86).
- 20. Little Manatee River from its mouth to the western crossing of the river by S.R. 674, including Hayes, Mill and Bolster Bayous, but excluding South Fork, Ruskin Inlet and all other tributaries (10-1-82).
- 21. Lochloosa Lake (including Little Lochloosa Lake, Lochloosa Lake Right Arm, and Lochloosa Creek upstream to County Road 20A) (12-15-87).
- 22. Myakka River between State Road 771 (El Jobean Bridge) and the Charlotte-Sarasota County line, except for artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (4-19-88).
 - 23. Ochlockonee River.
- 24. Okla wa ha River between the eastern line of Section 36, Township 15 South, Range 23 East, and Eureka Lock and Dam, including Turkey Creek, Strouds Creek, Dead River (the water body so named near Gores Landing), Cedar Creek, and Fish Creek, but excluding Marshall Swamp, the Dead River (the water body so named exiting Marshall Swamp), and all other tributaries (12-20-89).
 - 25. Orange Lake up to the U.S. Highway 301 bridge, the River Styx up to Camps Canal, and Cross Creek (4-9-87).
 - 26. Perdido River.
 - 27. Rainbow River, including Indian Creek, but excluding all other tributaries (1-17-85).
 - 28. Santa Fe River System consisting of the Santa Fe River, Lake Santa Fe, Little Lake Santa Fe, Santa Fe Swamp, Olustee

Creek, and the Ichetucknee River below S.R. 27, but excluding all other tributaries (8-16-84).

- 29. Sarasota Bay estuarine system generally extending from Venice north to the Hillsborough-Manatee County line and specifically described as follows: Commence at the northern tip of Anna Maria Island and follow a line running to the southern tip of Egmont Key until intersecting the boundary between Hillsborough and Manatee Counties; thence run easterly and northeasterly along the county boundary until intersecting the Intracoastal Waterway; thence proceed southerly until intersecting a line between the southern tip of Mullet Key and the western tip of Snead Island; thence proceed southeasterly along said line to the western tip of Snead Island; thence to De Soto Point; and thence westerly and southerly including all of the Sarasota Bay estuarine system southward to the northernmost U.S. Highway Business Route 41 bridge over the Intracoastal Waterway in Venice, including Anna Maria Sound, Passage Key Inlet, Perico Bayou, Palma Sola Bay, Longboat Pass, Sarasota Bay, New Pass, Big Sarasota Pass, Roberts Bay, Little Sarasota Bay, Dryman Bay, Blackburn Bay, Lyons Bay, Venice Inlet, Dona Bay upstream to the U.S. Highway 41 bridge, and Roberts Bay upstream to the U.S. Highway 41 bridge; less however, the following a reas:
- a. All tributaries, including Palma Sola Creek, Bowlees Creek, Whitaker Bayou, Hudson Bayou, Phillippi Creek, Catfish Creek, North Creek, South Creek, Shakett Creek, Curry Creek; and,
 - b. A circle 1500 feet in radius from the mouth of Whitaker Bayou; and,
 - c. A circle 1500 feet in radius from the mouth of Phillippi Creek; and,
- d. Artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (4-29-86).
- e. The designation shall not affect the consideration by the Department of an application for Site Specific Alternative Criteria for the discharge of the City of Bradenton's Municipal Sewage Treatment Plant being built under Department of Environmental Protection Construction Permit No. DC41-81224. The application will be processed under the regulations of the Department existing on February 18, 1986.
 - 30. St. Marks River except that part between Rattlesnake Branch and the confluence of the St. Marks and Wakulla Rivers.
 - 31. Shoal River.
 - 32. Silver River (Marion County) (4-9-87).
 - 33. Spruce Creek upstream to State Road 40A, and the following tributaries:
 - a. Unnamed tributary upstream to the Southern section line of Section 4, Township 17 South, Range 33 East; and,
 - b. Unnamed tributary upstream to the Northern section line of Section 20, Township 16 South, Range 33 East; and,
- c. Unnamed tributary upstream to the Northern section line of Section 23, Township 16 South, Range 32 East (right fork), and to the Western line of the NE 1/4 of Section 27, Township 16 South, Range 32 East; and,
 - d. Unnamed tributary upstream to the Western section line Section 35, Township 16 South, Range 32 East; and,
- e. Strickland Bay; and Turnbull Bay and Turnbull Creek upstream to the Northwestern section line of Section 43, Township 17 South, Range 33 East; and,
 - f. Murray Creek upstream to the Town of Ponce Inlet municipal limits; and,
- g. Waters east from U.S. Highway 1 following the northerly and southerly municipal limits of the Town of Ponce Inlet to its intersection with the western boundary of the Intracoastal Waterway and including Rose Bay upstream to Nova Road (State Road 5A).
 - h. But excluding all other tributaries (7-11-91).
 - 34. Suwannee River.
 - 35. Tomoka River upstream to Interstate Highway 4; and the following tributaries:
 - a. Priest Branch upstream to the Western and Southern section lines of Section 6, Township 15 South, Range 32 East; and,
- b. Little Tomoka River and its tributaries as bounded by the following described line: Begin at the Southwestern point of confluence between the Tomoka River and the Little Tomoka River; thence meander upstream along the Little Tomoka River to the Western section line of Section 25, Township 14 South, Range 31 East; thence South to the Southwest corner of Section 25, Township 14 South, Range 31 East; thence West to the Southwest corner of Section 28, Township 14 South, Range 31 East; thence North to the Northwest corner of Section 28, Township 14 South, Range 31 East; thence South to the Northern shore of the Little Tomoka River; thence meander easterly to the confluence with the Tomoka River; thence South to the point of beginning; and,
 - c. Groover Branch upstream to the Northern section line of Section 24, Township 14 South, Range 31 East; and,
 - d. Misner's Branch upstream to the Northern section line of Section 29, Township 14 South, Range 32 East; and,
 - e. Thompson Creek and Strickland Creek upstreamto the Northern section line of Section 40, Township 14 South, Range 32 East,

- f. But excluding all other tributaries (7-11-91).
- 36. Wacissa River.
- 37. Wakulla River.
- 38. Weekiwachee Riverine and Spring System consisting of the Weekiwachee Springs and River, Mud Springs and River, Jenkins Creek, Salt Spring and Creek, the Weekiwachee Swamp, and all tributaries and contiguous wetlands within the following sections: Township 23 South, Range 17 East, Sections 2-9; Township 22 South, Range 17 East, Sections 20, 21, and 27-35, together with that portion of Section 19 that is southerly of CR 550 (Cortez Blvd.); Township 22 South, Range 16 East, Sections 25 and 36; including any and all waters, and wetlands contiguous to the tributaries located southerly of the north line of Section 25, Township 22 South, Range 16 East and westerly projection thereof and easterly of the west line of Section 36, Township 22 South, Range 16 East and northerly projection thereof, and easterly of a line through latitude 28° 32' 52" North, longitude 82° 39' 23" West, and through latitude 28° 31' 47" North, longitude 82° 39' 52" West (North American Datum of 1983). This OFW excludes artificial waters defined as any water body created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (12-11-03).
- 39. Wekiva River System consisting of the Wekiva River, Rock Springs Run and its tributary Sulphur Spring, the Little Wekiva River south to its confluence with the southernmost run of Sanlando Springs, Black Water Creek and Swamp (up to Lake Dorr), Lake Norris, Seminole Springs and Creek, Seminole Swamp, Sulphur Spring and Run, and Messant Spring and Creek, but excluding all other tributaries (12-28-88).
- 40. Wiggins Pass Estuarine Area and the Cocohatchee River System the estuarine and marine waters from the Lee/Collier County line southward through and including Water Turkey Bay to 50 feet north of S.R. 846 (Bluebill Ave.) 1995 right-of-way; the Cocohatchee River downstream from 50 feet west of U.S. 41 1995 right-of-way; and Wiggins Pass; but excluding maintenance dredging as authorized by Section 403.813(1)(f), F.S., in the following areas:
- a. Wiggins Pass from the Gulf of Mexico eastward for 200 linear feet (as measured from the southwestern point of Little Hickory Island).
- b. The channel (South Channel, Vanderbilt Channel), that connects Wiggins Pass with Vanderbilt Lagoon through Water Turkey Bay; and,
- c. East Channel (for purposes of this designation described as the East Channel from its confluence with South Channel to Vanderbilt Drive, including all waters surrounding the spoil islands known as Conklin Point and Island Marina) (7-16-96).
 - 41. Withla coochee Riverine and Lake System, including:
- a. The Withlacoochee River downstream of State Road 33 in Lake County to eastern section line of Section 33, Township 16 South, Range 18 East; and,
- b. The lower Withla coochee River, from the Gulf of Mexico to the Cross Florida Barge Canal By-Pass Spillway, but not including that portion of the river between Lake Rousseau and the Cross Florida Barge Canal; and,
 - c. The Little Withla coochee River; and,
 - d. Jumper Creek downstream of State Road 35, including Jumper Creek Swamp; and,
 - e. Gum Springs, Gum Slough (Dead River), and Gum Swamp; and,
 - f. Lake Panasoffkee, Outlet River, Little Jones Creek, Big Jones Creek, and Rutland Creek; and,
 - g. Shady (Brook, Panasoffkee) Creek downstream of State Road 468, including Warm Spring Hammock; and,
 - h. Lake Tsala Apopka; and,
- i. But excluding all other tributaries and artificial waterbodies, defined as any waterbody created by dredging, or excavation, or by the filling in of its boundaries, including canals as defined in subsection 62-312.020(3), F.A.C. (4-10-89); and,
- (j) Waters within Rivers Designated Under the Florida Scenic and Wild Rivers Program, Federal Wild and Scenic Rivers Act of 1968 as amended, and Myakka River Wild and Scenic Designation and Preservation Act

	, ,	
	<u>River Segment</u>	County
1.	Loxa hatchee National Wild and Scenic River Segment (5-14-86)	Martin/Palm Beach
2.	Myakka Florida Wild and Scenic River Segment (5-14-86)	Sarasota
3.	Wekiva Florida Scenic and Wild River Segment (12-1-82)	Lake/Seminole

(k) Waters within National Preserves

	<u>National Preserve</u>	County
1.	Big Cypress National Preserve (as mod. 5-14-86, 4-19-88, 8-8-94)	Collier/Dade/Monroe

2.	Timucuan Ecological and Historic Preserve (8-8-94)	Duval			
(l) Wa	(l) Waters within National Marine Sanctuaries				
	Marine Sanctuary	<u>County</u>			
1.	Key Largo	Monroe			
2.	Looe Key (12-1-82)	Monroe			
(m) W	Vaters within National Estuarine Research Reserves				
	<u>National Estuarine</u>				
	Research Reserve	<u>County</u>			
1.	Apalachicola (12-1-82; as mod. 5-14-86, 4-19-88)	Franklin/Gulf			
2.	Rookery Bay (as mod. 5-14-86, 4-19-88)	Collier			
(n) C	erta in Waters within the Boundaries of the National Forests				
	National Forest	County			
1.	Apalachicola	Wakulla/Leon/Franklin			
a.	Sopchoppy River (9-1-82)				
b.	Big Disma1Sink (9-1-82)				
2.	Ocala	Putnam/Marion/Lake			
a.	Alexander Springs (9-1-82)				
b.	Alexander Springs Creek (9-1-82)				
c.	Juniper Springs (9-1-82)				
d.	Juniper Creek (9-1-82)				
e.	Salt Springs (9-1-82)				
f.	Salt Springs Run (9-1-82)				
g.	Lake Dorr (9-1-82)				
h.	Lake Kerr (9-1-82)				
i.	Little Lake Kerr (9-1-82)				
3.	Osceola	Baker/Columbia			
a.	Deep Creek (9-1-82)				
b.	Robinson Creek (9-1-82)				
c.	Middle Prong – St. Marys River (9-1-82)				
d.	Ocean Pond (9-1-82)				
e.	Falling Creek (9-1-82)				
(10)	Intetanding National Pacource Waters:				

- (10) Outstanding National Resource Waters:
- (a) The Commission designates the following waters as Outstanding National Resource Waters:
- 1. Bisca yne National Park, as described in the document entitled "Outstanding National Resource Waters Boundary Description and Map for Biscayne National Park", dated June 15, 1989, herein a dopted by reference.
- 2. Everglades National Park, as described in the document entitled "Outstanding National Resource Waters Boundary Description and Map for Everglades National Park," dated June 15, 1989, herein adopted by reference.
- (b) It is the intent of the Commission that water bodies designated as Outstanding National Resource Waters shall be protected and maintained to the extent required by the federal Environmental Protection Agency. Therefore, the designations set forth in paragraph 62-302.700(10)(a), F.A.C., shall not be effective until the Florida Legislature enacts legislation specifically authorizing protection and maintenance of Outstanding National Resource Waters to the extent required by the federal Environmental Protection Agency pursuant to 40 C.F.R. 131.12.
- (c) It is also the intent of the Commission to utilize the Surface Water Improvement and Management Act planning process, as outlined in Section 373.451, F.S., and Chapter 62-43, F.A.C., to establish the numerical standards for water quality parameters appropriate for Everglades and Biscayne National Parks' status as outstanding National Resource Waters.
- (d) The baseline for defining the existing ambient water quality (paragraph 62-4.242(2)(c), F.A.C.) in Outstanding National Resource Waters is a five year period from March 1, 1976 to March 1, 1981, unless otherwise indicated.

403.101, 403.141, 403.182, 403.502, 403.702, 403.708 FS. History—New 3-1-79, Amended 8-10-80, 8-24-82, 9-30-82, 11-30-82, 2-1-83, 6-1-83, 3-1-84, 8-16-84, 12-11-84, 1-17-85, 5-8-85, 4-29-86, 5-14-86, 5-22-86, 5-28-86, 10-29-86, 2-18-87, 4-9-87, 11-24-87, 12-15-87, 1-26-88, 4-19-88, 12-28-88, 4-10-89, 9-13-89, 10-4-89, 12-20-89, 1-28-90, Formerly 17-3.041, Amended 10-4-90, 11-8-90, 7-11-91, 8-18-91, 12-11-91, 6-18-92, 1-5-93, 8-8-94, Formerly 17-302.700, Amended 1-23-95, 4-3-95, 4-12-95, 7-16-96, 4-4-01, 12-11-03, 1-9-06, 12-7-06.

62-302.800 Site Specific Alternative Criteria.

- (1) Type I Site Specific Alternative Criteria: A waterbody, or portion thereof, may not meet a particular ambient water quality criterion specified for its classification, due to natural background conditions or man-induced conditions which cannot be controlled or a bated. In such circumstances, and upon petition by an affected person or upon the initiation by the Department, the Secretary may establish a site specific alternative water quality criterion when an affirmative demonstration is made that an alternative criterion is more appropriate for a specified portion of waters of the state. Public notice and an opportunity for public hearing shall be provided prior to issuing any order establishing alternative criteria.
- (a) The affirmative demonstration required by this section shall mean a documented showing that the proposed alternative criteria would exist due to natural background conditions or man-induced conditions which cannot be controlled or abated. Such demonstration shall be based upon relevant factors which include:
- 1. A description of the physical nature of the specified waterbody and the water pollution sources affecting the criterion to be altered.
- 2. A description of the historical and existing water quality of the parameter of concern including, spatial, seasonal, and diumal variations, and other parameters or conditions which may affect it. Conditions in similar water bodies may be used for comparison.
- 3. A description of the historical and existing biology, including variations, which may be a ffected by the parameter of concern. Conditions in similar water bodies may be used for comparison.
 - 4. A discussion of any impacts of the proposed alternative criteria on the designated use of the waters and a djoining waters.
- (b) The Secretary shall specify, by order, the site specific criteria for the parameters which the Secretary determines to have been demonstrated by the preponderance of competent substantial evidence to be more appropriate.
- (2) Type II Site Specific Alternative Criteria: In accordance with the procedures set forth below, affected persons may petition the Department, or the Department may initiate rulemaking, to a dopt an alternative water quality criterion for a specific waterbody, or portion thereof, on the basis of site-specific reasons other than those set forth above in subsection 62-302.800(1), F.A.C. The Department shall process any such petition as follows:
- (a) No later than 60 days a fter receipt of a petition, the Department shall review the petition and notify the petitioner of whether the petition is sufficiently complete to enable the Department to evaluate the proposed site-specific alternative criterion under paragraph (c) below. If the petition is not sufficiently complete, the Department shall request the submittal of a dditional information. The Department shall review any additional information within 60 days of receipt from the applicant and may then request only that information reasonably needed to clarify or answer new questions directly related to the additional information, unless the Department shows good cause for not having requested the information previously.
- (b) Petitions deemed complete by the Department shall be processed under paragraph (c). For any petition not deemed complete, if the petitioner believes that additional information requested by the Department under paragraph (a), is not necessary to the Department's evaluation, the Department, at the petitioner's request, shall proceed to process the petition under paragraph (c), below.
- (c) The Department shall initiate rulemaking for the Commission to consider approval of the proposed alternative criterion as a rule if the petitioner meets all the requirements of this subparagraph and its subparts. The petitioner must demonstrate that the proposed criterion would fully maintain and protect human health, existing uses, and the level of water quality necessary to protect human health and existing and designated beneficial uses. If the petition fails to meet any of these requirements (including the required demonstration), the Department shall issue an order denying the petition. In deciding whether to initiate rulemaking or deny the petition, the Department shall evaluate the petition and other relevant information according to the following criteria and procedures:
 - 1. The petition shall include all the information required under subparagraphs (1)(a)1.-4., a bove.
- 2. In making the demonstration required by this paragraph (c), the petition shall include an assessment of a quatic toxicity, except on a showing that no such assessment is relevant to the particular criterion. The assessment of a quatic toxicity shall show that physical and chemical conditions at the site alter the toxicity or bioavaila bility of the compound in question and shall meet the requirements and follow the Indicator Species procedure set forth in *Water Quality Standards Handbook* (December 1983), a publication of the United States Environmental Protection Agency, incorporated here by reference. If, however, the Indicator Species Procedure is not

applicable to the proposed site-specific alternative criterion, the petitioner may propose another generally accepted scientific method or procedure to demonstrate with equal assurance that the alternative criterion will protect the aquatic life designated use of the waterbody.

- 3. The demonstration shall also include a risk assessment that determines the human exposure and health risk associated with the proposed alternative criterion, except on a showing that no such assessment is relevant to the particular criterion. The risk assessment shall include all factors and follow all procedures required by generally accepted scientific principles for such an assessment, such as analysis of existing water and sediment quality, potential transformation pathways, the chemical form of the compound in question, indigenous species, bioaccumulation and bioconcentration rates, and existing and potential rates of human consumption of fish, shellfish, and water. If the results of the assessments of health risks and a quatic toxicity differ, the more stringent result shall govern.
- 4. The demonstration shall include information indicating that one or more assumptions used in the risk assessment on which the existing criterion is based are inappropriate at the site in question and that the proposed assumptions are more appropriate or that physical or chemical characteristics of the site alter the toxicity or bioavailability of the compound. Such a variance of assumptions, however, shall not be a ground for a proposed alternative criterion unless the assumptions characterize a factor specific to the site, such as bioaccumulation rates, rather than a generic factor, such as the cancer potency and reference dose of the compound. Maninduced pollution that can be controlled or a bated shall not be deemed a ground for a proposed alternative criterion.
- 5. The petition shall include all information required for the Department to complete its economic impact statement for the proposed criterion.
- 6. For any alternative criterion more stringent than the existing criterion, the petition shall include an analysis of the attainability of the alternative criterion.
- 7. No later than 180 days after receipt of a complete petition or after a petitioner requests processing of a petition not found to be complete, the Department shall notify the petitioner of its decision on the petition. The Department shall publish in the Florida Administrative Register either a notice of rulemaking for the proposed alternative criterion or a notice of the denial of the petition, as appropriate, within 30 days after notifying the petitioner of the decision. A denial of the petition shall become final within 14 days unless timely challenged under Section 120.57, F.S.
 - (d) The provisions of this subsection do not apply to criteria contained in Rule 62-302.500, F.A.C., or criteria that apply to:
 - 1. Biological Health (subsection 62-302.530(10), F.A.C.).
 - 2. B.O.D (subsection 62-302.530(11), F.A.C.).
- 3. Odor (subsections 62-302.500(1), 62-302.530(21), 62-302.530(48), paragraphs 62-302.530(49)(b) and 62-302.530(52)(a), F.A.C.).
 - 4. Oils and Greases (subsection 62-302.530(49), F.A.C.).
 - 5. Radioactive Substances (subsection 62-302.530(57), F.A.C.).
- 6. Substances in concentrations that injure, are chronically toxic to, or produce adverse physiological or behavioral response in humans, a nimals, or plants (subsection 62-302.530(61), F.A.C.).
- 7. Substances, other than nutrients, in concentrations that result in the dominance of nuisance species (subsection 62-302.200(20), F.A.C.).
 - 8. Total Dissolved Gases (subsection 62-302.530(66), F.A.C.).
 - 9. Any criterion or maximum concentration based on or set forth in paragraph 62-4.244(3)(b), F.A.C.
- (e) Despite any failure of the Department to meet a deadline set forth in this subsection (2), the grant of an alternative criterion shall not become effective unless approved as a rule by the Commission.
 - (f) Nothing in this rule shall alter the rights afforded to affected persons by Chapter 120, F.S.
- (3) Type III Site Specific Alternative Criteria (SSAC) for Nutrients: Upon petition by an affected person or upon initiation by the Department, the Department shall establish, by Secretarial Order, site specific numeric nutrient criteria when an affirmative demonstration is made that the proposed criteria achieve the narrative nutrient criteria in paragraph 62-302.530(47)(b), F.A.C., and are protective of downstream waters. Public notice and an opportunity for public hearing shall be provided prior to adopting any order establishing alternative criteria under this subsection.
 - (a) The Department shall establish a Type III SSAC if all of the following conditions are met:
 - 1. The petitioner demonstrates that the waterbody a chieves the narrative nutrient criteria in paragraph 62-302.530(47)(b), F.A.C.
 - a. For streams, such a demonstration shall require:
 - I. Information on chlorophyll a levels, algal mats or blooms, nuisance macrophyte growth, and changes in algal species

composition indicating that there is not an imbalance in flora; and,

- II. At least two temporally independent SCIs, conducted at a minimum of two spatially-independent stations representative of the waterbody or water segment for which a SSAC is requested, with an average score of 40 or higher, with neither of the two most recent SCI scores less than 35.
 - b. For lakes, such a demonstration shall require:
 - I. Information on chlorophyll a levels, a lgal mats or blooms indicating that there is not an imbalance in flora or fauna; and,
 - II. At least two temporally independent LVIs, with an average score of 43 or above.
- c. SCIs and LVIs collected at the same location less than three months apart shall be considered to be one sample, with the mean value used to represent the sampling period. SCIs and LVIs shall be conducted during the water quality sampling period described in subparagraph 62-302.800(3)(a)2., F.A.C. There shall be a minimum of two assessments per station or lake, with at least one assessment conducted during the final year.
- 2. The petitioner provides sufficient data to characterize water quality conditions, including temporal variability, that are representative of the biological data used to support the SSAC. The water quality data shall be collected in the same waterbody segment as the biological monitoring stations and at a frequency and duration consistent with the study design concepts described in the document titled *Development of Type III Site Specific Alternative Criteria (SSAC) for Nutrients*, (DEP-SAS-004/11), dated October 24, 2011 (http://www.flrules.org/Gateway/reference.asp?No=Ref-06044), which is incorporated by reference herein. Copies of this document may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400. Water quality data associated with extreme climatic conditions, such as floods, droughts, and hurricanes, shall be excluded from the analysis.
 - 3. Demonstration of downstream protection by one of the following methods:
 - a. Downstream waters are attaining water quality standards related to nutrient conditions pursuant to Chapter 62-303, F.A.C., or
 - b. If the downstream waters do not attain water quality standards related to nutrient conditions:
 - I. The nutrients delivered by the waterbody subject to the Type III SSAC meet the allocations of a downstream TMDL, or
- II. The nutrients delivered by the waterbody are shown to provide for the attainment and maintenance of water quality standards in downstream waters.
- (b) The SSAC shall be established at a level representative of nutrient loads or concentrations that have been demonstrated to be protective of the designated use by maintaining balanced, natural populations of aquatic flora and fauna. This demonstration shall take into account natural variability by using statistical methods appropriate to the data set, as described in *Development of Type III Site Specific Alternative Criteria (SSAC) for Nutrients* (DEP-SAS-004/11).
 - (4) The Department shall modify permits of existing sources affected in a manner consistent with the Secretary's Order.
- (5) Additional relief from criteria established by this Chapter may be provided through exemption pursuant to Rule 62-4.243, F.A.C., or variances as provided for by Rule 62-110.104, F.A.C.
- (6) Type II site specific alternative criteria apply to the water bodies, or portions of the water bodies, listed below. For dissolved oxygen site specific alternative criteria, normal daily and seasonal fluctuations above the levels listed in the table below shall be maintained. For site specific alternative criteria with seasonal limits, the generally applicable criteria in Rule 62-302.530, F.A.C., apply at other times of the year.

Water Body and Class	Site Specific Alternative Criteria	County(s)
(a) Marine portions of the lower St.	Dissolved Oxygen not less than a minimum concentration of	Duval/
Johns River and its tributaries between	4.0 mg/L, and a Total Fractional Exposure not greater than	Clay/St.
Julington Creek and the mouth of the river. Class III.		Johns

	where the number of days in an interval is based on the daily a verage Dissolved Oxygen concentration.	
(b) Discharge wetlands at the Orange County Eastern Water Reclamation Facility. Class III.	pH of not greater than 8.5 standard units.	Orange
(c) Fenholloway River from river mile - 0.1 to river mile 3.5. Class III.	The annual average compensation depth for photosynthetic activity for phytoplankton shall not be decreased greater than 44.3 percent from background conditions as determined by an annual average compensation depth of at least 0.66 meters at river mile 0.53 (station F06). This value must be based on a minimum of 12 measurements during times when the average flow at Cooey Island Bridge at river mile 7.15 measures less than 200 cubic feet per second.	Taylor
(d) Fenholloway River coastal waters (Apalachee Bay) as spatially defined by the coordinates (83° 49' 29.95" W, 29° 59' 38.70" N), (83° 45' 3.61" W, 29° 57' 22.10" N), (83° 47' 23.50" W, 29° 54' 5.01" N), and (83° 51' 45.47" W, 29° 56' 25.71" N). Class III.	The average of the growing season (May 1 – October 31) average light (as photosynthetically active radiation between 400 and 700 nm) at 1 m depth at stations F10 (83° 47' 6.60" W, 29° 57' 4.20" N) and F11 (83° 48' 27.00" W, 29° 57' 38.40" N) shall be 36 percent or more of surface values based on a minimum of 12 measurements and will only apply during years in which the growing season average flow at Hampton Springs Bridge (USGS gage 02325000 near Peny) is less than or equal to 60 cubic feet per second (after subtracting flows from permitted point sources).	Taylor
(e) Pace Swamp as delineated on the map titled "Pace Swamp pH SSAC Boundary," dated July 1, 2014 (http://www.flrules.org/Gateway/reference.asp?No=Ref-04591), which is incorporated by reference herein. Copies of this document may be obtained by writing to the Florida Department of Environmental Protection, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400. Class III.	pH shall not exceed 7.0 standard units in more than 10 percent of the measurements collected in a calendar year, nor vary below natural background.	Santa Rosa

 $Rule making \ Authority \ 403.061, \ 403.062, \ 403.087, \ 403.504, \ 403.704, \ 403.804, \ 403.805 \ FS. \ Law \ Implemented \ 403.021(11), \ 403.061, \ 403.087, \ 403.088, \ 403.141, \ 403.161, \ 403.502 \ FS. \ History-Formerly \ 17-3.05(4), \ Amended \ 3-1-79, \ 10-2-80, \ 2-1-83, \ Formerly \ 17-3.031, \ Amended \ 6-17-92, \ Formerly \ 17-302.800, \ Amended \ 5-15-02, \ 1-9-06, \ 6-28-06, \ 12-7-06, \ 8-5-07, \ 8-5-10, \ 7-3-12, \ 8-1-13, \ 10-6-14, \ 2-17-16.$